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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (ª); of the Supreme Court of the United States by the letter (*).]

ERRATA.

1,661,467, page 124, in heading, after residence of patentee insert ***assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts.***

1,662,306, page 385, first claim, line 7, for the word "each" read ***said.***

Trade-Mark (Renewed) 69,024, page 733, January 24, 1928, should read: Certain Cereal Foods. Registered May 12, 1908. Fayetteville Mill Co. Renewed May 12, 1928, to Fayetteville Milling Co., Fayetteville, Tenn., assignee by mesne assignments.

THE

OFFICIAL GAZETTE

OF THE

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Designs	55—No.	74,587 to No.	74,641, inclusive.
Patents	897—No.	1,661,152 to No.	1,662,048, inclusive.
Total	1,445		

Classification Bulletin No. 59.

Classification Bulletin No. 59, containing changes from July 1 to December 31, 1927, is now on sale at 10 cents per copy.

Interference Notices.

U. S. Patent Office, *Washington, Feb. 23, 1928.*

Weeber & Don, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Farmer Seed & Nursery Co., 918 Fourth Street west, Faribault, Minn., for registration of a trade-mark and trade-mark registered December 30, 1913, No. 94,778, to Weeber & Don, 114 Chambers Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Weeber & Don at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Weeber & Don, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. Patent Office, *Washington, Feb. 15, 1928.*

Joseph A. Arment, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Pacific Coast Biscuit Company, Central Building, Seattle, Wash., for registration of a trade-mark and trade-mark registered July 1, 1902, No. 38,542, to Joseph A. Arment, No. 9 North Sixth Street, Portland, Oreg., and a notice of such declaration sent by registered mail to said Joseph A. Arment at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Joseph A. Arment, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

NOTICE.—AMENDMENT TO RULES OF PRACTICE.

PARAGRAPHING OF SPECIFICATIONS.

Attention is called to the amendment of rule 45, which reads as follows:

"In order to facilitate printing, each paragraph or claim should be completed on the page upon which it is begun and should not be split between two pages except where the length of a paragraph or claim requires more than one full page."

The purpose of this amendment is to facilitate the work of the Printing Office. That Office has found it expedient in printing specifications to divide the work on any one specification among different printers and since the pages of the specification can not be cut and the parts pasted together it necessitates, in cases where a paragraph or a claim is continued from one page to the next, the carrying of the page from one typesetter to another. It will therefore be seen that if the specifications are prepared as indicated in the amended rule, the work of the Printing Office will be very much facilitated with a consequent saving of time and expense.

If typewriting the specification as above outlined should necessitate leaving a considerable blank at the bottom of any one page, a diagonal line may be drawn across this space before the application is executed.

February 8, 1928.

WM. A. KINNAN,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business February 24, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 92,508; Trade-Mark Division, 2,003. Oldest new case, May 16, 1927; oldest amended, June 6, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 18	Aug. 3	1,370
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Aug. 20	Sept. 6	1,248
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 21	Sept. 22	1,868
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	June 15	June 10	2,120
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	July 1	July 1	1,404
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	July 13	Aug. 15	2,236
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	July 7	July 6	2,095
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Aug. 2	Aug. 24	1,859
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 19	Oct. 25	1,440
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 11	Oct. 12	1,712
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Sept. 20	Sept. 20	1,415
380	12. PIERCE, P. P., Machine Elements	June 27	June 6	1,531
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	June 20	July 14	1,846
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	June 17	June 27	1,623
320	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Aug. 6	Aug. 20	1,839
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy, Telephony	Aug. 29	Sept. 17	1,285
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufacture; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Aug. 1	Sept. 17	1,094
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	July. 22	July 20	1,272
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Aug. 22	Sept. 21	1,333
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Oct. 7	Oct. 7	1,363
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 2	July 25	1,307
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 28	Sept. 6	1,539
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	May 16	June 17	1,312
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 9	June 21	1,536
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 17	Sept. 1	1,879
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	June 21	June 22	1,186
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Aug. 23	Sept. 28	1,275
225	28. BENSON, A. R., Internal-Combustion Engines	July 1	July 12	1,838
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 22	June 16	1,647
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	July 5	Oct. 14	1,550
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	July 30	July 11	2,283
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	July 29	July 30	1,714
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Oct. 20	Oct. 26	1,849
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 9	June 17	1,346
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 5	Nov. 3	1,350
106	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Oct. 3	Oct. 6	1,496
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Aug. 1	Aug. 1	1,948
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Aug. 10	Aug. 9	1,670
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 6	June 13	1,431
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	July 11	Aug. 13	2,292
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Sept. 6	Sept. 12	856
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	June 25	June 30	1,890
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Aug. 2	Sept. 20	1,806
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	June 10	June 24	1,826
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Sept. 26	Oct. 10	1,237
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 6	Aug. 4	1,543
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	July 26	Aug. 1	2,281
213*	48. ROEPKE, O. B., Electricity, General Applications	Aug. 24	Aug. 24	1,374
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 13	Aug. 24	1,318
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Aug. 4	Aug. 6	2,228
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	July 30	July 28	1,908
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Aug. 25	Aug. 29	2,137
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Aug. 6	Aug. 6	1,520
241*	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	July 26	July 26	2,085
102	55. RICHARD, V. I. {Bread, Pastry, and Confection Making; Cutlery / Designs	July 1 / †Jan. 14	July 1 / †Jan. 23	839 / 809
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	May 27	June 24	2,150
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks / Labels and Prints	†Jan. 25 / †Feb. 1	†Feb. 11 / †Feb. 10	1,843 / 220

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

THREE IN ONE OIL COMPANY *v.* THE LOBL MANUFACTURING COMPANY.

No. 1,984. Decided December 5, 1927.

1. TRADE-MARK—GOODS—SAME DESCRIPTIVE PROPERTIES. Hot-water bottles, ice bags, and fountain syringes *Held* not to constitute goods of the same descriptive properties as oil.

2. SAME—CORPORATE NAME. The term "Three in One" *Held* not to constitute the corporate name of the Three In One Oil Company and the term "3 in 1" *Held* registrable for hot-water bottles, ice bags, and fountain syringes, notwithstanding the prior use of the name Three in One Oil Company by a company manufacturing oil.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Jas. L. Steuart for Three in One Oil Company.

Mr. L. B. Kemon for The Lobl Mfg. Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

Appellee company applied for registration of a trade-mark "3 in 1," alleged to have been used by it on hot-water bottles, ice bags, and fountain syringes. Appellant, the Three In One Oil Company, a corporation, opposes the registration of the mark on two grounds: first, that the opposer has, for about 30 years past, been engaged in the business of manufacturing and selling oil under the trade-mark "3 in 1"; and, second, on the ground that Three In One is the dominating feature of its corporate name.

From the decision of the Commissioner, dismissing the opposition and permitting the registration of appellant's mark, the case comes here on appeal.

Under section 5 of the Trade-Mark act of February 20, 1905, it is provided—

> that no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark * * * provided that no mark which consists merely in the name of an individual, firm, corporation, or association, not written, printed, impressed or woven in some particular or distinctive manner, or in association with a portrait of the individual, or merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term, shall be registered under the terms of this act.

[1] We are of opinion that the goods upon which these marks are used are not of the same descriptive qualities to the extent of prohibiting the registration of the mark. This brings us to the right of appellee company to register as its trade-mark a part of the corporate name of appellant corporation.

[2] In the case of *American Steel Foundries v. Robertson, Commissioner, et al.*, 269 U. S. 372, the court had under consideration the right of the Foundries Corporation to appropriate as a trade-mark the word "Simplex," which it was claimed was the dominating feature of the opposer's corporation, the Simplex Heating Company. It was found, as here, that the goods on which the Foundries Company used this mark were not of the same descriptive properties as the goods on which the Heating Company used the same mark. As to the right of the Foundries Company to appropriate "Simplex," notwithstanding it was part of the name of the Heating Company, the court found that—

> the word "simplex" is only a portion of the corporate name; its use by plaintiff is upon articles, the like of which has never been manufactured or sold by the defendant corporation; it comprises the whole or a part of about sixty registrations, by nearly as many different parties upon many kinds of merchandise; and it forms part of the names of other corporations in the country.

In the present case, it appears that there are about 75 registrations in the Patent Office of the trade-mark "3 in 1;" and that "Three In One" is part of the name of many corporations doing business in various lines throughout the country. In this respect the Foundries case is controlling.

It is insisted, however, that the words "Three In One" are the salient feature in the name of appellant corporation. The words "Three In One" merely qualify the main feature of the corporate name "Oil Company." Three In One standing alone would signify nothing as identifying appellant corporation, since it is a qualifying feature in the names of many corporations. As said by the court in the Foundries case, quoting from the opinion of the Commissioners of Patents—

> It is a fact that the word "Simplex" has been in such wide and varied use in this country, not only as a trade-mark but as part of a firm or corporation name, that everybody has heretofore considered something more than the word "Simplex" necessary to identify a corporation. * * * The word "Simplex" does not identify any corporation in particular, for the simple reason that it is equally the name of various corporations. In short, if one referred to "The Company Simplex" without anything else, it would not be known to what he was referring.

On the authority of this case alone we can base our decision. Of course, where the entire corporate name is appropriated, the rule of the statute is absolute in terms and such a mark would be denied registration; but, as said in the Foundries decision—

> Where less than the whole name has been appropriated, the right of registration will turn upon whether it appears that such partial appropriation is of such character and extent that, under the facts of the particular case, it is calculated to deceive or confuse the public to the injury of the corporation to which the name belongs.

It is clear that there is no such confusion in the present case, and that the decision of the Commissioner dismissing the oppositions and directing registration to appellee corporation is right.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

THREE IN ONE OIL COMPANY *v.* BOSTON BRASS COMPANY.

No. 1,985. Decided December 5, 1927.

TRADE-MARKS—GOODS—SAME DESCRIPTIVE PROPERTIES.

Boiler relief valves *Held* not goods of the same descriptive properties as oil.

APPEAL from Commissioner of Patents. Affirmed.

Mr. Jas. L. Steuart for Three In One Oil Company.

Mr. Geo. P. Dike and *Mr. A. V. Cushman* for Boston Brass Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

This appeal is by the Three In One Oil Company from the decision of the Commissioner of Patents dismissing the oppositions to the registration of the trade-mark "2 in 1," used on boiler relief valves by appellee, Boston Brass Company. In this case, as in the case of *Three In One Oil Company* v. *Lobl Manufacturing Company* [368 O. G. 3] this day decided, there is no confusion that can possibly arise from the use of the marks, since the goods on which the marks are used are not of the same descriptive properties. Neither can confusion arise or any right inure to the opposer from the registration of the mark, since "2 in 1" is not even a part of appellant's corporate name.

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

THREE IN ONE OIL COMPANY *v.* BOSTON BRASS COMPANY.

No. 1,986. Decided December 5, 1927.

TRADE-MARKS—GOODS—SAME DESCRIPTIVE PROPERTIES.

Boiler relief valves *Held* not goods of the same descriptive properties as oil.

APPEAL from Commissioner of Patents. Affirmed.

Mr. Jas. L. Steuart for Three in One Oil Company.

Mr. Geo. P. Dike and *Mr. A. V. Cushman* for Boston Brass Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

Appellant, Three In One Oil Company, opposed the registration of the trade-mark "3 in 1" by appellee, Boston Brass Company, which alleges use of the trade-mark on boiler relief valves, while appellant has for many years been manufacturing and selling oil under its registered trade-mark "3 in 1."

It is clear that no confusion can arise from the use of the marks on the respective goods to which the mark is applied. It is insisted, however, that appellee company is appropriating the corporate name of the oil company. It is unnecessary to discuss this proposition in view of our decision this day delivered in *Three In One Oil Company* v. *Lobl Manufacturing Company* [368 O. G. 3.]

The decision of the Commissioner is affirmed.

Court of Appeals of the District of Columbia.

EDGAR-MORGAN COMPANY *v.* ANDERSON.

No. 1,990. Decided December 5, 1927.

TRADE-MARKS—SIMILARITY.

A mark for stock feed consisting of the word "Creamo" and the representation of a mule's head appearing in a circle *Held* deceptively similar to a previously-used mark for stock feed consisting of the words "Old Beck" and a red disk having thereon the representation of a mule's head.

APPEAL from the Commissioner of Patents. Reversed.

Mr. E. A. Wallace for Edgar-Morgan Co.

Mr. L. B. Kemon for Anderson.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

Appellant, Edgar-Morgan Company, filed a petition for the cancellation of the trade-mark "Creamo" placed above a circle in which appears the head of a mule. The mark is used on oats for use as stock feed. The petitioner claims damage through prior use upon stock feed of a mark which consists of the words "Old Beck" and a red disk underneath upon which appears the head of a mule.

No testimony was taken by the appellee; hence the earliest date to which he is entitled is his filing date, February 10, 1923. The testimony of petitioner shows that his mark has been employed by stamping it upon burlap bags in which the feed is packed, and on which appears the large red disk with a mule's head prominently displayed, and above the disk the words "Old Beck." While the position of the mule's head is slightly different in each case, it is set forth as a silhouette, and the difference is so slight that it would not be observed by the ordinary person. The only difference, therefore, between the marks are the words "Creamo" in the one instance and "Old Beck" in the other.

Cancellation was ordered by the Examiner of Interferences, and his decision was reversed by the Commissioner. We think the decision of the Examiner was right. While it is true that pictures of stock used in connection with stock feed are descriptive, the registrant in this case, as pointed out by the Examiner—

> has not distinguished its mark from that used by the petitioner as is required of traders using descriptive elements of another's mark.

The decision of the Commissioner of Patents is reversed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

852,848, H. K. Sandell, Coin-actuated device for controlling the operation of coin-operated machines; 1,198,860, Lesley & Enz, Circuit controller for mechanically-playing instruments; 1,198,861, Lesley & Schoen, Circuit controller, filed Dec. 7, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7694, *Mills Novelty Co.* v. *The Marquette Piano Corp.*

979,130, N. E. Clark, Expanded-metal manufacture; 1,052,888, 1,146,552, 1,146,553, 1,224,877, same, Metal working; 1,140,534; 1,224,523, same, Metal-working machine; 1,314,505, same, Expanded-metal machine; 1,104,476, 1,128,659, same, Metal fabric, filed Dec. 1, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7689, *R. S. Allyn* v. *Northwestern Expanded Metal Co.*

983,032, Elliott & Faber, Turbine; 983,034, 1,045,134, 1,060,068, W. S. Elliott, Motor; 1,019,771, Elliott & Holt, Rotary motor; 1,058,055, Mills & Conn, same; 1,147,238, E. E. Hauer, same, filed Oct. 11, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7529, *Elliott Co.* v. *Chicago Engineer Supply Co.* Same, filed Oct. 12, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7530, *Elliott Co.* v. *C. E. Krebs et al.*

983,034. (See 983,032.)

1,019,771. (See 983,032.)

1,027,570, J. R. Sheldon, Comforter-filling machine; 1,370,411, Contrado, Swanson & Schwartz, Mattress-filling machine, D. C. Mass., Doc. E 2707, *Triangle Kapok Machine Corp.* v. *West End Mattress Co.* Consent decree dismissing bill Dec. 10, 1926.

1,035,544, W. W. Dake, Elastic-fluid turbine engine; 1,134,317, same, unbalanced valve for turbine engine; 1,138,848, same, Bracket for locomotive headlight; 1,145,566, same, Balanced valve for turbine engine; 1,183,541, same, Valve; 1,109,825, same, Armature, filed Nov. 29, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7685, *The Pyle National Co.* v. *Electric Service Supplies Co.*

1,045,134. (See 983,032.)

1,052,888. (See 979,130.)

1,058,055. (See 983,032.)

1,060,068. (See 983,032.)

1,104,476. (See 979,130.)

1,109,825. (See 1,035,544.)

1,128,659. (See 979,130.)

1,134,317. (See 1,035,544.)

1,138,848. (See 1,035,544.)

1,145,566. (See 1,035,544.)

1,146,552. (See 979,130.)

1,146,553. (See 979,130.)

1,146,554. (See 979,130.)

1,147,238. (See 983,032.)

1,183,541. (See 1,035,544.)

1,187,926. (See 1,331,272.)

1,198,860. (See 852,848.)

1,198,861. (See 852,848.)

1,224,523. (See 979,130.)

1,224,877. (See 979,130.)

1,307,733, A. V. Guilborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Nov. 12, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7645, *The Bassick Mfg. Co.* v. *L. Feldman et al.*

1,307,734 (a), A. V. Guilborg, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, D. C. Colo. (Denver), Doc. 8497, *The Bassick Mfg. Co.* v. *Grease-Rite Pneumatic Gun Co.* Decree for plaintiff Jan. 6, 1928.

1,307,734 (b). (See 1,307,733.)

1,314,505. (See 979,130.)

1,323,869, 1,400,171, J. L. Kraft, Process for treating cheese; Re. 14,777, same, Process of sterilizing cheese and improved product produced by such process, filed Nov. 29, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7686, *Kraft Cheese Co.* v. *Anona Cheese Co.*

1,331,272, 1,433,901, S. Marcus, Artificial eyes for dolls, etc.; 1,187,926, D. Pudlin, Eye for dolls, D. C., S. D. N. Y., Doc. E 44/11, *Markon Mfg. Co., Inc.*, v. *Primrose Doll Co., Inc.* Patents sustained, injunction granted Jan. 16, 1928.

1,370,411. (See 1,027,570.)

1,383,552, 1,400,223, J. G. McDonough, Machine for trade-marking or branding lumber or timber, appeal filed Jan. 16, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 6076, *J. G. McDonough* v. *Johnson-Wentworth Co.*

1,389,095. (See Re. 15,648.)

1,389,577. (See Re. 15,648.)

1,400,171. (See 1,323,869.)

1,400,223. (See 1,383,552.)

1,433,901. (See 1,331,272.)

1,475,980. (See 1,307,734 (*a*).)

1,499,926, J. O. Hunt, Sheet of folded material; 1,501,662, P. H. Horwitt, same, filed Oct. 21, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7564, *Independent Paper Mills, Inc.*, v. *T. N. Deliflines et al.*

1,501,662. (See 1,499,926.)

Re. 14,777. (See 1,323,869.)

Re. 15,648, E. E. Eldredge, Process of sterilizing cheese; 1,389,577, Carpenter & Eldredge, Cheese and process for sterilizing same; 1,389,095, same, Swiss cheese and method for sterilizing same, filed Dec. 17, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7723, *Phenix Cheese Corp.* v. *Anona Cheese Co.*

Des. 71,983, Des. 72,320, C. W. Logan, Electric-light fixture; Des. 72,321, same, Wall plate for electric-light fixture; Des. 72,376, same, Arm for electric-light fixture, filed Jan. 11, 1928, D. C., S. D. Calif. (S. Div.), Doc. E N-27-M, *Markel Electric Products, Inc.*, v. *Allied Metal Industries, Inc., et al.*

Des. 72,320. (See Des. 71,983.)

Des. 72,321. (See Des. 71,983.)

Des. 72,376. (See Des. 71,983.)

T. M. 47,289, T. M. 229,065, The Preservaline Mfg. Co., Preservative and antiseptic for meat, etc., filed Nov. 18, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7653, *The Preservaline Mfg. Co.* v. *J. M. Frank et al.*

T. M. 74,530, Ford Motor Co., Motor vehicle and its parts; T. M. 74,765, same, Explosive engine and its parts, filed Oct. 26, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7596, *Ford Motor Co.* v. *G. Avenarius.*

T. M. 74,765. (See T. M. 74,530.)

T. M. 85,073, T. M. 115,160, Champion Ignition Co., Ignition cable, spark plug, etc., filed Apr. 22, 1926, D. C., N. D. Ill. (E. Div.), Doc. 5863, *A. C. Spark Plug Co.* v. *J. Jersky et al.* Doc. 5864, *A. C. Spark Plug Co.* v. *S. Breakstone.* Doc. 5865, *A. C. Spark Plug Co.* v. *L. Poncher et al.* Doc. 5866, *A. C. Spark Plug Co.* v. *J. Eller et al.* Doc. 5867, *A. C. Spark Plug Co.* v. *Douglas Auto Parts Co., Inc.* Doc. 5868, *A. C. Spark Plug Co.* v. *A. W. Bernstein et al.*

T. M. 92,336, Harvard Brewing Co., Beer, ale, etc.; T. M. 129,163, Harvard Co., Cereal, nonintoxicating malt beverage; T. M. 213,242, New England Brewing Co., Cereal beverage, filed Oct. 31, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7000, *New England Brewing Co.* v. *S. Warner & Co.*

T. M. 115,160. (See T. M. 85,073.)

T. M. 127,809, C. W. Beggs, Sons & Co., Cosmetics; T. M. 216,829, same, Shaving cream, brilliantine, etc., filed Oct. 27, 1927, D. C., N. D. Ill. (E. Div.), Doc. 7597, *C. W. Beggs, Sons & Co.* v. *G. J. Drab et al.*

T. M. 129,163. (See T. M. 92,336.)

T. M. 213,242. (See T. M. 92,336)

T. M. 216,829. (See T. M. 127,809.)

T. M. 229,065. (See T. M. 47,289.)

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,439,495, H. M. Williamson, Radio receiving apparatus, decided January 23, 1928, claims 6 and 10.

Pat. 1,477,957, C. L. Hinkle, Apparatus for the manufacture of vinegar, decided November 17, 1926, claims 1 and 2.

Pat. 1,515,430, C. E. Browne, Reamer, decided January 17, 1928, claims 1 and 3.

Pat. 1,573,528, M. M. Sorensen, Footwear, decided January 16, 1928, claim 4.

Pat. 1,585,204, W. D. Pack, decided October 27, 1927, claim 4.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 160,419, Candy, Collins-Hencke Candy Co., San Francisco, Calif. Registered October 24, 1922. Decided February 14, 1928.

T. M. 179,296, Ladies' hats, Pauline Miller, doing business as Pauline Miller Co., San Francisco, Calif. Registered February 5, 1924. Decided January 14, 1928.

T. M. 224,794, Asphalt in solid mastic or liquid form and asphalt felt, Roofings Incorporated, New York, N. Y. Registered March 8, 1927. Decided February 15, 1928.

Adjudicated Patents.

(C. C. A. N. Y.) The Adelmann patent, No. 1,272,883, for ham boiler, claim 1 *Held* not infringed. *Ham Boiler Corporation* v. *Hugo*, 23 F. (2d) 163.

(D. C. Ga.) The Finley patent, No. 1,341,458, for method of building or resurfacing highways, claims 1 to 4 *Held* valid and infringed. *Finley* v. *MacDougald Construction Co.*, 23 F. (2d) 204.

(D. C. Ga.) The Finley patent, No. 1,411,777, for method of treating roadways, claim 1 *Held* invalid. *Id.*

(C. C. A. Pa.) The Eschenbach patent, No. 1,468,289, for drier for printing presses, claims 1 and 2 *Held* invalid. *Eschenbach* v. *Miller Saw Trimmer Co.*, 23 F. (2d) 145.)

(C. C. A. N. Y.) The Adelmann patent, No. 1,497,885, for corn-beef cooker, claims 1 and 8 *Held* not infringed. *Ham Boiler Corporation* v. *Hugo*, 23 F. (2d) 163.

Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, Feb. 15, 1928.*

The Rotor Vacuum Cleaner Company, Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of The Rotor Vacuum Cleaner Company, Inc., of 308 West One hundred and thirty-third Street, New York, N. Y., No. 99,066, dated August 11, 1914, and the notice of such proceeding sent by registered mail to the said The Rotor Vacuum Cleaner Company, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Rotor Vacuum Cleaner Company, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Feb. 7, 1928.*

Klorx Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Clorox Chemical Corporation, of Oakland, Calif., to effect the cancellation of the trade-mark registration of Klorx Company, of 1512 Marion Street, Columbia, S. C., No. 227,417, dated May 3, 1927, and the notice of such proceeding sent by registered mail to the said Klorx Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Klorx Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Feb. 10, 1928.*

The Squirrel House, Inc., its assigns or legal representatives, take notice:

An application for cancellation has been filed in this Office by Planters Nut & Chocolate Co. to effect the cancellation of trade-mark registration No. 122,999, granted October 1, 1918, to The Squirrel House, Inc., of 911 Western Avenue, Seattle, Wash. The records of this Office show that Mason, Fenwick & Lawrence appear as attorneys for the applicant and the registrant. The Office letter notifying the registrant of this fact sent to the above address having been returned by the post office as undeliverable, notice is hereby given that unless said The Squirrel House, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. J. MOORE,
Acting Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 6, 1928.

[VOL. 368. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 254,501. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands. Filed Sept. 8, 1927.

DISCRELLA

Particular description of goods.—Raw Wool, Artificial Straw, Artificial Horsehair, Staple Fibres, and Mixed Fibres in the Raw State of Silk, Wool, Cotton, Mercerized Cotton, and Linen, and Staple Fibres and Mixed Fibres in the Raw State of Artificial Silk, Artificial Wool, Artificial Cotton, Artificial Mercerized Cotton, and Artificial Linen.

Claims use since July 22, 1927.

Ser. No. 254,505. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands. Filed Sept. 8, 1927.

MODERELLA

Particular description of goods.—Raw Wool, Artificial Straw, Artificial Horsehair, Staple Fibres, and Mixed Fibres in the Raw State of Silk, Wool, Cotton, Mercerized Cotton, and Linen, and Staple Fibres and Mixed Fibres in the Raw State of Artificial Silk, Artificial Wool, Artificial Cotton, Artificial Mercerized Cotton, and Artificial Linen.

Claims use since July 22, 1927.

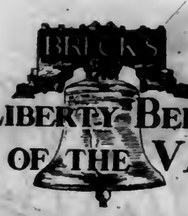
Ser. No. 254,508. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands. Filed Sept. 8, 1927.

SOBRETA

Particular description of goods.—Raw Wool, Artificial Straw, Artificial Horsehair, Staple Fibres, and Mixed Fibres in the Raw State of Silk, Wool, Cotton, Mercerized Cotton, and Linen, and Staple Fibres and Mixed Fibres in the Raw State of Artificial Silk, Artificial Wool, Artificial Cotton, Artificial Mercerized Cotton, and Artificial Linen.

Claims use since July 22, 1927.

Ser. No. 258,568. JOSEPH BRECK & SONS CORPORATION, Boston, Mass. Filed Dec. 7, 1927.



No claim is made to the "Lily of the Valley" apart from the mark as shown.

Particular description of goods.—Flower Bulbs.

Claims use since Nov. 15, 1927.

CLASS 2.

Receptacles.

Ser. No. 237,377. EARL C. MAXWELL COMPANY, INCORPORATED, Brooklyn, N. Y. Filed Sept. 17, 1926.

MAXWELD

Particular description of goods.—Welded Metal Tanks—Namely, Gasoline-Storage Tanks, Fuel-Oil-Storage Tanks, Paint and Chemical Storage Tanks, Compressed-Air-Storage Tanks, Cold-Water-Storage Tanks.

Claims use since Aug. 1, 1926.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 234,162. EMANUEL S. SILVERMAN, doing business as Insurance Men's Supply Co., Brooklyn, N. Y. Filed July 3, 1926.

IMSCO'S

Particular description of goods.—Portfolios.

Claims use since Jan. 1, 1921.

Ser. No. 260,248. U. S. HAME COMPANY, Buffalo, N. Y. Filed Jan. 17, 1928.

624

Particular description of goods.—Hames.
Claims use since Nov. 19, 1927.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 250,661. CLARENCE N. WILLIAMS, doing business as Trid Products Co., Fresno, Calif. Filed June 16, 1927.



Particular description of goods.—Cleaning and Washing Powder.
Claims use since Mar. 1, 1927.

Ser. No. 259,149. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Dec. 19, 1927.

SOAPERFECT

Particular description of goods.—Compound Adapted for Use in Cleaning and Polishing Enameled, Porcelain, Painted, and Similar Surfaces.
Claims use since Feb. 10, 1927.

Ser. No. 260,404. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Jan. 20, 1928.

PENIMAID

Particular description of goods.—Silver Polish.
Claims use since Aug. 3, 1927.

Ser. No. 260,413. SOLARINE COMPANY, Baltimore, Md. Filed Jan. 20, 1928.

NICOLIN

Particular description of goods.—Metal Polish.
Claims use since Apr. 1, 1926.

Ser. No. 260,478. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Jan. 21, 1928.

RONDO

Particular description of goods.—Soap.
Claims use since Dec. 30, 1927.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 240,684. GERHARD F. SCHMIDT, G. M. B. H., Munich, Germany. Filed Nov. 27, 1926.

SOLGEN

Particular description of goods.—Syrup Against Coughing, Preparations for Destroying Animals and Plants, Preparations for Preserving Victuals, and Fire-Extinguishing Preparations.
Claims use since Nov. 20, 1924.

Ser. No. 242,047. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Dec. 28, 1926.



All wording appearing in the drawing with the exception of the name "Ferd. Mülhens" is disclaimed apart from the mark shown in the drawing. The drawing is lined to indicate the colors blue and gold.
Particular description of goods.—Hygienic Hair Wash.
Claims use since March, 1926.

Ser. No. 243,623. RALPH B. RANDALL, Seattle, Wash. Filed Jan. 31, 1927.

MAGOTITE

Particular description of goods.—Insecticide.
Claims use since July 1, 1924.

Ser. No. 254,081. DAVID LAKEN, doing business as the 9 to 9 Pharmacal Co., Philadelphia, Pa. Filed Aug. 29, 1927.

LAXATIVE TRADE 9 P.M. TO A.M. 9 MARK HEALTH

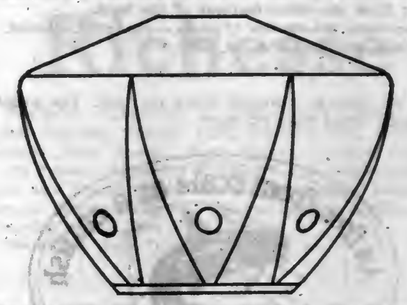
The words "Laxative" and "Health" as well as the words "Trade-Mark" are disclaimed apart from the mark shown.
Particular description of goods.—Laxative Medicine and Pharmaceutical Preparations.
Claims use since Dec. 24, 1925.

Ser. No. 254,341. F. R. ARNOLD & COMPANY, New York, N. Y. Filed Sept. 3, 1927.



Particular description of goods.—Perfume and Toilet Water.
Claims use since Apr. 29, 1926.

Ser. No. 254,342. F. R. ARNOLD & COMPANY, New York, N. Y. Filed Sept. 3, 1927.



Particular description of goods.—Perfume and Toilet Water.
Claims use since Nov. 25, 1925.

Ser. No. 255,377. M. HATAE, doing business as M. Hatae & Company, also doing business as Smoca Manufacturing Co., San Francisco, Calif. Filed Sept. 29, 1927.

SMOCA

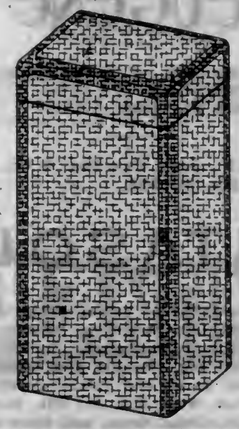
Particular description of goods.—Tooth Powder.
Claims use since Aug. 15, 1926.

Ser. No. 256,389. AMERICAN DRUG & CHEMICAL CO., Minneapolis, Minn. Filed Oct. 21, 1927.

CHLORO-ZOL

Particular description of goods.—Antiseptic, Germicidal, and Deodorant Preparations.
Claims use since on or about May 27, 1925.

Ser. No. 258,108. BISODOL CO. INC., New York, N. Y. Filed Nov. 28, 1927.



The trade-mark consists in coloring yellow each of five sides of the container and providing each such side

with a gold-colored border. The exclusive use of the representation of the carton or container is disclaimed apart from the other features of the mark.

Particular description of goods.—Antacid Digestant.

Claims use since Feb. 14, 1922.

Ser. No. 258,157. WILSON-SPEAR CO., INC., Los Angeles, Calif. Filed Nov. 28, 1927.



The words "Free from Scale" form a part of the registration sought only in association with the other features of the mark shown in the drawing.

Particular description of goods.—Boiler Composition to Prevent Deleterious Action of Waters When Used in Steam Boilers.

Claims use since Mar. 6, 1925.

Ser. No. 258,444. A/S VITANOVA LTD., Oslo, Norway. Filed Dec. 5, 1927.



Particular description of goods.—Emulsions of Cod-Liver Oil and Cod-Liver Oil.

Claims use since April, 1927.

Ser. No. 259,301. EUGENE LTD., New York, N. Y. Filed Dec. 23, 1927.

EUGÈNE

Particular description of goods.—Sachets and for Wave-Setting Preparations.

Claims use since May, 1922.

Ser. No. 259,409. JOHN CAMPBELL & CO., New York, N. Y. Filed Dec. 28, 1927.

VITASOL

Particular description of goods.—Compound for Wetting Out, Boiling Out, Bleaching, Scouring, Softening, Soaking, Throwing, Degumming, Dyeing, Finishing, Weighting, Lubricating, Cleaning, and Rendering Hygroscopic All Fibres, Yarns, and Fabrics Consisting of and Made from Cotton, Wool, Silk, Art Silk, Rayon, Tussah, Jute, Hemp, Sisal, China, Grass, and Other Fibres of an Animal, Vegetable, or Chemical Nature.

Claims use since May 5, 1927.

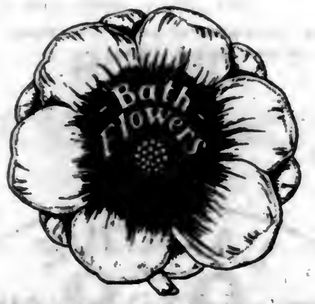
Ser. No. 259,545. ISAAC EUSTER, doing business as Euster Herb Co., Middlesboro, Ky. Filed Dec. 31, 1927.

RIFIA

Particular description of goods.—Medicinal Tonic for the Stomach, Kidneys, Bladder, High Blood Pressure, Pellagra, Rheumatism, and Nervous System.

Claims use since Sept. 1, 1927.

Ser. No. 259,623. DERMAY PERFUMERS INC., New York, N. Y. Filed Jan. 3, 1928.



Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Powders, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Dec. 24, 1927.

Ser. No. 259,673. H. E. BUCKLEN & COMPANY, New York, N. Y. Filed Jan. 4, 1928.



No claim is made to the words "Brand" or "Laxative" or to the representation of the bottle appearing in the drawing.

Particular description of goods.—Preparation for the Treatment of Constipation.

Claims use since Nov. 30, 1917.

Ser. No. 259,776. GEORGE P. MCSHERRY, doing business as McSherry Drug Co., Hillsdale, Mich. Filed Jan. 6, 1928.

ENDACOLD

Particular description of goods.—Preparation Used in the Treatment of Colds, LaGrippe, Neuralgia, and Headache.

Claims use since Aug. 24, 1927.

Ser. No. 259,862. GEORGE E. MAY, Amarillo, Tex. Filed Jan. 9, 1928.

EUCA-BALM

The word "Balm" is not claimed apart from the showing made in the drawing.

Particular description of goods.—Ointment for the Treatment of Neuralgia, Rheumatism, Sore Throat, Sprains, Soreness in Chest, Muscular Pains, Insect Bites, Stings, Coughs, Chest Colds, Croup, Asthma, and Hay Fever.

Claims use since September, 1925.

Ser. No. 259,878. THE SALOL CHEMICAL COMPANY, INC., Chicago, Ill. Filed Jan. 9, 1928.

Fenosol

Particular description of goods.—Antiseptic and Germicide.

Claims use since Nov. 15, 1927.

Ser. No. 259,925. WILLIAM FREDERICK RETT, doing business as Nu-Ka-Na Remedy Company, Jersey City, N. J. Filed Jan. 10, 1928.

REP

Particular description of goods.—Deodorant Insecticide.

Claims use since on or about Aug. 15, 1927.

Ser. No. 259,974. TEMMLER-WERKE VEREINIGTE CHEMISCHE FABRIKEN HERMANN TEMMLER, Berlin-Johannisthal, Germany. Filed Jan. 11, 1928.

Phenapyrin

Particular description of goods.—Medical Preparation for Headaches, Migraine, Neuralgia, Fever, Grippe, Infections, and Pain after Dental Operations.

Claims use since July, 1916.

Ser. No. 260,018. RICHARD HUDNUT, New York, N. Y. Filed Jan. 12, 1928.

Richesse

Particular description of goods.—Cold Cream, Bath Salts, Perfume, Almond Meal, Toilet Cerate, Headache Cologne, Face Powder, Bath Powder, Talcum Powder, Tooth Powder, Tooth Paste, Toilet Water, Smelling Salts, Skin and Tissue Cream, Lip Rouge, Sachet, Vanishing Cream, Compact Powder, Compact Rouge, Brilliantine, Cleansing Cream, and Bath Crystals.

Claims use since Dec. 24, 1927.

Ser. No. 260,020. NATHAN KAPLAN, Allentown, Pa. Filed Jan. 12, 1928.



Particular description of goods.—Anæsthetic Used in the Painless Extraction of Teeth.

Claim use since Jan. 15, 1922.

Ser. No. 260,188. THE MUTUAL DRUG COMPANY, Cleveland, Ohio. Filed Jan. 16, 1928.



The drawing is lined to indicate the color red.

Particular description of goods.—Epsom Salt.

Claims use since Jan. 13, 1928.

Ser. No. 260,189. ED. J. NEWMAN, Grand Island, Nebr. Filed Jan. 16, 1928.

PLANTINE

Particular description of goods.—Cut-Worm and Gopher Repellent.

Claims use since Dec. 20, 1927.

Ser. No. 260,197. FREDERICK STEARNS & Co., Detroit, Mich. Filed Jan. 16, 1928.

SYMPATOL

Particular description of goods.—Preparation Useful in the Treatment of Asthmatic and Such Other Conditions as are Benefited by the Use of the Pressure-Raising Principle of the Suprarenal Gland.
Claims use since about Jan. 9, 1928.

Ser. No. 260,200. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Jan. 16, 1928.

Effora

Particular description of goods.—Pharmaceutical Preparation to be Used as a Mouth Wash.
Claims use since Dec. 21, 1927.

Ser. No. 260,251. ABBOTT LABORATORIES, North Chicago, Ill. Filed Jan. 18, 1928.

CINCHOPYRINE

Particular description of goods.—Antirheumatic, Antiacid, and Analgesic.
Claims use since Nov. 1, 1927.

Ser. No. 260,267. GLAZIER LABORATORIES INC., Hollywood, Calif. Filed Jan. 18, 1928.

ZINTANAL

Particular description of goods.—Antiseptic Powder for the Douche.
Claims use since Apr. 1, 1921.

Ser. No. 260,271. IRWIN, NEISLER & Co., Decatur, Ill. Filed Jan. 18, 1928.

SODINCO

Particular description of goods.—Effervescing Salts with Fruit Acids for Treating Acidosis.
Claims use since Jan. 5, 1927.

Ser. No. 260,392. KONS LABORATORIES, Omaha, Nebr. Filed Jan. 20, 1928.

STOMA-KONS

Particular description of goods.—Capsulated Stomachic Gas Eliminant.
Claims use since October, 1926.

Ser. No. 260,588. LOUIS PHILIPPE, INC., New York, N. Y. Filed Jan. 24, 1928.

SUNRISE

Particular description of goods.—Face Creams, Face Powders, Rouge, and Lip Sticks.
Claims use since Nov. 15, 1927.

Ser. No. 260,589. LOUIS PHILIPPE, INC., New York, N. Y. Filed Jan. 24, 1928.

SUNDOWN

Particular description of goods.—Face Creams, Face Powders, Rouge, and Lip Sticks.
Claims use since Nov. 15, 1927.

Ser. No. 260,590. LOUIS PHILIPPE, INC., New York, N. Y. Filed Jan. 24, 1928.

SUNBIRD

Particular description of goods.—Face Creams, Face Powders, Rouge, and Lip Sticks.
Claims use since Nov. 15, 1927.

Ser. No. 260,591. LOUIS PHILIPPE, INC., New York, N. Y. Filed Jan. 24, 1928.

SUNFLAME

Particular description of goods.—Face Creams, Face Powders, Rouge, and Lip Sticks.
Claims use since Nov. 15, 1927.

CLASS 7.

Cordage.

Ser. No. 259,774. ABE MASKOW, doing business as Maskow Cord and Trimming Co., New York, N. Y. Filed Jan. 6, 1928.

MASKORD

Particular description of goods.—Picture Cords.
Claims use since Dec. 30, 1927.

Ser. No. 260,599. TUBBS CORDAGE CO., San Francisco, Calif. Filed Jan. 24, 1928.

SUPERCORE

Particular description of goods.—Manila Rope.
Claims use since Jan. 5, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 259,749. SAFETY MINING COMPANY, Chicago, Ill. Filed Jan. 5, 1928.

CARDOX

Particular description of goods.—Explosives.
Claims use since Nov. 19, 1927.

Ser. No. 260,854. H. SILANDER & Co., LIMITED, London, England. Filed Jan. 28, 1928.

WHIRLIGIG

Particular description of goods.—Matches.
Claims use since December, 1920.

CLASS 10.

Fertilizers.

Ser. No. 260,538. VIRGINIA-CAROLINA CHEMICAL CORPORATION, Richmond, Va. Filed Jan. 23, 1928.

BLOOMAID

Particular description of goods.—Fertilizers.
Claims use since Dec. 19, 1927.

CLASS 11.

Inks and Inking Materials.

Ser. No. 258,978. SCRIPTEX INK AND PASTE CO., Philadelphia, Pa. Filed Dec. 15, 1927.

Scriptex

Particular description of goods.—Writing Inks.
Claims use since 1919.

CLASS 12.

Construction Materials.

Ser. No. 257,229. FIREPROOFING CHEMICAL COMPANY, Los Angeles, Calif. Filed Nov. 8, 1927.

NORON

Particular description of goods.—Wood Which has Been Treated with a Certain Chemical Process by Which It is Rendered Fireproof.
Claims use since June 1, 1927.

Ser. No. 259,289. THE SPARTA CERAMIC COMPANY, East Sparta, Ohio. Filed Dec. 23, 1927.

GOLDEN PHEASANT

Particular description of goods.—Decorative Floor and Wall Tiles.
Claims use since June 28, 1926.

Ser. No. 259,755. THE BARRETT COMPANY, New York, N. Y. Filed Jan. 6, 1928.

TAR-ROK

Particular description of goods.—Liquid or Liquefiable Bituminous Construction Material.
Claims use since on or about Feb. 4, 1910.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 241,798. U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Dec. 21, 1926.

Pop-Frier

The word "Frier" is disclaimed apart from the mark as shown.
Particular description of goods.—Corn Poppers and Frying Utensils for Household Use.
Claims use since May 10, 1926.

Ser. No. 251,496. GAT GUN LUBRICATING CORPORATION, Oakland, Calif. Filed July 5, 1927.

Get a Gat-Gun

Particular description of goods.—Flexible Metal Conduits for Grease Guns.
Claims use since Feb. 15, 1926.

Ser. No. 254,170. ROMEO A. CASAROTTI, Oakland, Calif. Filed Aug. 31, 1927.

CASA

Particular description of goods.—Toilet Tank Ball Cocks and Trough Ball Cocks.
Claims use since Feb. 15, 1926.

Ser. No. 256,851. WOLVERINE TUBE COMPANY, Detroit, Mich. Filed Oct. 31, 1927.



Particular description of goods.—Copper, Brass, and Aluminum Tubing, Plain and Formed.
Claims use since about July 1, 1927.

Ser. No. 259,258. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill. Filed Dec. 22, 1927.

Stewart-Warner

The trade-mark includes the word "Stewart" in the form of a facsimile of the signature of John K. Stewart, founder and first president of this corporation, and the name "Warner" is displayed in a style consistent with said facsimile signature.
Particular description of goods.—Tire Chains.
Claims use since Dec. 5, 1927.

Ser. No. 259,440. COLUMBIA SANITARY MANUFACTURING COMPANY, Louisville, Ky. Filed Dec. 29, 1927.



The drawing is lined to represent the color yellow for the lettering, the background green, and the border purple.
Particular description of goods.—Bathtubs, Washstands, Toilet Bowls, Flush Tanks, and Kitchen Sinks.
Claims use since Oct. 11, 1927.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 246,922. MUELLER BRASS CO., Port Huron, Mich. Filed Apr. 4, 1927.

"MUELLERIZED"

Particular description of goods.—Ingots, Pigs, Rods, Forgings, and Castings of Nonferrous Metal.
Claims use since on or about Feb. 28, 1927.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 255,479. BEAUTEXT COMPANY, San Francisco, Calif. Filed Oct. 1, 1927.

BEAUTEXT

Particular description of goods.—Painters' Decorating Materials—Namely, Metallic Powder and Colors in the Nature of Paint Pigments for Finishing Art Relief Decoration, Preparation in the Nature of Plastic Paint for Producing Relief Effect in Decoration; Bronzing Powder, Paint Solvent and Thinner, and Dry and Ready-Mixed Paints.
Claims use since Mar. 1, 1927.

Ser. No. 257,990. NATIONAL VARNISH COMPANY'S CHEMICAL DIVISION, INC., Long Island City, N. Y. Filed Nov. 23, 1927.



Particular description of goods.—Concrete-Floor Paint and Liquid Masonry-Coating Paint.
Claims use since July 19, 1927.

Ser. No. 257,992. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa. Filed Nov. 23, 1927.



The drawing is lined for the color red.
Particular description of goods.—Carbon Black for Paints, Lacquers, Enamels, and for Use in Ebonizing Wood.
Claims use since about Feb. 15, 1926.

Ser. No. 258,563. ANTI RUST PAINT MANUFACTURING CO., New Brunswick, N. J. Filed Dec. 7, 1927.

ANRUSCO

Particular description of goods.—Canned Paint in Solution.
Claims use since Mar. 6, 1924.

Ser. No. 258,828. PEPER BROTHERS, INC., doing business as Mammoth Paints & Color Works, New York, N. Y. Filed Dec. 12, 1927.

SOLARAY

Particular description of goods.—Ready-Mixed Flat Paint Having a Linseed-Oil Base, Which is Made in Various Colors.
Claims use since Mar. 1, 1927.

Ser. No. 258,829. PEPER BROTHERS, INC., doing business as Mammoth Paint & Color Works, New York, N. Y. Filed Dec. 12, 1927.

ARTSEAL

Particular description of goods.—Ready-Mixed Paint Having Linseed-Oil Base, Which is Made in Various Colors.
Claims use since Mar. 1, 1927.

Ser. No. 258,830. PEPER BROTHERS, INC., doing business as Mammoth Paint & Color Works, New York, N. Y. Filed Dec. 12, 1927.

UNION COAT

Applicant makes no claim for the word "Coat" apart from the mark shown in the drawing.
Particular description of goods.—Ready-Mixed Paint Having Linseed-Oil Base, Which is Made in Various Colors.
Claims use since Mar. 1, 1927.

Ser. No. 258,872. JOHN C. P. HELM, doing business as Helm Laboratories, New Orleans, La. Filed Dec. 13, 1927.



Particular description of goods.—Waxes—Namely, Floor Waxes, Both Liquid and Paste; Floor Oils; Floor, Furniture, and Automobile Polishes; Linoleum Polishes; and Preservatives.
Claims use since Nov. 5, 1923.

Ser. No. 259,218. ROBERT DOKE ROBINSON, doing business as Hy-Tone Products, Kansas City, Mo. Filed Dec. 21, 1927.

HY-TONE

Particular description of goods.—Automobile Cleaner Polish and Restorative for Duco-Lacquer and Pyroxolyn-Enamel Surfaces, in Powdered and Liquid Form.
Claims use since June, 1927.

Ser. No. 260,578. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Jan. 24, 1928.

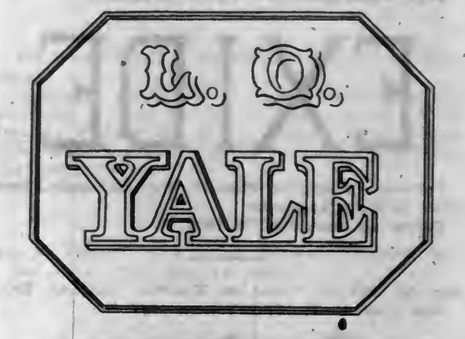
AUTOTONE

Particular description of goods.—Automobile Polish.
Claims use since Jan. 21, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 257,434. ROSE OSTERWEIS, doing business as Lewis Osterweis & Sons, New Haven, Conn. Filed Nov. 11, 1927.



No claim is made to the exclusive use of the word "Yale" apart from the mark as shown in the drawing.
Particular description of goods.—Cigars.
Claims use since Mar. 18, 1873.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 259,249. MOTOR VEST INC., Newark, N. J. Filed Dec. 22, 1927.

MOTOR-VEST

Particular description of goods.—Vehicle Radiator Protectors Made of Combinations of Fabric and Metallic Structures.
The descriptive word "Motor" is disclaimed apart from the mark as shown.
Claims use since Oct. 15, 1927.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 235,171. SAFETY ELECTRIC PRODUCTS CO., Los Angeles, Calif. Filed July 26, 1926.

Diamond-S

Particular description of goods.—Externally-Operated Switches, Switchboards, Panel Boards, Box Hangers, Copper Ground Strip, Cut-Out Cabinets, Pumping-Plant Panels, Exit Boxes, Sectional Wiring Trough, Motor Lead Boxes, Ground Clamps, Porch Collar Straps.
Claims use since Feb. 1, 1926.

Ser. No. 245,032. SERVWELL SALES CORPORATION, Chicago, Ill. Filed Feb. 28, 1927.

SERVWELL

Particular description of goods.—Electrical Apparatus—Namely, Battery Chargers, Growlers, Single Magnet Chargers, Drills, Portable Grinders, and Bench Grinders.
Claims use since fall of 1924.

Ser. No. 251,725. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa. Filed July 9, 1927.

EXIDE

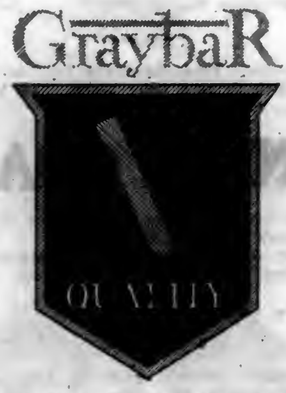
Particular description of goods.—Current-Supply Power Units for Radio Apparatus.
Claims use since Sept. 4, 1925.

Ser. No. 251,734. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y. Filed July 9, 1927.



No claim is made to the exclusive use of the word "Quality" apart from the mark as shown in the drawing. The lines in drawing are for shading only.
Particular description of goods.—Telephone Annunciators, Residence Annunciators, Burglar-Alarm Annunciators, Hotel Annunciators, Hospital Annunciators, and Annunciators Used in Connection with Interphones, Autotransformers, Electric Batteries and Electric-Battery Holders, Battery Lamps and Lanterns, Electric Bells, Bell-Ringing Transformers, Buzzers, Circuit Breakers, Electric Conduits, Duct Logs for Electrical Conductors, Conduits and Fittings, Electric Dishwashers, Electric Fans, Electric-Lighting Fixtures, Electric Floor Polishers, Electric Hammers; Reflector Heaters, Air Heaters, and Water Heaters; Electric Incandescent Lamps, Insulating Compound, Electric Insulators and Supports, Interphones, Electric-Arc Lamps, Line Poles, Loud-Speaking Telephone Systems and Apparatus, Power Boards, Electric Power and Light Outfits, Electric Power Switches, Electric Pumps, Electric Ranges, Battery-Charging Rectifiers, Electric Sewing Machines, Code-Calling Systems for Industrial Plants and the Like, Sockets, Electric-Lamp Sockets, Electric Stoves, Electric Tape, Telephone Transmitter Arms and Brackets, Toasters, Electric Transformers, Electric Utility Motors, Wall Plates for Switches and Electrical Appliances, Electric Warming Pads, Electrical Water-Pumping Systems, and Water Heaters.
Claims use since January, 1926.

Ser. No. 251,735. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y. Filed July 9, 1927.



No claim is made to the exclusive use of the word "Quality" apart from the mark as shown in the drawing. The lines on the drawing are for shading only.
Particular description of goods.—Telephone Annunciators, Residence Annunciators, Burglar-Alarm Annunciators, Hotel Annunciators, Hospital Annunciators, and Annunciators Used in Connection with Interphones, Autotransformers, Electric Batteries and Electric-Battery Holders, Battery Lamps and Lanterns, Electric Bells, Bell-Ringing Transformers, Buzzers, Circuit Breakers, Electric Conduits, Duct Logs for Electrical Conductors, Conduits and Fittings, Electric Dishwashers, Electric Fans, Electric-Lighting Fixtures, Electric Floor Polishers, Electric Hammers; Reflector Heaters, Air Heaters, and Water Heaters; Electric Incandescent Lamps, Insulating Compound, Electric Insulators and Supports, Interphones, Electric-Arc Lamps, Line Poles, Loud-Speaking Telephone Systems and Apparatus, Power Boards, Electric Power and Light Outfits, Electric Power Switches, Electric Pumps, Electric Ranges, Battery-Charging Rectifiers, Electric Sewing Machines, Code-Calling Systems for Industrial Plants and the Like, Sockets, Electric-Lamp Sockets, Electric Stoves, Electric Tape, Telephone Transmitter Arms and Brackets, Toasters, Electric Transformers, Electric Utility Motors, Wall Plates for Switches and Electrical Appliances, Electric Warming Pads, Electrical Water-Pumping Systems, and Water Heaters.
Claims use since January, 1926.

Ser. No. 251,737. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y. Filed July 9, 1927.

GraybaR

Particular description of goods.—Telephone Annunciators, Residence Annunciators, Burglar-Alarm Annunciators, Hotel Annunciators, Hospital Annunciators, and Annunciators Used in Connection with Interphones, Autotransformers, Electric Batteries and Electric-Battery Holders, Battery Lamps and Lanterns, Electric Bells, Bell-Ringing Transformers, Buzzers, Circuit Breakers, Electric Conduits, Duct Logs for Electrical Conductors, Conduits and Fittings, Electric Dishwashers, Electric Fans, Electric-Lighting Fixtures, Electric Floor Polishers, Electric Hammers; Reflector Heaters, Air Heaters, and Water Heaters; Electric Incandescent Lamps, Insulating Compound, Electric Insulators and Supports, Interphones, Electric-Arc Lamps, Line Poles, Loud-Speaking Telephone Systems and Apparatus, Power Boards, Electric Power and Light Outfits, Electric Power Switches, Electric Pumps, Electric Ranges, Battery-Charging Rectifiers, Electric Sewing Machines, Code-Calling Systems for Industrial Plants and the Like, Sockets, Electric-Lamp Sockets, Electric Stoves, Electric Tape, Telephone Transmitter Arms and Brackets, Toasters, Electric Transformers, Electric Utility Motors, Wall Plates for Switches and Electrical Appliances, Electric Warming Pads, Electrical Water-Pumping Systems, and Water Heaters.
Claims use since January, 1926.

Ser. No. 255,424. ADOLPH G. WUEST, doing business as Active Elevator Company, Philadelphia, Pa. Filed Sept. 30, 1927.



Particular description of goods.—Electric Dumb-Waiters and Electric Elevators.
Claims use since January, 1926.

Ser. No. 256,097. BROOKLYN METAL STAMPING CORP., Brooklyn, N. Y. Filed Oct. 15, 1927.

Via-Rad

Particular description of goods.—Phonograph Reproducers Utilizing Electrical Means for Reproduction.
Claims use since Dec. 15, 1926.

Ser. No. 257,455. THERMA FABRIK FÜR ELEKTRISCHE HEIZUNG A.-G. VORMALS S. BLUMER, Schwanden, Switzerland. Filed Nov. 11, 1927.

Eutherme

Particular description of goods.—Electrical Heating and Cooking Apparatus Consisting of Flatirons, Hot Plates, Family and Hotel Ranges, Family and Hotel Baking Ovens, Boiling Vessels, Egg Boilers, Coffee Percolators, Tea and Hot-Water Kettles, Tipping Boilers, Hot Cupboards, Warming Plates, Curling-Tongs Heaters, Toasters, Foot Warmers, Stoves and Radiators for Every Use, Water Heaters, Boilers, Bathroom Boilers, Heating Elements Therefor, and Electrical Switches.
Claims use since Apr. 6, 1921.

Ser. No. 259,935. THE UNION METAL MANUFACTURING COMPANY, Canton, Ohio. Filed Jan. 10, 1928.



The word "Metal" is disclaimed apart from the mark shown.
Particular description of goods.—Metal Lighting Standards or Bases for Electric Lights, Exterior Metal Lighting Fixtures for Electric Lights, Metal Trolley Poles, Metal Transmission Poles, Metal Telephone Poles, and Metal Telegraph Poles.
Claims use since Nov. 25, 1927.

Ser. No. 260,077. THE UNITED ELECTRIC COMPANY, Canton, Ohio. Filed Jan. 13, 1928.

The Ambassador

Particular description of goods.—Electrically-Operated Vacuum Cleaners.
Claims use since Dec. 29, 1927.

Ser. No. 260,496. ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio. Filed Jan. 23, 1928.

Premier Junior

Particular description of goods.—Electric Vacuum Cleaners and Parts Thereof.
Claims use since Sept. 7, 1927.

Ser. No. 260,725. FREED-EISEMANN RADIO CORPORATION, Brooklyn, N. Y. Filed Jan. 27, 1928.

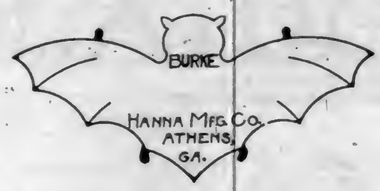
Radiette

Particular description of goods.—Radio Receiving Sets.
Claims use since Jan. 18, 1928.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 256,405. THE HANNA MANUFACTURING COMPANY, Athens, Ga. Filed Oct. 21, 1927.



The geographical term "Athens, Ga." is hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Baseball Bats.
Claims use since Aug. 15, 1927.

Ser. No. 257,726. CHILDREN'S VEHICLE CORPORATION, East Templeton, Mass. Filed Nov. 18, 1927.

SPEEDMOBILE

Particular description of goods.—Toy Automobiles, Children's Automobiles, and Wheel-Goods Toys of All Descriptions—Namely, Airplanes, Scooters, Jingle Cars, Children's Bicycles, Coaster Wagons, and Velocipedes.
Claims use since May 28, 1927.

Ser. No. 259,895. THE CREEK CHUB BAIT CO., Garrett, Ind. Filed Jan. 10, 1928.

PIKIE MINNOW

The word "Minnow" is disclaimed apart from the mark as shown.
Particular description of goods.—Artificial Baits.
Claims use since April, 1920.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 243,835. GUSTAV WIEDEKE COMPANY, Dayton, Ohio. Filed Feb. 4, 1927.

ROYAL

Particular description of goods.—Tube and Flue Expanders, Tube and Flue Cutters, Tube and Flue Beading Tools.
Claims use since Jan. 5, 1927.

Ser. No. 250,929. W. N. MATTHEWS CORPORATION, St Louis, Mo. Filed June 22, 1927.

HINGLOX

Particular description of goods.—Earth Augers.
Claims use since Dec. 1, 1926.

Ser. No. 252,273. PARROTT DRY PROCESS STREET CLEANER COMPANY, New York, N. Y. Filed July 19, 1927.

Polly

Particular description of goods.—Street-Cleaning Machines.
Claims use since July 8, 1927.

Ser. No. 257,353. FIREKING FIRE EXTINGUISHER COMPANY INC., Seattle, Wash. Filed Nov. 10, 1927.

Fireking

Particular description of goods.—Portable Hand Type of Apparatus for Quenching Fires.
Claims use since Apr. 15, 1926.

Ser. No. 258,667. BAKERS' EQUIPMENT CO., St. Louis, Mo. Filed Dec. 9, 1927.

TROHOIST

No exclusive claim is made to the representation of a hoist machine apart from the mark shown.
Particular description of goods.—Bakers' Hoisting Machinery.
Claims use since July, 1926.

Ser. No. 259,973. THE SUPERKEEN COMPANY, INC., Salisbury, N. C. Filed Jan. 11, 1928.

SUPERKEEN

Particular description of goods.—Razor Sharpeners.
Claims use since Oct. 20, 1927.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 259,703. UNITED STATES HOFFMAN MACHINERY CORPORATION, New York, N. Y. Filed Jan. 4, 1928.

VALETOR

Particular description of goods.—Garment Presses.
Claims use since Nov. 14, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 242,980. JEAN BERGMANN, doing business as Continentale Buro-Reform, Berlin, Germany. Filed Jan. 18, 1927.

CORRENTATOR

Particular description of goods.—Circulating Machines.
Claims use since Jan. 2, 1923.

Ser. No. 259,390. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co., (Not Inc.), Chicago, Ill. Filed Dec. 28, 1927.

MYOCULATOR

Particular description of goods.—Instrument for Examining, Testing, Measuring, and Exercising the Eyes.
Claims use since Feb. 1, 1927.

Ser. No. 259,683. INTERNATIONAL NEWSREEL CORPORATION, New York, N. Y. Filed Jan. 4, 1928.

INTERNATIONAL NEWSREEL

No claim is made to the word "Newsreel" apart from the mark shown.
Particular description of goods.—Motion-Picture Films.
Claims use since Dec. 1, 1925.

CLASS 27.

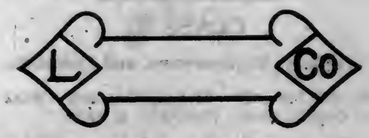
Horological Instruments.

Ser. No. 259,794. A. COHEN & SONS CORP., New York, N. Y. Filed Jan. 7, 1928.

ADMIRATION

Particular description of goods.—Clocks, Watches, Watchcases, Watch Movements, and Parts Thereof.
Claims use since January, 1927.

Ser. No. 259,918. L. LEWITT & CO., INC., New York, N. Y. Filed Jan. 10, 1928.



Particular description of goods.—Watchcases.
Claims use since January, 1922.

Ser. No. 260,100. A. COHEN & SONS CORP., New York, N. Y. Filed Jan. 14, 1928.

OWL

Particular description of goods.—Clocks, Watches, Watchcases, Watch Movements, and Parts Thereof.
Claims use since January, 1927.

Ser. No. 260,140. PHINNEY-WALKER COMPANY, New York, N. Y. Filed Jan. 14, 1928.

CONSUL

Particular description of goods.—Clocks and Watches.
Claims use since Jan. 1, 1928.

Ser. No. 260,141. PHINNEY-WALKER COMPANY, New York, N. Y. Filed Jan. 14, 1928.

TOURIST

Particular description of goods.—Clocks and Watches.
Claims use since Jan. 1, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 259,266. THE WEIDLICH BROS. M'F'G. CO., Bridgeport, Conn. Filed Dec. 22, 1927.

Vintage

Particular description of goods.—Silverware—Namely, Flatware, Hollow Ware, Tableware, and Toilet Ware.
Claims use since Dec. 2, 1927.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 260,064. R. H. MACY & CO., INC., New York, N. Y. Filed Jan. 13, 1928.

SUPRE-MACY

Particular description of goods.—Toothbrushes.
Claims use since Aug. 3, 1926.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 259,780. THE MORGAN BELLEEK CHINA COMPANY, Canton, Ohio. Filed Jan. 6, 1928.

VICTORIA

Particular description of goods.—Chinaware, Pottery, Semivitrous Porcelain.
Claims use since Dec. 19, 1927.

CLASS 31.

Filters and Refrigerators.

Ser. No. 234,757. UNIVERSAL COOLER CORPORATION, Detroit, Mich. Filed July 19, 1926.

UNIVERSAL COOLER

No claim is made to the use of the word "Cooler" apart from the mark as shown.
Particular description of goods.—Mechanical Refrigerating Units.
Claims use since July, 1926.

Ser. No. 254,632. HENRY P. GOTT, doing business as H. P. Gott Mfg. Co., Winfield, Kans. Filed Sept. 12, 1927.

GOTKOOL

Particular description of goods.—Water Coolers with or without Faucets.
Claims use since Apr. 20, 1927.

Ser. No. 258,539. THE PERMUTIT COMPANY, New York, N. Y. Filed Dec. 6, 1927.

"PERMUTIT"

Particular description of goods.—Apparatus for Purifying, Filtering, and Softening Water—Namely, Water Filters, Clarifying Filters, Zeolite Softeners, and Lime-Soda Softeners.
Claims use since about June, 1915.

Ser. No. 259,827. ELECTRIC REFRIGERATION CORPORATION, Detroit, Mich. Filed Dec. 24, 1927. Under 10-year proviso.

Leonard
Cleanable

Particular description of goods.—Refrigerators and Refrigerator Parts.
Claims use since September, 1882.

Ser. No. 259,328. ELECTRIC REFRIGERATION CORPORATION, Detroit, Mich. Filed Dec. 24, 1927. Under 10-year proviso.

LEONARD

Particular description of goods.—Refrigerators and Refrigerator Parts.
Claims use since September, 1882.

CLASS 32.

Furniture and Upholstery.

Ser. No. 255,026. PIKES HIKES, INC., Chicago, Ill. Filed Sept. 21, 1927.



Particular description of goods.—Glass Show Cases.
Claims use since June 1, 1927.

Ser. No. 256,441. O. D. BAKER COMPANY, Boston, Mass., and New York, N. Y. Filed Oct. 22, 1927.

INASPRING

Particular description of goods.—Mattresses.
Claims use since Oct. 1, 1927.

Ser. No. 259,104. CONTINENTAL BRONZE COMPANY, Pawtucket, R. I. Filed Dec. 19, 1927.

CATHEDRAL SHRINE

Particular description of goods.—Votive Stands.
Claims use since Sept. 28, 1927.

Ser. No. 259,262. A. G. TOMPKINS, Newark, N. J. Filed Dec. 22, 1927.

CHARM

Particular description of goods.—Radiator Covers.
Claims use since Oct. 1, 1927.

CLASS 34.

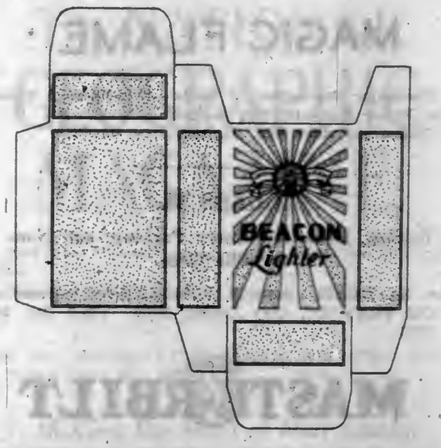
Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 256,890. A. BECK & CO. INC., New York, N. Y. Filed Nov. 2, 1927.



No claim is made to the word "Creations" and the representation of the goods apart from the mark as shown.
Particular description of goods.—Lamp Shades Other Than Glass and Porcelain.
Claims use since 1920.

Ser. No. 259,715. ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Jan. 5, 1928.



No claim is made to the words "Lighter Lights in a Flash" apart from the mark shown in the drawing nor to the outline of a carton per se.
Particular description of goods.—Portable and Pocket Cigar and Cigarette Lighters Utilizing Liquid Fuel and Pyrophoric Ignition Means.
Claims use since Aug. 17, 1927.

Ser. No. 259,716. ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Jan. 5, 1928.



No claim is made to the words "Lighter Lights in a Flash" apart from the mark shown in the drawing nor to the outline of a lighter per se.
Particular description of goods.—Portable and Pocket Cigar and Cigarette Lighters Utilizing Liquid Fuel and Pyrophoric Ignition Means.
Claims use since Aug. 17, 1927.

Ser. No. 260,224. GRINNELL COMPANY, INC., Providence, R. I. Filed Jan. 17, 1928.

THERMOLIER

Particular description of goods.—Radiators for Use in Steam or Hot-Water Heating Systems.
Claims use since Nov. 4, 1927.

Ser. No. 260,468. RICHMOND RADIATOR COMPANY, New York, N. Y. Filed Jan. 21, 1928.

MAGIC FLAME

Particular description of goods.—Coal-Burning Steam and Water House-Heating Boilers.
Claims use since Dec. 31, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 256,622. JOHN E. FORSELL, doing business as Old Trusty Co., Clay Center, Nebr. Filed Oct. 26, 1927.

MASTERBILT

No registration rights are claimed for the word "Masterbilt" apart from the mark shown in the drawing.
Particular description of goods.—Pneumatic Automobile Tires Composed of Rubber and Fabric and Inner Tubes Therefor.
Claims use since Oct. 1, 1927.

Ser. No. 258,176. PIERRE LEONCE GARDÈRE, Bordeaux, France. Filed Nov. 29, 1927.

SANGSUE

Particular description of goods.—Power-Transmitting Belts.
Claims use since Aug. 1, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 243,079. AUTOPOINT COMPANY, Chicago, Ill. Filed Jan. 20, 1927.

Autopoint
The Better Pencil

The words "The Better Pencil" are disclaimed except in association with the mark as shown.
Particular description of goods.—Mechanical Pencils.
Claims use since Nov. 1, 1926.

Ser. No. 259,787. THE ALBEMARLE PAPER MANUFACTURING COMPANY, Richmond, Va. Filed Jan. 7, 1928.

FAIRCOTE

Particular description of goods.—Blotting Paper.
Claims use since Nov. 14, 1927.

Ser. No. 260,256. BROOKS & PORTER, New York, N. Y. Filed Jan. 18, 1928.

PORTO

Particular description of goods.—Writing Pads, Calendar Pads, and Holders for Same.
Claims use since Jan. 8, 1928.

Ser. No. 260,403. THE OHIO WAX PAPER COMPANY, Columbus, Ohio. Filed Jan. 20, 1928.

OWP

Particular description of goods.—Wrapping Paper.
Claims use since about Dec. 20, 1927.

Ser. No. 260,624. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass. Filed Jan. 25, 1928.

KENMORE

Particular description of goods.—Cover Paper.
Claims use since Mar. 3, 1903.

Ser. No. 260,633. THE HAMERSLEY MANUFACTURING COMPANY, Garfield, N. J. Filed Jan. 25, 1928.

HAMMERSINE

Particular description of goods.—Transparent Paper Such as Used as a Base for Waxed Paper.
Claims use since Dec. 1, 1927.

CLASS 38.

Prints and Publications.

Ser. No. 243,616. THE PLYMOUTH PRESS, Chicago, Ill. Filed Jan. 31, 1927.

MASTERY UNIT

Particular description of goods.—Printed Material Useful in Educational Work—Namely, Printed Test Folders and Cards, Printed Memorization Folders and Cards, Printed Charts Containing Problems for Practice Purposes, Printed Drill Charts, Printed Graph Charts, Desk and Wall Charts for Holding or Receiving Cards Bearing Printed Educational Matter and Illustrations, and Printed Story-Illustrating Material and Forms or Objects Used in Connection Therewith.
Claims use since on or about Jan. 20, 1927.

Ser. No. 254,230. THE COSMOS PRESS, INC., Cambridge, Mass. Filed Sept. 1, 1927.

CAMPING

Particular description of goods.—News Magazine Published Every Month.
Claims use since May, 1926.

Ser. No. 256,118. WILL T. GENTZ, Hollywood, Calif. Filed Oct. 15, 1927.

FATHER GOOSE

Particular description of goods.—Series of Humorous Newspaper Pen-and-Ink Sketches, Commonly Referred to as Comic Strips.
Claims use since about Jan. 1, 1914.

Ser. No. 258,071. CURTIS-MARTIN NEWSPAPERS, INC., Philadelphia, Pa. Filed Nov. 26, 1927.

Vivian Shirley

The name "Vivian Shirley" is in the handwriting of Elizabeth Durham.
Particular description of goods.—Newspaper Articles.
Claims use since June 29, 1927.

Ser. No. 258,835. MARIE SCHALDACH, Seattle, Wash. Filed Dec. 12, 1927.





Particular description of goods.—Newspaper Section.
Claims use since July 1, 1922.

Ser. No. 259,014. NATIONAL GEOGRAPHIC SOCIETY, Washington, D. C. Filed Dec. 16, 1927.

THE NATIONAL GEOGRAPHIC MAGAZINE

Particular description of goods.—Periodical Publications.
Claims use since 1888.

Ser. No. 259,944. CURTIS-MARTIN NEWSPAPERS, INC., Philadelphia, Pa. Filed Jan. 11, 1928.

Making the Most of Your Looks

Particular description of goods.—Daily Illustrated Fashion Articles for Newspaper Publications.
Claims use since June 22, 1925.

Ser. No. 260,265. HOWARD FREEMAN, Newark, N. J. Filed Jan. 18, 1928.

"In the Rough"

Particular description of goods.—Cartoons for Daily Newspaper Publications.
Claims use since Apr. 18, 1927.

Ser. No. 260,266. THE GAGE PUBLISHING CO., INC., New York, N. Y. Filed Jan. 18, 1928.

Electrical Manufacturing

Particular description of goods.—Monthly Magazine.
Claims use since Jan. 3, 1928.

Ser. No. 260,274. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 18, 1928.

GUS AND GUSSIE

Particular description of goods.—Newspaper Cartoons.
Claims use since Mar. 23, 1925.

Ser. No. 260,276. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 18, 1928.

THE KID SISTER

Particular description of goods.—Newspaper Cartoons.
Claims use since Feb. 14, 1927.

Ser. No. 260,278. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 18, 1928.

Chic Cherie

Particular description of goods.—Newspaper Cartoons.
Claims use since Mar. 14, 1927.

Ser. No. 260,279. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 18, 1928.

Ritzy Rosey

Particular description of goods.—Newspaper Cartoons.
Claims use since Aug. 1, 1927.

Ser. No. 260,338. HERBERT F. MARTIN, Chicago, Ill. Filed Jan. 19, 1928.

THE FLYING SQUIRREL

Particular description of goods.—Comic Newspaper Strips.
Claims use since about Jan. 12, 1928.

Ser. No. 260,367. WILSON BROTHERS, Chicago, Ill. Filed Jan. 19, 1928.

The CONCENTRATOR

Particular description of goods.—Monthly Publication.
Claims use since Dec. 1, 1926.

Ser. No. 260,405. PREMIER SYNDICATE, INC., New York, N. Y. Filed Jan. 20, 1928.

HARD-HEARTED HICKEY

Particular description of goods.—Newspaper Cartoons.
Claims use since Dec. 6, 1926.

Ser. No. 260,509. KNAPP-BLOCH INCORPORATED, New York, N. Y. Filed Jan. 23, 1928.

STYLES AND SEASONS

Particular description of goods.—Magazine Issued Bimonthly.
Claims use since about Jan. 1, 1928.

Ser. No. 260,557. DELL PUBLISHING COMPANY, New York, N. Y. Filed Jan. 24, 1928.

DOUGHBOY STORIES

Particular description of goods.—Magazine Published Monthly.
Claims use since Nov. 28, 1927.

Ser. No. 260,558. WILLIAM F. DENNEY, doing business as Denney & Denney, Philadelphia, Pa. Filed Jan. 24, 1928.

THE AFFAIRS OF BEAUTY

Particular description of goods.—Series of Booklets, Pamphlets, or Leaflets Published from Time to Time.
Claims use since on or about Jan. 10, 1928.

Ser. No. 260,630. THE DELTA CHI FRATERNITY, Iowa City, Iowa. Filed Jan. 25, 1928.

DELTA CHI QUARTERLY

Applicant disclaims exclusive right to the word "Quarterly" apart from the mark shown.
Particular description of goods.—Magazine Published Quarterly.
Claims use since 1903.

Ser. No. 260,659. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Jan. 25, 1928.

OIL-POWER

Particular description of goods.—Publication Issued Monthly.
Claims use since February, 1926.

Ser. No. 260,840. NATIONAL RETAIL FURNITURE ASSOCIATION, Chicago, Ill. Filed Jan. 28, 1928.

MONTHLY REVIEW
OF THE
NATIONAL RETAIL FURNITURE ASSOCIATION

Particular description of goods.—Monthly Publication.
Claims use since October, 1927.

CLASS 39.

Clothing.

Ser. No. 241,646. J. E. WATTS CO., Chicago, Ill. Filed Dec. 17, 1926.

"A Warm Companion"
PAL

Particular description of goods.—Bathing Suits.
Claims use since Dec. 5, 1923.

Ser. No. 245,551. HALL AND HALL CO., New York, N. Y. Filed Mar. 11, 1927.

Alweather

Particular description of goods.—Men's Felt Hats Not Made of Rainproof Materials.
Claims use since Feb. 16, 1927.

Ser. No. 251,906. P. KARL, Los Angeles, Calif. Filed July 12, 1927.



SHOES

Applicant disclaims the right to the exclusive use of the expression "Kustom Made Shoes" except in association with the rest of the mark.
Particular description of goods.—Leather Shoes.
Claims use since Jan. 1, 1912.

Ser. No. 253,146. GEM CLOTHING CO., New York, N. Y. Filed Aug. 6, 1927.

GEM

Tailored like Daddy's

No claim is made to the exclusive use of the words "Tailored like Daddy's" apart from the mark as shown in the drawing.
Particular description of goods.—Boys' Clothing—viz, Reefers, Topcoats, and Overcoats.
Claims use since January, 1926.

Ser. No. 253,767. PIKES HIKES, INC., Chicago, Ill. Filed Aug. 20, 1927.



Applicant owns registration No. 236,533.
Particular description of goods.—Leather Shoes.
Claims use since June 1, 1927.

Ser. No. 254,472. PERFECTION CAP & HAT CO., Seattle, Wash. Filed Sept. 7, 1927.



No claim is made to the words "Perfect Hat" apart from the mark shown.
Particular description of goods.—Men's and Children's Hats.
Claims use since July 12, 1926.

Ser. No. 255,384. LEVY BROS. & ADLER ROCHESTER, INC., Rochester, N. Y. Filed Sept. 29, 1927.



No claim is made to an exclusive right to the use of the word "Fleece" apart from the mark as shown in the drawing.

Particular description of goods.—Men's Overcoats.

Claims use since July 25, 1927.

Ser. No. 256,171. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed Oct. 17, 1927.

WATERIZED

Particular description of goods.—Men's, Women's, and Children's Straw, Panama, and Felt Hats; Men's Suits and Overcoats; Raincoats, Men's, Women's, and Children's Blouses; Men's Negligee Shirts; Mackinaws; Men's, Women's, and Children's Knit Underwear; Gloves of Silk and Leather.

Claims use since Jan. 1, 1927.

Ser. No. 256,173. HARRY EDGAR BRONSTON, Plainfield, N. J. Filed Oct. 17, 1927.

RAINTEX

Particular description of goods.—Men's, Women's, and Children's Straw, Panama, and Felt Hats.

Claims use since Jan. 1, 1927.

Ser. No. 256,821. P. & C. HABIG, Vienna, Austria. Filed Oct. 31, 1927.



The words "Wien" and "Hutmacher" are disclaimed apart from the mark.

Particular description of goods.—Hats for Men and Ladies, Caps for Men, Women, and Children.

Claims use since May 31, 1917.

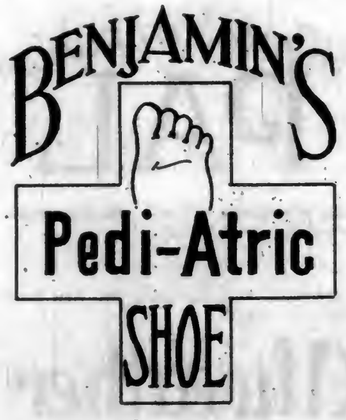
Ser. No. 257,140. JACOB F. BAKER, doing business as J. F. Baker & Company, Detroit, Mich. Filed Nov. 7, 1927.

SET-RITE

Particular description of goods.—Neckties.

Claims use since Sept. 26, 1927.

Ser. No. 258,045. BENJAMIN ROSMAN, New York, N. Y. Filed Nov. 25, 1927.



No claim is made to the word "Shoe."

Particular description of goods.—Shoes of Leather, Rubber, and Fabric and Combinations of These Materials.

Claims use since Apr. 11, 1927.

Ser. No. 258,426. CHARLES A. RAMSAY, Chicago, Ill. Filed Dec. 3, 1927.

LINGWEVE

Particular description of goods.—Ladies' and Misses' Frocks, Suits, and Coats.

Claims use since Nov. 4, 1927.

Ser. No. 258,665. WELLS-LAMONT MANUFACTURING CO., Minneapolis, Minn. Filed Dec. 8, 1927.

CORN TOP

Particular description of goods.—Knitted and Woven Fabric Gloves with or without Leather Facing.

Claims use since Nov. 2, 1927.

Ser. No. 258,832. RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 12, 1927.

THREAD

RIVETED

Particular description of goods.—Men's Work Shirts, Men's Flannel Shirts, and Men's Textile-Fabric Athletic Underwear.

Claims use since Oct. 18, 1926.

Ser. No. 258,954. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Dec. 15, 1927.

"FOREMOST"

Particular description of goods.—Cotton Hosiery for Men, Women, and Children.

Claims use since Jan. 1, 1924.

Ser. No. 259,201. COOPER, WELLS & Co., St. Joseph, Mich. Filed Dec. 21, 1927.



No claim is made to the exclusive use of the words "Full Fashioned and Seamless Hosiery" and "St. Joseph, Mich."

Particular description of goods.—Hosiery.

Claims use since 1907.

Ser. No. 259,531. A. BARAFF & SONS, Philadelphia, Pa. Filed Dec. 31, 1927.



No rights are claimed for the words "Clothes" and "Philadelphia" apart from the mark as shown in the drawing.

Particular description of goods.—Men's Clothing—Namely, Suits, Topcoats, and Overcoats.

Claims use since May 1, 1927.

Ser. No. 259,535. DAVIES SHOE MANUFACTURING COMPANY, Racine, Wis. Filed Dec. 31, 1927.



Particular description of goods.—Men's Shoes of Leather.

Claims use since Nov. 29, 1927.

Ser. No. 259,578. RABINOVITZ-MORROW-LICHTENSTEIN, INC., Philadelphia, Pa. Filed Dec. 31, 1927.

Romley Clothes

Applicant disclaims the word "Clothes" except in the precise relation and association in which it is shown in the mark as a whole.

Particular description of goods.—Boys' and Men's Clothing—Namely, Suits, Coats, and Overcoats.

Claims use since Nov. 15, 1927.

Ser. No. 259,620. EAGLE KNITTING MILLS, Milwaukee, Wis. Filed Jan. 3, 1928.

DUROK

Particular description of goods.—Knit Goods—Namely, Caps for Men, Women, and Children.
Claims use since about June 11, 1927.

Ser. No. 259,919. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed Jan. 10, 1928.

PUBLIX

Particular description of goods.—Dress Shirts, Pajamas and Blouses for Men, Youths, and Boys.
Claims use since Dec. 21, 1927.

Ser. No. 260,055. HOLSTEN YOUNG & CO., New York, N. Y. Filed Jan. 13, 1928.

Togwell

Particular description of goods.—Ladies' and Misses' Coats.
Claims use since about Dec. 14, 1927.

Ser. No. 260,056. HUGHES & BRADLEY COMPANY, Philadelphia, Pa. Filed Jan. 13, 1928.

"FITS-HUGH"

Particular description of goods.—Neckties and Cravats.
Claims use since on or about July 6, 1927.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 257,936. THE RAINYDAY CLUB, New York, N. Y. Filed Nov. 22, 1927.

RAINYDAY

Particular description of goods.—Canes, Parasols, and Umbrellas.
Claims use since June 18, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 245,219. ALLEN R. MITCHELL & SON, Philadelphia, Pa. Filed Mar. 4, 1927.

Shackamaxon Irish Twist

No claim is made to the words "Irish Twist" apart from the mark as shown.
Particular description of goods.—Woolen and Worsted Goods and Combinations Thereof in the Piece.
Claims use since Jan. 17, 1927.

Ser. No. 256,174. HARRY EDGAR BRONSTON, Plainfield, N. J. Filed Oct. 17, 1927.

RAINTEX

Particular description of goods.—Woven Straw Fabrics in the Piece.
Claims use since Jan. 1, 1927.

Ser. No. 258,609. WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Dec. 7, 1927.

BOREAS

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Nov. 25, 1927.

Ser. No. 258,888. STEWART SILK COMPANY, INC., New York, N. Y. Filed Dec. 18, 1927.



No registration rights are claimed in the word "Prints" except in association with the rest of the mark.
Particular description of goods.—Silk Piece Goods.
Claims use since Oct. 20, 1927.

Ser. No. 260,012. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Jan. 12, 1928.

ATURE

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since about Nov. 1, 1927.

Ser. No. 260,013. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Jan. 12, 1928.

BRUYA

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since about Nov. 1, 1927.

Ser. No. 260,014. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Jan. 12, 1928.

RELARO

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since about Nov. 1, 1927.

Ser. No. 260,015. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Jan. 12, 1928.

TRUBORA

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since about Nov. 1, 1927.

Ser. No. 260,016. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Jan. 12, 1928.

WERLEW

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since about Nov. 1, 1927.

Ser. No. 260,044. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 13, 1928.

NINONESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 9, 1928.

Ser. No. 260,080. BREESLIN BROTHERS CARPET COMPANY, Gloucester, N. J. Filed Jan. 14, 1928.

Spartan Wilton

The word "Wilton" is disclaimed apart from the mark as shown.
Particular description of goods.—Textile Rugs.
Claims use since Aug. 31, 1927.

Ser. No. 260,753. I. SACKS & SONS, New York, N. Y. Filed Jan. 27, 1928.



No claim is made to the word "Crepe" apart from the mark shown in the drawing.
Particular description of goods.—Silk, Silk and Cotton Fabrics.
Claims use since June, 1927.

CLASS 43.

Thread and Yarn.

Ser. No. 260,740. BAYARD D. LIPPS, New York, N. Y. Filed Jan. 27, 1928.



The statue shown on the drawing represents the Chevalier Bayard of France.
Particular description of goods.—Thrown Silk in the Form of Bobbins, Skeins, Cops or Other Packages for Manufacturers of Broad Silks and Knitted Articles.
Claims use since Jan. 20, 1928.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 244,488. THE BAY COMPANY, Bridgeport, Conn. Filed Feb. 17, 1927.

BAYHESIVE

Particular description of goods.—Adhesive Plaster.
Claims use since Jan. 2, 1927.

Ser. No. 258,056. ACME COTTON PRODUCTS CO., INC., New York, N. Y. Filed Nov. 26, 1927.

SANFLEX

Particular description of goods.—Sanitary Napkins.
Claims use since Nov. 9, 1927.

Ser. No. 259,391. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co., (Not Inc.), Chicago, Ill. Filed Dec. 28, 1927.

CAUTERODYNE

Particular description of goods.—Electrically Controlled Surgical Instrument for Use by Physicians, Surgeons, and Dentists for Cutting, Incising, Fulgurating, and Dissecting, Removing Growths, Treating and Searing Wounds, and Treating and Removing Membrane.
Claims use since June 1, 1926.

Ser. No. 259,392. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co., (Not Inc.), Chicago, Ill. Filed Dec. 28, 1927.



Particular description of goods.—Eye Retractors, Mouth Gags, Retractors, Nasal Mirrors, Throat Mirrors, Resistance Units for Control of Current in Electrodental and Electrosurgical Instruments, Rectal Speculums, Vaginal Speculums, Ear Speculums, Nasal Speculums, Eye Speculums in Cases for Dental Diagnosis and Operation, and Sets of Instruments in Cases for Surgical Diagnosis and Operation.
Claims use since Mar. 1, 1919, on sets of instruments in cases for both dental and surgical diagnosis and operation, and to separate instruments enumerated since Jan. 1, 1927.

Ser. No. 260,076. THERMOLITE PRODUCTS CORPORATION, Chicago, Ill. Filed Jan. 13, 1928.

THERMOLITE

Particular description of goods.—Plastic Material for Use in Making Dentures.
Claims use since Dec. 2, 1927.

Ser. No. 260,473. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Jan. 21, 1928.

PROTECTIZED

The trade-mark consists in the word "Protectized."
Particular description of goods.—Arch Supports.
Claims use since Jan. 1, 1925.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 253,275. GORDON BEVERAGES INCORPORATED, Toledo, Ohio. Filed Aug. 10, 1927.



Particular description of goods.—Carbonated, Nonalcoholic Beverages.
Claims use since June 4, 1927.

Ser. No. 253,602. MERCHANTS ICE AND COLD STORAGE COMPANY OF LOS ANGELES, Los Angeles, Calif. Filed Aug. 17, 1927.

LIQUID STEAM

Particular description of goods.—Distilled Water.
Claims use since Aug. 8, 1927.

Ser. No. 259,245. KEEK COMPANY, INC., St. Louis, Mo. Filed Dec. 22, 1927.



Particular description of goods.—Cider.
Claims use since Mar. 30, 1927.

Ser. No. 259,446. R. B. HOYT, doing business as Hoyt Bros., Seattle, Wash. Filed Dec. 29, 1927.

Kor-jal
A PURE FOOD DRINK

No claim is made to the exclusive use of the words "A Pure Food Drink" except as used in connection with the other features of the mark.
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups and Extracts Used in Making the Same.
Claims use since Nov. 28, 1927.

Ser. No. 259,788. LEWIS WILLIAMS ALEXANDER, San Antonio, Tex. Filed Jan. 7, 1928.



No claim is made to the words "Size Soda Water, The Biggest Bottle for 5¢."
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups, Extracts, and Concentrates for Making the Same.
Claims use since Jan. 1, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 210,642. JOSE PONS ARNAU, San Juan, Argentina. Filed Mar. 7, 1925.



Particular description of goods.—Fresh Deciduous Fruits and Vegetables.
Claims use since Mar. 2, 1925.

Ser. No. 224,109. THE PURITY CROSS MODEL KITCHENS, INC., Orange, N. J., assignor to Delane Brown, Inc., Baltimore, Md., a Corporation of Maryland. Filed Dec. 2, 1925.

PURITY CROSS

Particular description of goods.—Canned Tomatoes, Canned Fruit Salad; Canned Spaghetti, Italian Style with Meat Added; Canned Spaghetti with Mushroom Sauce, Canned Lobster a la Newburg, Canned Chicken a la King, Canned Welsh Rarebit, Canned Mushrooms, Preserved Figs, Canned Sausages, Vienna Style; Canned Corn-Beef Hash, Canned Rice Pudding, Canned Beans with Pork and Tomato Sauce, Canned Beef Stew, and Canned Lamb Stew.
Claims use since December, 1914.

Ser. No. 224,110. THE PURITY CROSS MODEL KITCHENS, INC., Orange, N. J., assignor to Delane Brown, Inc., Baltimore, Md., a Corporation of Maryland. Filed Dec. 2, 1925.



Particular description of goods.—Canned Tomatoes, Canned Fruit Salads; Canned Spaghetti, Italian Style with Meat Added; Canned Spaghetti with Mushroom Sauce, Canned Lobster a la Newburg, Canned Chicken a la King, Canned Welsh Rarebit, Canned Mushrooms, Preserved Figs; Canned Sausages, Vienna Style; Canned Corn-Beef Hash, Canned Rice Pudding, Canned Beans with Pork and Tomato Sauce, Canned Beef Stew, and Canned Lamb Stew.
Claims use since August, 1925.

Ser. No. 247,905. COCHRAN-TURNEY-CRISPO, INC., New York, N. Y., and Los Angeles, Calif. Filed Apr. 6, 1927.

CRISP-O

The descriptive word "Crisp" is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Fresh Vegetables, Fresh Deciduous Fruits, and Fresh Citrus Fruits.

Claims use since Mar. 1, 1927.

Ser. No. 248,338. H. O. WILBUR & SONS, INCORPORATED, Philadelphia, Pa. Filed May 2, 1927.

MALT CRUNCH

The word "Malt" is herein disclaimed apart from the other features of the mark.

Particular description of goods.—Sweet Milk Chocolate.

Claims use since Mar. 21, 1927.

Ser. No. 249,129. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed May 17, 1927.

Country Club

Particular description of goods.—Canned Fruit for Salad, Canned Tomatoes, Jell Powder, Canned Peas, Canned Cherries, Cocoa, Peanut Butter, Spices, Celery Seed, Dried Currants, Dried Dates and Egg Noodles, Apple and Currant Jelly, Loganberry Preserves, Sweet Sliced Cucumber Pickles, Thousand Island Salad Dressing and Canned Asparagus Tips, Whole Sweet Pickled Peaches; Krisp Slices, Being a Sweet Pickle Fully Cured with Crunchy Flavor and Cut Crosswise in Flat Slices or Wheels; Canned Vegetables—Namely, Beets, Succotash, Wax Beans; American Cheese, Pimiento Cheese.

Claims use since Apr. 2, 1923.

Ser. No. 249,749. PORT PICKLE CO., Houston, Tex. Filed May 28, 1927.

SOUTHERN BELLE

Particular description of goods.—Pickles.

Claims use since June, 1926.

Ser. No. 250,845. HIGHGROVE FRUIT ASSOCIATION, Highgrove, Calif. Filed June 21, 1927.

HONOR-BRIGHT

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.

Claims use since Jan. 1, 1907.

Ser. No. 250,853. GALILEO SAMUEL MASCAGNI, Stockton, Calif. Filed June 21, 1927.

BIG HIT

Particular description of goods.—Fresh Deciduous Fruits—Namely, Grapes, Peaches, Plums, Pears, Cherries; Fresh Vegetables—Namely, Tomatoes, Lettuce, Celery, Peas, Artichokes, and Cauliflower.

Claims use since Aug. 1, 1925.

Ser. No. 252,010. FRENCH SARDINE COMPANY OF CALIFORNIA, also doing business as French Sardine Co. Inc., Terminal Island, Calif. Filed July 13, 1927.

SPHINX

Particular description of goods.—Canned Fish.

Claims use since Jan. 2, 1918.

Ser. No. 254,106. CHARLESTON MILLING & PRODUCE COMPANY, Charleston, W. Va. Filed Aug. 29, 1927.

Charmco

Particular description of goods.—Stock and Poultry Feed.

Claims use since on or about Jan. 1, 1926.

Ser. No. 254,276. FLORIN FRUIT GROWER'S ASSOCIATION, Florin, Calif. Filed Sept. 2, 1927.

FLORIN

Particular description of goods.—Fresh Fruits—Namely, Grapes.

Claims use since May, 1891.

Ser. No. 254,863. RED SUN PRODUCTS COMPANY, Chicago, Ill. Filed Sept. 17, 1927.

RED SUN

The drawing is lined to indicate the color red.

Particular description of goods.—Fruit Syrups and Cordials for Flavoring Ice Creams, Sherbets, Icings, Fillings, Puddings, Desserts, Candy, and Sauces and for Other Food Purposes.

Claims use since May, 1920.

Ser. No. 255,012. HERMAN KRAUSS, INC., Toledo, Ohio. Filed Sept. 21, 1927.

Swift

Particular description of goods.—Malt Syrups.

Claims use since Mar. 20, 1922.

Ser. No. 255,635. CHASE & SANBORN, Boston, Mass. Filed Oct. 5, 1927.

JACK FROST



Particular description of goods.—Coffee and Tea in Dry Form.

Claims use since May 25, 1925.

Ser. No. 255,957. ALBERT BONOMO, doing business as A. Bonomo, Coney Island, Brooklyn, N. Y. Filed Oct. 12, 1927.

Bonomo's POP CORN COCOANUT CRISP

YOU CAN'T EAT ENOUGH

Applicant disclaims the words "Quality," "Popcorn," "Cocoanut Crisp," and "You Can't Eat Enough" except when used in connection with the other features of the mark.

Particular description of goods.—Pop-Corn Confections.

Claims use since July, 1918.

Ser. No. 256,100. CUTLER FRUIT GROWER'S ASSOCIATION, Cutler, Calif. Filed Oct. 15, 1927.

TOM CAT

Particular description of goods.—Fresh Deciduous Fruits—Namely, Grapes.

Claims use since Aug. 1, 1922.

Ser. No. 256,330. CARNATION MILK PRODUCTS COMPANY, Oconomowoc, Wis., Chicago, Ill., Seattle, Wash. Filed Oct. 20, 1927.

CHO-CO

Particular description of goods.—Concentrated Syrup Consisting of Chocolate Malted Milk.

Claims use since Oct. 14, 1927.

Ser. No. 256,337. SIMON GELFAND, doing business as Gelfand & Co. (Not Inc.), Baltimore, Md. Filed Oct. 20, 1927.

CREAM-O-NAISE

Particular description of goods.—Mayonnaise.

Claims use since Feb. 1, 1923.

Ser. No. 257,295. CICERO LAHATTE, Vicksburg, Miss. Filed Nov. 9, 1927.

Kom-Fetch-It QUALITY FOR QUALITY

The notations "Quality for Quality" and "The World's Lowest Prices" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Coffee.

Claims use since Oct. 22, 1927.

Ser. No. 257,328. JOHN G. WOODWARD & CO. INC., doing business as Woodward's, Council Bluffs, Iowa. Filed Nov. 9, 1927.

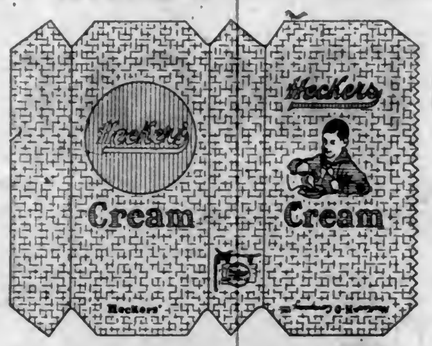
BUTTER BRICKLE

No claim is made to the word "Butter" apart from the mark shown.

Particular description of goods.—Candy.

Claims use since Nov. 20, 1924.

Ser. No. 257,542. HECKER-H-O COMPANY, INC., Buffalo, N. Y. Filed Nov. 14, 1927.

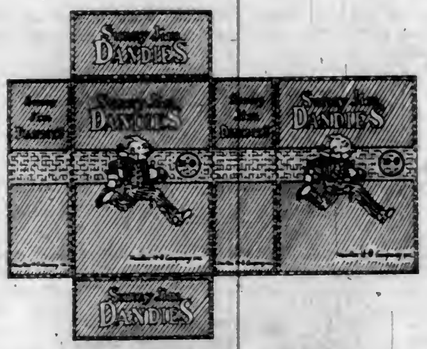


The lining on the drawing denotes the colors red, yellow, and blue. Applicant disclaims the representation of a carton apart from the mark as shown.

Particular description of goods.—Farina.

Claims use since about 1916.

Ser. No. 257,544. HECKER-H-O COMPANY, INC., Buffalo, N. Y. Filed Nov. 14, 1927.



Applicant disclaims the representation of a carton apart from the mark as shown. The lining of the drawing indicates the colors red, brown, and buff.

Particular description of goods.—Bran.

Claims use since September, 1927.

Ser. No. 257,546. HECKER-H-O COMPANY, INC., Buffalo, N. Y. Filed Nov. 14, 1927.



Applicant disclaims the representation of a carton and also the words "New Style" apart from the mark shown. The lining on the drawing indicates the color orange.

Particular description of goods.—Oatmeal.

Claims use since about April, 1924.

Ser. No. 257,667. MORRIS EDELMAN, doing business as Western Distributors, Los Angeles, Calif. Filed Nov. 17, 1927.

EXPRESS

Particular description of goods.—Malt Syrup.

Claims use since Sept. 26, 1927.

Ser. No. 257,700. THE J. M. PAVER COMPANY, Chicago, Ill. Filed Nov. 17, 1927.

TRYSOM

Particular description of goods.—Canned Fruits, Canned Vegetables, and Canned Berries.

Claims use since June, 1913.

Ser. No. 258,129. ALPHONSE J. KOENIGSMAN, doing business as Co-Co-Mac's Company, Youngstown, Ohio. Filed Nov. 28, 1927.



The words "Trade Mark Reg." are disclaimed apart from the mark shown.

Particular description of goods.—Cocoanut Macaroons.

Claims use since Oct. 1, 1927.

Ser. No. 258,408. DANIEL ENGLE, doing business as Daniel Engle Co., New York, N. Y. Filed Dec. 8, 1927.



Particular description of goods.—Dried Milk in Powder Form Used for Baby Food Preparations in Dry Form and Also for Pharmaceutical Preparations and for Powdered Malted Milk.

Claims use since about Feb. 15, 1926.

Ser. No. 258,482. NIELSEN LABORATORIES, INC., Elyria, Ohio. Filed Dec. 5, 1927.



The portrait appearing in the drawing of the mark is that of Niels D. Nielsen, president of applicant corporation. The descriptive word "Fat" is disclaimed apart from the other features of the mark.

Particular description of goods.—A Tonic Food Beverage Made from Orange Juice and Lactic Milk Cultures.

Claims use since Nov. 9, 1927.

Ser. No. 258,637. CICERO LAHATTE, Vicksburg, Miss. Filed Dec. 8, 1927.



Disclaimer is hereby made to all reading matter on the drawing except the term "Kom Fetch-It" apart from the features of the mark.

Particular description of goods.—Canned Fruits and Vegetables.

Claims use since Nov. 17, 1927.

Ser. No. 258,860. FARMERS UNION SERVICE ASSOCIATION, Des Moines, Iowa. Filed Dec. 13, 1927.



The words "Des Moines, Iowa" are disclaimed apart from the mark as shown on the drawing. All parts of the trade-mark which are shown in the drawing as being shaded with vertical lines are printed in red, and all parts shaded with horizontal lines are printed in blue.

Particular description of goods.—Mineral Feed for Cattle, Mineral Feed for Hogs, Laying Mash, Pig Meal, Hog Feed, White Shorts, Gray Shorts, Bran, Alfalfa Molasses Feed, Calf Meal, Dairy Ration, Developing Chick Feed, Hog Fattener, Poultry Mineral, Poultry Fattener, Starting and Growing Mash, and Chick Feed.

Claims use since November, 1925.

Ser. No. 258,904. THE CARR MILLING COMPANY, Hamilton, Ohio. Filed Dec. 16, 1927.



Particular description of goods.—Wheat Flour.

Claims use since Nov. 10, 1927.

Ser. No. 259,278. CREAM DOVE MFG. CO., INC., Binghamton, N. Y. Filed Dec. 23, 1927.

CREDO

Particular description of goods.—Peanut Butter and Cooking Compounds Composed of Cottonseed Oil and Oleostearine.

Claims use since Jan. 1, 1925.

Ser. No. 259,396. DALEY'S INC., Los Angeles, Calif. Filed Dec. 28, 1927.

UNITED

SUPERIOR BRAND

The words "Superior Brand" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Spices and Flavoring Extracts for Food Purposes.
Claims use since July 15, 1914.

Ser. No. 259,534. GEORGE H. CROSS COMPANY, doing business as C. H. & Geo. H. Cross, Inc., St. Johnsbury and Montpelier, Vt., assignor to C. H. & George H. Cross, Inc., St. Johnsbury, Vt. Filed Dec. 31, 1927. Under 10-year proviso.

ST. JOHNSBURY

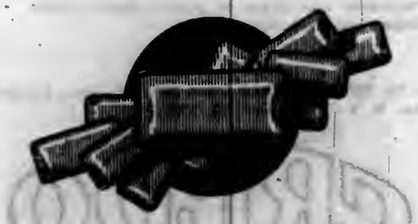
Particular description of goods.—Bread and Crackers.
Claims use since about January, 1870.

Ser. No. 259,606. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed Dec. 31, 1927.

PRESTIGE

Particular description of goods.—Candy.
Claims use since Dec. 1, 1927.

Ser. No. 259,608. WM. WRIGLEY, JR. COMPANY, Chicago, Ill. Filed Dec. 31, 1927.



No claim is made to the pictorial representation of the goods per se.
Particular description of goods.—Chewing Gum.
Claims use since about Dec. 22, 1927.

Ser. No. 259,621. ROBERT E. CHANDLER, doing business as Royal Bakery, Arcadia, Fla. Filed Jan. 3, 1928.

DIXIE GEM

"IT STANDS SUPREME"

Particular description of goods.—Bread.
Claims use since Oct. 1, 1927.

Ser. No. 259,672. MORRIS BLINDERMAN, Brooklyn, N. Y. Filed Jan. 4, 1928.

EGG B COOKIES

No claim is made to the exclusive use of the words "Egg Cookies" apart from the mark shown on the drawing.
Particular description of goods.—Cookies.
Claims use since about Nov. 1, 1927.

Ser. No. 259,763. E. DALANG & Co., Basel, Switzerland. Filed Jan. 6, 1928.

THE ROSE MILL

Particular description of goods.—Alimentary Pastes, Such as Noodles, Macaroni, Spaghetti, and the Like.
Claims use since Dec. 26, 1927.

Ser. No. 259,814. LITCHFIELD CREAMERY CO., Litchfield, Ill. Filed Jan. 7, 1928.



The drawing is lined to indicate shading.
Particular description of goods.—Evaporated Milk.
Claims use since Sept. 18, 1918.

Ser. No. 260,116. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Filed Jan. 14, 1928.

FAIRVIEW

Particular description of goods.—Fruit Preserves, Fruit Jellies, Vinegar, and Peanut Butter.
Claims use since Nov. 1, 1924.

Ser. No. 260,125. INDEPENDENT FRUIT GROWERS, INC., New York, N. Y. Filed Jan. 14, 1928.

GOLDEN GROVES

Particular description of goods.—Fresh Vegetables and Fresh Citrus Fruits.
Claims use since Nov. 23, 1927.

Ser. No. 260,341. SAMUEL MERVIS COMPANY, Baltimore, Md. Filed Jan. 19, 1928.

LET-TUS-NAIZE

Particular description of goods.—Salad Dressing.
Claims use since Nov. 1, 1927.

Ser. No. 260,348. PABST CORPORATION, Milwaukee, Wis. Filed Jan. 19, 1928.

Miner's Favorite

Particular description of goods.—Malt Syrup.
Claims use since Dec. 31, 1927.

Ser. No. 260,409. THE SAINT PAUL MILLING COMPANY, St. Paul, Minn. Filed Jan. 20, 1928.

STRONGFORT

Particular description of goods.—Wheat Flour.
Claims use since Apr. 22, 1924.

Ser. No. 260,432. EL CAMINO CITRUS ASSOCIATION, Claremont, Calif. Filed Jan. 21, 1928.

EL CAMINO

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Mar. 1, 1912.

Ser. No. 260,446. GROWERS EXCHANGE, INC., Medford, Oreg. Filed Jan. 21, 1928.

TRADER

Particular description of goods.—Fresh Pears.
Claims use since Oct. 11, 1927.

Ser. No. 260,460. MINNEAPOLIS MILLING COMPANY, Minneapolis, Minn. Filed Jan. 21, 1928.

Miss Kansas

Particular description of goods.—Wheat Flour.
Claims use since about July 1, 1926.

Ser. No. 260,502. THE GREENE CHICKEN FEED COMPANY, Marblehead, Mass. Filed Jan. 23, 1928.



Particular description of goods.—Poultry Feed—Namely, a Mineralized Cod-Liver Oil for Increasing Egg Production and Hatchability of Eggs.
Claims use since Dec. 12, 1927.

Ser. No. 260,527. REICHARDT COCOA & CHOCOLATE CO., INC., New York, N. Y. Filed Jan. 23, 1928.

Pleasantreats

Particular description of goods.—Candy.
Claims use since Oct. 1, 1927.

Ser. No. 260,579. MINNEAPOLIS MILLING COMPANY, Minneapolis, Minn. Filed Jan. 24, 1928.



No claim is made to the representation of the loaf of bread apart from the rest of the mark.
Particular description of goods.—Wheat Flour.
Claims use since about July 1, 1926.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MARCH 6, 1928.

239,372. HANDLES FOR TOOLS—NAMELY, ICE PICKS. MICHAEL ACKERMAN, doing business as Cincinnati Ice Pick & Tong Mfg. Co., Cincinnati, Ohio.
Filed October 17, 1927. Serial No. 256,157. PUBLISHED DECEMBER 27, 1927. Class 23.

239,373. SAPONACEOUS PREPARATION IN LIQUID FORM FOR REMOVING ROAD TAR, GREASE, CHEWING GUM, PAINT, AND DIRT. GILES W. O. MARTIN, doing business as Giles Martin Company, East Boston, Mass.
Filed September 2, 1927. Serial No. 254,260 PUBLISHED DECEMBER 6, 1927. Class 4.

239,374. SHAVING-SOAP CREAM. ALLIED MERKE INSTITUTES, INC., New York, N. Y.
Filed September 1, 1927. Serial No. 254,224. PUBLISHED NOVEMBER 22, 1927. Class 4.

239,375. A SHOE-SHINING OUTFIT—NAMELY, A CYLINDRICAL BOX CONTAINING SHOE BRUSH, POLISHING PAD, CLEANING CLOTH, AND CREAM. JOHN P. HICKEY, New York, N. Y.
Filed August 26, 1927. Serial No. 253,997. PUBLISHED NOVEMBER 22, 1927. Class 4.

239,376. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. WEBER & FRIEDRICH, INC., Philadelphia, Pa.
Filed August 18, 1927. Serial No. 253,674. PUBLISHED DECEMBER 20, 1927. Class 39.

239,377. WHEAT FLOUR. THOMPSON MILLING COMPANY, Lockport, N. Y.
Filed October 15, 1927. Serial No. 256,142. PUBLISHED DECEMBER 20, 1927. Class 46.

239,378. CLOCKS. THE NEW HAVEN CLOCK CO., New Haven, Conn.
Filed October 13, 1927. Serial No. 256,051. PUBLISHED DECEMBER 27, 1927. Class 27.

239,379. GASOLINE, KEROSENE, FUEL OILS, ILLUMINATING OILS, LUBRICATING OILS, AND GREASES. NATIONAL PETROLEUM EXCHANGE, Knoxville, Iowa.
Filed October 13, 1927. Serial No. 256,050. PUBLISHED DECEMBER 27, 1927. Class 15.

239,380. KITCHEN STRAINERS AND FRY BASKETS. HAMBLIN & RUSSELL MFG. CO., Worcester Mass.
Filed October 12, 1927. Serial No. 255,991. PUBLISHED DECEMBER 27, 1927. Class 13.

239,381. BRACELETS. ROSENHEIM CO. INC., Providence, R. I.
Filed October 8, 1927. Serial No. 255,823. PUBLISHED DECEMBER 27, 1927. Class 28.

239,382. RUBBER INFLATABLE PLAY BALLS. ENO RUBBER CORPORATION, Los Angeles, Calif.
Filed October 8, 1927. Serial No. 255,801. PUBLISHED DECEMBER 20, 1927. Class 22.

239,383. WATCHES, MOVEMENTS, CASES, DIALS, AND OTHER PARTS OF WATCHES. HANS WILSDORF, Bienne, Switzerland.
Filed October 7, 1927. Serial No. 255,783. PUBLISHED DECEMBER 27, 1927. Class 27.

239,384. PADS AND HEATERS FOR USE IN PERMANENT HAIR WAVING. TOWNSEND MANUFACTURING COMPANY, INC., New York, N. Y.
Filed October 6, 1927. Serial No. 255,728. PUBLISHED DECEMBER 20, 1927. Class 44.

239,385. RADIO TRANSMITTING AND RECEIVING SETS AND PARTS AND TESTING DEVICES OF THE TYPE THAT INDICATE WHETHER A CURRENT OF ELECTRICITY IS FLOWING BY THE GLOWING OF AN INCANDECENT LAMP AND NOT INCLUDING TESTING DEVICES WHICH ACTUALLY MEASURE THE FLOW OF THE CURRENT. FRED B. COLLINS, Wayland, Mass.
Filed September 30, 1927. Serial No. 255,435. PUBLISHED DECEMBER 27, 1927. Class 21.

239,386. UNITARY DEVICES FOR RECTIFYING AND TRANSFORMING COMMERCIAL POWER CURRENT FOR RADIO USE COMMONLY KNOWN AS BATTERY ELIMINATORS. STEWART BATTERY CO., Chicago, Ill.
Filed September 29, 1927. Serial No. 255,405. PUBLISHED DECEMBER 27, 1927. Class 21.

239,387. EYE AND LENS PROTECTORS. GEORGE MATERLE, San Francisco, Calif.
Filed September 21, 1927. Serial No. 255,016. PUBLISHED DECEMBER 20, 1927. Class 44.

239,388. MONTHLY TRADE MAGAZINE. MILLER FREEMAN, San Francisco, Calif.
Filed August 17, 1927. Serial No. 253,586. PUBLISHED DECEMBER 27, 1927. Class 38.

239,389. FRESH CITRUS FRUITS. J. C. BOYD, doing business as Rialto Packing Co., Rialto, Calif.
Filed August 17, 1927. Serial No. 253,569. PUBLISHED DECEMBER 27, 1927. Class 46.

239,390. SHOE POLISHING AND DRESSING MATERIAL. INTERNATIONAL SHOE POLISH, INC., Lynn, Mass.
Filed August 16, 1927. Serial No. 253,539. PUBLISHED DECEMBER 6, 1927. Class 4.

239,391. COTTON PIECE GOODS—NAMELY, DUCK. WAMSUTTA MILLS, New Bedford, Mass.
Filed November 21, 1927. Serial No. 257,909. PUBLISHED DECEMBER 27, 1927. Class 42.

239,392. COTTON AND RAYON PIECE GOODS. PARKHILL MANUFACTURING COMPANY, Fitchburg, Mass.
Filed November 18, 1927. Serial No. 257,744. PUBLISHED DECEMBER 27, 1927. Class 42.

239,393. EXTENSION TABLES. THEODOR SAUER CO., New York, N. Y.
Filed November 14, 1927. Serial No. 257,563. PUBLISHED DECEMBER 27, 1927. Class 32.

239,394. FIBRE ROPE. AJAX ROPE COMPANY, INC., New York, N. Y.
Filed November 9, 1927. Serial No. 257,267. PUBLISHED DECEMBER 20, 1927. Class 7.

239,395. TWINE. CHASE BAG CO., New York, N. Y.
Filed November 8, 1927. Serial No. 257,222. PUBLISHED DECEMBER 27, 1927. Class 7.

239,396. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, CONCENTRATES, AND FLAVORS FOR MAKING THE SAME. EDWARD W. PIPER, Baltimore, Md.
Filed November 7, 1927. Serial No. 257,193. PUBLISHED DECEMBER 27, 1927. Class 45.

239,397. ELECTRIC SUCTION CLEANERS. THE P. A. GEIER COMPANY, Cleveland, Ohio.
Filed October 24, 1927. Serial No. 256,522. PUBLISHED DECEMBER 27, 1927. Class 21.

239,398. CERTAIN GLASS ARTICLES. WELLS GLASS COMPANY, Kokomo, Ind.
Filed October 21, 1927. Serial No. 256,434. PUBLISHED DECEMBER 27, 1927. Class 33.

239,399. MONTHLY TRADE MAGAZINE. MILLER FREEMAN, San Francisco, Calif.
Filed August 17, 1927. Serial No. 253,585. PUBLISHED DECEMBER 27, 1927. Class 38.

239,400. WRITING PENS. SENGBUSCH SELF-CLOSING INKSTAND COMPANY, Milwaukee, Wis.
Filed October 17, 1927. Serial No. 256,223. PUBLISHED DECEMBER 27, 1927. Class 37.

239,401. CHILDREN'S KNITTED UNDERWEAR. NEW HARTFORD KNITTING COMPANY, Utica, N. Y.
Filed October 17, 1927. Serial No. 256,203. PUBLISHED DECEMBER 20, 1927. Class 39.

239,402. SHOE POLISH. M. & M. WAINTRAUB, Brooklyn, N. Y.
Filed October 14, 1927. Serial No. 256,091. PUBLISHED DECEMBER 6, 1927. Class 4.

239,403. WOMEN'S AND GIRLS' CLOTHING—NAMELY, WOMEN'S AND GIRLS' COATS, SUITS, FROCKS, AND SKIRTS. HINDES & GROSS, New York, N. Y.
Filed October 14, 1927. Serial No. 256,083. PUBLISHED DECEMBER 20, 1927. Class 39.

239,404. GIRLS' AND CHILDREN'S DRESSES. CRAFTWOVEN FABRICS, INC., Taunton, Mass.
Filed October 5, 1927. Serial No. 255,641. PUBLISHED DECEMBER 20, 1927. Class 39.

239,405. SHAVING-CREAM SOAP, LIQUID SOAP, AND HARD SOAP. LUIGI BOCCHICCHIO, doing business as Bocchicchio & Son, Philadelphia, Pa.
Filed October 4, 1927. Serial No. 255,589. PUBLISHED DECEMBER 6, 1927. Class 4.

239,406. WASHING POWDER. CHARLES W. CLARK, Westfield, Mass.
Filed September 30, 1927. Serial No. 255,434. PUBLISHED NOVEMBER 29, 1927. Class 4.

239,407. AUTOMOBILE TOP DRESSINGS, SOAPS, AND CLEANING COMPOUNDS FOR METAL AND WOODEN SURFACES. WILBERT B. JACOBS, doing business as Crystal Oil Company, Emlenton, Pa.
Filed September 27, 1927. Serial No. 255,307. PUBLISHED NOVEMBER 29, 1927. Class 4.

239,408. PREPARATION FOR CLEANING FURNITURE, WOODWORK, WOOD FLOORS, METAL, CLOTHING, CARPETS, AND THE HANDS. CLEANERINE COMPANY, Nashville, Tenn.
Filed September 24, 1927. Serial No. 255,161. PUBLISHED DECEMBER 6, 1927. Class 4.

239,409. REMEDY FOR THE TREATMENT OF AFFECTIONS OF THE HEART. LABORATOIRES DEGLAUDE, Paris, France.
Filed September 15, 1927. Serial No. 254,780. PUBLISHED DECEMBER 20, 1927. Class 6.

239,410. FABRIC WASHING AND CLEANSING COMPOUNDS—NAMELY, SOAP AND SOAP POWDERS; SOAP ECONOMIZER AND ASSISTANT—NAMELY, SOLUBLE ALKALI COMPOUNDS. WASHING-NATIONAL-SANDS, INC., New York, N. Y.
Filed September 8, 1927. Serial No. 254,523. PUBLISHED DECEMBER 13, 1927. Class 4.

239,411. DRY-CLEANING COMPOUND. KORN POP REMEDY COMPANY, St. Louis, Mo.
Filed September 8, 1927. Serial No. 254,493. PUBLISHED DECEMBER 13, 1927. Class 4.

239,412. PHOTOGRAPHIC PRINTS. PHOTO LITHO SERVICE, New York, N. Y.
Filed August 30, 1927. Serial No. 253,766. PUBLISHED DECEMBER 27, 1927. Class 38.

239,413. BOND PAPERS AND OTHER WRITING PAPERS. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed August 30, 1927. Serial No. 254,121. PUBLISHED DECEMBER 27, 1927. Class 37.

239,414. CERTIFICATES OF SURVEY. OTTO D. ROHLFS, Seattle, Wash.
Filed September 7, 1927. Serial No. 254,476. PUBLISHED DECEMBER 27, 1927. Class 38.

239,415. HAM. GEO. A. HORMEL & COMPANY, Austin, Minn.
Filed September 17, 1927. Serial No. 254,851. PUBLISHED DECEMBER 20, 1927. Class 46.

239,416. DRESSING PREPARATION FOR PATENT-LEATHER SHOES IN SOLID, PASTE, OR LIQUID FORM. SMITH-ERNSTER LABORATORIES, INC., Cambridge, Mass.
Filed September 24, 1927. Serial No. 255,207. PUBLISHED DECEMBER 13, 1927. Class 4.

239,417. VEGETABLE BUTTER, VEGETABLE FAT, BUTTER OR OIL OBTAINED FROM COCOANUT, AND COCOANUT STEARINE, ALL FOR FOOD PURPOSES. THE BEST FOODS, INC., New York, N. Y.
Filed September 30, 1927. Serial No. 255,432. PUBLISHED DECEMBER 20, 1927. Class 46.

239,418. CERTAIN NEWSPAPER ARTICLES. JAMES BAYLESS SNODGRASS, New York, N. Y.
Filed October 1, 1927. Seral No. 255,538. PUBLISHED DECEMBER 6, 1927. Class 38.

239,419. WEEKLY PUBLICATION. GEORGE J. MEYER, doing business as Home Stretch Publishing Company, San Francisco, Calif.
Filed October 3, 1927. Serial No. 255,568. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,420. PERIODICAL PUBLICATION. BUESCHER BAND INSTRUMENT CO., Elkhart, Ind.
Filed October 4, 1927. Serial No. 255,591. PUBLISHED DECEMBER 6, 1927. Class 38.

239,421. MAGAZINE SECTION. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y., and Greenwich, Conn.
Filed October 4, 1927. Serial No. 255,594. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,422. PERIODICAL. CONSOLIDATED FEATURES, INC., New York, N. Y.
Filed September 21, 1927. Serial No. 255,620. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,423. MAGAZINE PUBLISHED MONTHLY. GILBOA PUBLISHING CORPORATION, New York, N. Y.
Filed October 10, 1927. Serial No. 255,846. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,424. SPICES, SEASONINGS—NAMELY, GROUND SAGE, RUBBED SAGE, AND POULTRY SEASONING; FLAVORING EXTRACTS FOR FOODS, AND TEA. THE MCATEE-NEWELL COFFEE COMPANY, INC., Bloomington, Ill.
Filed October 11, 1927. Serial No. 255,920. PUBLISHED DECEMBER 20, 1927. Class 46.

239,425. POWDER FOR CLEANING DENTURES (ARTIFICIAL TEETH). THE TOIL-ORA LABORATORIES, Rochester, N. Y.
Filed October 11, 1927. Serial No. 255,945. PUBLISHED DECEMBER 13, 1927. Class 4.

239,426. MALT SYRUP. PROVIDENCE MALT COMPANY, Providence, R. I.
Filed October 19, 1927. Serial No. 256,304. PUBLISHED DECEMBER 20, 1927. Class 46.

239,427. ADVERTISING COPY. EMMA PERLEY LINCOLN, Washington, D. C.
Filed October 20, 1927. Serial No. 256,322. PUBLISHED DECEMBER 13, 1927. Class 38.

239,428. WASHING POWDERS. JACK MAST, doing business as Masto Products Company, New York, N. Y.
Filed October 21, 1927. Serial No. 256,414. PUBLISHED DECEMBER 13, 1927. Class 4.

239,429. A PERIODICAL. G. W. CARNRICK CO., New York, N. Y.
Filed October 22, 1927. Serial No. 256,448. PUBLISHED DECEMBER 13, 1927. Class 38.

239,430. SOAP. HERMAN SMITHLINE, doing business as Healozol Medicine Company, New York, N. Y.
Filed October 22, 1927. Serial No. 256,487. PUBLISHED DECEMBER 13, 1927. Class 4.

239,431. SYNDICATED SECTION FOR PUBLICATION IN NEWSPAPERS. STANDARD PUBLISHING COMPANY, Chicago, Ill.
Filed October 22, 1927. Serial No. 256,492. PUBLISHED DECEMBER 13, 1927. Class 38.

239,432. MEN'S, WOMEN'S BOYS', AND GIRLS' KNITTED AND TEXTILE UNION SUITS, PAJAMAS, AND NIGHTSHIRTS. ISADOR S. GERSENFELD, New York, N. Y.
Filed October 31, 1927. Serial No. 256,819. PUBLISHED DECEMBER 20, 1927. Class 39.

239,433. MAGAZINE PUBLISHED QUARTERLY. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,874. PUBLISHED DECEMBER 27, 1927. Class 38.

239,434. SOAP IN LIQUID FORM. KRON-GLASS COMPANY, New Orleans, La.
Filed October 29, 1927. Serial No. 256,782. PUBLISHED DECEMBER 13, 1927. Class 4.

239,435. NEWSPAPER CARTOONS. INTERNATIONAL FEATURE SERVICE, INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,871. PUBLISHED DECEMBER 13, 1927. Class 38.

239,436. NEWSPAPER CARTOONS. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,873. PUBLISHED DECEMBER 13, 1927. Class 38.

239,437. A PERIODICAL. ANCIENT ARABIC ORDER NOBLES OF THE MYSTIC SHRINE FOR NORTH AMERICA, New York, N. Y.
Filed October 29, 1927. Serial No. 256,760. PUBLISHED DECEMBER 27, 1927. Class 38.

239,438. ONE-COLUMN NEWSPAPER FASHION ILLUSTRATION SYNDICATED AND SOLD TO NEWSPAPERS. STANDARD PUBLISHING COMPANY, Chicago, Ill.
Filed October 27, 1927. Serial No. 256,691. PUBLISHED DECEMBER 13, 1927. Class 38.

239,439. SOAP; SOAP FLAKES, SOAP POWDERS, CLEANSING POWDERS, AND POLISHES. LEHIGH-WHITEHALL SOAP COMPANY, Allentown, Pa.
Filed October 27, 1927. Serial No. 256,676. PUBLISHED DECEMBER 13, 1927. Class 4.

239,440. SOAP. PERKINS SOAP COMPANY, Springfield, Mass.
Filed October 26, 1927. Serial No. 256,636. PUBLISHED DECEMBER 13, 1927. Class 4.

239,441. OIL PAPER. STANDARD INSULATION COMPANY, Rutherford, N. J.
Filed October 22, 1927. Serial No. 256,494. PUBLISHED DECEMBER 27, 1927. Class 37.

239,442. CERTAIN FASHION MAGAZINE. STANDARD PUBLISHING COMPANY, Chicago, Ill.
Filed October 22, 1927. Serial No. 256,491. PUBLISHED DECEMBER 27, 1927. Class 38.

239,443. SOAP. HERMAN SMITHLINE, doing business as Charmozol Chemical Co., New York, N. Y.
Filed October 22, 1927. Serial No. 256,488. PUBLISHED DECEMBER 13, 1927. Class 4.

239,444. CLEANSING AND SCRUBBING PREPARATION. THE MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa.
Filed October 22, 1927. Serial No. 256,471. PUBLISHED DECEMBER 13, 1927. Class 4.

239,445. PAPER NAPKINS. DOMESTIC MILLS PAPER COMPANY, New York, N. Y.
Filed October 22, 1927. Serial No. 256,455. PUBLISHED DECEMBER 27, 1927. Class 37.

239,446. MEN'S DRESS, NEGLIGEE, AND WORK TOP SHIRTS. PARKLEY SHIRT CO., INC., New York and Brooklyn, N. Y., and Branford, Conn.
Filed October 20, 1927. Serial No. 256,372. PUBLISHED DECEMBER 27, 1927. Class 39.

239,447. MEN'S HOSIERY, KNITTED UNDERWEAR, AND SWEATERS. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed October 20, 1927. Serial No. 256,334. PUBLISHED DECEMBER 27, 1927. Class 39.

239,448. GERMICIDE. BREWER & COMPANY INC., Worcester, Mass.
Filed November 10, 1927. Serial No. 257,340. PUBLISHED DECEMBER 20, 1927. Class 6.

239,449. HAIR LOTION. POLICHRONIS ROMANELIS, Manchester, N. H.
Filed November 9, 1927. Serial No. 257,316. PUBLISHED DECEMBER 20, 1927. Class 6.

239,450. PREPARATION FOR LUBRICATING METALS IN THE PROCESS OF ROLLING AND ANNEALING AND AS A RUST PREVENTIVE. AMERICAN LANOLIN CORPORATION, Lawrence, Mass.
Filed November 9, 1927. Serial No. 257,268. PUBLISHED DECEMBER 20, 1927. Class 6.

239,451. PERFUME. JOHN L. LOMBARDO, doing business as J. L. Lombardo Co., Buffalo, N. Y.
Filed November 7, 1927. Serial No. 257,173. PUBLISHED DECEMBER 20, 1927. Class 6.

239,452. COMPOUND FOR WETTING OUT, BOILING OUT, BLEACHING SCOURING, SOFTENING, THROWING, DEGUMMING, DYEING, FINISHING, WEIGHTING, LUBRICATING, CLEANING, AND RENDERING HYDROSCOPIC ALL FIBERS, YARNS, AND FABRICS CONSISTING OF AND MADE FROM COTTON, WOOL, SILK, ART SILK, RAYON, CELANESE, TUSSAH, JUTE, HEMP, SISAL, CHINA GRASS, AND OTHER FIBERS OF A VEGETABLE OR CHEMICAL NATURE. JOHN CAMPBELL & Co., New York, N. Y.
Filed November 7, 1927. Serial No. 257,162. PUBLISHED DECEMBER 20, 1927. Class 6.

239,453. BOYS' AND JUVENILES' SUITS AND OVERCOATS AND YOUNG MEN'S SUITS AND OVERCOATS. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed November 5, 1927. Serial No. 257,100. PUBLISHED DECEMBER 27, 1927. Class 39.

239,454. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. THE J. AND J. BEAUTY CULTURE, New York, N. Y.
Filed November 3, 1927. Serial No. 257,010. PUBLISHED DECEMBER 27, 1927. Class 6.

239,455. HEALING OINTMENTS. JOHN A. SWITALSKI, doing business as Johns Chemical Co., Millvale, Pittsburgh, Pa.
Filed November 2, 1927. Serial No. 256,982. PUBLISHED DECEMBER 27, 1927. Class 6.

239,456. HAND AND FACE LOTION, FACE CREAM, MASSAGE CREAM, DEODORANT TOILET POWDER, TALCUM POWDER, AFTER-SHAVING FACE POWDER, AFTER-SHAVING LOTION, LILAC VEGETAL, LILAC LOTION, BATH SALT, BRILLIANTINE, HAIR TONIC, HAIRDRESSING, SHAMPOO, HAIR POMADE, HAIR OIL, SCALP-TREATMENT PREPARATION, FOOT POWDER, FOOT BALM, TOOTH PASTE, BAY RUM, COLOGNE, TOILET WATER, AND PERFUME. IRVING MCEWEN, Omaha, Nebr.
Filed November 2, 1927. Serial No. 256,961. PUBLISHED DECEMBER 27, 1927. Class 6.

239,457. CREAM FOR REMOVING HAIR FROM THE HUMAN SKIN. BERLAND LABORATORIES, INC., Los Angeles, Calif.
Filed November 2, 1927. Serial No. 256,900. PUBLISHED DECEMBER 27, 1927. Class 6.

239,458. PERFUME. GUERLAIN PERFUMERY CORPORATION OF NEW YORK, New York, N. Y.
Filed November 1, 1927. Serial No. 256,868. PUBLISHED DECEMBER 27, 1927. Class 6.

239,459. INSECTICIDE. CENTURY CHEMICAL CO., INC., New York, N. Y.
Filed October 27, 1927. Serial No. 256,660. PUBLISHED DECEMBER 27, 1927. Class 6.

239,460. SENSITIZING MEDIUM FOR PLATES USED IN THE PHOTOMECHANICAL INDUSTRIES. F. WESEL MANUFACTURING COMPANY, Scranton, Pa.
Filed October 25, 1927. Serial No. 256,596. PUBLISHED DECEMBER 27, 1927. Class 6.

239,461. MINERAL TONIC FOR POULTRY AND DOMESTIC ANIMALS. TROY CHEMICAL CO., Binghamton, N. Y.
Filed October 25, 1927. Serial No. 256,589. PUBLISHED DECEMBER 20, 1927. Class 6.

239,462. MEDICINE FOR INDIGESTION. THE KNOX COMPANY, Kansas City, Mo.
Filed October 21, 1927. Serial No. 256,410. PUBLISHED DECEMBER 20, 1927. Class 6.

239,463. HAIR TONIC. PRO-CHEMICAL LABORATORIES, Chicago, Ill.
Filed October 20, 1927. Serial No. 256,323. PUBLISHED DECEMBER 27, 1927. Class 6.

239,464. FUNGICIDES. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed October 19, 1927. Serial No. 256,302. PUBLISHED DECEMBER 27, 1927. Class 6.

239,465. WOMEN'S LEATHER SHOES. BANCROFT WALKER COMPANY, Boston and South Boston, Mass.
Filed October 14, 1927. Serial No. 256,070. PUBLISHED DECEMBER 20, 1927. Class 39.

239,466. MEDICINAL TEA USED FOR PURIFYING THE BLOOD, BEAUTIFYING THE COMPLEXION, CLEARING THE SKIN OF ERUPTIONS, RELIEVING CONSTIPATION, INDIGESTION, DIZZINESS OR SICK HEADACHE. OSGOOD BROS., doing business as Osgood's Drug Stores, Oakland, Calif.
Filed October 13, 1927. Serial No. 256,054. PUBLISHED DECEMBER 27, 1927. Class 6.

239,467. BOYS', STUDENTS', AND YOUNG MEN'S OVERCOATS AND SUITS. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed November 5, 1927. Serial No. 257,099. PUBLISHED DECEMBER 20, 1927. Class 39.

239,468. BOYS' AND YOUNG MEN'S SUITS AND OVERCOATS. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed November 4, 1927. Serial No. 257,069. PUBLISHED DECEMBER 20, 1927. Class 39.

239,469. APRONS AND COLLAR SETS. ROBERT KANTER, doing business as Robert Kanter Co., New York, N. Y.
Filed November 2, 1927. Serial No. 256,940. PUBLISHED DECEMBER 27, 1927. Class 39.

239,470. HOSIERY. CHAS. CHAPMAN'S SONS CO., INC., New York, N. Y.
Filed October 31, 1927. Serial No. 256,809. PUBLISHED DECEMBER 20, 1927. Class 39.

239,471. MEN'S TOPCOATS. ISIDORE GROSSMAN, doing business as Grossman Clothing Co., New York, N. Y.
Filed October 29, 1927. Serial No. 256,776. PUBLISHED DECEMBER 20, 1927. Class 39.

239,472. MEN'S AND BOYS' SUITS—NAMELY, COATS, VESTS, AND TROUSERS—AND OVERCOATS. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed October 26, 1927. Serial No. 256,642. PUBLISHED DECEMBER 27, 1927. Class 39.

239,473. MEN'S AND BOYS' SUITS—NAMELY, COATS, VESTS, AND TROUSERS AND OVERCOATS. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed October 25, 1927. Serial No. 256,581. PUBLISHED DECEMBER 27, 1927. Class 39.

239,474. MEN'S AND BOYS' TOPCOATS AND OVERCOATS. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed October 25, 1927. Serial No. 256,580. PUBLISHED DECEMBER 27, 1927. Class 39.

239,475. TOOTHBRUSHES. RUBBER AND CELLULOID PRODUCTS COMPANY, Newark, N. J.
Filed October 22, 1927. Serial No. 256,486. PUBLISHED DECEMBER 27, 1927. Class 29.

239,476. TOOTHBRUSHES. RUBBER AND CELLULOID PRODUCTS COMPANY, Newark, N. J.
Filed October 22, 1927. Serial No. 256,485. PUBLISHED DECEMBER 27, 1927. Class 29.

239,477. WOMEN'S, MISSES', AND JUNIORS' COATS AND SUITS, RIDING HABITS, BREECHES, AND KNICKERS. M. COWEN CO., New York, N. Y.
Filed October 22, 1927. Serial No. 256,451. PUBLISHED DECEMBER 27, 1927. Class 39.

239,478. DENTAL INSTRUMENTS AND SUPPLIES. JULIUS CHARLESTEIN, doing business as The Dental Agency, Philadelphia, Pa.
Filed September 6, 1927. Serial No. 254,382. PUBLISHED DECEMBER 20, 1927. Class 44.

239,479. LIQUEFIED PETROLEUM PRODUCTS FOR HEATING AND LIGHTING. THE BALTIMORE GAS ENGINEERING CORPORATION, Charleston, W. Va.
Filed September 6, 1927. Serial No. 254,377. PUBLISHED DECEMBER 27, 1927. Class 15.

239,480. ALL-GLASS CONTAINERS AND GLASS CONTAINERS WITH METAL COVERS. MCLAREN-CONSOLIDATED CONE CORPORATION, Dayton, Ohio.
Filed August 26, 1927. Serial No. 254,003. PUBLISHED DECEMBER 13, 1927. Class 33.

239,481. CLINICAL AND MEDICAL THERMOMETERS. FAICHNEY INSTRUMENT CORPORATION, Watertown, N. Y.
Filed August 24, 1927. Serial No. 253,876. PUBLISHED DECEMBER 20, 1927. Class 44.

239,482. ELECTRICAL LIGHTING FIXTURES. JOSEPH SABLE, doing business as Pioneer Lighting Fixture Company, Milwaukee, Wis.
Filed August 8, 1927. Serial No. 253,216. PUBLISHED DECEMBER 27, 1927. Class 21.

239,483. LUBRICATING OILS AND LUBRICATING GREASES. A. W. HARRIS OIL COMPANY, Providence, R. I.
Filed August 17, 1927. Serial No. 253,504. PUBLISHED NOVEMBER 15, 1927. Class 15.

239,484. CAR TO BE USED IN AMUSEMENT PLACES. W. F. MANGELS COMPANY, New York, and Coney Island, N. Y.
Filed August 19, 1927. Serial No. 253,706. PUBLISHED DECEMBER 20, 1927. Class 22.

239,485. PYROPHORIC POCKET LIGHTERS. EVANS CASE COMPANY, North Attleboro, Mass.
Filed August 23, 1927. Serial No. 253,836. PUBLISHED DECEMBER 27, 1927. Class 34.

239,486. MEN'S AND BOYS' SUITS AND OVERCOATS. THE PARIS COMPANY, Salt Lake City, Utah.
Filed November 1, 1927. Serial No. 256,885. PUBLISHED DECEMBER 20, 1927. Class 39.

239,487. NEWSPAPER CARTOONS. NEWSPAPER FEATURE SERVICE, INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,880. PUBLISHED DECEMBER 27, 1927. Class 38.

239,488. LEATHER SHOES. FARGO-HALLOWELL SHOE CO., Chicago, Ill.
Filed May 5, 1926. Serial No. 231,145. PUBLISHED NOVEMBER 30, 1926. Class 39.

239,489. RAY FILTERS FOR CINEMA PROJECTORS. BECKLEY AND CHURCH INC., Rochester, N. Y.
Filed November 4, 1927. Serial No. 257,045. PUBLISHED DECEMBER 27, 1927. Class 26.

239,490. MEDICINAL PREPARATIONS FOR PROMPT RELIEF IN DYSMENORRHEA, NEURALGIA, MIGRAINE, ASTHMA, COLICS, SEASICKNESS, NEURITIS, AND FOR RELIEF OF CONDITIONS ARISING FROM THE WITHDRAWAL OF NARCOTICS FROM ADDICTS. SCHENECTADY HYGIENIC LABORATORY, Schenectady, N. Y.
Filed November 3, 1927. Serial No. 257,034. PUBLISHED DECEMBER 20, 1927. Class 6.

239,491. CERTAIN NAMED PIECE GOODS. HENRY GLASS & Co., New York, N. Y.
Filed November 3, 1927. Serial No. 257,009. PUBLISHED DECEMBER 13, 1927. Class 42.

239,492. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,925. PUBLISHED DECEMBER 13, 1927. Class 42.

239,493. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,922. PUBLISHED DECEMBER 13, 1927. Class 42.

239,494. NONALCOHOLIC, MALTLESS BEVERAGES AND EXTRACTS OR SYRUPS FOR PRODUCING THE SAME. ROY BALDWIN, doing business as Baldwin's Extract & Flavor Co., Columbus, Ohio.
Filed November 2, 1927. Serial No. 256,896. PUBLISHED DECEMBER 27, 1927. Class 45.

239,495. CERTAIN WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed November 1, 1927. Serial No. 256,860. PUBLISHED DECEMBER 13, 1927. Class 42.

239,496. CERTAIN WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed November 1, 1927. Serial No. 256,859. PUBLISHED DECEMBER 13, 1927. Class 42.

239,497. AUTOMOBILE TIRES OF RUBBER AND FABRIC. MONTGOMERY WARD & Co. INCORPORATED, Chicago, Ill.
Filed October 31, 1927. Serial No. 256,830. PUBLISHED DECEMBER 27, 1927. Class 35.

239,498. PINE-TAR SHAMPOO. THE PACKER MANUFACTURING COMPANY, INC., New York, N. Y.
Filed October 22, 1927. Serial No. 256,482. PUBLISHED DECEMBER 20, 1927. Class 6.

239,499. PREPARATION RECOMMENDED FOR USE IN CASES OF DIGESTIVE DISORDERS. ZUP CHEMICAL COMPANY, New York, N. Y.
Filed October 21, 1927. Serial No. 256,435. PUBLISHED DECEMBER 20, 1927. Class 6.

239,500. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. THE BIG-TIME CORPORATION, Miami, Fla.
Filed October 8, 1927. Serial No. 255,789. PUBLISHED DECEMBER 27, 1927. Class 45.

239,501. NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS BOTH IN CARBONATED AND UNCARBONATED FORM. LIBBY BURSTYN, doing business as The Ganga Co., Los Angeles, Calif.
Filed October 5, 1927. Class 45.
LISHED DECEMBER 27, 1927. Class 45.

239,502. BRAKE-SHOE LINERS OR LININGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed September 30, 1927. Serial No. 255,471. PUBLISHED DECEMBER 27, 1927. Class 35.

239,503. A CHEMICAL SET FOR ANALYZING OR DETECTING WOOD ALCOHOL IN BEVERAGES, EXTRACTS, TINCTURES, SPIRITS, AND THE LIKE, SAID SET CONSISTING, AS ESSENTIAL PARTS, OF A STILL AND A PLURALITY OF VIALS. THE DETECTOL MANUFACTURING COMPANY, INC., Carlstadt, N. J.
Filed September 30, 1927. Serial No. 255,488. PUBLISHED DECEMBER 27, 1927. Class 26.

239,504. THERMOMETERS AND BAROMETERS. E. B. MEYROWITZ, INC., New York, N. Y.
Filed September 29, 1927. Serial No. 255,386. PUBLISHED DECEMBER 27, 1927. Class 26.

239,505. SILK PIECE GOODS. STEHLI FABRICS CORPORATION, New York, N. Y.
Filed September 22, 1927. Serial No. 255,080. PUBLISHED DECEMBER 27, 1927. Class 42.

239,506. CIGARS. JOSEPH DI SANTO, doing business as Di Santo & Co., Duluth, Minn.
Filed September 10, 1927. Serial No. 254,578. PUBLISHED DECEMBER 27, 1927. Class 17.

239,507. FILLING MACHINES FOR FILLING RECEPTACLES WITH FLUIDS AND SEMIFLUIDS AND PARTS THEREOF, CENTRIFUGAL CLARIFIERS FOR CLARIFYING FLUIDS AND SEMIFLUIDS FOR USE WITH SUCH FILLING MACHINES AND PARTS THEREOF, CENTRIFUGAL SEPARATORS FOR SEPARATING FLUIDS AND SEMIFLUIDS FOR USE WITH SUCH FILLING MACHINES AND PARTS THEREOF. THE NATIONAL ACME CO., Cleveland, Ohio.
Filed September 7, 1927. Serial No. 254,469. PUBLISHED DECEMBER 27, 1927. Class 23.

239,508. COTTON AND LINEN SLIP COVERS FOR UPHOLSTERED FURNITURE. BENJAMIN SALK, doing business as Fuller Bros., Pawtucket R. I.
Filed September 3, 1927. Serial No. 254,362. PUBLISHED DECEMBER 20, 1927. Class 42.

239,509. WASHING POWDER. ROY L. WORTHAM, Hammond, Ill.
Filed October 31, 1924. Serial No. 204,688. PUBLISHED DECEMBER 27, 1927. Class 4.

239,510. LEATHER AND CANVAS BOOTS AND SHOES. CHARLES H. BROWN, New York, N. Y.
Filed June 19, 1925. Serial No. 216,014. PUBLISHED DECEMBER 20, 1927. Class 39.

239,511. FISHING RODS, GOLF CLUBS, SKIS AND SNOWSHOES. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed August 10, 1925. Serial No. 218,590. PUBLISHED DECEMBER 20, 1927. Class 22.

239,512. CHEWING GUM. THE NATIONAL GUM CO., INC., Newark, N. J.
Filed September 2, 1925. Serial No. 219,678. PUBLISHED DECEMBER 27, 1927. Class 46.

239,513. MEASURING RULES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed October 16, 1925. Serial No. 221,800. PUBLISHED DECEMBER 27, 1927. Class 26.

239,514. DYNAMO-ELECTRIC MACHINES, MOTORS, GENERATORS, AND MOTOR GENERATORS. CONTINENTAL ELECTRIC CO. INC., Newark, N. J.
Filed October 20, 1925. Serial No. 222,012. PUBLISHED DECEMBER 27, 1927. Class 21.

239,515. NEGOTIABLE BOND-SHARE CERTIFICATES. BONDSHARE CORPORATION, Dover, Del.
Filed November 6, 1925. Serial No. 222,912. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,516. CERTAIN NAMED WEARING APPAREL. THE D. M. READ CO., Bridgeport, Conn.
Filed January 30, 1926. Serial No. 226,683. PUBLISHED DECEMBER 27, 1927. Class 39.

239,517. HEEL BALL, FINISHING WAX, AND BRUSH POLISH SUCH AS IS USED IN THE MANUFACTURE AND REPAIR OF BOOTS AND SHOES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed April 13, 1926. Serial No. 230,143. PUBLISHED DECEMBER 27, 1927. Class 4.

239,518. TOILET PAPER AND PAPER NAPKINS. JOHN SEXTON AND COMPANY, Chicago, Ill.
Filed April 15, 1926. Serial No. 230,265. PUBLISHED DECEMBER 27, 1927. Class 37.

239,519. FACE CREAMS. "MONA LEEA" CHEMIC-COSMETICAL CO., New York and Bronx, N. Y.
Filed April 30, 1926. Serial No. 230,945. PUBLISHED DECEMBER 27, 1927. Class 6.

239,520. HAIR GROWER, SHAMPOO, HAIR TONIC AND DRESSING, FACE CREAMS, AND FACE POWDERS. BERTHA ELLA BROWNE, Detroit, Mich.
Filed May 17, 1926. Serial No. 231,718. PUBLISHED DECEMBER 20, 1927. Class 6.

239,521. NEGOTIABLE REAL-ESTATE TRUST DEED NOTE. MORTGAGE SECURITY CORPORATION OF AMERICA, Norfolk, Va.
Filed August 9, 1926. Serial No. 235,745. PUBLISHED DECEMBER 20, 1927. Class 38.

239,522. BABY SET COMPRISING A JACKET AND BONNET MADE OF KNITTED MATERIAL. PRINCETON KNITTING MILLS, Richmond, Calif.
Filed August 16, 1926. Serial No. 236,056. PUBLISHED DECEMBER 27, 1927. Class 39.

239,523. CLOTHING FOR MEN, WOMEN, AND CHILDREN—VIZ, COATS, JACKETS, PANTALOONS, HATS, CAPS, HELMETS, PULL-OVERS EITHER WITH OR WITHOUT SLEEVES, AND GLOVES AND GAUNTLETS MADE OF LEATHER, RUBBER-PROOFED, OR WATERPROOFED FABRICS OR COMBINATIONS OF SAME. LA SOCIÉTÉ ANONYME THE DESTROOPER'S RAINCOAT COMPANY, Brussels and Ixelles-Brussels, Belgium.
Filed September 20, 1926. Serial No. 237,444. PUBLISHED DECEMBER 20, 1927. Class 39.

239,524. ARTIFICIAL-ANUS APPARATUS, TOURNIQUETS, AND COLOSTOMY APPARATUS. NYE COMPANY, Chicago, Ill.
Filed October 6, 1926. Serial No. 238,280. PUBLISHED DECEMBER 20, 1927. Class 44.

239,525. COSMETIC LOTION. THE HONEY GOLD CO., Akron, Ohio.
Filed October 9, 1926. Serial No. 238,373. PUBLISHED DECEMBER 27, 1927. Class 6.

239,526. SOAPS. NAAMLOOZE VENNOOTSCHAP INTERNATIONAL PERFUMERY COMPANY, Amsterdam, Netherlands.
Filed October 12, 1926. Serial No. 238,516. PUBLISHED DECEMBER 13, 1927. Class 4.

239,527. ROPE, TWINE, AND CORDAGE OF VEGETABLE FIBER. COLUMBIAN ROPE COMPANY, Auburn, N. Y.
Filed October 15, 1926. Serial No. 238,639. PUBLISHED DECEMBER 27, 1927. Class 7.

239,528. CERTAIN PUBLICATIONS. GERALD B. WADSWORTH, Freeport, N. Y.
Filed October 19, 1926. Serial No. 238,881. PUBLISHED DECEMBER 6, 1927. Class 38.

239,529. MAGAZINE PUBLISHED MONTHLY. EUGENE SWARZWALD, Los Angeles, Calif.
Filed October 26, 1926. Serial No. 239,275. PUBLISHED DECEMBER 27, 1927. Class 38.

239,530. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed November 16, 1927. Serial No. 257,641. PUBLISHED DECEMBER 27, 1927. Class 37.

239,531. TOILET PAPER. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed November 7, 1927. Serial No. 257,155. PUBLISHED DECEMBER 27, 1927. Class 37.

239,532. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET, FACE CREAM, ROUGE, BRILLIANTINE, AND BATH SALTS. CADOLLE FRERES (SOCIETE A RESPONSABILITE LIMITEE), Paris, France.
Filed November 4, 1927. Serial No. 257,048. PUBLISHED DECEMBER 20, 1927. Class 6.

239,533. COTTON PIECE GOODS. THE BURY QUILTING MANUFACTURING COMPANY LIMITED, Manchester, England.
Filed October 29, 1927. Serial No. 256,763. PUBLISHED DECEMBER 27, 1927. Class 42.

239,534. CAMEL'S-HAIR FABRICS. LYNX CORPORATION, New York, N. Y.
Filed October 28, 1927. Serial No. 256,733. PUBLISHED DECEMBER 20, 1927. Class 42.

239,535. CAKE AND PASTRY FLOUR. CALVIN HOSMER, STOLTE CO., Boston, Mass.
Filed October 28, 1927. Serial No. 256,728. PUBLISHED DECEMBER 20, 1927. Class 46.

239,536. CAST-INGOT MOULDS AND CAST-METAL LADLES FOR HANDLING MOLTEN METAL. AMERICAN CAR AND FOUNDRY COMPANY, New York, N. Y.
Filed October 28, 1927. Serial No. 256,701. PUBLISHED DECEMBER 27, 1927. Class 23.

239,537. ANIMAL PRODUCTS—NAMELY, FERTILIZERS AND AGRICULTURAL CHEMICALS. CONSOLIDATED RENDERING COMPANY, doing business as Atlantic Packing Co., Boston, Mass.
Filed October 27, 1927. Serial No. 256,662. PUBLISHED DECEMBER 27, 1927. Class 10.

239,538. RIBBONS IN THE PIECE OR BOLTS. ARTHUR BRANDENSTEIN COMPANY, New York, N. Y.
Filed October 27, 1927. Serial No. 256,657. PUBLISHED DECEMBER 27, 1927. Class 42.

239,539. SANITARY NAPKINS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed October 26, 1927. Serial No. 256,631. PUBLISHED DECEMBER 20, 1927. Class 44.

239,540. CANNED GREEN-PEA SOUP, CONSOMMÉ SOUP, VEGETABLE-BEEF SOUP, MOCK-TURTLE SOUP, CELERY SOUP, AND OXTAIL SOUP, CANNED CAULIFLOWER, CANNED SALMON, CANNED CHICKEN, PASTRY FLOUR, CORN FLAKES. THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass.
Filed June 29, 1927. Serial No. 251,310. PUBLISHED DECEMBER 20, 1927. Class 46.

239,541. PREPARATIONS FOR WASHING, POLISHING, AND CLEANING NOBLE AND BASE METALS, LEATHER, GLASS, PORCELAIN, MARBLE, ETC. F. ROCHOW & CO. INC., New York, N. Y., and Houston, Tex.
Filed April 27, 1927. Serial No. 248,060. PUBLISHED DECEMBER 6, 1927. Class 4.

239,542. MOUTH WASHES. EDMANSON, BATES & COMPANY, LIMITED, Toronto, Ontario, Canada.
Filed May 5, 1927. Serial No. 248,481. PUBLISHED DECEMBER 20, 1927. Class 6.

239,543. BOYS' NECKTIES, SUITS, OVERALLS, WORK COATS, UNDERWEAR MADE OF TEXTILE FABRIC, HOSIERY, BELTS, AND CAPS. HAVENS-BLAIR-CARTLICH, Kansas City, Mo.
Filed May 7, 1927. Serial No. 248,635. PUBLISHED DECEMBER 20, 1927. Class 39.

239,544. STEEL SHAFTS FOR GOLF CLUBS. THE HORTON MANUFACTURING CO., Bristol, Conn.
Filed May 9, 1927. Serial No. 248,696. PUBLISHED DECEMBER 20, 1927. Class 22.

239,545. ASTHMA MEDICINE. LAWRENCE RYAN, doing business as Tickler's Manufacturing Company, Seattle, Wash.
Filed May 12, 1927. Serial No. 248,931. PUBLISHED DECEMBER 27, 1927. Class 6.

239,546. PYROXYLIN PRODUCTS CONSISTING OF HAIR RECEIVERS, PUFF BOXES, SOAP BOXES, TRAYS, JEWEL CASES, BUD VASES, BOTTLE HOLDERS, AND PORTABLE TOOTHBRUSH CASES, SALVE JARS, AND CREAM JARS. DELETREZ OF FRANCE, INC., New York, N. Y.
Filed May 12, 1927. Serial No. 248,882. PUBLISHED DECEMBER 27, 1927. Class 2.

239,547. STEAM HEATING APPARATUS COMPRISING TRAPS, VALVES, SEPARATORS, STRAINERS, VACUUM GOVERNORS, AIR ELIMINATORS, BALANCED CHECK DAMPERS, AIR VENTS, GAUGES, GAUGE BOARDS, PUMPS, VACCU VAPOR, RECEIVING TANKS, AND REGULATING DEVICES, ALL USED IN CONNECTION WITH AND FORMING PART OF HEATING SYSTEMS. C. A. DUNHAM COMPANY, Chicago, Ill.
Filed May 13, 1927. Serial No. 248,957. PUBLISHED DECEMBER 27, 1927. Class 34.

239,548. ASTHMA AND BRONCHIAL TABLETS. FRANK M. MURPHY, Fairmont, W. Va.
Filed June 3, 1927. Serial No. 249,981. PUBLISHED DECEMBER 27, 1927. Class 6.

239,549. MONTHLY MAGAZINE CONTAINING ADVERTISING-COPY SUGGESTION SERVICE. TEXTILE PUBLISHING COMPANY, New York, N. Y.
Filed June 3, 1927. Serial No. 250,004. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,550. MONTHLY PUBLICATION. NATIONAL RIFLE ASSOCIATION, Washington, D. C.
Filed June 6, 1927. Serial No. 250,092. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,551. FROZEN FISH. BRITISH COLUMBIA FISHING & PACKING COMPANY, LIMITED, Vancouver, British Columbia, Canada.
Filed June 13, 1927. Serial No. 250,434. PUBLISHED DECEMBER 27, 1927. Class 46.

239,552. MEDICINAL PILLS FOR RELIEF OF COLDS IN HEAD, CHEST PAINS, HEADACHES, LA GRIPPE, AND KINDRED AFFECTIONS FOR DOMESTIC USE. PAUL W. GRETHER, St. Louis, Mo.
Filed June 13, 1927. Serial No. 250,448. PUBLISHED DECEMBER 20, 1927. Class 6.

239,553. MEN'S, WOMEN'S, AND CHILDREN'S OUTER GARMENTS—NAMELY, COATS. WILLIAM DAGILAS, doing business as Beacon Coat Mfg. Co., Boston, Mass.
Filed June 14, 1927. Serial No. 250,490. PUBLISHED DECEMBER 20, 1927. Class 39.

239,554. TOY RAILWAYS AND CERTAIN-NAMED MECHANICAL TOYS. MOLINE PRESSED STEEL CO., East Moline, Ill.
Filed June 17, 1927. Serial No. 250,703. PUBLISHED DECEMBER 20, 1927. Class 22.

239,555. ELECTRICAL REFRIGERATING APPARATUS. HVID ICE MACHINE CORPORATION, Chicago, Ill.
Filed June 20, 1927. Serial No. 250,802. PUBLISHED DECEMBER 27, 1927. Class 31.

239,556. BLOOD TONIC AND LINIMENT FOR EXTERNAL APPLICATION FOR RHEUMATISM. MARTHA TAYLOR, McKeesport, Pa.
Filed June 24, 1927. Serial No. 251,086. PUBLISHED DECEMBER 27, 1927. Class 6.

239,557. HOSIERY. WILLIAM GOLDEN, Oak Park, Ill.
Filed June 25, 1927. Serial No. 251,186. PUBLISHED DECEMBER 20, 1927. Class 39.

239,558. INSOLES. THE ELECTRIC APPLIANCE CO., Burlington, Kans.
Filed June 27, 1927. Serial No. 251,181. PUBLISHED DECEMBER 20, 1927. Class 39.

239,559. A MIXTURE OF RAISINS WITH SHELLLESS NUTS, AS FOR INSTANCE EITHER PECANS, ALMONDS, FILBERTS OR WALNUTS OR COMBINATIONS THEREOF, SALTED OR UNSALTED, PUT UP AS A DELICACY IN SMALL PACKAGES WHICH PREFERABLY HAVE ONE TRANSPARENT SIDE. SUN-GOODS COMPANY, Chicago, Ill.
Filed June 29, 1927. Serial No. 251,309. PUBLISHED DECEMBER 13, 1927. Class 46.

239,560. CREPE PAPER FOR DECORATIVE PURPOSES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 10, 1927. Serial No. 257,384. PUBLISHED DECEMBER 27, 1927. Class 37.

239,561. INDEX, PASTED, AND WEDDING BRISTOLS, BOND, LEDGER, AND WEDDING PAPERS. B. D. RISING PAPER COMPANY, Housatonic, Mass.
Filed November 9, 1927. Serial No. 257,313. PUBLISHED DECEMBER 27, 1927. Class 37.

239,562. TABLES AND CHAIRS FOR HOUSEHOLD AND OFFICE USE, BOOKCASES, CABINETS, DESKS, DRESSING TABLES, CEDAR CHESTS, CHESTS OF DRAWERS, COUCHES, SIDEBOARDS, TOBACCO AND MAGAZINE STANDS; PORCH FURNITURE—NAMELY, TABLES, SETTEES, AND CHAIRS. FRANKL GALLERIES, New York, N. Y.
Filed August 8, 1927. Serial No. 252,953. PUBLISHED DECEMBER 27, 1927. Class 32.

239,563. SERIES OF NEWSPAPER ARTICLES. WILL T. GENTZ, Hollywood, Calif.
Filed August 2, 1927. Serial No. 252,901. PUBLISHED DECEMBER 13, 1927. Class 38.

239,564. SPRAYERS, SPRAY PUMPS, AND POWDER DUSTERS. D. B. SMITH & COMPANY, INC., Utica, N. Y.
Filed August 1, 1927. Serial No. 252,866. PUBLISHED DECEMBER 27, 1927. Class 23.

239,565. MALT-EXTRACT POWDER FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed July 30, 1927. Serial No. 252,796. PUBLISHED DECEMBER 20, 1927. Class 46.

239,566. MALT-EXTRACT POWDER FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed July 30, 1927. Serial No. 252,795. PUBLISHED DECEMBER 20, 1927. Class 46.

239,567. PHOTOGRAPHIC PRINTS. ALFRED G. MOMBURG, doing business as Michigan Photo Company, Bay City, Mich.
Filed July 30, 1927. Serial No. 252,781. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,568. DEODORIZING BLOCS. THE C. B. DOLGE CO., Westport, Conn.
Filed July 29, 1927. Serial No. 252,698. PUBLISHED DECEMBER 27, 1927. Class 6.

239,569. MONTHLY PUBLICATION. CORRECT PRINTING COMPANY, New York, N. Y.
Filed July 29, 1927. Serial No. 252,689. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,570. CONFECTION CONSISTING OF MARSHMALLOW AND ICE CREAM IN CAKE FORM. H. HALSTED AND E. KAUFMAN, Buffalo, N. Y.
Filed July 27, 1927. Serial No. 252,599. PUBLISHED DECEMBER 20, 1927. Class 46.

239,571. DEHYDRATED FRUITS AND VEGETABLES. DOCTOR A. E. GOULD, INC., San Francisco, Calif.
Filed July 27, 1927. Serial No. 252,598. PUBLISHED DECEMBER 27, 1927. Class 46.

239,572. LADIES' AND MISSES' HATS. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill.
Filed July 26, 1927. Serial No. 252,549. PUBLISHED DECEMBER 20, 1927. Class 39.

239,573. TREATED DUST CLOTHS. CHARLES STEPHEN CONLON, doing business as The Wunda Wiper Company, Portsmouth, N. H.
Filed July 26, 1927. Serial No. 252,548. PUBLISHED DECEMBER 27, 1927. Class 4.

239,574. CLEANERS FOR FIREARMS. DUNCAN C. HOOKER, doing business as The Hooker Manufacturing Company, Hartford, Conn.
Filed July 25, 1927. Serial No. 252,509. PUBLISHED DECEMBER 13, 1927. Class 9.

239,575. NEAR BEER. AMERICAN BREWING CO. OF ROCHESTER, N. Y. INC., Rochester, N. Y.
Filed July 23, 1927. Serial No. 252,454. PUBLISHED DECEMBER 27, 1927. Class 48.

239,576. PNEUMATIC TIRES INCLUDING INNER TUBES AND CASINGS. MICHELIN ET CIE., Clermont-Ferrand (Puy-De-Dome), France.
Filed July 16, 1927. Serial No. 252,163. PUBLISHED DECEMBER 27, 1927. Class 35.

239,577. PNEUMATIC TIRES INCLUDING INNER TUBES AND CASINGS. MICHELIN ET CIE., Clermont-Ferrand (Puy-De-Dome), France.
Filed July 16, 1927. Serial No. 252,162. PUBLISHED DECEMBER 27, 1927. Class 35.

239,578. CERTAIN NAMED WEARING APPAREL. ABERCROMBIE & FITCH CO., INC., New York, N. Y.
Filed July 15, 1927. Serial No. 252,076. PUBLISHED DECEMBER 27, 1927. Class 39.

239,579. CERTAIN NAMED WEARING APPAREL. ABERCROMBIE & FITCH CO., INC., New York, N. Y.
Filed July 15, 1927. Serial No. 252,075. PUBLISHED DECEMBER 27, 1927. Class 39.

239,580. CERTAIN NAMED WEARING APPAREL. ABERCROMBIE & FITCH CO., INC., New York, N. Y.
Filed July 15, 1927. Serial No. 252,074. PUBLISHED DECEMBER 27, 1927. Class 39.

239,581. MEDICINAL PREPARATION FOR THE TREATMENT OF DISORDERS OF THE LIVER. LES ETABLISSEMENTS POULENC FRÈRES, Paris, France.
Filed July 12, 1927. Serial No. 251,915. PUBLISHED DECEMBER 27, 1927. Class 6.

239,582. CERTAIN NAMED PIECE GOODS. SHERMAN & SONS COMPANY, New York, N. Y.
Filed July 9, 1927. Serial No. 251,795. PUBLISHED DECEMBER 13, 1927. Class 42.

239,583. LEATHER BOOTS AND SHOES. THE UNION SHOE MANUFACTURING COMPANY, Chillicothe, Ohio.
Filed September 30, 1927. Serial No. 255,474. PUBLISHED DECEMBER 27, 1927. Class 39.

239,584. TAPE FOR BINDING THE PLAIN AND UNSECURED EDGES OF ANY MATERIAL AND ARTICLES, INCLUDING BOOTS AND SHOES. EDWARD P. MERRIAM, doing business as M. H. Merriam & Company, Lexington, Mass.
Filed September 28, 1927. Serial No. 255,344. PUBLISHED DECEMBER 20, 1927. Class 40.

239,585. GLOVES OF LEATHER AND TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN. FERNAND LEBBE, Brussels, Belgium.
Filed September 27, 1927. Serial No. 255,310. PUBLISHED DECEMBER 27, 1927. Class 39.

239,586. ASTRINGENTS, BLEACH CREAMS, BEAUTY CREAMS, FACE POWDERS, ETC. LIGHTFOOT SCHULTZ COMPANY, doing business as Mordaunt, Hoboken, N. J.
Filed September 24, 1927. Serial No. 255,183. PUBLISHED DECEMBER 27, 1927. Class 6.

239,587. OINTMENT FOR USE IN THE TREATMENT OF PILES AND WARTS. MATTHEW H. LIVINGSTONE, New York, N. Y.
Filed September 23, 1927. Serial No. 255,116. PUBLISHED DECEMBER 27, 1927. Class 6.

239,588. HATBANDS. WICK NARROW FABRIC COMPANY, Philadelphia, Pa.
Filed September 22, 1927. Serial No. 255,083. PUBLISHED DECEMBER 20, 1927. Class 40.

239,589. MEN'S, WOMEN'S, YOUTHS', BOYS', MISSES', AND CHILDREN'S BOOTS AND SHOES OF RUBBER OR RUBBER AND LEATHER. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed September 22, 1927. Serial No. 255,081. PUBLISHED DECEMBER 20, 1927. Class 39.

239,590. CREAMLIKE MEDICINAL PREPARATION FOR REMOVING DANDRUFF AND FOR TREATING ECZEMA AND SKIN DISEASES. MATILDA NELLIE BERGLOF, doing business as Nellie's Beauty Parlor, Minneapolis, Minn.
Filed September 19, 1927. Serial No. 254,888. PUBLISHED DECEMBER 20, 1927. Class 6.

239,591. SALTS. PAUL SPIELHAGEN, doing business as A. W. and C. W. Bullrich, Berlin, Germany.
Filed September 15, 1927. Serial No. 254,767. PUBLISHED DECEMBER 27, 1927. Class 6.

239,592. DEPILATORY IN PASTE FORM. WILLIAM S. CARTER, doing business as Carter Company, New York, N. Y.
Filed September 13, 1927. Serial No. 254,607. PUBLISHED DECEMBER 20, 1927. Class 6.

239,593. ALBUSOL, A SOLUTION OF EGG ALBUMIN EMPLOYED IN THE PROCESSES OF PHOTO-ENGRAVING AND PHOTOLITHOGRAPHY. MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo.
Filed September 12, 1927. Serial No. 254,638. PUBLISHED DECEMBER 20, 1927. Class 6.

239,594. BOOTS AND SHOES OF LEATHER, CANVAS, AND OTHER FABRICS. HERMETITE CORPORATION, New York, N. Y.
Filed September 8, 1927. Serial No. 254,490. PUBLISHED DECEMBER 27, 1927. Class 39.

239,595. LADIES' UNDERGARMENTS — NAMELY, SLIPS, ENVELOPE CHEMISES, NIGHTGOWNS, STEP-INS, PRINCESS SLIPS, PAJAMAS, BLOOMERS, PETTICOATS, NEGLIGEES, AND BRASSIÈRES MADE OF SILK SUCH AS CREPE DE CHINE, RADIUM, AND SIMILAR TEXTILE FABRICS. MORRIS KLUGMAN, Los Angeles, Calif.
Filed September 7, 1927. Serial No. 254,459. PUBLISHED DECEMBER 20, 1927. Class 39.

239,596. PERFUMES AND TOILET WATERS. ALICE CHOQUET, Paris, France.
Filed August 31, 1927. Serial No. 254,172. PUBLISHED DECEMBER 27, 1927. Class 6.

239,597. BOB COVER IN THE NATURE OF A BARRETTE NOT MANUFACTURED FROM PRECIOUS METAL. GUSTAV SATTLER, New York, N. Y.
Filed August 18, 1927. Serial No. 253,668. PUBLISHED DECEMBER 20, 1927. Class 40.

239,598. HAIRPINS NOT MADE OF PRECIOUS METAL. EDWARD I. VEITCH, doing business as The Vogue Pin Company, Oakland, Calif.
Filed August 10, 1927. Serial No. 253,299. PUBLISHED DECEMBER 27, 1927. Class 40.

239,599. PLAYING CARDS. BROWN & BIGELOW, St. Paul, Minn.
Filed October 22, 1927. Serial No. 256,447. PUBLISHED DECEMBER 13, 1927. Class 22.

239,600. MEN'S AND BOYS' SUITS—NAMELY, COATS, VESTS, AND TROUSERS—AND OVERCOATS. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed October 21, 1927. Serial No. 256,423. PUBLISHED DECEMBER 27, 1927. Class 39.

239,601. MEN'S AND BOYS' SUITS—NAMELY, COATS, VESTS, AND TROUSERS AND OVERCOATS. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed October 21, 1927. Serial No. 256,422. PUBLISHED DECEMBER 27, 1927. Class 39.

239,602. MEN'S AND BOYS' SUITS—NAMELY, COATS, VESTS, AND TROUSERS AND OVERCOATS. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed October 21, 1927. Serial No. 256,421. PUBLISHED DECEMBER 27, 1927. Class 39.

239,603. BOYS' AND MEN'S CLOTHING—VIZ, BLOUSES AND DRESS, NEGLIGEE, AND WORK SHIRTS OF TEXTILE FABRIC. THE SHIRTCRAFT COMPANY, INC., New York, N. Y.
Filed October 20, 1927. Serial No. 256,380. PUBLISHED DECEMBER 27, 1927. Class 39.

239,604. BOYS' AND MEN'S CLOTHING—VIZ, BLOUSES AND DRESS, NEGLIGEE, AND WORK SHIRTS OF TEXTILE FABRIC. THE SHIRTCRAFT COMPANY, INC., New York, N. Y.
Filed October 20, 1927. Serial No. 256,379. PUBLISHED DECEMBER 27, 1927. Class 39.

239,605. A CARD GAME. PARKER BROTHERS INC., Portland, Me., and Salem, Mass.
Filed October 20, 1927. Serial No. 256,370. PUBLISHED DECEMBER 20, 1927. Class 22.

239,606. WOMEN'S HOSIERY. HARRINGTON AND WARING, New York, N. Y.
Filed October 17, 1927. Serial No. 256,188. PUBLISHED DECEMBER 20, 1927. Class 39.

239,607. WOMEN'S POWDER PUFFS. JACIEL PERFUMERS, INC., New York, N. Y.
Filed October 15, 1927. Serial No. 256,124. PUBLISHED DECEMBER 20, 1927. Class 29.

239,608. LADIES' AND MISSES' DRESSES, SUITS, AND COATS. THE W. L. MILNER COMPANY, Toledo, Ohio.
Filed October 10, 1927. Serial No. 255,857. PUBLISHED DECEMBER 20, 1927. Class 39.

239,609. SHAVING BRUSHES. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed October 8, 1927. Serial No. 255,785. PUBLISHED DECEMBER 20, 1927. Class 29.

239,610. WIRE, SHEETS, TUBES, RODS, AND SPECIAL SHAPES AND INGOTS MADE OF BRONZE. THE AMERICAN BRASS COMPANY, Waterbury, Conn.
Filed October 7, 1927. Serial No. 255,734. PUBLISHED DECEMBER 20, 1927. Class 14.

239,611. WOMEN'S AND CHILDREN'S DRESSES, APRONS, KNITTED AND TEXTILE UNDERWEAR, AND NURSES' UNIFORMS AND COATS. GOLDIE MAID GARMENT COMPANY, Los Angeles, Calif.
Filed October 1, 1927. Serial No. 255,508. PUBLISHED DECEMBER 27, 1927. Class 39.

239,612. MEN'S SUITS AND OVERCOATS AND YOUTHS' SUITS AND OVERCOATS. TRU CRAFT CLOTHES, INC., New York, N. Y.
Filed September 23, 1927. Serial No. 255,098. PUBLISHED DECEMBER 27, 1927. Class 39.

239,613. HOSIERY AND MEN'S, WOMEN'S, AND CHILDREN'S KNITTED AND TEXTILE FABRIC UNDERWEAR. GOLD HOSIERY COMPANY, New York, N. Y.
Filed September 22, 1927. Serial No. 255,061. PUBLISHED DECEMBER 27, 1927. Class 39.

239,614. DRY-POLISHING BRUSH FOR CLEANING WINDOWS, FURNITURE, AND AUTOMOBILES. THE MAGIC BRUSH, INC., New York, N. Y.
Filed September 20, 1927. Serial No. 254,970. PUBLISHED DECEMBER 20, 1927. Class 29.

239,615. CERTAIN NAMED WEARING APPAREL. MASON AND CARPENTER, Los Angeles, Calif.
Filed September 17, 1927. Serial No. 254,857. PUBLISHED DECEMBER 27, 1927. Class 39.

239,616. LADIES' FUR COATS. A. & B. KASS, New York, N. Y.
Filed September 12, 1927. Serial No. 254,636. PUBLISHED DECEMBER 27, 1927. Class 39.

239,617. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed November 17, 1927. Serial No. 257,661. PUBLISHED DECEMBER 27, 1927. Class 42.

239,618. CARBURETORS. CARTER CARBURETOR CORPORATION, St. Louis, Mo.
Filed November 17, 1927. Serial No. 257,660. PUBLISHED DECEMBER 27, 1927. Class 23.

239,619. SILK PIECE GOODS. EMPIRE SILK CO., New York, N. Y.
Filed November 16, 1927. Serial No. 257,620. PUBLISHED DECEMBER 27, 1927. Class 42.

239,620. CERTAIN NAMED PIECE GOODS. GOSSETT DYEING & FINISHING CO., New York, N. Y.
Filed November 15, 1927. Serial No. 257,577. PUBLISHED DECEMBER 20, 1927. Class 42.

239,621. WHEAT FLOUR. THE FREMONT MILLS, Fremont, Nebr.
Filed November 10, 1927. Serial No. 257,355. PUBLISHED DECEMBER 20, 1927. Class 46.

239,622. CIGARETTE CASES. AMITY LEATHER PRODUCTS CO., West Bend, Wis.
Filed November 10, 1927. Serial No. 257,332. PUBLISHED DECEMBER 20, 1927. Class 8.

239,623. PIECE GOODS OF WOOL, COTTON, AND SILK AND MIXTURES OF THE SAME. SOCIÉTÉ A RESPONSABILITÉ LIMITÉE "RODIER," Paris, France.
Filed November 4, 1927. Serial No. 257,083. PUBLISHED DECEMBER 13, 1927. Class 42.

239,624. SILK PIECE GOODS, SILKS AND METAL AND VELVETS AND METAL IN THE PIECE. COUDURIER, FRUCTUS & DESCHER, Lyon, France.
Filed November 4, 1927. Serial No. 257,053. PUBLISHED DECEMBER 13, 1927. Class 42.

239,625. SILK PIECE GOODS, SILKS AND METAL AND VELVETS AND METAL IN THE PIECE. COUDURIER, FRUCTUS & DESCHER, Lyon, France.
Filed November 4, 1927. Serial No. 257,052. PUBLISHED DECEMBER 13, 1927. Class 42.

239,626. BAG-FRAME LOCKS, PURSE-FRAME LOCKS, AND POCKETBOOK-FRAME LOCKS. J. E. MERGOTT COMPANY, Newark, N. J.
Filed November 3, 1927. Serial No. 257,018. PUBLISHED DECEMBER 27, 1927. Class 25.

239,627. PUMPS. KINNEY MANUFACTURING CO., Boston and Jamaica Plain, Boston, Mass.
Filed November 3, 1927. Serial No. 257,016. PUBLISHED DECEMBER 27, 1927. Class 23.

239,628. ASH RECEIVERS OF NONPRECIOUS METAL. SMOKADOR MANUFACTURING CO., INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,889. PUBLISHED DECEMBER 13, 1927. Class 8.

239,629. TYPEWRITER RIBBONS. L C SMITH & CORONA TYPEWRITERS INC., Syracuse, N. Y.
Filed November 1, 1927. Serial No. 256,888. PUBLISHED DECEMBER 27, 1927. Class 11.

239,630. VEHICLE WHEELS. WHITEHEAD & KALES COMPANY, River Rouge, Mich.
Filed October 31, 1927. Serial No. 256,848. PUBLISHED DECEMBER 27, 1927. Class 19.

239,631. CREAM SEPARATORS. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill.
Filed October 31, 1927. Serial No. 256,829. PUBLISHED DECEMBER 27, 1927. Class 23.

239,632. CRUISERS, LAUNCHES, SPEED BOATS, AND OTHER POWER BOATS. CHRYSLER AND COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,808. PUBLISHED DECEMBER 27, 1927. Class 19.

239,633. FRICTIONALLY-OPERATED PYROPHORIC CIGAR LIGHTERS. STANDARD DEVICES INC., New York, N. Y.
Filed October 29, 1927. Serial No. 256,795. PUBLISHED DECEMBER 27, 1927. Class 34.

239,634. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed November 16, 1927. Serial No. 257,642. PUBLISHED DECEMBER 27, 1927. Class 37.

239,635. CANDY. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio.
Filed November 11, 1927. Serial No. 257,425. PUBLISHED DECEMBER 27, 1927. Class 46.

239,636. CANDY. QUAKER CITY CHOCOLATE & CONFECTIONERY COMPANY, Philadelphia, Pa.
Filed November 2, 1927. Serial No. 256,967. PUBLISHED DECEMBER 27, 1927. Class 46.

239,637. FUDGE. PAUL C. RADER, doing business as The Chummy Chew Company, Jacksonville, Fla.
Filed October 28, 1927. Serial No. 256,745. PUBLISHED DECEMBER 27, 1927. Class 46.

239,638. PERIODICALS PUBLISHED MONTHLY. PERSONAL ARTS COMPANY, Scranton, Pa.
Filed October 28, 1927. Serial No. 256,743. PUBLISHED DECEMBER 20, 1927. Class 38.

239,639. FOODS FOR INVALIDS AND CHILDREN. NUMOL, LIMITED, Newcastle-on-Tyne, England.
Filed October 28, 1927. Serial No. 256,740. PUBLISHED DECEMBER 20, 1927. Class 46.

239,640. CANNED TAMALES. GASTON J. TAIX, doing business as Taix Tamales Co., San Diego, Calif.
Filed October 27, 1927. Serial No. 256,696. PUBLISHED DECEMBER 27, 1927. Class 46.

239,641. WEEKLY PUBLICATION. JEWISH ADVOCATE PUBLISHING CO., Boston, Mass.
Filed October 27, 1927. Serial No. 256,674. PUBLISHED DECEMBER 13, 1927. Class 38.

239,642. PERIODICAL PUBLICATION. THE BURDICK CORPORATION, Milton, Wis.
Filed October 27, 1927. Serial No. 256,658. PUBLISHED DECEMBER 13, 1927. Class 38.

239,643. MAGAZINE ISSUED MONTHLY. THE CONSTRUCTOR, INCORPORATED, Washington, D. C.
Filed October 26, 1927. Serial No. 256,607. PUBLISHED DECEMBER 13, 1927. Class 38.

239,644. MONTHLY PERIODICAL. YONKERS FAMILY LAUNDRY SERVICE CORPORATION, Yonkers, N. Y.
Filed October 25, 1927. Serial No. 256,590. PUBLISHED DECEMBER 13, 1927. Class 38.

239,645. MAGAZINES PUBLISHED EVERY MONTH. "2-O" PUBLISHING COMPANY, San Francisco, Calif.
Filed October 25, 1927. Serial No. 256,592. PUBLISHED DECEMBER 13, 1927. Class 38.

239,646. CERTAIN FASHION STRIP AND CARTOON. STANDARD PUBLISHING COMPANY, Chicago, Ill.
Filed October 22, 1927. Serial No. 256,493. PUBLISHED DECEMBER 13, 1927. Class 38.

239,647. CERTAIN CHINAWARE, PORCELAIN, AND EARTHENWARE. LENOX, INCORPORATED, Trenton, N. J.
Filed April 20, 1927. Serial No. 247,743. PUBLISHED DECEMBER 27, 1927. Class 30.

239,648. COTTON PONGEE IN THE PIECE. THE CONVERTEX CORPORATION, New York, N. Y.
Filed March 30, 1927. Serial No. 246,599. PUBLISHED DECEMBER 27, 1927. Class 42.

239,649. SWIMMING FLOATS, MEDICINE BALLS, FISHING REELS, PUNCHING BAGS, ETC. M. E. BLATT CO., Atlantic City, N. J.
Filed March 21, 1927. Serial No. 246,070. PUBLISHED DECEMBER 20, 1927. Class 22.

239,650. SUITS, OVERCOATS, COATS, ETC. M. E. BLATT CO., Atlantic City, N. J.
Filed March 21, 1927. Serial No. 246,067. PUBLISHED DECEMBER 20, 1927. Class 39.

239,651. BOYS' AND CHILDREN'S CLOTHES—VIZ, SUITS, TOP COATS, OVERCOATS, HATS, CAPS, AND PANTS; GIRLS' DRESSES, INFANTS' COATS AND HATS, AND JUVENILE SUITS, TOPCOATS; OVERCOATS, AND PLAY SUITS. THE BIG STORE CO., Cincinnati, Ohio.
Filed March 19, 1927. Serial No. 246,012. PUBLISHED DECEMBER 27, 1927. Class 39.

239,652. GARBANZOS AND GARBANZO FLOUR, GARBANZO MEAL, GARBANZO BRAN, GARBANZO GRITS, CANNED GARBANZOS IN TOMATO SAUCE, CANNED GARBANZOS IN CHILI, AND BOILED CANNED GARBANZOS. GUY BOSCHKE, Los Angeles, Calif.
Filed March 15, 1927. Serial No. 245,779. PUBLISHED DECEMBER 27, 1927. Class 46.

239,653. CANNED GARBANZOS—NAMELY, GARBANZOS WITH SPICED TOMATO SAUCE. GUY BOSCHKE, Los Angeles, Calif.
Filed March 15, 1927. Serial No. 245,778. PUBLISHED DECEMBER 27, 1927. Class 46.

239,654. HARD FIBRE TWINE AND CORDAGE FOR WRAPPING LATH AND THE LIKE. THE PORTLAND CORDAGE CO., Portland, Oreg.
Filed August 18, 1927. Serial No. 253,659. PUBLISHED NOVEMBER 15, 1927. Class 7.

239,655. MUSIC SHEETS AND MUSIC BOOKS. JOHN J. ALMANZO, Brooklyn, N. Y.
Filed February 24, 1927. Serial No. 244,809. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,656. UNFINISHED METAL CASTINGS FOR AUTOMOTIVE VEHICLES, ETC. HUNT-SPILLER MANUFACTURING CORPORATION, Boston, Mass.
Filed February 11, 1927. Serial Nos. 244,230. PUBLISHED DECEMBER 20, 1927. Class 14.

239,657. CANDY CONFECTION MADE UP IN PART OF PEPPERMINT CANDY IN THE FORM OF AN EAR OF CORN. AUGUST O. ENGLUND, West Chester, Pa.
Filed February 8, 1927. Serial No. 244,007. PUBLISHED APRIL 12, 1927. Class 46.

239,658. CERTAIN NAMED WEARING APPAREL. J. J. GENTIL, G. M. B. H., Berlin, Germany.
Filed February 4, 1927. Serial No. 243,804. PUBLISHED DECEMBER 27, 1927. Class 39.

239,659. METAL POLISH IN PASTE FORM, CLEANER (IN POWDERED FORM FOR USE IN CLEANING WINDOWS AND AS A MILD SCOURING CLEANSER), CLEANSER (IN POWDERED FORM FOR USE AS A STRONGER CLEANING AGENT AND AS A REGULAR SCOURING CLEANSER), SOAP POWDER, SOAP CHIPS, AND SOAP. THE JOHN H. LOCK CO. INC., New York, N. Y.
Filed January 15, 1927. Serial No. 242,902. PUBLISHED DECEMBER 27, 1927. Class 4.

239,660. NECKTIES. GOISET ET CIE., doing business as R. Goiset et Cie., Paris, France.
Filed January 8, 1927. Serial No. 242,582. PUBLISHED DECEMBER 20, 1927. Class 39.

239,661. COTTON CLOTH IN THE PIECE—NAMELY, PIQUÉ AND BEDFORD CORD OF WALES STRUCTURE. BOOTT MILLS, Lowell, Mass.
Filed January 5, 1927. Serial No. 242,363. PUBLISHED DECEMBER 20, 1927. Class 42.

239,662. CHILLPROOF CARAMEL COLOR. WALLERSTEIN COMPANY, INC., New York, N. Y.
Filed January 3, 1927. Serial No. 242,323. PUBLISHED DECEMBER 20, 1927. Class 6.

239,663. GASOLINE AND MOTOR OILS AND GREASES. KESBEC SALES COMPANY, New York, N. Y.
Filed December 17, 1926. Serial No. 241,624. PUBLISHED DECEMBER 27, 1927. Class 15.

239,664. DRESS GOODS IN THE PIECE MADE OF RAYON AND COTTON. FRED BUTTERFIELD & CO. INC., New York, N. Y.
Filed December 8, 1926. Serial No. 241,182. PUBLISHED DECEMBER 13, 1927. Class 42.

239,665. AUTOMOBILE TIRE COVERS. THE BUTTONLESS TIRE COVER COMPANY, Canton, Ohio.
Filed November 24, 1926. Serial No. 240,527. PUBLISHED DECEMBER 27, 1927. Class 35.

239,666. ELECTRICALLY-OPERATED MECHANICAL REFRIGERATORS. KELVINATOR CORPORATION, Detroit, Mich., assignor to Electric Refrigeration Corporation, Detroit, Mich., a Corporation of Michigan.
Filed November 18, 1926. Serial No. 240,265. PUBLISHED DECEMBER 20, 1927. Class 31.

239,667. ELECTRICALLY-OPERATED MECHANICAL REFRIGERATORS. KELVINATOR CORPORATION, Detroit, Mich., assignor to Electric Refrigeration Corporation, Detroit, Mich., a Corporation of Michigan.
Filed November 18, 1926. Serial No. 240,264. PUBLISHED DECEMBER 20, 1927. Class 31.

239,668. PAJAMAS, DRESSES, MEN'S AND WOMEN'S UNDERWEAR OF KNITTED AND TEXTILE FABRICS, WOMEN'S AND GIRLS' CLOAKS AND COATS. BRADSHAW, Los Angeles, Calif.
Filed November 15, 1926. Serial No. 240,060. PUBLISHED DECEMBER 27, 1927. Class 39.

239,669. MONTHLY PERIODICAL. BALLOU-WANZER INC., Chicago, Ill.
Filed November 4, 1926. Serial No. 239,635. PUBLISHED DECEMBER 27, 1927. Class 38.

239,670. CERTAIN NAMED PIECE GOODS. ARTHUR BEIR & CO. INC., New York, N. Y.
Filed November 2, 1926. Serial No. 239,563. PUBLISHED DECEMBER 27, 1927. Class 42.

239,671. CERTAIN NAMED PIECE GOODS. ARTHUR BEIR & CO. INC., New York, N. Y.
Filed November 2, 1926. Serial No. 239,562. PUBLISHED DECEMBER 27, 1927. Class 42.

239,672. LEATHER SHOES. GROVES & ROOD, Chicago, Ill.
Filed October 30, 1926. Serial No. 239,472. PUBLISHED DECEMBER 20, 1927. Class 39.

239,673. LEATHER SHOES. GROVES & ROOD, Chicago, Ill.
Filed October 30, 1926. Serial No. 239,471. PUBLISHED DECEMBER 20, 1927. Class 39.

239,674. SERIES OF ARTICLES. VELVA G. DARLING, San Luis Obispo, Calif.
Filed November 8, 1927. Serial No. 257,227. PUBLISHED DECEMBER 13, 1927. Class 38.

239,675. SERIES OF ARTICLES. VELVA G. DARLING, San Luis Obispo, Calif.
Filed November 8, 1927. Serial No. 257,226. PUBLISHED DECEMBER 13, 1927. Class 38.

239,676. COMIC STRIP. NEA SERVICE, INC., Cleveland, Ohio.
Filed November 4, 1927. Serial No. 257,076. PUBLISHED DECEMBER 13, 1927. Class 38.

239,677. NEWSPAPER CARTOONS. NEWSPAPER FEATURE SERVICE, INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,882. PUBLISHED DECEMBER 13, 1927. Class 38.

239,678. NEWSPAPER CARTOONS. NEWSPAPER FEATURE SERVICE, INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,881. PUBLISHED DECEMBER 13, 1927. Class 38.

239,679. HAND-CLEANING PREPARATION. THE DELETO COMPANY, Baltimore, Md.
Filed October 29, 1927. Serial No. 256,766. PUBLISHED DECEMBER 27, 1927. Class 4.

239,680. PAPRIKA. ANTHONY A. SAYIA, New York, N. Y.
Filed October 13, 1927. Serial No. 256,055. PUBLISHED DECEMBER 20, 1927. Class 46.

239,681. GRANULAR MINERAL MATTER, GRANULAR CRYSTALLINE MINERAL MATTER, GRANULAR INORGANIC COMPOUNDS OF IRON AND MAGNESIUM, IRON OXIDE, MAGNETITE, INORGANIC COMPOUNDS OF CALCIUM, GRANULAR CRYSTALLINE CALCIUM CARBONATE, AND CALCITE USED AS FILTERING MATERIAL. COCHRANE CORPORATION, Philadelphia, Pa.
Filed October 12, 1927. Serial No. 255,967. PUBLISHED DECEMBER 27, 1927. Class 31.

239,682. SHAVING CREAM IN THE FORM OF SOAP CREAM. STAR SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed October 8, 1927. Serial No. 255,829. PUBLISHED DECEMBER 20, 1927. Class 4.

239,683. ICE-CREAM CONFECTION. THE BREYER ICE CREAM COMPANY, Philadelphia, Pa.
Filed October 3, 1927. Serial No. 255,546. PUBLISHED DECEMBER 20, 1927. Class 46.

239,684. CARTOON STRIPS. WILLIAM M. CONSELMAN, Los Angeles, Calif.
Filed September 27, 1927. Serial No. 255,295. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,685. COMPOSITIONS FOR CLEANING PAINTED WOODWORK, FURNITURE, WALLS, CARPETS AND RUGS, OILCLOTH AND LINOLEUM, MARBLE, TILE, HEARTHS, KITCHEN UTENSILS, DISHES, GLASSWARE, CUTLERY, SILVER, BATHTUBS, BASINS, WINDOWS, MIRRORS, REFRIGERATORS, FLOORS; ALSO FOR CLEANING PANAMA HATS, BLANKETS, CLOTHES, AND AUTOMOBILES AND THE LIKE; AND IS ALSO USED AS A SOAP. WILLIAM A. BLAIR, doing business as Queen Cleaner Company, Winston-Salem, N. C.
Filed September 26, 1927. Serial No. 255,223. PUBLISHED DECEMBER 13, 1927. Class 4.

239,686. POWDERED SKIM MILK, EVAPORATED MILK, AND BUTTER. MILK PRODUCERS ASSOCIATION OF CENTRAL CALIFORNIA, Modesto and Stockton, Calif.
Filed September 17, 1927. Serial No. 254,859. PUBLISHED DECEMBER 20, 1927. Class 46.

239,687. PERIODICAL MAGAZINE. OLDMAN BROTHERS, New York, N. Y.
Filed September 15, 1927. Serial No. 254,764. PUBLISHED DECEMBER 6, 1927. Class 38.

239,688. A MONTHLY PERIODICAL BULLETIN. CONSOLIDATED GAS COMPANY OF NEW YORK, New York, N. Y.
Filed September 13, 1927. Serial No. 254,690. PUBLISHED DECEMBER 20, 1927. Class 38.

239,689. SHAVING CREAM TO BE USED BEFORE SHAVING. EDWARD D. BRUCE, doing business as Bruce Laboratories, Swarthmore, Pa.
Filed September 3, 1927. Serial No. 254,346. PUBLISHED DECEMBER 20, 1927. Class 4.

239,690. MONTHLY PUBLICATION. BRESKIN & CHARLTON PUBLISHING CORPORATION, New York, N. Y.
Filed August 25, 1927. Serial No. 253,936. PUBLISHED DECEMBER 20, 1927. Class 38.

239,691. MONTHLY PUBLICATION. EDWARD L. PRATT, Lemoore, Calif.
Filed August 19, 1927. Serial No. 253,708. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,692. MONTHLY TRADE MAGAZINE. MILLER FREEMAN, San Francisco, Calif.
Filed August 17, 1927. Serial No. 253,584. PUBLISHED DECEMBER 27, 1927. Class 38.

239,693. MONTHLY TRADE MAGAZINE. MILLER FREEMAN, San Francisco, Calif.
Filed August 17, 1927. Serial No. 253,583. PUBLISHED DECEMBER 27, 1927. Class 38.

239,694. DRESS, NEGLIGÉE, AND WORK SHIRTS AND PAJAMAS. LOUIS BASKIND & CO., INC., New York, N. Y.
Filed August 26, 1927. Serial No. 253,976. PUBLISHED DECEMBER 27, 1927. Class 39.

239,695. HOSIERY. MAY HOSIERY MILLS, New York, N. Y., and Burlington, N. C.
Filed August 23, 1927. Serial No. 253,851. PUBLISHED DECEMBER 27, 1927. Class 39.

239,696. FRENCH SHAMPOO. THE AYER COMPANY, Lowell, Mass.
Filed October 12, 1927. Serial No. 255,956. PUBLISHED DECEMBER 27, 1927. Class 6.

239,697. PREPARATION FOR THE TREATMENT OF LIVER COMPLAINTS. THE WELCO LABORATORIES, Coffeyville, Kans.
Filed October 11, 1927. Serial No. 255,947. PUBLISHED DECEMBER 27, 1927. Class 6.

239,698. LINIMENT FOR TREATING PAINS, SWELLINGS, STIFF JOINTS, AND RHEUMATISM. GRAYWOOD'S CHEMICAL COMPANY, Masontown, Pa.
Filed October 6, 1927. Serial No. 255,708. PUBLISHED DECEMBER 20, 1927. Class 6.

239,699. CHEMICAL PREPARATION CONSISTING OF POTASSIUM CRESYLATE, CRESYLIC ACID, PHENOL, ALCOHOL, AND BENZOL FOR SEPARATING WATER FROM OIL-WATER EMULSIONS OR PETROLEUM EMULSIONS. LOS ANGELES CHEMICAL COMPANY, Los Angeles, Calif.
Filed October 1, 1927. Serial No. 255,520. PUBLISHED DECEMBER 27, 1927. Class 6.

239,700. NONELECTRIC HAIR CURLERS. ANTON KRETSCHAN, doing business as Snappy Curler Co., Chicago, Ill.
Filed October 1, 1927. Serial No. 255,516. PUBLISHED DECEMBER 27, 1927. Class 40.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

239,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAY-VON ALLMEN SANITARY MILK COMPANY, INC., Louisville, Ky. Filed Dec. 22, 1926. Serial No. 241,823.

SWISS BRAND

Particular description of goods.—Butter, Milk, Cream, Buttermilk, Cultured Milk, Sweetened Condensed Skim Milk, Evaporated Milk, Condensed Buttermilk.
Claims use since 1915.

239,702. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MOX, INCORPORATED, Los Angeles, Calif. Filed Oct. 23, 1926. Serial No. 239,133.

MOX
INCORPORATED
The Builders Department Store

Particular description of goods.—Hardware and Plumbing and Steam-Fitting Supplies—Namely, Bathtubs and Lavatories, Toilets, Stationary Washtubs and Fittings, Wire Fencing, Nails; Shelf Hardware—Namely, Brackets; Builders' Hardware—Namely, Door Knobs, Strap Hinges.
Claims use since March, 1918.

239,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK L. RUCKER, Detroit, Mich. Filed Dec. 27, 1926. Serial No. 242,023.

HYDE PARK

Particular description of goods.—Malt Syrups.
Claims use since Sept. 1, 1925.

239,704. (CLASS 37. PAPER AND STATIONERY.) WORTENDYKE MANUFACTURING COMPANY, Richmond, Va. Filed Jan. 15, 1927. Serial No. 242,934.

EVERSTIK

Particular description of goods.—Gummed Paper Tape and Gummed Cloth Tape.
Claims use since December, 1921.

239,705. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAGER, CLARK & CO., New York, N. Y. Filed Jan. 19, 1927. Serial No. 243,049.

HYANNIS CRASH

Particular description of goods.—Woolen and Worsted Piece Goods.
Claims use since October, 1926.

239,706. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUNLAND LABORATORIES, INC., Los Angeles, Calif. Filed Apr. 30, 1927. Serial No. 248,262.

TWIN PACKET

Particular description of goods.—Hair Rinse, Shampoo.
Claims use since Jan. 27, 1927.

239,707. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) COMMONWEALTH BRASS CORPORATION, Detroit, Mich. Filed May 2, 1927. Serial No. 248,284.

LAVIGNE

Particular description of goods.—Metal Valves, Elbows, T's, and Crosses.
Claims use since January, 1908.

239,708. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHLORER DELICATESSEN CO. INC., Philadelphia, Pa. Filed Aug. 25, 1927. Serial No. 253,958.

Mifflin

Particular description of goods.—Canned Mincemeat, Chowchow, Sweet, Sour, and Mixed Pickles, Pimento and India Relishes, and a Relish Made of Assorted Vegetables, Sugar, Mustard, Spices, Turmeric, and Vinegar.
Claims use since Aug. 1, 1925.

239,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MONTICELLO LABORATORIES, Monticello, Ark. Filed Sept. 26, 1927. Serial No. 255,254.

NATURAL LUSTRE

Particular description of goods.—Hair Color Restorer and Tonic.
Claims use since Mar. 19, 1902.

239,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COHN-HOPKINS, INC., San Diego, Calif. Filed Nov. 19, 1927. Serial No. 257,786.

"CHOICE of the SEA"

Particular description of goods.—Canned Tuna Fish and Canned Sardines.
Claims use since 1928.

239,711. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROYAL TEXTILE COMPANY, Boston, Mass. Filed Dec. 29, 1927. Serial No. 259,462.

VELOURETTE

Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 15, 1926.

239,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS H. RUDIN, doing business as The Rud-Ell Drug Products Co., Buffalo, N. Y. Filed Dec. 30, 1927. Serial No. 259,504.

EVER-SAFE

Particular description of goods.—Prophylactic.
Claims use since Oct. 27, 1924.

239,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) V. QUARTARARO, INC., Brooklyn, N. Y. Filed Dec. 31, 1927. Serial No. 259,577.

QUARTARARO

Particular description of goods.—Olive Oil.
Claims use since May 16, 1923.

TRADE-MARK REGISTRATIONS RENEWED

30,728. CANNED OR PRESERVED EDIBLES. Registered October 19, 1897. WM. NUMSEN & SONS, INC., Baltimore, Md., a Corporation of West Virginia. Renewed October 19, 1927.

30,887. OYSTERS, MEATS, FRUITS, VEGETABLES, JELLIES, PRESERVES, SOUPS, AND SUCH LIKE GOODS USUALLY PUT UP BY FOOD PACKERS, EXCEPT FISH. Registered November 23, 1897. WM. NUMSEN & SONS, INC., Baltimore, Md., a Corporation of West Virginia. Renewed November 23, 1927.

62,026. PORT WINE. Registered April 16, 1907. OFFLEY, FORRESTER & CO., London, England. Renewed April 16, 1927, to Offley, Forrester Limitada, Vila Nova de Gaia, Portugal, a Corporation of Portugal, assignee by mesne assignments.

65,573. BREATH TABLETS. Registered October 8, 1907. SCHANDEIN & LIND. Renewed October 8, 1927, to Schandein & Lind Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

66,941. FERTILIZERS. Registered January 7, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed January 7, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

67,115. STEEL AND IRON. Registered January 14, 1908. JONAS & COLVER, LIMITED. Renewed January 14, 1928, to Jonas & Colver, Limited, Sheffield, England, a Corporation of Great Britain, assignee.

67,342. OIL LAMPS. Registered January 28, 1908. STANDARD OIL CO. OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed January 28, 1928.

67,343. OIL LAMPS. Registered January 28, 1908. STANDARD OIL CO. OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed January 28, 1928.

67,482. CANNED SALMON. Registered February 4, 1908. NORTHWESTERN FISHERIES COMPANY, Seattle, Wash. Renewed February 4, 1928, to Booth Fisheries Company, Chicago, Ill., a Corporation of Delaware, assignee.

67,702. CREWEL NEEDLES FOR HAND SEWING. Registered February 18, 1908. THOS. HARPER & SONS, LTD., London, England. Renewed February 18, 1928, to Thomas Harper & Sons, Limited, Redditch, England, a Corporation of Great Britain.

67,746. BROAD SILKS. Registered February 18, 1908. M. C. MIGEL & Co. Renewed February 18, 1928, to H. R. Mallinson & Co. Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

67,748. BROAD SILKS. Registered February 18, 1908. M. C. MIGEL & Co. Renewed February 18, 1928, to H. R. Mallinson & Co. Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

67,846. LEATHER BOOTS AND SHOES. Registered February 18, 1908. WALTON AND LOGAN COMPANY, Lynn, Mass. Renewed February 18, 1928, to A. G. Walton & Co., Incorporated, Boston, Mass., a Corporation of Massachusetts, successor.

67,972. REMEDIES FOR CONSTIPATION. Registered March 3, 1908. JULIUS GRÜNTHAL, Berlin, Germany. Renewed March 3, 1928, to Lingner-Werke Aktiengesellschaft, Dresden, Germany, a Corporation of Germany, assignee.

68,101. FERTILIZERS. Registered March 10, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed March 10, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

68,119. CERTAIN TOILET PREPARATIONS. Registered March 10, 1908. GEORGE A. SCHMIDT COMPANY. Renewed March 10, 1928, to Geo. A. Schmidt & Co., Chicago, Ill., assignee.

68,429. COFFEE. Registered April 7, 1908. SEVEN DAY COFFEE COMPANY, New York, N. Y. Renewed April 7, 1928.

68,431. HAND SEWING NEEDLES AND KNITTING NEEDLES. Registered April 7, 1908. THOMAS HARPER & SONS LD., London, England. Renewed April 7, 1928, to Thomas Harper & Sons, Limited, Redditch, England, a Corporation of Great Britain.

68,457. A CERTAIN PHOSPHATE FERTILIZER. Registered April 7, 1908. THE READ PHOSPHATE COMPANY, Nashville, Tenn., a Corporation of West Virginia. Renewed April 7, 1928.

68,576. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 14, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 14, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,579. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 14, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 14, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,679. PAPER BAGS. Registered April 21, 1908. THE UNION BAG & PAPER COMPANY, New York, N. Y. Renewed April 21, 1928, to Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

68,697. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 21, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 21, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,698. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 21, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 21, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,699. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 21, 1908. PEPPERELL MANUFACTURING CO., Biddeford Me. Renewed April 21, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,845. CERTAIN DENTAL INSTRUMENTS, MACHINES, AND SUPPLIES. Registered April 28, 1908. THE S. S. WHITE DENTAL MFG. CO., Philadelphia, Pa.; Chicago, Ill.; New York, Brooklyn, and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; New Orleans, La.; Toronto, Canada; Buenos Ayres, Argentina; Berlin, Germany; and St. Petersburg, Russia. Renewed April 28, 1928, to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania.

68,846. A CRYSTALLINE GOLD TOOTH FILLING. Registered April 28, 1908. THE S. S. WHITE DENTAL MFG. CO., Philadelphia, Pa.; Chicago, Ill.; New York, Brooklyn, and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; New Orleans, La.; Toronto, Canada; Buenos Ayres, Argentina; Berlin, Germany; and St. Petersburg, Russia. Renewed April 28, 1928, to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania.

69,018. COFFEE. Registered May 12, 1908. SEVEN DAY COFFEE COMPANY, New York, N. Y. Renewed May 12, 1928.

69,030. WHEAT FLOUR. Registered May 12, 1908. WELLS FLOUR MILLING COMPANY, Wells, Minn. Renewed May 12, 1928, to International Milling Company, Minneapolis, Minn., a Corporation of Delaware, assignee.

69,094. PIANOS AND PLAYER PIANOS. Registered May 19, 1908. GEORGE STECK & Co., New York, N. Y., a Corporation of New York. Renewed May 19, 1928.

69,125. STOVE POLISH. Registered May 19, 1908. THE UNITED STATES GRAPHITE CO., Saginaw, Mich., a Corporation of Michigan. Renewed May 19, 1928.

69,371. OVERALLS. Registered June 9, 1908. KAHN MANUFACTURING COMPANY, Mobile, Ala. Renewed June 9, 1928.

69,487. FIBER BUILDING AND SHEATHING PAPER. Registered June 16, 1908. WELT & SONS PAPER CO. Renewed June 16, 1928, to Welt & Sons Paper Company, Detroit, Mich., a Corporation of Michigan, assignee.

69,552. BROOMS AND BRUSHES. Registered June 23, 1908. THE JOSEPH LAY COMPANY, Ridgeville, Ind., a Corporation of Indiana. Renewed June 23, 1928.

69,628. WRITING PAPER AND ENVELOPS. Registered June 23, 1908. GEORGE B. HURD & Co. Renewed June 23, 1928, to George B. Hurd & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

69,632. CERTAIN NAMED MEDICINES. Registered June 23, 1908. JACOB LEON LASCOFF. Renewed June 23, 1928, to J. L. Lascoff & Son. New York, N. Y., a Partnership, assignee.

69,663. WRITING PAPER AND ENVELOPS. Registered June 30, 1908. GEORGE B. HURD & Co. Renewed June 30, 1928, to George B. Hurd & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

69,664. WRITING PAPER AND ENVELOPS. Registered June 30, 1908. GEORGE B. HURD & Co. Renewed June 30, 1928, to George B. Hurd & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

69,699. FIBER ROPE. Registered June 30, 1908. C. W. HUNT COMPANY, INC., New York, N. Y. a Corporation of New York. Renewed June 30, 1928.

69,755. SALVES. Registered June 30, 1908. MARY A. ZALEWSKI, Detroit, Mich. Renewed June 30, 1928.

69,771. CANNED FRUITS. Registered July 7, 1908. GRIFFITH-DURNEY CO., San Francisco, Calif., a Corporation of California. Renewed July 7, 1928.

69,772. CANNED FRUITS AND VEGETABLES. Registered July 7, 1908. GRIFFITH-DURNEY CO., San Francisco, Calif., a Corporation of California. Renewed July 7, 1928.

69,791. WHEAT FLOUR. Registered July 7, 1908. MOSELY & MOTLEY MILLING CO., Rochester, N. Y., a Corporation of New York. Renewed July 7, 1928.

69,792. WHEAT FLOUR. Registered July 7, 1908. MOSELY & MOTLEY MILLING CO., Rochester, N. Y., a Corporation of New York. Renewed July 7, 1928.

69,817. KNIT SILK UNDERWEAR. Registered July 7, 1908. JULIUS KAYSER & CO., New York, N. Y., a Corporation of New York. Renewed July 7, 1928.

69,911. KNIT SILK GLOVES AND KNIT COTTON GLOVES. Registered July 14, 1908. JULIUS KAYSER & Co., New York, N. Y., a Corporation of New York. Renewed July 14, 1928.

69,947. A FOOT POWDER. Registered July 21, 1908. LAKE CHEMICAL CO., New Brunswick, N. J., a Corporation of New Jersey. Renewed July 21, 1928.

69,981. CANNED SALMON. Registered July 21, 1908. NORTH ALASKA SALMON CO., San Francisco, Calif. Renewed July 21, 1928, to Libby, McNeill & Libby, Chicago, Ill., a Corporation of Maine, assignee.

69,982. LEATHER AND RUBBER BOOTS AND SHOES. Registered July 21, 1908. SELZ, SCHWAB & COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed July 21, 1928.

69,985. INSULATED WIRE. Registered July 21, 1908. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn., a Corporation of Connecticut. Renewed July 21, 1928.

69,987. BARE OR UNCOVERED COMPOSITION WIRE. Registered July 21, 1908. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn., a Corporation of Connecticut. Renewed July 21, 1928.

69,988. BARE OR UNCOVERED COMPOSITION WIRE. Registered July 21, 1908. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn., a Corporation of Connecticut. Renewed July 21, 1928.

69,992. MENTHOLATED COUGH DROPS. Registered July 21, 1908. DEAN MEDICINE COMPANY, Milwaukee, Wis., a Corporation of Wisconsin. Renewed July 21, 1928.

70,009. VITREOUS-CHINA WATER-CLOSET BOWLS AND LAVATORIES. Registered July 21, 1908. THE JOHN DOUGLAS CO., Cincinnati, Ohio, a Corporation of Ohio. Renewed July 21, 1928.

LABELS

REGISTERED MARCH 6, 1928.

33,531.—*Title:* BLUE BIRD. For Carbon Paper. STANLEY M. ARON, doing business as Stanley Products Co., New York, N. Y. Published November 12, 1927.

33,532.—*Title:* DOG FOOD. For Food for Dogs. F. H. BENNETT BISCUIT CO., New York, N. Y. Published January 3, 1928.

33,533.—*Title:* PUPPY FOOD. For Food for Puppies. F. H. BENNETT BISCUIT CO., New York, N. Y. Published January 3, 1928.

33,534.—*Title:* EGG B COOKIES. For Cookies. MORRIS BLINDERMAN, New York, N. Y. Published December 1, 1927.

33,535.—*Title:* FETE CHAMPAGNE. For Nonalcoholic Beverages. CHAMPAGNE BEVERAGE CORP., New York, N. Y. Published January 23, 1928.

33,536.—*Title:* COATS, GOWNS & WRAPS. For Coats, Gowns, and Wraps. M. DE MAY & COMPANY, Philadelphia, Pa. Published October 19, 1927.

33,537.—*Title:* SANITARY WRAPPER. For Milk. BENJAMIN DO BROCKY, Tampa, Fla. Published July 9, 1927.

33,538.—*Title:* SOILAX A LITTLE DOES A LOT. For Washing and Cleaning Compound and for Laundry Use. ECONOMICS LABORATORY, INC., St. Paul, Minn. Published April 15, 1927.

33,539.—*Title:* WHITE HOUSE. For Fresh Lettuce. EMERY & KAVANAGH CO., Los Angeles, Calif. Published December 20, 1927.

33,540.—*Title:* EKCO. For Fresh Tomatoes. EMERY & KAVANAGH CO., Los Angeles, Calif. Published December 20, 1927.

33,541.—*Title:* D-G. For Canned Grapefruit. FLORIDA FRUIT CANNERS INC., Frostproof, Fla. Published January 20, 1928.

33,542.—*Title:* KANT SCRATCH. For Polishing Powders. HADLEY MFG. CO., Bellefontaine, Ohio. Published December 1, 1927.

33,543.—*Title:* GOBS! THEY EAT EM UP. For Small Cakes and Pastries. THE HARRIS-BOYER COMPANY, Johnstown, Pa. Published June 23, 1927.

33,544.—*Title:* MUSCLE SHOALS KILLING INSECT SPRAY. For an Insect Spray. M. M. HEPTONSTALL, doing business as Muscle Shoals Chemical Co., Sheffield, Ala. Published December 27, 1927.

33,545.—*Title:* SEAL SKIN PEANUTS SEALED BY NATURE SALTED BY RADIO NUT COMPANY. For Peanuts. EDWARD F. KEMP, doing business as Radio Nut Company, Somerville and Boston, Mass. Published December 20, 1927.

33,546.—*Title:* L S FIRE PROOF DRY CLEANER. For Fireproof Dry Cleaner. WILLIAM LE SAINT, Evanston Station, Cincinnati, Ohio. Published December 2, 1927.

33,547.—*Title:* EAGLE BRAND. For Malt Syrup. EDWIN LEWIS, doing business as Eagle Brand Malt Hop Company, Niagara Falls, N. Y. Published January 18, 1927.

33,548.—*Title:* LUSEAUX—THE GREAT CHICK SAVER AND POULTRY PROFIT MAKER. For a Poultry Preparation. LUSEAUX, Los Angeles, Calif. Published October 1, 1927.

33,549.—*Title:* BLUE BOW. For Fresh Oranges. McDERMONT & WALL, Riverside, Calif. Published May 27, 1927.

33,550.—*Title:* NATIONAL'S BEST LEMON COOKIES. For Lemon Cookies. NATIONAL TEA CO., Chicago, Ill. Published September 30, 1926.

33,551.—*Title:* NATIONAL'S BEST SUGAR COOKIES. For Sugar Cookies. NATIONAL TEA CO., Chicago, Ill. Published September 30, 1926.

33,552.—*Title:* NATIONAL'S BEST COCOANUT COOKIES. For Cocoanut Cookies. NATIONAL TEA CO., Chicago, Ill. Published September 30, 1926.

33,553.—*Title:* NATIONAL'S BEST FRUIT COOKIES. For Fruit Cookies. NATIONAL TEA CO., Chicago, Ill. Published September 30, 1926.

33,554.—*Title:* NATIONAL BRAND PURE CREAM BUTTER. For Butter. NATIONAL TEA CO., Chicago, Ill. Published December 16, 1926.

33,555.—*Title:* NATIONAL BRAND OF OLEOMARGARINE. For Oleomargarine. NATIONAL TEA CO., Chicago, Ill. Published September 30, 1926.

33,556.—*Title:* PAR-X. For Coffee. PAR-X SERVICE CORPORATION, Philadelphia, Pa. Published January 18, 1928.

33,557.—*Title:* HAZEL BRAND GOLDEN BANTAM CORN. For Golden Bantam Corn. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,558.—*Title:* HAZEL BRAND SUGAR CORN. For Sugar Corn. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,559.—*Title:* HAZEL BRAND TELEPHONE PEAS. For Telephone Peas. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,560.—*Title:* HAZEL BRAND BEVERAGE SYRUP RASPBERRY TRUE FRUIT FLAVOR. For Raspberry-Flavor Beverage Syrup, True Fruit Flavor. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,561.—*Title:* HAZEL BRAND RED COLORING. For Red Coloring Strawberry Shade. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,562.—*Title:* HAZEL BRAND FANCY RED SALMON. For Salmon. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,563.—*Title:* HAZEL BRAND TEA. For Tea. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,564.—*Title:* HAZEL BRAND RED RASPBERRIES. For Red Raspberries. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,565.—*Title:* HAZEL BRAND LOGANBERRIES. For Loganberries. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,566.—*Title:* HAZEL BRAND PITTED RED CHERRIES. For Pitted Red Cherries. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,567.—*Title:* HAZEL BRAND CRUSHED PINEAPPLE. For Crushed Pineapple. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,568.—*Title:* HAZEL BRAND HONEY. For Pure Strained Honey. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,569.—*Title:* HAZEL BRAND STRAWBERRIES. For Strawberries. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,570.—*Title:* HAZEL BRAND COCOANUT. For Shredded Cocoanut. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,571.—*Title:* HAZEL BRAND ORANGE MARMALADE. For Orange Marmalade. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,572.—*Title:* HAZEL BRAND FRENCH DRESSING. For French Dressing. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,573.—*Title:* HAZEL BRAND TOMATO CATSUP. For Tomato Catsup. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1927.

33,574.—*Title:* HAZEL BRAND UNSWEETENED EVAPORATED MILK. For Unsweetened Evaporated Milk. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,575.—*Title:* HAZEL BRAND THOUSAND ISLAND DRESSING. For Thousand Island Dressing. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,576.—*Title:* HAZEL BRAND COCOANUT COOKIES. For Cocoanut Cookies. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,577.—*Title:* HAZEL BRAND FANCY 'HEAD RICE. For Rice. GEO. RASMUSSEN CO., Chicago, Ill. Published September 30, 1926.

33,578.—*Title:* SWEET GIRL BRAND SAUERKRAUT. For Sauerkraut. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,579.—*Title:* SWEET GIRL FANCY RED SALMON. For Salmon. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,580.—*Title:* SWEET GIRL BRAND TOMATOES. For Tomatoes. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,581.—*Title:* SWEET GIRL BRAND GINGER ALE. For Ginger Ale. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,582.—*Title* SWEET GIRL BRAND ROOT BEER. For Root Beer. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,583.—*Title:* SWEET GIRL BRAND CUT GREEN BEANS. For Green Beans. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,584.—*Title:* SWEET GIRL BRAND FANCY GREEN STRINGLESS BEANS. For Stringless Beans. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,585.—*Title:* SWEET GIRL BRAND TINY SIFTED EARLY JUNE PEAS. For Early June Peas. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,586.—*Title:* SWEET GIRL BRAND EXTRA SIFTED EARLY JUNE PEAS. For Early June Peas. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,587.—*Title:* SWEET GIRL BRAND SIFTED EARLY JUNE PEAS. For Early June Peas. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,588.—*Title:* SWEET GIRL BRAND EXTRA TELEPHONE PEAS. For Telephone Peas. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,589.—*Title:* SWEET GIRL BRAND ROYAL ANNE CHERRIES. For Royal Anne Cherries. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,590.—*Title:* SWEET GIRL BRAND APRICOTS. For Apricots. GEO. RASMUSSEN CO., Chicago, Ill. Published November 15, 1927.

33,591.—*Title:* CHIEF. For Fresh Oranges. REDLANDS SELECT GROVES, INC., Redlands, Calif. Published July 6, 1927.

33,592.—*Title:* ADELANTO. For Apple Cider. JAMES R. RICHARDSON, doing business as Adelanto Cider Mill, Los Angeles, Calif. Published July 26, 1927.

33,593.—*Title:* WESTERN. For Fresh Oranges. RITCHIE-MILLS PACKING CO., Anaheim, Calif. Published September 15, 1927.

33,594.—*Title:* MENTHORETS. For Cigarettes. ROSEDOR CIGARETTE CO., New York, N. Y. Published January 2, 1928.

33,595.—*Title:* QUALITY SEAL. For Brooms. THE SOUTHWESTERN BROOM MFG. CO., Evansville, Ind. Published January 18, 1928.

33,596.—*Title:* SANFORSTAN. For Rugs. STEPHEN SANFORD & SONS, INC., Amsterdam and New York, N. Y. Published January 20, 1928.

PRINTS

REGISTERED MARCH 6, 1928.

10,684.—*Title:* SWANK COLLAR HOLDER—LOOKS LIKE A PIN BUT ISN'T. For Swank Collar Holders. THE BAER & WILDE COMPANY, Attleboro, Mass. Published September 1, 1927.

10,685.—*Title:* ALADDIN ELECTRO PLATER. For Portable Electroplaters. P. J. F. BATENBURG, Racine, Wis. Published December 22, 1927.

10,686.—*Title:* MARK-IT MEMMO. For Household Commodities. BE VIER AND CO., INC., New York, N. Y. Published January 3, 1928.

10,687.—*Title:* WATER FREEZES HERE FIRST. For Moto-Gard, an Automobile Shutter. BREWER-TITCHENER CORPORATION, Cortland, N. Y. Published December 17, 1927.

10,688.—*Title:* EXTRA PROTECTION AT THE VITAL FREEZING POINT. "For Moto-Gard, an Automobile Shutter. BREWER-TITCHENER CORPORATION, Cortland, N. Y. Published December 3, 1927.

10,689.—*Title:* OVER THE TOP WITH STYLE BUMPERS. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published January 5, 1928.

10,690.—*Title:* DELICIOUS AND REFRESHING. For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published January 3, 1928.

10,691.—*Title:* THAT TASTE-GOOD FEELING. For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published January 3, 1928.

10,692.—*Title:* TREAT YOURSELF RIGHT. For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published January 3, 1928.

10,693.—*Title:* PAUSE A MINUTE REFRESH YOURSELF. For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published January 3, 1928.

10,694.—*Title:* STATE HOUSE COFFEE. For Coffee. JOSEPH P. DEVIR, Philadelphia, Pa. Published December 12, 1927.

10,695.—*Title:* REMEDOR WORLD OF EASE. For a Treatment for Foot Ailments. ERNEST ESPOSITO, doing business as Remedor Foot Powder Co., New York, N. Y. Published December 10, 1927.

10,696.—*Title:* HOO! HOO!! THAT SURELY MUST BE A FIRESTONE, WHY IT'S TOUGHER THAN A PIGS NOSE. For Automobile Tires. JEFFERSON D. JACKSON, Candler, N. C. Published January 10, 1927.

10,697.—*Title:* ROACH KILLER NO. 9 IS THE ENVELOPE KIND. For a Roach Killer. W. C. MCKEE, doing business as The No. 9 Chemical Company, Columbus, Ga. Published December 28, 1927.

10,698.—*Title:* ARGUTO. For Machine Bearings. NORMAN MELLOR, doing business as Arguto Oilless Bearing Company, Philadelphia, Pa. Published August 2, 1927.

10,699.—*Title:* WHAT ARE YOU DOING TONIGHT? For Food Served in a Restaurant. CHARLES MILLER and SOL JAFFA, doing business under the name of "The Open Door," New York, N. Y. Published March 31, 1927.

10,700.—*Title:* GRAPE-NUTS BALANCED NOURISHMENT FORM 5022. For Grape-Nuts. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,701.—*Title:* POST'S BRAN FLAKES NOW YOU'LL LIKE BRAN FORM 4963. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,702.—*Title:* POST'S BRAN FLAKES READY TO EAT FORM 4962. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,703.—*Title:* BANANAS WITH POST'S BRAN FLAKES FORM 4965. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,704.—*Title:* FRESH FRUIT WITH POST'S BRAN FLAKES FORM 4964. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,705.—*Title:* POST'S BRAN FLAKES BRAN YOU'LL LIKE EVERY DAY FORM 4966. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,706.—*Title:* POST TOASTIES STAY CRISP IN MILK OR CREAM FORM 4981. For Post Toasties. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,707.—*Title:* GRAPE-NUTS DELICIOUS FLAVOR FORM 5021. For Grape-Nuts. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

10,708.—*Title:* POST TOASTIES DOUBLE CRISP AND DOUBLE GOOD FORM 4982. For Post Toasties. POSTUM COMPANY, INCORPORATED, Wilmington, Del., and New York, N. Y. Published February 25, 1927.

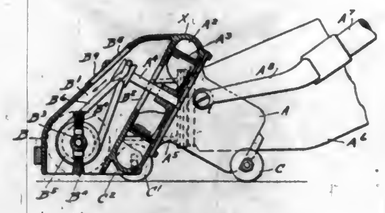
10,709.—*Title:* RICE'S CORELESS CARROT. For Seeds. JEROME B. RICE SEED CO., Cambridge, N. Y. Published December 22, 1927.

10,710.—*Title:* YOUR SHOT—BIG BILL. For a Beverage—Namely, a Soft Drink. TAYLOR-LONG COMPANY, Charlotte, N. C. Published January 14, 1928.

REISSUES

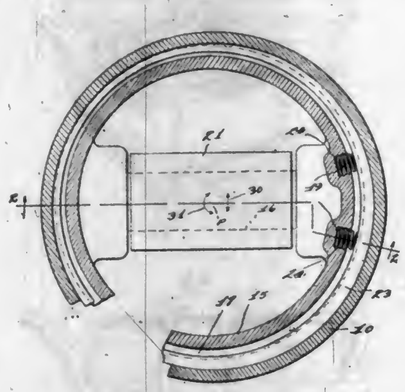
MARCH 6, 1928.

16,893. SUCTION CLEANER. HOWARD EARL HOOVER, Glencoe, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Dec. 14, 1925. Serial No. 75,458. Original No. 1,364,761, dated Jan. 4, 1921, Serial No. 277,472, filed Feb. 17, 1919. Renewed Nov. 4, 1920, Serial No. 421,791. 7 Claims. (Cl. 15—8.)



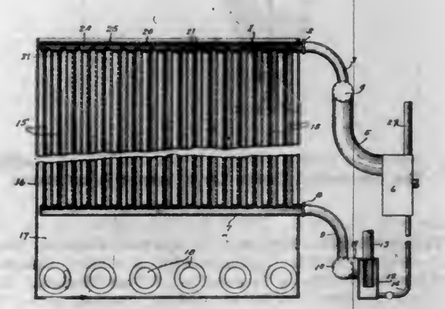
1. A suction cleaner casing having a rotatably mounted brush in combination with a fan and motor and means for driving the fan and brush from the motor, the common axes of fan and motor downwardly and rearwardly inclined.

16,894. INTERNAL-COMBUSTION ENGINE. ALANSON P. BRUSH, Detroit, Mich., assignor to The Simplex Piston Ring Co. of America, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 29, 1927. Serial No. 216,323. Original No. 1,299,674, dated Apr. 8, 1919, Serial No. 217,652, filed Feb. 16, 1918. 2 Claims. (Cl. 74—108.)



1. In an engine, the combination of a cylinder, a piston therein having operative clearance, a connecting rod, a wrist pin which pivotally connects the connecting rod with the piston, said piston having a circumferentially extending groove therein adjacent said wrist pin, a member radially movable in said groove peripherally bearing against the cylinder wall and resilient means between said member and piston yieldingly tending to push the piston across the cylinder in one direction of the length of said connecting rod pin.

16,895. STEAM GENERATOR. WALTER DOUGLAS LA MONT, Larchmont, N. Y., assignor, by mesne assignments, to La Mont Corporation, New York, N. Y., a Corporation of New York. Filed July 9, 1927. Serial No. 204,634. Original No. 1,545,668, dated July 14, 1925, Serial No. 268,651, filed Dec. 28, 1918. 23 Claims. (Cl. 122—39.)



1. The method of generating steam in a heated tube having one end closed to the discharge of steam and higher than the other, which consists in forcing water into the upper end of said tube, and directing the water toward the wall of said tube, said water being continuously introduced in such quantity as continuously to maintain a film on said wall throughout a substantial portion of the length of the tube and to leave the center of the tube unobstructed, and discharging from the lower end of the tube the steam and unevaporated water arriving at said end.

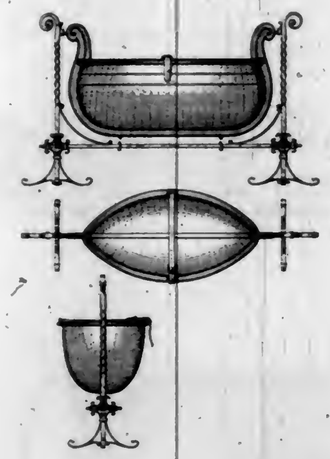
16,896. BONDING ACTUATED CARBON. ARTHUR B. RAY, Bayside, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Sept. 7, 1927. Serial No. 218,105. Original No. 1,565,328, dated Dec. 15, 1925, Serial No. 511,171, filed Oct. 28, 1921. 2 Claims. (Cl. 252—3.)

1. A process of bonding activated carbon which comprises associating such carbon with a sugar and thermally decomposing said sugar to give a carbonaceous bonding residue.

DESIGNS

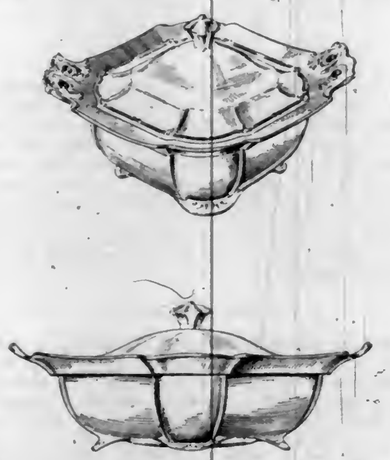
MARCH 6, 1928.

74,587. BABY CRIB. PETER ARNAO, Brooklyn, N. Y. Filed Dec. 14, 1927. Serial No. 24,480. Term of patent 14 years.



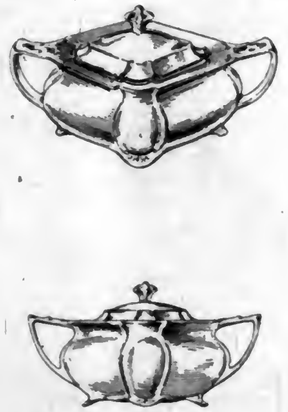
The ornamental design for a baby crib, as shown.

74,588. DISH. KENNETH P. BEATTIE, Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va., a Corporation of West Virginia. Filed Dec. 27, 1927. Serial No. 24,655. Term of patent 3½ years.



The ornamental design for a dish, substantially as shown.

74,589. SUGAR BOWL. KENNETH P. BEATTIE, Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va., a Corporation of West Virginia. Filed Dec. 27, 1927. Serial No. 24,656. Term of patent 3½ years.



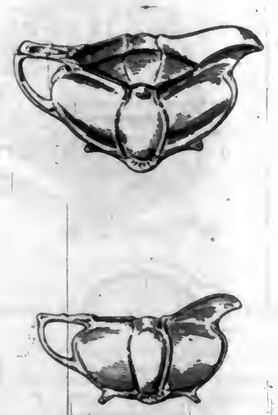
The ornamental design for a sugar bowl, substantially as shown.

74,590. TEAPOT. KENNETH P. BEATTIE, Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va., a Corporation of West Virginia. Filed Dec. 27, 1927. Serial No. 24,657. Term of patent 3½ years.



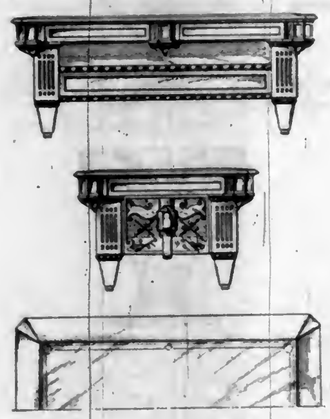
The ornamental design for a teapot, substantially as shown.

74,591. PITCHER. KENNETH P. BEATTIE, Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va., a Corporation of West Virginia. Filed Dec. 27, 1927. Serial No. 24,658. Term of patent 3½ years.



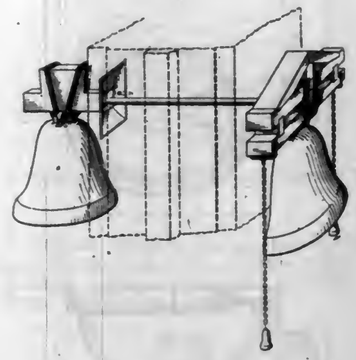
The ornamental design for a pitcher, substantially as shown.

74,592. BILLIARD TABLE OR SIMILAR ARTICLE. ARCHIE H. BECHTOL, Daytona Beach, Fla., and WALTER A. TRATSCH, Chicago, Ill. Filed Oct. 13, 1927. Serial No. 28,746. Term of patent 14 years.



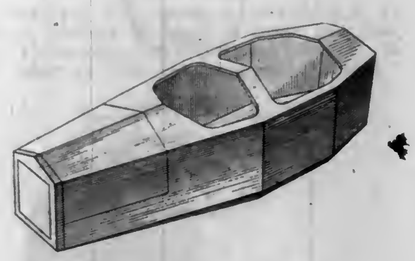
The ornamental design for a billiard table or similar article as shown.

74,593. DOOR SIGNAL. GEORGE S. BEST, San Diego, Calif. Filed Nov. 4, 1925. Serial No. 15,389. Term of patent 3½ years.



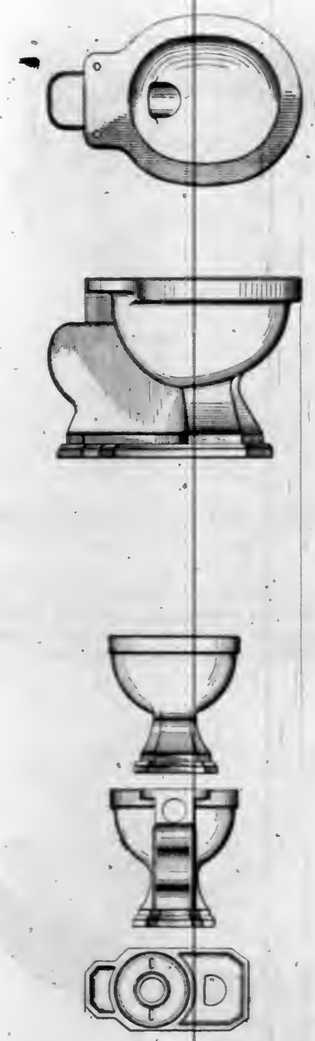
The ornamental design for a door signal as shown.

74,594. AUTOMOBILE BODY. ANTHONY BIZZARRI, New York, N. Y., assignor, by mesne assignments, to Specialty Patents Holding Co., Inc., New York, N. Y., a Corporation of New York. Filed July 2, 1926. Serial No. 18,232. Term of patent 3½ years.



The ornamental design for an automobile body as shown.

74,595. CLOSET BOWL. JOHN B. COXON, Kokomo, Ind., assignor to Kokomo Sanitary Pottery Company, Kokomo, Ind. Filed Sept. 21, 1926. Serial No. 19,138. Term of patent 14 years.



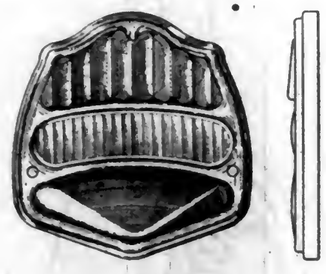
The ornamental design for a closet bowl, as shown and described.

74,596. CLOSET BOWL. JOHN B. COXON, Kokomo, Ind., assignor to Kokomo Sanitary Pottery Company, Kokomo, Ind. Filed Sept. 21, 1926. Serial No. 19,139. Term of patent 14 years.



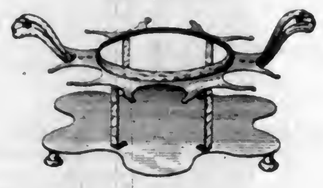
The ornamental design for a closet bowl as shown and described.

74,597. VEHICLE LAMP DOOR. HARRY C. DOANE, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 13, 1927. Serial No. 22,419. Term of patent 14 years.



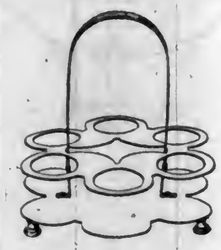
The ornamental design for a vehicle lamp door as shown.

74,598. HOLDER FOR GLASSES. SIMON W. FARBER, Brooklyn, N. Y. Filed Sept. 21, 1927. Serial No. 23,493. Term of patent 14 years.



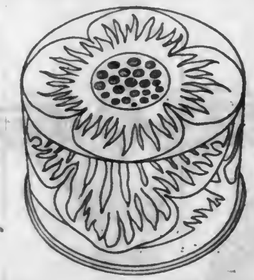
The ornamental design for a holder for glasses substantially as shown.

74,599. HOLDER FOR GLASSES. SIMON W. FARBER, Brooklyn, N. Y. Filed Sept. 21, 1927. Serial No. 23,497. Term of patent 14 years.



The ornamental design for a holder for glasses substantially as shown.

74,600. TOILET-POWDER BOX. GUY T. GIBSON, New Rochelle, N. Y., assignor to Guy T. Gibson Inc., New York, N. Y., a Corporation of New York. Filed Dec. 28, 1927. Serial No. 24,678. Term of patent 14 years.



The ornamental design for a toilet powder box as shown.

74,601. BOTTLE. PAUL A. GINTER, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 10, 1926. Serial No. 20,012. Term of patent 14 years.



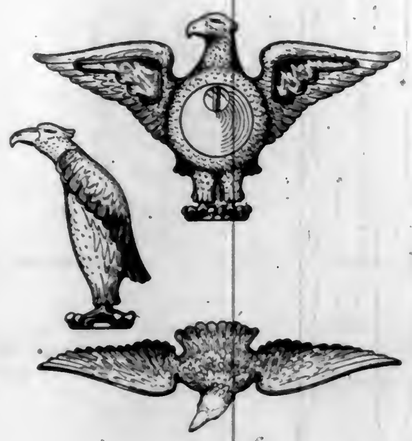
The ornamental design for a bottle, substantially as shown.

74,602. BOTTLE. LOUIS HALK, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1927. Serial No. 23,787. Term of patent 14 years.



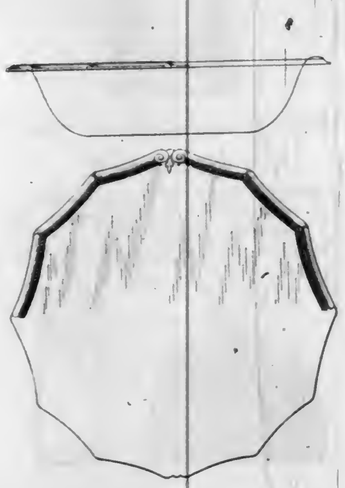
The ornamental design for a bottle as shown.

74,603. TEMPERATURE-INDICATING HOUSING. ABE HARTMAN, Brooklyn, N. Y. Filed July 15, 1926. Serial No. 18,366. Term of patent 14 years.



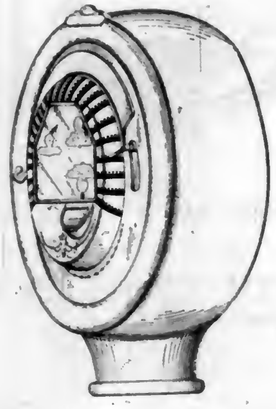
The ornamental design for a temperature indicating housing as shown.

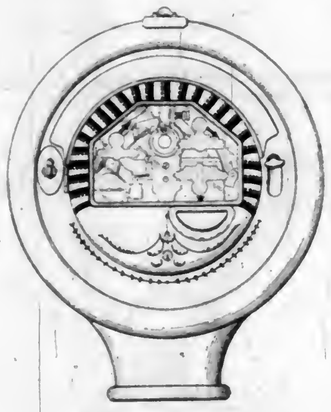
74,604. BOWL OR SIMILAR ARTICLE. HARRISON HEBBARD, East Orange, N. J., assignor to Dominick & Haff, Inc., Newark, N. J., a Corporation of Delaware. Filed Sept. 20, 1927. Serial No. 23,474. Term of patent 7 years.



The ornamental design for a bowl or similar article as shown and described.

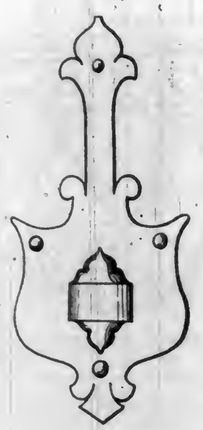
74,605. HEAD OF A PRINTING SCALE. GUSTAV F. HOCHRIEM, Chicago, Ill., assignor to Rhodes-Hochriem Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 18, 1927. Serial No. 21,963. Term of patent 3½ years.





The ornamental design for a head of a printing scale, as shown.

74,606. WALL PLATE FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. HARRY R. HOLDEMAN, Los Angeles, Calif., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Filed Dec. 19, 1927. Serial No. 24,524. Term of patent 3½ years.



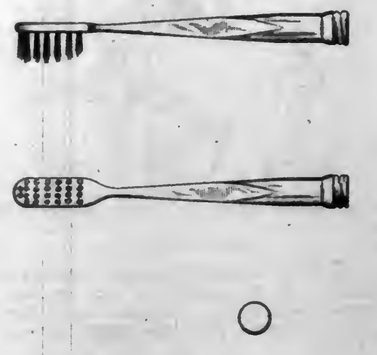
The ornamental design for a wall plate for lighting fixtures or similar articles as shown.

74,607. SPINDLE FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. HARRY R. HOLDEMAN, Los Angeles, Calif., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Filed Dec. 19, 1927. Serial No. 24,525. Term of patent 3½ years.



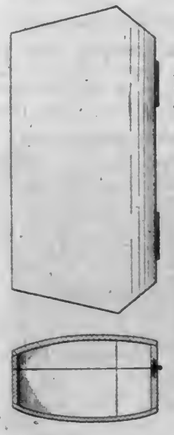
The ornamental design for a spindle for lighting fixtures or similar articles, as shown.

74,608. TOOTHBRUSH. ROBERT WOOD JOHNSON, New Brunswick, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed Apr. 21, 1927. Serial No. 21,658. Term of patent 14 years.



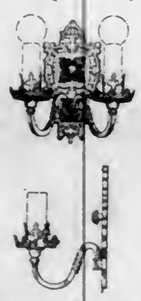
The ornamental design for a toothbrush, as shown.

74,609. CANTEEN BOX. RUDOLF KIENINGER, Chicago, Ill. Filed Dec. 27, 1926. Serial No. 20,158. Term of patent 3½ years.



The ornamental design for a canteen box, as shown.

74,610. WALL LIGHTING FIXTURE. ARTHUR KRAUSE, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 23,624. Term of patent 7 years.



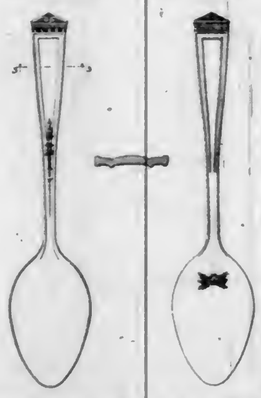
The ornamental design for a wall lighting fixture as shown.

74,611. WALL LIGHTING FIXTURE. ARTHUR KRAUSE, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 23,625. Term of patent 7 years.



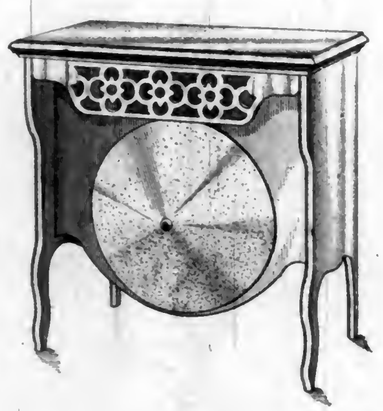
The ornamental design for a wall lighting fixture, as shown.

74,612. SPOON OR SIMILAR ARTICLE. THOMAS B. LASHAR, Fairfield, Conn., assignor to Associated Silver Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1926. Serial No. 19,612. Term of patent 14 years.



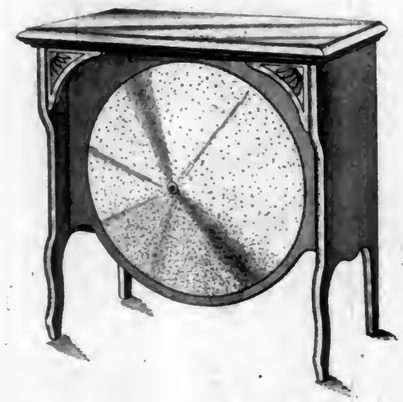
The ornamental design for a spoon or similar article as shown

74,613. RADIOCONSOLE. GEORGE W. LYONS, Oak Park, Ill. Filed Feb. 14, 1927. Serial No. 20,751. Term of patent 7 years.



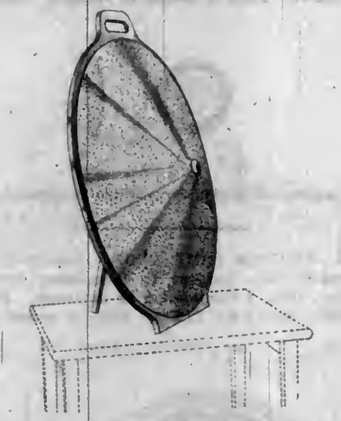
The ornamental design for a radioconsole, as shown.

74,614. RADIOCONSOLE. GEORGE W. LYONS, Oak Park, Ill. Filed Feb. 14, 1927. Serial No. 20,752. Term of patent 7 years.



The ornamental design for a radioconsole, as shown.

74,615. SOUND-REPRODUCING APPARATUS. GEORGE W. LYONS, Oak Park, Ill. Filed Feb. 14, 1927. Serial No. 20,755. Term of patent 7 years.



The ornamental design for a sound reproducing apparatus, as shown.

74,616. LACE TRAY COVER OR THE LIKE. SALIM N. MALLOUK, Brooklyn, N. Y. Filed Dec. 18, 1926. Serial No. 20,074. Term of patent 3½ years.



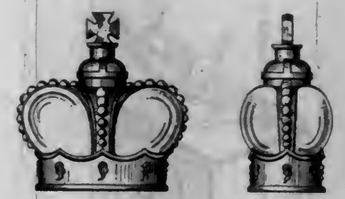
The ornamental design for a lace tray cover or the like, substantially as shown.

74,617. PERFUME CONTAINER. CHARLES LIONEL MARCUS, New York, N. Y. Filed July 26, 1923. Serial No. 6,871. Term of patent 14 years.



The ornamental design for a perfume container as shown and described.

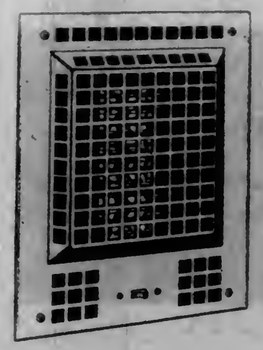
74,618. BOTTLE OR SIMILAR CONTAINER. GEORGE MATCHABELLI, New York, N. Y., assignor to Prince Matchabelli Perfumery, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 5, 1927. Serial No. 23,635. Term of patent 7 years.





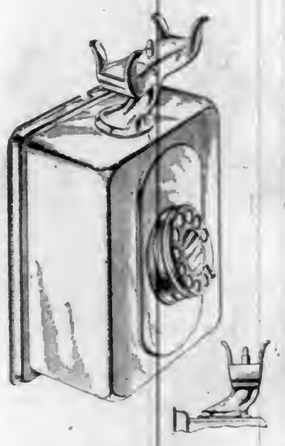
The ornamental design for a bottle or similar container, as shown.

74,619. ELECTRIC HEATER. FRANCIS H. MCCORMICK, Glen Ellyn, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed July 11, 1927. Serial No. 22,726. Term of patent 3½ years.



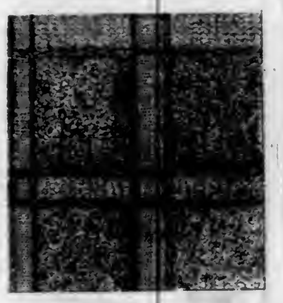
The ornamental design for an electric heater substantially as shown.

74,620. TELEPHONE SET. HERBERT F. OBERGFELL, River Forest, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 22, 1927. Serial No. 23,846. Term of patent 14 years.



The ornamental design for a telephone set, as shown.

74,621. TOWELING FABRIC. RUSSELL L. O'KEEFFE, San Francisco, Calif., assignor to Hale Bros., Inc., San Francisco, Calif., a Corporation of California. Filed July 13, 1925. Serial No. 14,068. Term of patent 14 years.



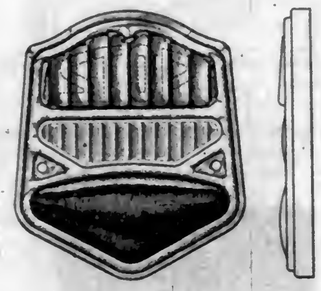
The ornamental design for a toweling fabric, substantially as shown and described.

74,622. BADGE. FREDERIC C. W. PARKER, Oak Park, Ill., assignor to Kiwanis International, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1927. Serial No. 22,136. Term of patent 14 years.



The ornamental design for a badge as shown.

74,623. VEHICLE LAMP DOOR. LESLIE O. PARKER, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 2, 1927. Serial No. 22,279. Term of patent 14 years.



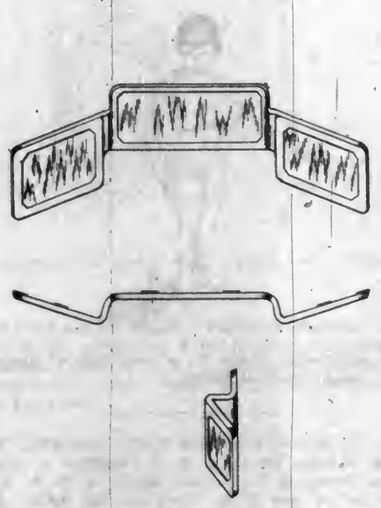
The ornamental design for a vehicle lamp door as shown.

74,624. DOOR HANDLE. RALPH S. ROBERTS, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 28, 1927. Serial No. 24,324. Term of patent 7 years.



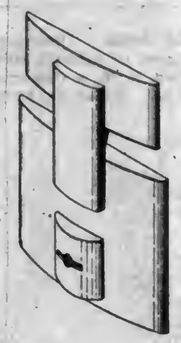
The ornamental design for a door handle substantially as shown.

74,625. COMBINED REAR AND SIDE VIEW MIRROR FOR AUTOMOBILES. JOSEPH F. RIVARD, Detroit, Mich. Filed May 4, 1927. Serial No. 21,859. Term of patent 7 years.



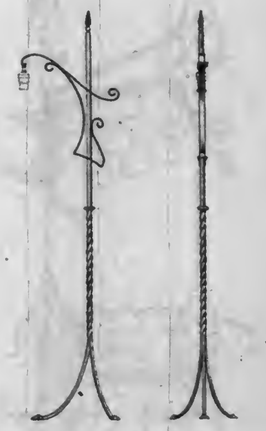
The ornamental design for a combined rear and side view mirror for automobiles as shown.

74,626. LOCK OR SIMILAR ARTICLE. JOHN B. RUSS, Shelton, Conn., assignor to The Bassett Metal Goods Company, Inc., Derby, Conn., a Corporation of Connecticut. Filed Dec. 14, 1927. Serial No. 24,475. Term of patent 7 years.



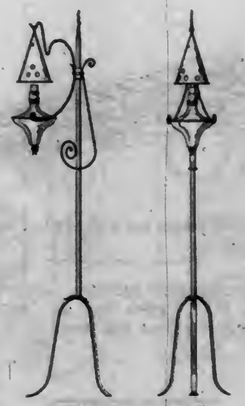
The ornamental design for a lock or similar article as shown.

74,627. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Dec. 31, 1927. Serial No. 24,707. Term of patent 3½ years.



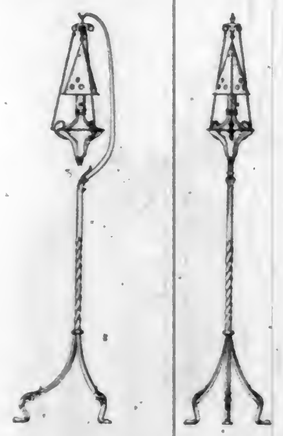
The ornamental design for a bridge lamp, as shown.

74,628. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Dec. 31, 1927. Serial No. 24,708. Term of patent 3½ years.



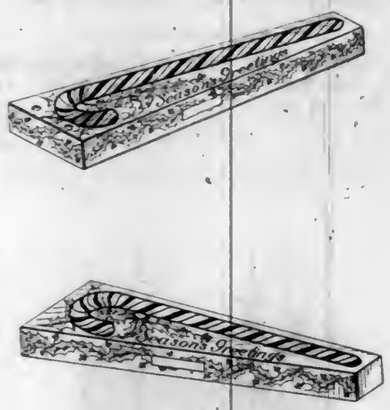
The ornamental design for a bridge lamp, as shown.

74,629. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Dec. 31, 1927. Serial No. 24,709. Term of patent 3½ years.



The ornamental design for a bridge lamp, as shown.

74,630. CANDY BOX. MORRIS SAVAGE, Philadelphia, Pa. Filed Dec. 21, 1927. Serial No. 24,572. Term of patent 14 years.



The ornamental design for a candy box as shown.

74,631. EMBROIDERED EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Oct. 29, 1927. Serial No. 23,923. Term of patent 3½ years.



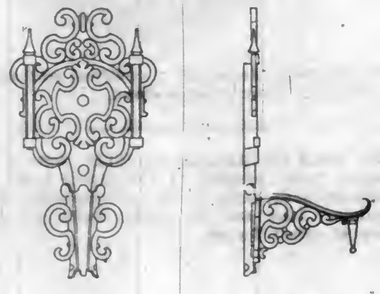
The ornamental design for embroidered edging, as shown.

74,632. LAMP BASE OR ANALOGOUS ARTICLE. PHILIP SILBERHARTZ, Brooklyn, N. Y., assignor to Majestic Lamp Works, New York, N. Y., a Partnership consisting of Philip Silberharts, Jacob Silberharts, and Harry Scheiner. Filed Nov. 23, 1927. Serial No. 24,252. Term of patent 3½ years.



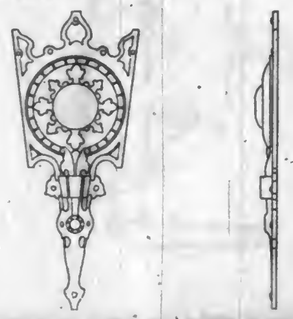
The ornamental design for a lamp base or analogous article, substantially as shown.

74,633. LIGHTING-FIXTURE WALL BRACKET. THEODORE SHAPIRO, Brooklyn, N. Y., assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 23,811. Term of patent 3½ years.



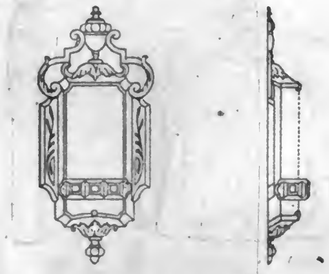
The ornamental design for a lighting fixture wall bracket as shown.

74,634. BRACKET BACK. THEODORE SHAPIRO, Brooklyn, N. Y., assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 23,813. Term of patent 3½ years.



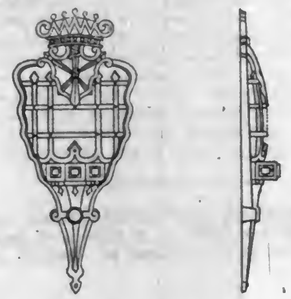
The ornamental design for a bracket back as shown.

74,635. BRACKET BACK. THEODORE SHAPIRO, Brooklyn, N. Y., assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 23,814. Term of patent 3½ years.



The ornamental design for a bracket back as shown.

74,636. BRACKET BACK. THEODORE SHAPIRO, Brooklyn, N. Y., assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 23,815. Term of patent 3½ years.



The ornamental design for a bracket back as shown.

74,637. DRESS. GRACE TANCILL, St. Louis, Mo. Filed May 2, 1927. Serial No. 21,814. Term of patent 14 years.



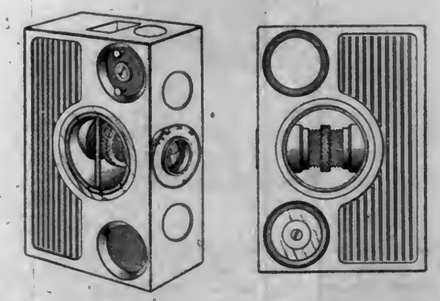
The ornamental design for a dress, substantially as shown and described.

74,638. COMBINED ASH TRAY AND BUTT EXTINGUISHER. JOHN F. THIESSEN, Los Angeles, Calif. Filed Sept. 27, 1927. Serial No. 23,560. Term of patent 7 years.



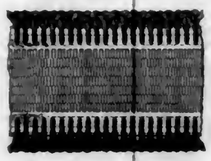
The ornamental design for a combined ash tray and butt extinguisher as shown.

74,639. CAMERA CASING. ALEXANDER FERDINAND VICTOR, New York, N. Y. Filed June 24, 1926. Serial No. 18,166. Term of patent 14 years.



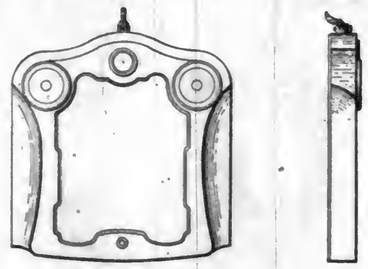
The ornamental design for a camera casing as shown.

74,640. ELASTIC GARTER WEBBING. FREDERICK J. ZIMMERER, Jr., Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn. Filed June 8, 1927. Serial No. 22,367. Term of patent 7 years.



The ornamental design for an elastic garter webbing, as shown.

74,641. VEHICLE RADIATOR COVER. JAMES ZALLAS, Detroit, Mich. Filed Oct. 19, 1927. Serial No. 23,806. Term of patent 7 years.

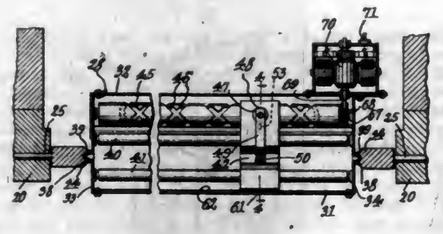


The ornamental design for a vehicle radiator cover, as shown.

PATENTS

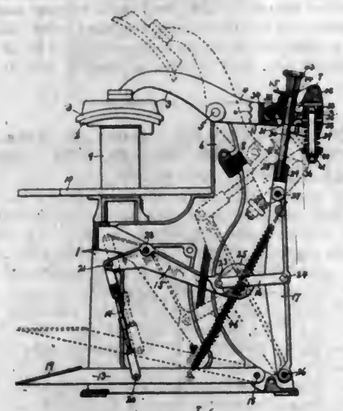
GRANTED MARCH 6, 1928.

1,661,152. WINDSHIELD WIPER. GEORGE A. ARIENS, Jeffersonville, Ind. Filed May 19, 1926. Serial No. 110,171. 10 Claims. (Cl. 15—253.)



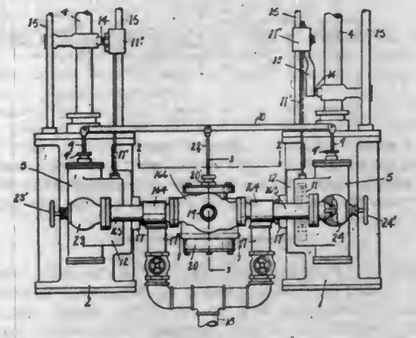
1. In apparatus of the character described, a windshield frame having a transparent pane held within the frame with the upper edge thereof spaced from the upper bar of said frame, a housing mounted within the frame above the pane, said housing having a tight joint with the frame and pane and having a longitudinal opening, a carriage mounted to travel longitudinally within the housing, a stem secured to the carriage and passing through the opening, and a wiper secured to the stem.

1,661,153. GARMENT-PRESSING MACHINE. HERBERT G. BEEDS, Pawtucket, R. I. Filed Jan. 11, 1927. Serial No. 160,369. 15 Claims. (Cl. 68—9.)



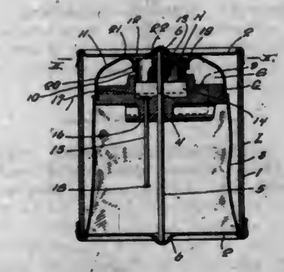
1. In a garment pressing machine having a frame and a movable pressing element, a toggle having one of its members fulcrumed on the frame and its other member operatively connected to said element, and pedal-operated means for applying force to said one member in the direction of flexion of the toggle joint and substantially normal to a direct line between said joint and frame-fulcrum of the said one member in both extreme positions of adjustment.

1,661,154. VALVE MECHANISM FOR STEAM ENGINES. JOHN C. BIRD, Battle Creek, Mich., assignor to Union Steam Pump Company, Battle Creek, Mich. Filed Feb. 21, 1927. Serial No. 169,915. 4 Claims. (Cl. 121—115.)



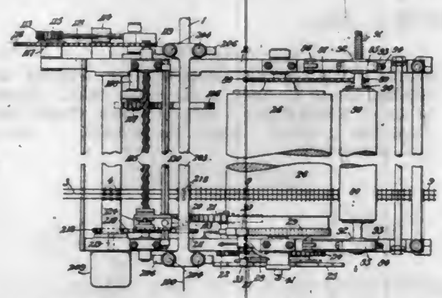
2. In a synchronizing valve structure, the combination of a plurality of engines with piston valves, a synchronizing valve connected to be operated by the pistons of said piston valves, a cut-off valve for cutting off one or the other of said cylinders, a casing with by-pass passage therethrough, and a plug valve with stem connected to the cut-off valve to be opened when the cut-off valve is closed.

1,661,155. VOICE DEVICE. ANDREW FUERTINGER, New York, N. Y., assignor, by mesne assignments, to Voices Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Mar. 20, 1925. Serial No. 17,104. 9 Claims. (Cl. 46—46.)



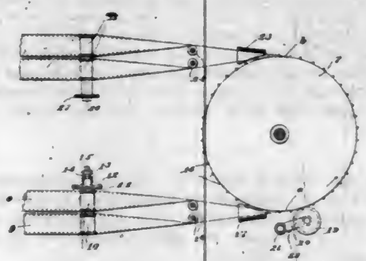
1. In sound producing and controlling devices, a sounding device, a gravity movable member for causing a flow of air to operate said device, said member having a sound emission opening, and an independent valve element unattached to said member and movable by gravity with respect thereto to control the emission of sound through said opening, and means cooperatively engaging one of said parts to effect a relative gravitational movemove between said parts and produce an articulated emission of the sound.

1,661,156. PRODUCTION OF WELDED WIRE FABRIC AND APPARATUS THEREFOR. ALAN ARMSTRONG, Tynemouth, England, assignor to Pilkington Brothers Limited, Liverpool, England, a British Company. Filed Nov. 18, 1924, Serial No. 750,715, and in Great Britain Nov. 20, 1923. 32 Claims. (Cl. 140—112.)



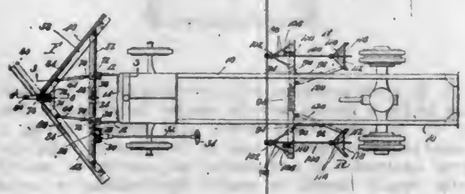
1. In apparatus of the type described for producing welded wire fabric, the combination with welding dies and means adapted to support warp wires between said dies, of means adapted to feed a weft wire from a source of supply across the warp wires and axially along a line between the welding dies by traction on the free end of the said weft wire.

1,661,157. CINEMATOGRAPHIC APPARATUS. JOSEPH A. BALL, Cambridge, ERNEST A. GALLISON, Watertown, and EASTMAN A. WEAVER, Brookline, Mass., assignors to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed July 21, 1923. Serial No. 652,893. 31 Claims. (Cl. 101—130.)



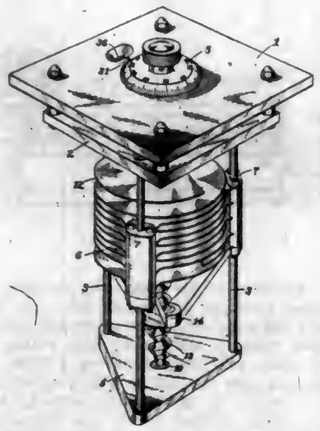
4. Cinematographic apparatus comprising means for continuously advancing two films in synchronism along adjacent paths, and means in the rear of said means for conjointly retarding the two films severally to register the portions intermediate the two means.

1,661,158. HIGH-SPEED TRACTION SNOWPLOW. THOMAS J. BALL, Boston, Mass. Filed Jan. 12, 1924. Serial No. 685,925. 3 Claims. (Cl. 37—44.)



1. In combination with a motor vehicle, a snow plow frame mounted at the forward end of the chassis including two vertically slidable plow supporting bars guided in fixed sleeves, a snow plow pivotally connected at its rear portion to the lower ends of said bars permitting the plow to tilt on meeting an obstruction by turning upward on said connection to said bars and then to lift bodily by sliding said bars upward through their sleeves, and means operatively connected to said bars under control from the cab for adjusting the height of the plow at will.

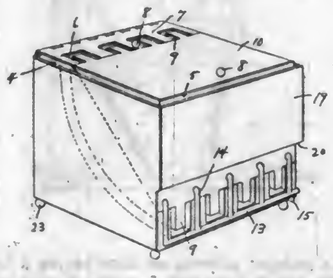
1,661,159. RADIOCONDENSER. JAMES BARNETT, Baltimore, Md. Filed May 29, 1923. Serial No. 642,215. 8 Claims. (Cl. 175—41.5.)



1. A condenser comprising electrodes consisting of electrically conducting material in the form of helically warped surfaces, the helically warped surfaces being composed of segmental elements so assembled as to give in effect continuous helically warped surfaces.

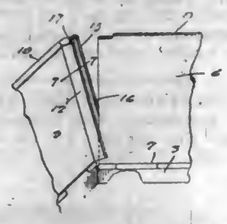
8. In an electrical condenser, a helical stator consisting of a plurality of perforated discs cut through from the perforations therein to the peripheries thereof and formed into helical convolutions, and arranged with the end of one such convolution in contact with the end of another such convolution, and means to support the helix thus formed.

1,661,160. AIR COOLER. JAMES F. BAUMGARDNER, Stoneboro, Pa. Filed Mar. 28, 1927. Serial No. 179,114. 3 Claims. (Cl. 62—69.)



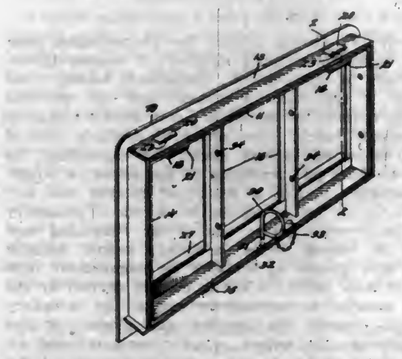
1. In a structure, of the class described, an air cooler comprising a box-like device composed of a pair of complemental sections, each section comprising a hollow ice container, one section being formed with channels, the other section being formed with tongues telescoping into and spaced from the walls of said channels, to provide curved air circulating passages.

1,661,161. FOLDING EGG CASE. GAEL LOHR BROUGHER, Orion, Kans. Filed Mar. 12, 1926. Serial No. 94,234. 1 Claim. (Cl. 220—6.)



A folding egg case comprising a bottom, side walls hinged at their lower edges to the respective sides of the bottom, end walls hinged at their lower edges to the respective ends of the bottom, the sides of each end member having inwardly directed flanges merging into U-channel bars having their bights disposed outwardly and their sides in parallelism with the flanges, one of said sides of the U-channel bars abutting the respective flange, said channel bars being adapted to receive the ends of the respective side wall whereby the side walls and the end walls are locked in vertical box forming relation.

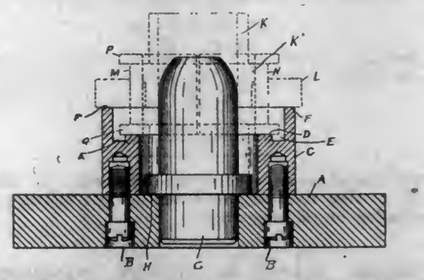
1,661,162. WINDOW. ROBERT H. BLISS, Syracuse, N. Y. Filed June 24, 1927. Serial No. 201,256. 8 Claims. (Cl. 189—69.)



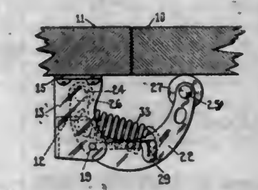
1. In a window, in combination, a frame, a hook-shaped hinge member secured to the upper side of said frame, a sash fitting closely within said frame, said sash being provided on its upper side with a slot into which the shank of said member extends, and a flat pivot bar provided on said sash adjacent the slot for pivotally supporting the same upon said hook, the width of said bar being greater than the open width of said hook so that it rests upon the upstanding end thereof, but the thickness of said bar being less than the open width of said hook so that the bar will drop edgewise into the hook opening as the window is swung open, the distance between the upstanding end of said hook and the inner face of said frame being greater than the width of said bar to permit the sash to be removed from said hook when opened approximately ninety degrees.

1,661,163. LOADING BLOCK FOR ASSEMBLING HALF BEARINGS FOR MACHINING. LOWELL C. BLOMSTROM, Detroit, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 6, 1927. Serial No. 211,086. 6 Claims. (Cl. 29—89.)

1. A loading device for bearings, comprising a supporting base, a central locating stud adapted to be removably engaged by a shell-supporting dummy, and a concentrically disposed encircling shell having a plurality of supporting surfaces whereon one edge of the bearing and its temporary encircling and clamping ring may be respectively rested at desired elevations relatively to the middle lengthwise point of the dummy and of the bearing shells respectively.

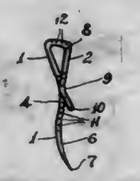


1,661,164. DOOR CHECK AND HOLDER. ALBIN F. BRAFF and FRITZ OTTOSON, Superior, Wis. Filed May 21, 1924. Serial No. 714,794. 3 Claims. (Cl. 292—79.)



2. In a door check comprising a housing containing a pivotally mounted checking and holding means, a rigid carrying frame pivotally secured to the housing and rigidly secured at a multiplicity of points, to the checking and holding means.

1,661,165. PAPER FASTENER OR CLIP. JAMES NISBET CAMERON, Johannesburg, Transvaal, South Africa. Filed Jan. 18, 1927. Serial No. 160,947. 2 Claims. (Cl. 24—85.)

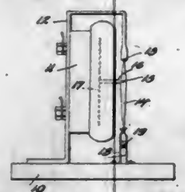


1. A device of the nature indicated, comprising a front part in the form of a frame, a back part in the form of a pointed pin, and a part connecting said pointed pin at the top to the top corner of said frame, the pin being shaped to project forwards into the frame and to co-operate with said frame to grip the material between them, the frame being bent from the top corner rearwardly in the direction of the pin and then bent forwardly in the direction of the bottom corner, as set forth.

1,661,166. RELAY. THADDEUS STEPHENS CASNER, Plainfield, N. J., assignor to Radio Electric Clock Corporation, New York, N. Y., a Corporation of New Jersey. Filed Apr. 23, 1925. Serial No. 25,390. 4 Claims. (Cl. 200—91.)

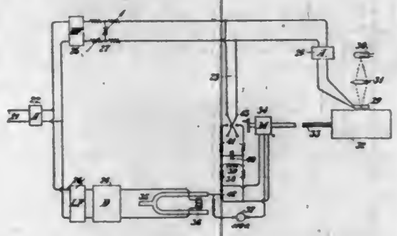
1. In a relay of the class described, in combination, a vibratory diaphragm, a pair of flexible contact car-

rying members normally in mutual engagement, a pivoted lever disposed between said members and connected to



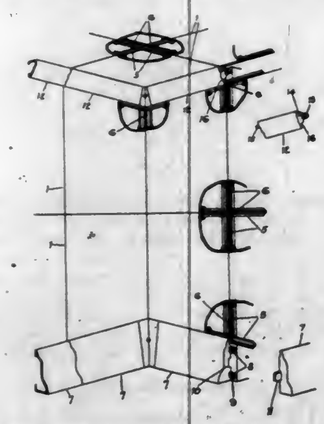
said diaphragm so as to strike the members in alternation to keep them separated due to their inertia during vibration of the diaphragm.

1,661,167. SYSTEM OF PICTURE TRANSMISSION. ALVA B. CLARK, Brooklyn, and DANFORTH K. GANNETT, Jackson Heights, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 23, 1925. Serial No. 4,322. 13 Claims. (Cl. 178—7.)



1. The method of producing a picture at the receiving end of a picture transmitting system, which consists in superposing a faint dot pattern on the picture so that this pattern will appear in the parts of light shade of the picture but will be substantially masked in the parts of dark shade.

1,661,168. PANELED WALL FACING. RAYMOND H. DAVIS, JOSEPH MILEWSKI, and MICHAEL MALONEY, Cleveland, Ohio. Filed Sept. 15, 1926. Serial No. 135,519. 4 Claims. (Cl. 189—88.)

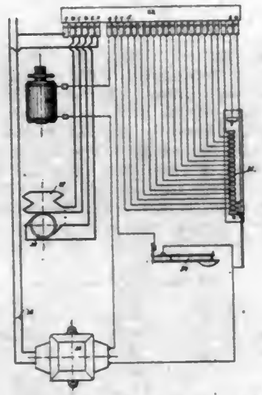


1. A wall construction including sheet metal panels having edges thereof reversely bent to provide laterally facing channels, a sound deadening backing for the sheet metal panels, and retaining strips provided with suitably spaced flanges adapted to receive and engage the channels of the panels.

1,661,169. MANUFACTURE OF COMPOSITIONS OR PREPARATIONS WITH CELLULOSE DERIVATIVES. HENRY DREYFUS, London, England. Filed May 26, 1923, Serial No. 641,761, and in Great Britain July 13, 1922. 12 Claims. (Cl. 134—79.)

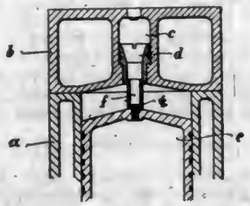
12. A composition of matter comprising ethyl cellulose, trichloro tertiary butyl alcohol and acetone.

1,661,170. ELECTRIC DRIVING SYSTEM. JACOB DRUKKER, Amsterdam, Netherlands. Filed Jan. 7, 1927, Serial No. 159,729, and in the Netherlands Sept. 14, 1925. 7 Claims. (Cl. 172—239.)



1. An electric driving system for phonographs, comprising a motor; a rotating element; a member traveling relatively to said element; connections leading from the motor to the rotating element and the traveling member to operate the same; a motor circuit including current supply means; two series of contacts, one of which is connected in said ciriuit for controlling the starting, stopping and reversing of the motor; a circuit having included therein a source of current and certain contacts of the second series; a set of secondary contacts each connected to one of the remaining contacts of the second series; a rotary switch cylinder provided with groups of contacts for engagement with contacts of both series; a spring contact carried by the traveling member to successively engage the secondary contacts to control the opening and closing of the circuits through the switch cylinder contacts; and an electromagnetic device in the second-named circuit for stepping the switch cylinder each time that circuit is closed.

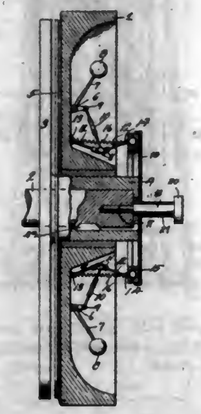
1,661,171. INTERNAL-COMBUSTION ENGINE. KARL EIERMANN, Munich, Germany, assignor to the Firm: Colo-Diesel-Motorengesellschaft m. b. H., Munich, Germany. Filed Apr. 14, 1924, Serial No. 706,700, and in Germany Apr. 18, 1923. 1 Claim. (Cl. 123—33.)



An internal combustion engine for practicing the method hereinbefore described, comprising in combination, a cylinder having an ignition chamber, a reduced neck for said ignition chamber, a working piston reciprocating in the engine cylinder, a sleeve member on the top of the piston in intimate sliding contact with the neck of the

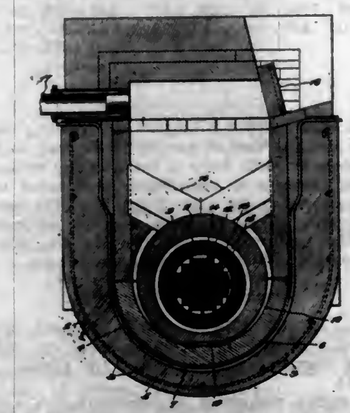
ignition chamber when the piston approaches its upper dead center position, and perforations at the base of the said sleeve member providing the only means of communication between the ignition chamber and the compression chamber of the cylinder upon the projection of said sleeve member into the neck of the ignition chamber.

1,661,172. CLUTCH. JAMES CARLTON ENGLAND, Dilsboro, N. C. Filed Sept. 9, 1925. Serial No. 55,314. 1 Claim. (Cl. 192—105.)



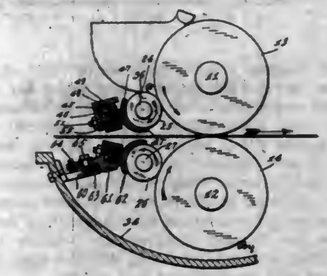
A clutch comprising a drive shaft, a drive disc carried by said shaft, a hub carried by the drive disc, a pulley forming a clutch element slidably mounted on the hub and cooperating with the drive disc, bell crank levers mounted on the pulley, weights carried by one of the arms of said levers, inwardly and outwardly extending connecting rods connected to the other arms of the bell crank levers, a thrust collar, arms pivotally connected to the thrust collar and to the pulley and extending towards each other and out of alinement with each other, said connecting rods having their inner ends pivotally connected to the adjacent ends of the arms and forming means whereby said inner ends of the arms will be moved to positions beyond alinement and spring means cooperating with the arms for maintaining the same out of alinement.

1,661,173. ELECTRIC FURNACE. CHARLES B. FOLEY, Fort Wayne, Ind., assignor to Charles B. Foley, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 23, 1922, Serial No. 545,983. Renewed July 27, 1926. 13 Claims. (Cl. 266—1.5.)



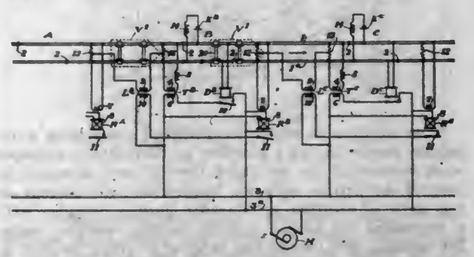
3. An electric induction furnace, comprising a crucible having a tube passing therethrough and cooperating with the sides and bottom thereof to form a closed channel opening into the crucible on opposite sides, the axis of the bore of said tube being located a substantial distance below the axis of the periphery thereof.

1,661,174. GLUE SPREADER. HARRY G. FRANCIS, Rushville, Ind. Filed Feb. 14, 1927. Serial No. 167,989. 7 Claims. (Cl. 91—51.)



3. In a device for applying glue to material, the combination of a spreader roll, means for applying glue to said roll, a scraper roll for limiting the thickness of the glue film adhering to said spreader roll, journals in which said scraper roll is rotatably mounted, and means for supporting said scraper roller at one or more points between said journals, said supporting means including one or more shoes adapted to bear against said scraper roll, spring means for holding said shoes against said scraper roll, and means for varying the pressure exerted by said spring means.

1,661,175. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 22, 1926. Serial No. 136,931. 5 Claims. (Cl. 246—34.)

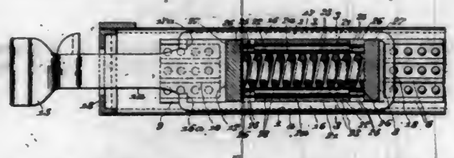


2. In combination, a stretch of railway track divided into a plurality of successive track sections by pairs of staggered insulated joints, a checking relay and a source of energy connected in parallel across the rails between the joints of each pair, and means controlled by each checking relay for supplying track circuit current to the rails of an adjacent section.

1,661,176. STEEL RAIL. HERMANN GINK, Ansbach, Germany. Filed Sept. 26, 1925, Serial No. 58,938, and in Germany Oct. 9, 1924. 1 Claim. (Cl. 238—150.)

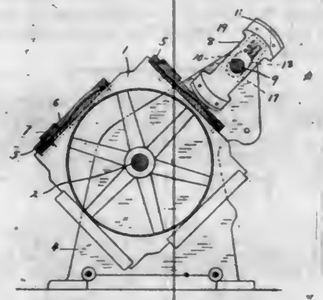
As a new article of manufacture a steel rail having a content of manganese, amounting to from 1¼% to 2%, a content of silicium amounting to from 0.25% to 0.50% and a content of carbon amounting to from 0.20% to 0.45%, said contents of silicium and carbon ranging inversely or approximately inversely relatively to each other.

1,661,177. BUFFER MECHANISM. WILLIAM HAMILTON, Newark, Ohio. Filed Apr. 22, 1924. Serial No. 708,145. 16 Claims. (Cl. 213—22.)



1. Draft rigging comprising a draw bar, and buffer mechanism intervening between said draw bar and the vehicle and comprising a chamber, a series of members of relatively soft compressible resilient material therein, resilient means within said chamber between which and the wall of said chamber said compressible members are confined, the material from which said resilient means is formed differing in character from said compressible resilient material, and means for transmitting force from said draw bar to said compressible members for compressing them and for developing friction upon the wall structure of said chamber and said means.

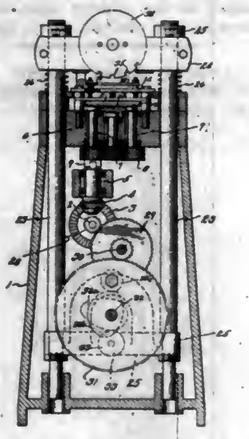
1,661,178. STAMPING OR EMBOSSING MACHINE. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed June 6, 1923. Serial No. 643,683. 6 Claims. (Cl. 101—5.)



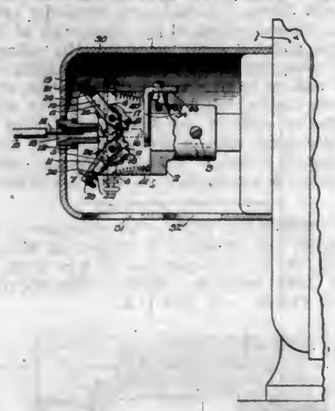
1. A machine of the class described comprising a rotatable carrier having a plurality of tangentially arranged work holders on the periphery thereof, each arranged to support an article with its lengthwise axis tangent to the circle of rotation, a rotatable member provided with a segmental die having a rigid working surface, means for rotating said carrier and member in timed relation to cause said die to roll upon the work in successive work holders, and means allowing a relative yielding between said die and the work when in engagement.

1,661,179. MULTIPLE DRILLING MECHANISM. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 19, 1925. Serial No. 10,289. 8 Claims. (Cl. 144—94.)

1. In a multiple drill, the combination of a plurality of parallelly arranged plates having drill receiving apertures therein arranged in a predetermined pattern, the same in each plate, of drills engaging the apertures of one of said plates and provided with similar offset crank portions engaging the corresponding apertures of another of said plates, an imperforate plate adjacent to the crank receiving plate and forming a thrust bearing for the ends of said crank portions, means for simultaneously oscillating said crank receiving plate and imperforate plate to simultaneously rotate all of said drills, a fixed bed for supporting said plates and an anti-friction bearing between said bed and said imperforate plate for receiving the end thrust of the drills while permitting the free oscillation of said plate.



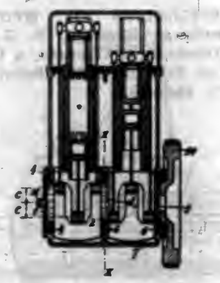
1,661,180. INSULATED-WIRE STRIPPER. LAWRENCE JOHNSON, Chicago, Ill., assignor to Johnson & Wentink, Chicago, Ill., a Partnership consisting of Lawrence Johnson and Alfred N. Wentink. Filed Sept. 10, 1924. Serial No. 736,843. 7 Claims. (Cl. 81—9.5.)



1. In a wire stripper, a continuously rotating head, a guide for the insertion of wire to be stripped, and cutting members pivotally hung to swing axially within said head, said members by centrifugal force urged into a plane transverse to the axis of the head, the members axially yielding to the incoming wire but returning to their initial position upon withdrawing the wire and penetrating the insulation while thus returning.

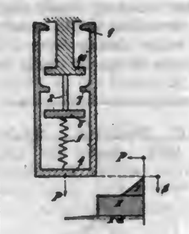
1,661,181. CRANK SHAFT. HUGO JUNKERS, Dessau, Germany. Filed Nov. 17, 1921, Serial No. 515,986, and in Germany Feb. 17, 1921. 3 Claims. (Cl. 74—38.)

1. An engine comprising in combination, a cylinder, two pistons adapted to simultaneously reciprocate in said cylinder in opposite directions, a three throw crank shaft having a middle crank operatively connected with the inner piston and two outer cranks operatively connected with the outer piston and extending oppositely to and having smaller radii than said middle crank, a



circular disc carrying one of said outer cranks, a bearing for said disc, permitting angular movement of said disc, and a crank case constructed to permit of removal of the crank shaft in an axial direction.

1,661,182. SHOCK-ABSORBING MEANS. HUGO JUNKERS, Dessau, Germany. Filed May 6, 1922, Serial No. 558,901, and in Germany May 6, 1921. 14 Claims. (Cl. 267—60.)



1. The combination with two relatively movable parts, of a shock absorbing device comprising a permanently deformable substantially inelastic member.

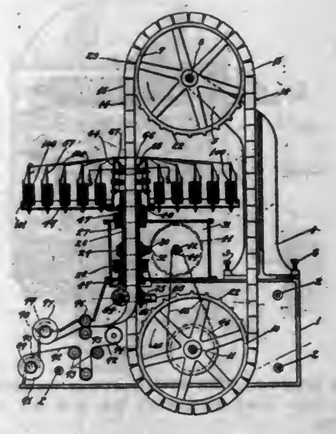
1,661,183. WALL-FORMING MEMBER. HUGO JUNKERS, Dessau, Germany. Filed Mar. 30, 1927, Serial No. 179,531, and in Germany Apr. 3, 1926. 14 Claims. (Cl. 72—35.)



2. Wall-forming member comprising a metal skin, a heat insulating layer, a layer of hardened, plastic, mineral matter on said heat insulating layer and a watertight skin on said mineral layer.

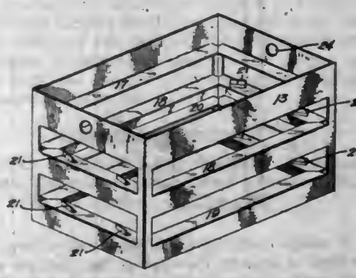
1,661,184. MEANS FOR MAKING WARPLESS TIRE FABRICS IN CONTINUOUS ROLLS. CORNEL KMENTT, Youngstown, Ohio. Filed Dec. 28, 1925. Serial No. 77,948. 18 Claims. (Cl. 154—1.)

1. In a machine for making tubular fabrics, a drive-sprocket and a driven sprocket; an endless mandrel trained about said sprockets and comprising a plurality of rigid sections, and connecting links for hingedly joining said sections; said links being disposed in parallel eccentric relation to the longitudinal axis of said sections



and adjacent said sprockets whereby said sections will jointly form a substantially rigid continuous body when traveling rectilinearly and open up outwardly when traveling around said sprockets.

1,661,185. CHEST HAVING REMOVABLE LINER AND TRAYS. RALPH A. LINDSEY, Minneapolis, Minn. Filed July 26, 1926. Serial No. 124,901. 4 Claims. (Cl. 220—1.)

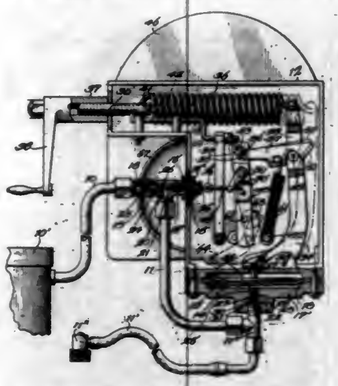


1. A sheet metal rectilinear chest liner having drawer openings in its sides, tray-supporting flanges at the tops of said openings and drawer-supporting flanges at the bottoms thereof, said flanges being cut and pressed from the liner, a tray removably supported in the liner on the tray-supporting flanges, and a drawer movable into and out of the liner through one of said openings and slidably supported on said drawer-supporting flanges.

1,661,186. AIR-SERVICE EQUIPMENT. THOMAS M. MANSON, Toronto, Ontario, Canada, assignor to Service Station Equipment Company, Bryan, Ohio, a Corporation of Ohio. Filed Oct. 7, 1926. Serial No. 140,222. 3 Claims. (Cl. 50—5.)

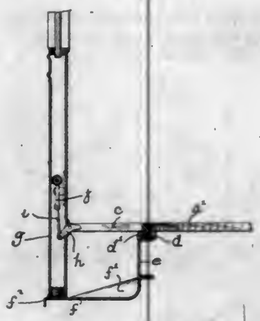
1. The combination with a source of air under pressure; of piping through which air is conveyed from said source to a receiver; a valve between said source and piping; mechanism in controlling relation to said valve and connected with the piping and operable by air admitted thereto from said piping to enable closure of the valve, said mechanism being regulable to enable the

closure of the valve at selected air pressure; and adjustable means for holding the valve open in opposition to the valve closing effect of said mechanism to permit



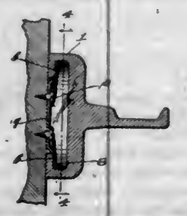
air to be supplied to the receiver at any required higher pressure than that permissible by said air operated mechanism.

1,661,187. VEHICLE BODY. ALFRED F. MASURY and CHARLES FROESCH, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1925. Serial No. 73,077. 4 Claims. (Cl. 296—25.)



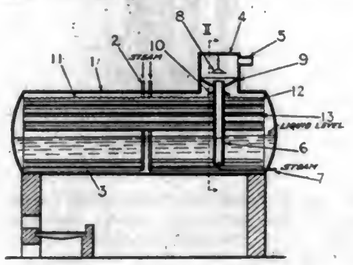
1. In a vehicle body having a floor and a step below the floor level, a door at the edge of the step, an articulated floor section carried with the door, and means carried with the door and automatically operable upon movement of the door to move said section between a position in continuation of the floor and a position uncovering the step.

1,661,188. WALL FIXTURE. ALBERT K. MATTHEWS, Oak Park, Ill. Filed Dec. 6, 1926. Serial No. 153,024. 2 Claims. (Cl. 248—20.)



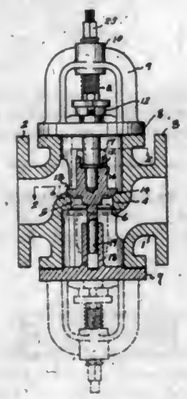
1. A wall fixture including an attaching plate having offset resilient end portions provided with apertures, a fixture having a hollow base for the reception of the plate, and means on one of the members operated by the rotation of the fixture relative to the plate for engaging in the apertures of the plate to hold the fixture and plate against accidental relative rotation.

1,661,189. DISTILLATION OF HYDROCARBONS. MERLE R. MEACHAM, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed June 25, 1923. Serial No. 647,517. 6 Claims. (Cl. 196—85.)



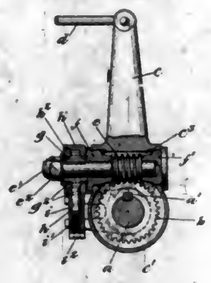
1. Apparatus of the character described which comprises a still, multi-perforated steam inlet pipes along the bottom of the still, an open-ended circulating tube projecting upwardly into the still from a point near the bottom, a steam jet beneath said circulating tube, deflector plates and a trough near the upper end of the circulating tube for receiving liquid discharged from the tube, said trough extending longitudinally of the still and having its side walls shaped with liquid distributing edges, and a plurality of spaced liquid distributing baffles under the trough.

1,661,190. VALVE. WILLIAM J. MEAD, Galveston, Tex. Filed May 13, 1927. Serial No. 191,146. 8 Claims. (Cl. 251—155.)



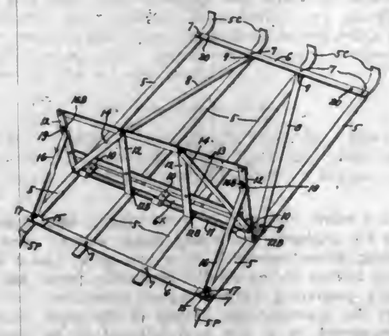
1. A device of the character described including a casing having a fluid conduit therethrough, a web in the casing having an opening which forms a continuation of said conduit, said web being formed with valve seats, one on each side of said opening, removable end plates carried by the casing, a yoke carried by one of said end plates and formed with an internally threaded bearing, a valve stem threaded through said bearing and passing through the corresponding end plate, a valve having a swivelling connection with said stem and adapted to cooperate with one of said seats to open or close said opening and a detachable split-nut retaining the valve on the stem.

1,661,191. AUTOMATIC BRAKE-ADJUSTING MECHANISM. GABRIEL MIDBOE, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 8, 1927. Serial No. 159,880. 1 Claim. (Cl. 188—196.)



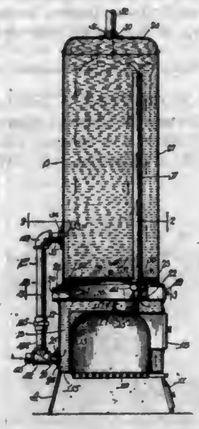
In an automatic brake adjusting mechanism, means for applying the brake, mounting means therefor, a brake lever associated therewith, a cylindrical housing receiving the brake applying means, a similar housing therein disposed transversely of the first housing, a worm wheel carried by the applying means and received within the first housing, a shaft transverse to the applying means and carried by the second housing, a worm mounted on the second shaft and engaging the worm wheel, a ratchet and pawl mechanism carried by the second shaft outside the second housing, an arm carried by the ratchet and pawl device, and spaced lugs upon the first named mounting means, said arm extending between the lugs whereby predetermined movement of the lever with respect to the mounting means causes the arm to engage a lug to effect the operation of the ratchet mechanism.

1,661,192. PORTABLE ROOFING HOLDER. ELMER M. NELSON, St. Paul, Minn. Filed Sept. 7, 1927. Serial No. 217,998. 2 Claims. (Cl. 304—20.)



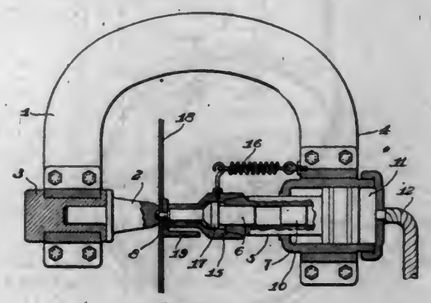
1. In a portable roofing holder, a quadrangular base with parallel skid bars turned upwardly at their front ends and a number of said bars bent downwardly and pointed at their rear ends, a quadrangular frame pivotally mounted transversely on said base and intermediate its ends, said frame adapted to be raised vertically with relation to the base and means for holding said frame in its upright position, said latter means comprising a number of brace bars each pivotally mounted with one end to the rear part of the base and adapted to removably engage the upper or free edge portion of said frame with its free end, and means securing each said brace to the frame.

1,661,193. WATER HEATER. JESSE H. NEWPORT, Kenilworth, Ill. Filed Dec. 28, 1922. Serial No. 609,380. 3 Claims. (Cl. 122—15.)



1. In a heater of the character described, the combination with a water chambered fire pot having a horizontal partition near the top thereof and said partition being provided with a flue passageway therethrough; of a separate water storage tank supported on said fire pot and having a bottom wall spaced above the said horizontal partition to thereby provide with the latter a supplemental flue chamber and a direct heating surface on the bottom wall of the tank; a pipe connection between the tank and the fire pot located exteriorly thereof; a second pipe connection between said tank and the fire pot and located within the confines of the side walls of the tank and the fire pot, the said second connection comprising a detachable union; and means providing access from the exterior of the heater to said union for manipulating the latter.

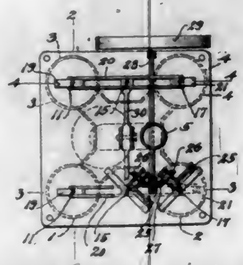
1,661,194. RIVETING APPARATUS. RAYMOND S. OSBORNE, Cincinnati, Ohio. Filed Feb. 3, 1925. Serial No. 6,554. 2 Claims. (Cl. 78—48.)



1. In a jam riveter, the combination of a yoke comprising a pair of arms, a rivet set rigidly borne by one yoke arm and a hammer riveter mounted on the other yoke arm, said riveter including a single barrel in axial alinement with the rivet set and slidable in the yoke arm, means for forcing said barrel toward the rivet set, a work clamping sleeve firmly seated on the inner end of the hammer barrel having an annular face in axial alinement with the rivet set and normal to such axis, pro-

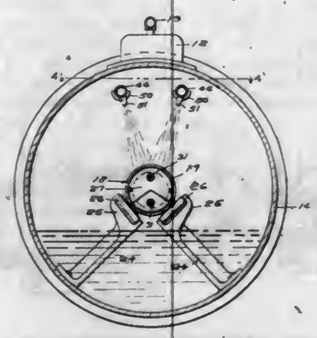
vided with a clearance bore for the upset head of the rivet and with a larger bore intermediate said face and the end of the hammer barrel, a hammer having portions fitting the hammer barrel and the clearance bore of the clamping sleeve and having a collar in the larger intermediate bore of said sleeve, and a reciprocating piston back of and adapted to strike the inner end of the hammer.

1,661,195. BALANCED PUMP. ADELBERT F. PARKER, Ogden, Utah; Wynne M. Parker, administrator of the said Adelbert F. Parker, deceased. Filed Jan. 9, 1923. Serial No. 611,584. 7 Claims. (Cl. 103—206.)



1. A pump including a pair of working cylinders and a pair of balancing cylinders, a pair of working pistons mounted in each working cylinder, telescoping piston rods for the working pistons, a balancing piston mounted in each balancing cylinder, a piston rod for each balancing piston, separate lever connections between the piston rod of the balancing piston and the piston rods of the working pistons of each pair whereby the working pistons have a differential movement, and means for causing the pressure due to the head against which the pump is operating to act upon the balancing pistons in such a manner as to counterbalance the pressure on the working pistons.

1,661,196. APPARATUS FOR CRACKING OIL. ROYAL S. PERSHING, Fort Worth, Tex. Filed Oct. 28, 1924, Serial No. 746,434. Renewed July 21, 1927. 6 Claims. (Cl. 196—121.)



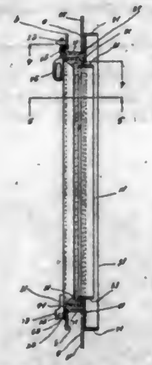
2. In apparatus of the character described, a still, a plurality of spaced supports having rollers mounted within the still, a metallic container supported by the rollers, electrical heating means within the metallic container, means for spraying oil upon the metallic container, and means whereby the vapors generated may pass from the still

1,661,197. GAME. ALBERT P. RICHARDSON, Salem, Mass., assignor to Parker Brothers, Inc., Salem, Mass., a Corporation of Massachusetts. Filed Dec. 8, 1927. Serial No. 238,521. 6 Claims. (Cl. 273—102.)



1. A game target adapted to be applied to a standard, the target having a spring clamp for removably attaching it to an edge of the standard, so that the target will be dislodged only by a direct hit.

1,661,198. WINDOW FRAMING. EDWARD M. RUNDGREN, Chicago, Ill., assignor to Western Architectural Iron Company, Chicago, Ill. Filed Oct. 19, 1925. Serial No. 63,210. 4 Claims. (Cl. 189—69.)

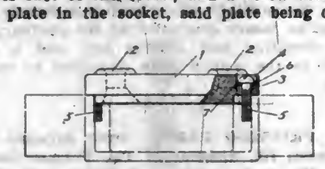


1. A window construction comprising a main framing having an outwardly projecting flange and an inwardly projecting flange connected by a web part; and a sash framing having an outwardly projecting flange and an inwardly projecting flange adapted respectively to seat against the corresponding flanges of the main framing and connected by a web part adapted to be situated opposite the web part first mentioned; a lateral flange on the inwardly projecting flange of the sash framing to engage with the edge of the inwardly projecting flange of the main framing; and means for securing the sash framing in place, substantially as described.

1,661,199. CONTAINER COVER. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 26, 1924. Serial No. 758,137. 2 Claims. (Cl. 247—15.)

1. In a container cover, the combination of a cover having an opening therethrough adapted to receive a

securing screw, said opening terminating in a socket on the outer face of the cover; and a screw retaining perforated plate in the socket, said plate being of initially



greater diameter than the socket, and said plate being of soft material with its edges cupped in engagement with the walls of the socket.

1,661,200. TOILET ARTICLE. SAMUEL SPITZ, New York, N. Y. Filed Aug. 24, 1927. Serial No. 215,006. 7 Claims. (Cl. 132—84.)

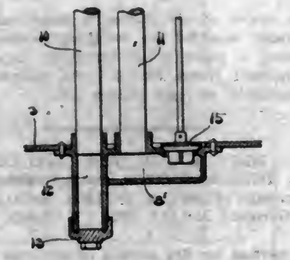


1. In a toilet article, a handle, a brush holder pivotally mounted on one end of the handle, a brush detachably secured in said holder and shaped to brush the surfaces of the teeth, a second brush pivoted to the other end of the handle and shaped to brush between the teeth, and a spring-mounted on the handle and engaging with the brush holder at one end and the brush at the other end to hold them against inadvertent pivotal movement.

1,661,201. PROCESS OF MAKING STARCH PRODUCTS. ERNST STERN, Charlottenburg, Germany. Filed Mar. 20, 1926, Serial No. 96,331, and in Germany Aug. 5, 1924. 22 Claims. (Cl. 127—33.)

1. A process consisting in that a composition of starch and of a compound of alkaline earths capable of precipitating the composition in water is mixed with at least one additional agent of salt character consisting of anionic and cathionic ingredients and soluble in water, at least one of the ingredients named being capable of forming with the starch a starch composition soluble in the solvent named.

1,661,202. TANK-CAR SIPHON VALVE. EDWIN S. THAYER, Oakdale, Pa. Filed Jan. 26, 1925, Serial No. 4,712. Renewed Dec. 20, 1927. 9 Claims. (Cl. 137—21.)

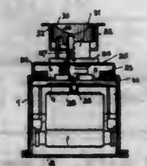


2. In combination with a tank, a siphon having its inlet leg mounted in a sump in the tank, and a valve for controlling the admission of liquid into the sump, the outlet leg of said siphon being connected to a discharge pipe.

1,661,203. PROCESS FOR THE RAPID EVAPORATION TO DRYNESS OF AMMONIUM-NITRATE SOLUTIONS. CARLO TONIOLO, Milan, Italy. Filed Jan. 27, 1926, Serial No. 84,251, and in Italy Feb. 7, 1925. 4 Claims. (Cl. 23—103.)

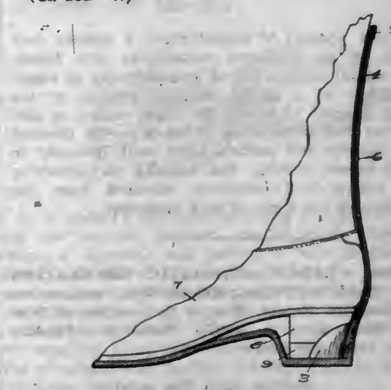
1. The process of preparing dry ammonium nitrate which comprises incorporating a hot concentrated ammonium nitrate solution with a mass of dry ammonium nitrate while blowing air through said dry nitrate.

1,661,204. WRITING DEVICE. WALTHER VOITH, St. Polten, near Vienna, Austria. Filed Oct. 24, 1924, Serial No. 745,581, and in Austria Oct. 31, 1923. 6 Claims. (Cl. 281—11.)



1. In a device comprising a casing, a window therein, and a strip for a manuscript under said window, said strip being guided within said casing, the combination of a runner arranged above said window, means for guiding said runner longitudinally to said window, a slide guided upon said runner transversely of its longitudinal movement, and a sleeve, said sleeve carrying a stylus, said sleeve being supported by said slide, said sleeve being movable perpendicularly to said strip, a spring tending to move said sleeve away from said strip, and a knob fixed to said sleeve, said sleeve being movable in all directions parallel to said strip while being pressed against it.

1,661,205. ARCTIC APPLIER AND REMOVER. CARL R. WAGNER and CLYDE E. RUBOTTOM, Peoria, Ill. Filed Sept. 29, 1927. Serial No. 222,718. 3 Claims. (Cl. 132—7.)

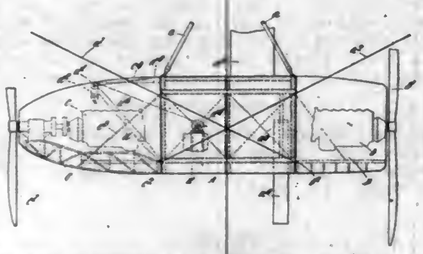


1. In an arctic applier and remover the combination of a heel guard adapted to be placed on the heel of a shoe, and a flexible member attached to the guard and passing to the upper portion of an arctic.

1,661,206. LIGHTER-THAN-AIR AIRCRAFT. BARNES NEVILLE WALLIS and CHARLES DENNISTON BURNEY, Westminster, London, England, assignors to Airship Guarantee Company, Limited, Westminster, England, a British Company. Filed Sept. 17, 1927, Serial No. 220,245, and in Great Britain Sept. 17, 1926. 6 Claims. (Cl. 244—6.)

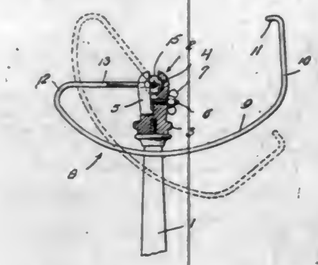
1. An engine car for an airship, comprising a permanent section to which the drag wires and suspension

wires are connected and which surrounds the access tank to the airship and a removable section which contains the engine and its propeller and which is



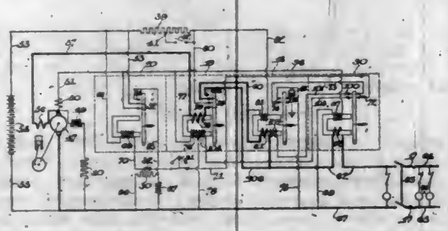
detachably connected to the permanent section so that when necessary it can be removed without disturbing the controls and fixtures etc. in the permanent section.

1,661,207. DISPLAY RACK. SAMUEL L. WEAVER, Chicago, Ill., assignor to J. Howard Steiner, Leo Schoneberg, and Harry Silvers, Chicago, Ill. Filed Jan. 8, 1927. Serial No. 159,915. 2 Claims. (Cl. 211—163.)



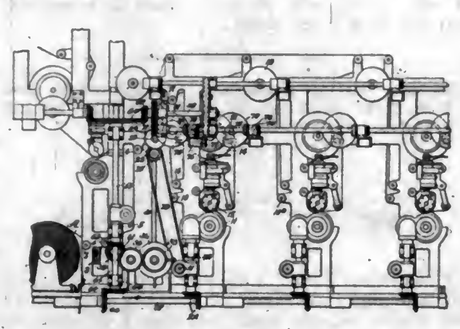
1. As a new product of manufacture, a display rack in the form of an elongated rectangular wire frame, having its central portion bowed longitudinally to represent a segment of a circle, one end portion of the frame being directed at substantial right angles to said bowed portion and terminating in an inwardly directed hook, the opposite end portion being bent inwardly to overlie the bowed portion and forming an attaching extension, and a ball connector mounted upon the central portion of the bight of said extension.

1,661,208. LARGE AUTOMATIC GENERATING PLANT. EARL R. WITZEL, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed May 14, 1927. Serial No. 191,421. 4 Claims. (Cl. 290—30.)



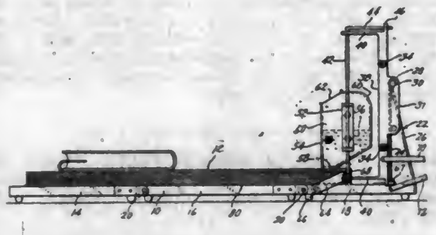
2. In combination with the automatic control switching mechanism for gas-engine-operated generating units of the demand starter type having a control relay for starting and stopping the unit depending on a demand on the mains provided with a holding coil in series with the mains, an auxiliary relay having a coil in series with the mains, means controlled by the auxiliary relay for short circuiting said holding coil, and a second holding coil on the control relay controlled by the auxiliary relay.

1,661,209. PRINTING PRESS. OTTO RICHARD WOLF, River Forest, Ill., assignor to The Tribune Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1922. Serial No. 567,624. 28 Claims. (Cl. 101—152.)



1. In a printing press having printing units, a web feed device and a drive, the combination of driving means for said device and driven by said drive, said means including differential driving elements, and continuously operated adjustable elements for varying the driving effect of one side of the differential driving elements.

1,661,210. WRAPPER-PASTING DEVICE. HARRIE P. WOOD, Leonia, N. J. Filed July 22, 1926. Serial No. 124,199. 9 Claims. (Cl. 93—68.)



1. In a device of the character described, a suitable base, a frame mounted for swinging movement relative to said base, a plurality of vertically arranged guides mounted in said frame, and a paste receptacle or tank slidably mounted on said guides.

1,661,211. METHOD FOR THE DRY COOLING OF COKE. REINHARD WUSSOW, Charlottenburg, near Berlin, Germany. Filed Oct. 19, 1926, Serial No. 142,693, and in Germany Jan. 17, 1923. 2 Claims. (Cl. 202—11.)

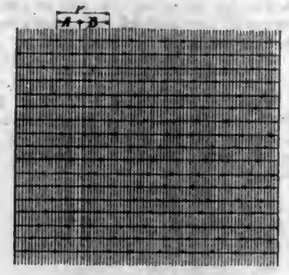
1. The method for dry cooling of hot coke and production of water gas, which comprises cooling the coke by circulating a gaseous carrier medium, chemically inert with respect to the coke, through the lower portion only of a vertical column of the coke, the upper portion of the column being at a temperature sufficient to carry out the water gas reaction; injecting into the circulating

gaseous medium, while out of contact with the coke, a spray of water to cool said medium and to produce steam; allowing gas to pass through the column from the lower



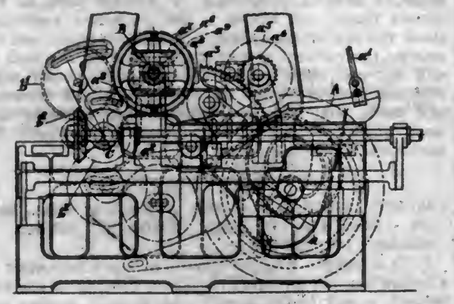
portion of the column to the top thereof; and withdrawing at the top of the column the water gas formed by the reaction of the steam with the hot coke.

1,661,212. HACKLING MACHINE. THOMAS BARBOUR, Belfast, Ireland. Filed June 3, 1926. Serial No. 113,520, and in Great Britain June 16, 1925. 1 Claim. (Cl. 19—127.)



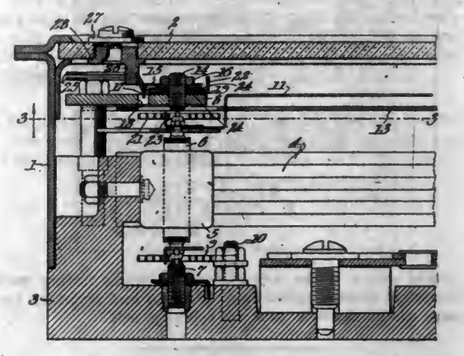
A hackling machine having a series of hackles each provided with a row of pins, the pins of the successive hackles being arranged in diagonal paths, and said paths being spaced apart different distances, in order that some of the pins of each hackle are made to intersect spaces which would prevail if the pins of the hackles were spaced apart regularly.

1,661,213. HACKLING MACHINE. THOMAS BARBOUR, Belfast, Ireland. Filed June 3, 1926, Serial No. 113,521, and in Great Britain June 16, 1925. 9 Claims. (Cl. 19—70.)



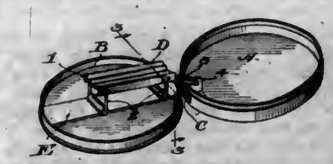
1. In a hackling machine, mechanism for reciprocating the material and actuating hackling means to operate on the material, and including a differential motion device so controlled by the movement of said material and driving the hackling means as to produce a uniform hackling action without regard to the direction of movement of the material.

1,661,214. ZERO CORRECTOR. GRANT CARPENTER, Newark, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a Corporation of New Jersey. Filed Nov. 6, 1926. Serial No. 146,766. 4 Claims. (Cl. 116—129.)



1. A zero adjuster comprising a spring abutment, a corrector plate at each side of said abutment and in surface contact therewith, means pressing said plate and abutment into frictional engagement to prevent relative angular movement thereof, extensions on said corrector plates, and an eccentric cooperating with said extensions for adjusting said plates.

1,661,215. SMOKER'S APPLIANCE. DANIEL W. CAUSEY, Norfolk, Va. Filed Aug. 12, 1926. Serial No. 128,791. 8 Claims. (Cl. 131—51.)

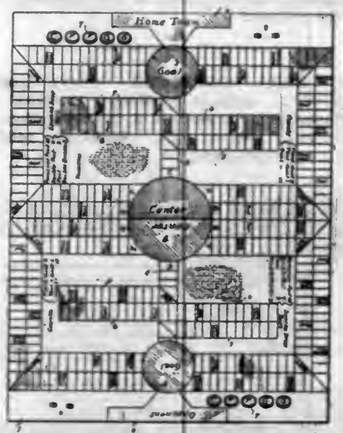


8. A smoker's appliance including a receptacle comprising two cup-like sections, one of which constitutes a cover, a cigarette rest having a base member rigidly fitted into one of the receptacle sections, and a plate member provided with swinging supports connected with the base member and with the plate member, and means causing the automatic raising of the plate member with its supports upon the removal of the cover section of the receptacle, and for the depression of the plate member upon replacing said cover section.

1,661,216. BASKET-BALL GAME. SAMUEL DESTEFANO, Monessen, Pa. Filed May 9, 1927. Serial No. 190,074. 1 Claim. (Cl. 273—85.)

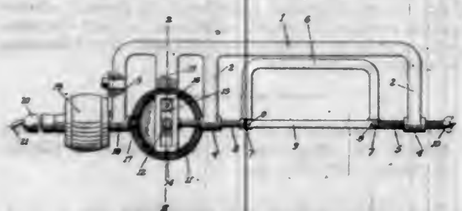
A game of the character specified comprising a base having a playing field delineated thereon, and including a centrally disposed space divided to provide two starting points, and a space at each end of the base representing a goal, a line of spaces extending longitudinally from each starting point, thence extending laterally and across the base from one side to the opposite side and returning and making connection with the goal, and other lines of spaces extending laterally in opposite directions

from each starting point, thence along the marginal edges of the base and returning and connecting with the goal,



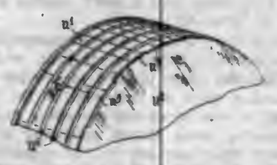
certain spaces of the several lines of spaces having data imprinted thereon indicating the move and count of the game pieces movable over the playing field.

1,661,217. POWER-DRIVEN BUTCHER SAW. FRED FARRELL, Sacramento, Calif. Filed Mar. 8, 1926. Serial No. 93,030. 2 Claims. (Cl. 143—68.)



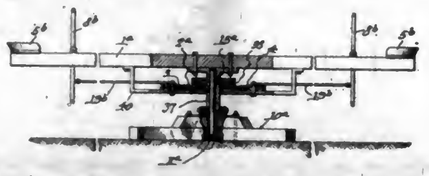
1. A power saw comprising a main frame, an auxiliary frame transversely alined with the main frame, longitudinally alined stems projecting from the ends of the auxiliary frame and slidable in the main frame, means mounted in connection with the stems for supporting a saw in longitudinal alinement with the stems, a motor axially alined with the stems mounted on the main frame beyond the auxiliary frame, a slotted crosshead mounted on the adjacent stem, the slot of said crosshead being at an angle to the stem, a gear driven from the motor mounted on the main frame and to one side of the crosshead in a plane parallel thereto, and a block turnably mounted on the gear eccentric to the axis thereof and riding in the slot to impart longitudinal reciprocating movement to the crosshead and stem with the rotation of the rear.

1,661,218. BRAKE DRUM. JENÖ FEJES, Budapest, Hungary. Original application filed May 28, 1926, Serial No. 112,343. Divided and this application filed Dec. 30, 1926. Serial No. 158,067. 2 Claims. (Cl. 188—218.)



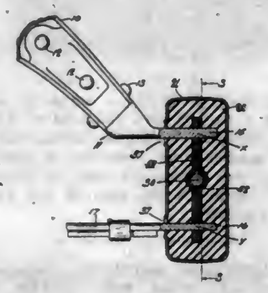
1. A brake drum for wheels of motor and other vehicles comprising a cylindrical portion (u_1), and a disc-like portion (u_2), both portions being made of sheet-iron and edge-welded together and the said cylindrical portion (u_1) of sheet iron being made of a strip having dovetailed ends butt-welded along the edges, as set forth.

1,661,219. MERRY-GO-ROUND. CYRUS WEST FIELD, Wauseon, Ohio; Cora Bell Maxwell, executrix of Cyrus W. Field, deceased, assignor to Cora Bell Maxwell, Delta, Ohio. Filed Feb. 7, 1925. Serial No. 7,655. 2 Claims. (Cl. 272—33.)



1. In a device of the character described, a base, a casting supported on the base and having an upper reduced end portion, shaft extending upwardly from the base, a beam having seats at its ends, a bracket extending downwardly from the beam and having an opening to receive the reduced end portion, a gear on the shaft, a plurality of gears carried by the bracket, manually controlled means for operating the last mentioned gears, to rotate the beam, and anti-friction means for supporting the weight of the beam.

1,661,220. SPRING SHACKLE. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed May 18, 1926. Serial No. 109,979. 6 Claims. (Cl. 267—30.)

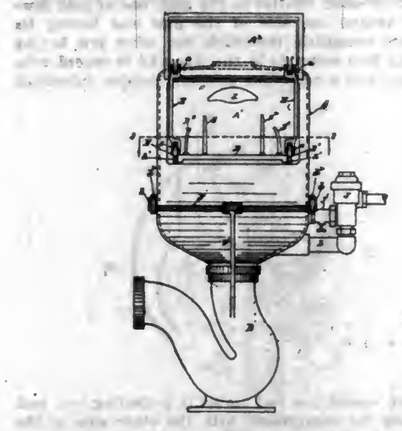


1. In combination with a vehicle spring and chassis frame, a shackle comprising: a member fixed to the chassis frame and having a flat projection positioned above the end of the spring, a rubberized fabric web extending transversely to and linking together the ends of said flat projection and spring, a flexible rubber block confining said projection and spring end and enclosing said fabric web, and a metallic housing confining said block under compression and isolated from both the spring and frame member.

1,661,221. BEDPAN WASHER. GEORGE F. HALL, Erie, Pa. Filed Dec. 15, 1926. Serial No. 155,012. 5 Claims. (Cl. 141—1.)

1. In a bed-pan washing apparatus, the combination of a hollow box-like structure having an opening in one side thereof, a door hinged at one edge of said opening and adapted to close said opening, a holder frame hinged to said box-like structure, and to said door, whereby when said door is closed said holder frame is folded into said box, a jet spray adapted to direct a jet of water against

the upper side of said holder frame, means to secure a bed-pan on said holder, and a valve mechanism adapted



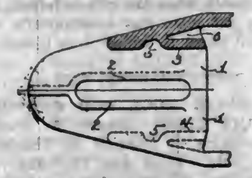
to be tripped by said holder when a pan is secured thereon and it is folded into said box, whereby said pan will be cleansed.

1,661,222. ELECTRIC HEATER. WILLIAM C. HUNT, Toronto, Ontario, Canada. Filed Mar. 12, 1927, Serial No. 174,868, and in Canada Feb. 17, 1927. 10 Claims. (Cl. 219—34.)



1. An electric heater comprising a reflector plate; a block of insulating material secured to the plate; terminals for the connection of conductors secured thereto and accessible at the back of the plate; arms at the front of the plate connected with the terminals; a core of insulating material for resistance wiring; resistance wiring carried thereby; metal caps adapted to disengageably receive the ends of the core; means for detachably securing said caps to the aforesaid arms; and means for detachably securing the ends of the resistance wiring to said metal caps.

1,661,223. COUPLER YOKE. GEORGE T. JOHNSON, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Dec. 16, 1924. Serial No. 756,342. 8 Claims. (Cl. 213—70.)

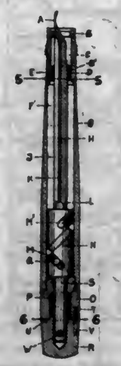


1. A draft yoke for cars having a hooded end with a floor and a roof, the opposed surfaces of the floor and the roof being parallel with the longitudinal axis of the yoke and arranged to closely engage the top and bottom of a coupling shank, said surfaces having transverse channels between their ends and the rear portions of the roof and floor being vertically expanded and provided with sockets in their rear edge portions.

1,661,224. PRIMARY GALVANIC BATTERY. ERNST WALDEMAR JUNGNER, Kneippbaden, Sweden. Filed June 1, 1920, Serial No. 385,785. and in Sweden Feb. 14, 1919. 3 Claims. (Cl. 136—122.)

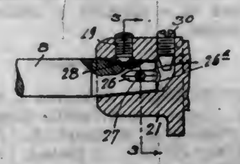
1. A porous electrode for electric batteries, consisting of porous carbon the pore walls of which are coated with a thin layer of paraffine in such manner that the natural pore volume of the carbon is maintained to an essential degree.

1,661,225. FOUNTAIN PEN. THEODOR KOVÁCS, Berlin, Germany. Filed Mar. 6, 1926, Serial No. 92,807, and in Germany Mar. 3, 1925. 7 Claims. (Cl. 120—49.)



1. A fountain pen comprising an inkholder, a feed bar, means for reciprocating said feed bar in said inkholder, a nib at the outer end of said feed bar at one side thereof, a ring holding said nib on said feed feed bar, said feed bar defining an air channel extending along the side of said feed bar where said nib is secured thereto so as to be covered at its end by said nib, and also defining capillary ink grooves extending along the bottom of said air channel into the vicinity of the point of said nib, said air channel being of such area, and said capillary grooves extending into said inkholder so far as to permit ink to flow downwardly from such passage when said fountain pen is held with the nib up, a shoulder at the end of said inkholder which is adapted to cooperate with said ring on said feed bar to close said inkholder, and a shoulder at the rear of said first-mentioned shoulder which is adapted to cooperate with said ring in the retracted position of said feed bar so as to constitute with said ring an annular space which is so narrow as not to permit air to pass when it is filled with ink.

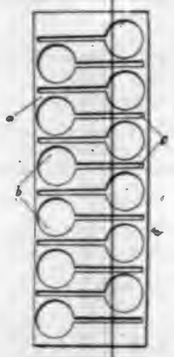
1,661,226. SHAFT COUPLING. ARTHUR MARTIN, Pittsburgh, Pa. Original application filed Aug. 27, 1924, Serial No. 734,464. Divided and this application filed Feb. 20, 1925. Serial No. 10,595. 2 Claims. (Cl. 64—89.)



1. Driving mechanism comprising a driving shaft, a driven shaft, one of said shafts having a tapered end and

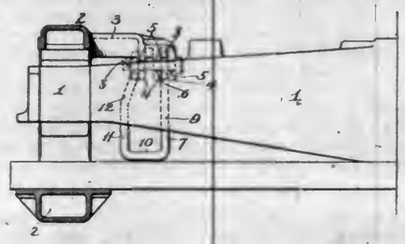
the other being provided with a tapered socket, a set screw carried by the socket and having a tapered point, the tapered shaft end having a recess adapted to be engaged by said tapered screw point, the said recess and screw being normally slightly offset longitudinally of the shaft so that when the screw is driven down the tapered shaft end will be drawn tightly to its seat within the socket, and a second tapered screw carried by said socket in position to be brought into engagement with the end of said tapered shaft when drawn to its seat by the first-named screw and start it from its seat.

1,661,227. UTENSIL FOR MOLDING SUGAR SWEETMEATS. HUGH MCALLISTER, Wishaw, Scotland. Filed Mar. 25, 1926, Serial No. 97,415, and in Great Britain Apr. 3, 1925. 1 Claim. (Cl. 107—19.)



A device for the rapid manufacture of lollipops, untouched by hand, comprising a mold sheet of rubber formed with through-orifices of the size and shape of lollipops, and stick-guiding slots, one intersecting each hole.

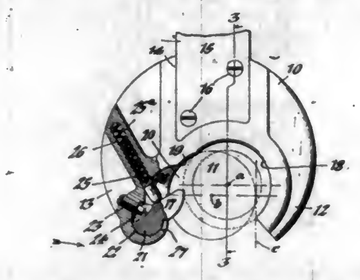
1,661,228. BRAKE HANGER. JOHN STEWART MCPHERSON, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed July 16, 1925. Serial No. 44,044. 4 Claims. (Cl. 188—209.)



1. In a car brake hanger mechanism, the combination of a car truck side frame, a hanger bracket on the side frame, a brake hanger, and means whereby the hanger may be suspended at a plurality of selected distances from the side frame.

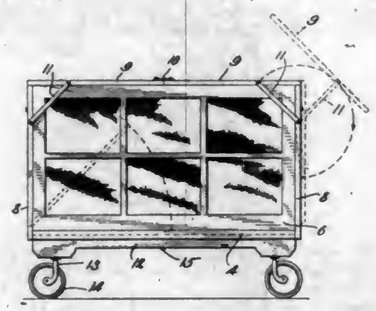
1,661,229. PIPE WRENCH. GUSTAVUS A. MONTGOMERY, Titusville, Pa., assignor to Titusville Forge Co., Titusville, Pa., a Corporation of Maryland. Filed Mar. 6, 1924. Serial No. 697,241. 5 Claims. (Cl. 81—97.)

1. A wrench of the character described, comprising a head having a pipe-receiving opening and opposing jaws, the mouth of said opening being contracted and of a size to pass over the pipe to be turned while its body portion is of such dimensions as to permit a lateral movement of the wrench relative to the pipe, one of said jaws extending around one side of the pipe and having its bearing face concentric therewith, the other jaw having its opposing face eccentric to the pipe and in spaced relation thereto, and a releasable gripping member fulcrumed



on said last- named jaw and normally projecting into said head-opening for engagement with the other side of the pipe, said gripping member being arranged to grip the pipe when the wrench is turned but permitted to be released therefrom when the wrench is pulled in a direction away from the pipe, or to be automatically displaced from the opening-mouth when the wrench is thrust over the pipe.

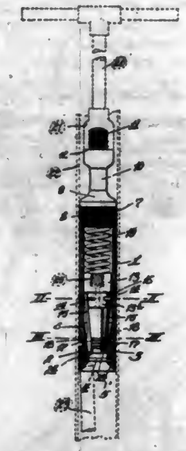
1,661,230. CRIB. FRANK FETZER MORRISON, Charlotte, N. C. Filed Feb. 8, 1926. Serial No. 86,858. 1 Claim. (Cl. 5—97.)



A collapsible crib including a bottom, wheel supported strips hingedly connected thereto and foldable thereagainst, means extending through the bottom and strips for holding them against relative movement, said means being removable, side and end panels hingedly connected to the bottom and foldable relative thereto, top panels adapted to rest upon the side and end panels when set up for use, links constituting the sole connections between the top and end panels, said links being connected to the side edges of the top and end panels to provide abutments for limiting outward swinging movement of the side panels, each top panel, when the crib is folded, being movable to positions flat upon and substantially within the bounds of the end panel to which it is linked.

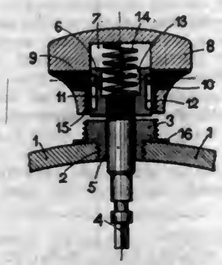
1,661,231. GRIPPING TOOL FOR ENGAGING AND PULLING PUMP RODS. JOSEPH W. OBERBECK, St. Louis, Mo., assignor of one-half to Charles A. Winston, Bowden, Okla. Filed Aug. 13, 1923. Serial No. 657,047. 5 Claims. (Cl. 294—102.)

3. A gripping device comprising a tubular member, a reciprocal supporting block having a reduced end, a plurality of outwardly projecting pins extending from the reduced end of said block, a gripping jaw loosely mounted on each of said pins, said tubular member adapted to retain said jaws on said pins, and means



provided in said member whereby said jaws will be moved towards each other when said block is moved in one direction in said member.

1,661,232. KEYLESS WATCH. GEORGES PERRET, La Chaux-de-Fonds, Switzerland, assignor to Hans Wilsdorf, Bienne, Switzerland. Filed Oct. 19, 1926, Serial No. 142,725, and in Switzerland Oct. 30, 1925. 1 Claim. (Cl. 58—63.)



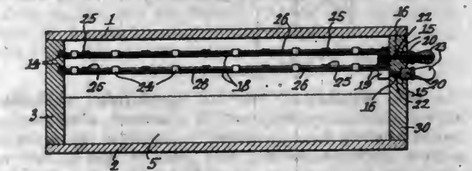
A keyless watch including a winding stem provided with an external head of larger diameter than said stem, a winder screwing upon a fixed part of the watch casing and being recessed to receive said head, a pin and slot connection between said head and winder compelling them to rotate together while at the same time permitting independent reciprocatory movement of said members, the end walls of said slot cooperating with said pin to cause said stem and winder to reciprocate together at the ends of their range of independent reciprocatory movement, one of said members being formed endwise with a recess, and a spring held in compression within said recess between said members.

1,661,233. PRODUCT KILLED HOG CHOLERA VIRUS AND PROCESS OF PRODUCING IT. JOHN REICHEL, Philadelphia, Pa. Filed Feb. 16, 1925. Serial No. 9,706. 3 Claims. (Cl. 167—10.)

2. The process of obtaining killed hog cholera virus, consisting in adding to a definite quantity of live virulent hog cholera virus in the form of defibrinated blood 0.5% phenol, and subjecting the mixture to a temperature of from 5° to 10° C. for from thirty to ninety days, sufficient to check bacterial growth, and then a temperature of about 37° C. for about thirty days, to kill all bacterial contamination and the hog cholera virus.

3. Killed hog cholera virus, dissociated from live virulent hog cholera virus, as a non-infective and immunizing agent against hog cholera when injected into susceptible hogs in doses of from 5 cc. to 50 cc. for each fifty pounds or fractin thereof per hog, and made from live virulent hog cholera virus mixed with a preservative and subjected to temperatures of from 5° to 10° C. for from thirty to ninety days and thereafter to a temperature of about 37° C. for a period of about thirty days.

1,661,234. CALCULATING MACHINE. ULYSSES GRANT ROBINSON, Oelrichs, S. Dak. Filed Dec. 11, 1926. Serial No. 154,246. 1 Claim. (Cl. 45—2.)

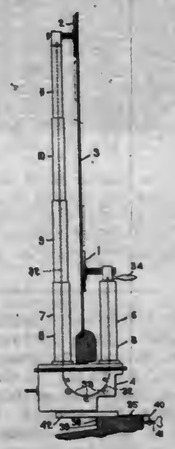


In a device of the class described, a cabinet comprising sides, one of the sides having an external guide groove and having a slot communicating with the groove, the other of the sides having an internal guide groove, a carrier one edge of which is mounted slidably in the internal groove, a slide rod mounted to reciprocate in the external groove, and spaced connections joining the slide rod with the other edge of the carrier, one of the connections being movable in the slot.

1,661,235. METHOD OF TREATING ELECTRONIC-EMISSION DEVICES. MAURICE D. SABREY, Cleveland, Ohio, assignor to Kemet Laboratories Co. Inc., a Corporation of New York. Filed Oct. 21, 1925 Serial No. 64,056. 8 Claims. (Cl. 250—27.5.)

1. Method of treating electronic emission devices to improve their emissive characteristics, comprising superheating the cathode in presence of a high anode potential to reduce the emissivity, and thereafter further heating the cathode in absence of anode potential.

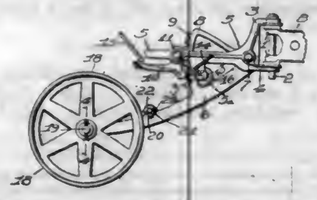
1,661,236. WINDOW-WASHING DEVICE. HARRY SEBELL, Boston, Mass. Filed Mar. 12, 1925. Serial No. 14,885. 8 Claims. (Cl. 15—103.)



3. In a window cleaner, the combination with two cleaning elements, of a forked supporting frame for

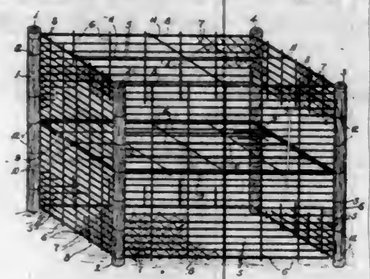
supporting said elements on opposite sides of a pane to be cleaned, the arms of the forked frame being extensible and contractible and means for simultaneously extending one arm and contracting the other.

1,661,237. GAUGE WHEEL FOR AGRICULTURAL IMPLEMENTS. STANLEY W. SHAW, Galesburg, Kans. Filed Feb. 14, 1927. Serial No. 168,196. 3 Claims. (Cl. 97—189.)



1. The combination with an agricultural implement having a ground-working tool, of a bracket, a supporting member having arms arranged to straddle the bracket, a pivot pin for connecting said arms to said bracket to swing the support in a horizontal plane, an arm pivotally mounted on said support, a locking quadrant carried by the arm, means carried by the support for guiding the arm and the quadrant in their pivotal movement with respect to the support, a bell crank lever pivotally secured to said support and having a tooth arranged to cooperate with said quadrant for locking the latter in a plurality of shifted positions, a spring secured at one end to said support and the other end to the tooth for normally holding the tooth in its locking position, means for moving the bell crank lever to release the tooth, and a gauge wheel pivotally mounted at one end of said arm.

1,661,238. ROCK PACK, PILLAR, OR LIKE SUPPORT FOR USE IN MINE WORKINGS. JOHN SLOAN, Johannesburg, Transvaal, South Africa. Filed Mar. 31, 1926, Serial No. 98,920, and in the Union of South Africa May 30, 1925. 7 Claims. (Cl. 61—42.)



1. A support for use in mine workings, including a skeleton metal cage for holding filling material packed in said cage, so that the cage serves to maintain the filling material in position until it takes the pressure or weight of the hanging wall or roof of the working, as set forth.

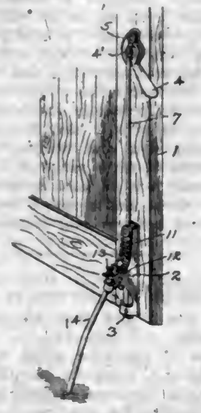
1,661,239. SPRAY GUN AND MEANS FOR OPERATING THE SAME. EMIL STEPHAN, Bridgman, Mich., assignor to W. H. Gast, Bridgman, Mich. Filed Aug. 20, 1925. Serial No. 51,501. 9 Claims. (Cl. 91—45.)

3. A spray gun comprising an integral handle having an air passageway therethrough, a mouth piece, an air passageway in said gun communicating with the air passageway in said handle, and means disposed in alignment with the air passageway in said gun and substantially adjacent one end thereof for manually closing said air passageway, said means comprising a disc adapted to be placed against the adjacent end of the air passageway in said gun, and spring means for normally holding said disc away from the air passageway in said gun.



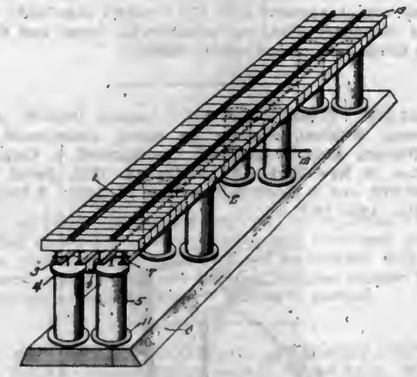
6. A spray gun having a mouth piece, an air passageway in said gun, means for conveying a liquid to the center of said mouth piece, said mouth piece comprising a valve body having a longitudinally extending opening therethrough, the outer end of said valve body having a conical-shaped annular flange integral therewith, means connecting said opening with said liquid-conveying means, a valve disposed in said opening and adapted to be moved into engagement with said flange for controlling the amount of liquid passing through said opening, a disc disposed concentric with said valve body and having openings therein in communication with the air passageway in said gun, an air control housing disposed concentric with said valve body, and means for holding said air control housing in engagement with said disc, said air control housing having air passageways therein adapted to be brought into alignment with two of the openings in said disc, the passageways in said air control housing being adapted to cause the air from said passageways to intersect at a point in alignment with the liquid opening in said valve body for ejecting the liquid in a vertically extending flat spray.

1,661,240. DOORSTOP. FRANK C. TRIMBACH, Dayton, Ohio. Filed July 28, 1924. Serial No. 728,660. 10 Claims. (Cl. 292—5.)



1. In a door stop, a brace rod adapted to drag upon the floor or ground idly as the door is opened permitting free movement of the door in one direction when said brace rod is in operative position, but adapted by its thrust engagement with the ground or floor to prevent the return movement of the door, a pivotal mounting for said brace rod, permitting the movement of the rod to and from operative positions, and a door stop for holding the door against free movement a reciprocatory link simultaneously controlling the adjustment of the rod and stop, and a pivoted operating handle to which the link is connected, the pivoted handle being adjustable beyond dead center positions at the opposite limits of its range of movement to lock said brace rod and stop in their operative and inoperative positions.

1,661,241. WEIGHING SCALE. FRANK TROTT, Harvey, Ill., assignor to Harriett V. Trott, Harvey, Ill. Filed May 5, 1924. Serial No. 711,166. 4 Claims. (Cl. 265—47.)



3. A weighing scale comprising fixed piers, a weigh bridge supported on said fixed piers, each of said piers having a cavity therein, a fluid in said cavity adapted through free flow to indicate the deformation of said piers when loaded and means actuated by said fluid for indicating said deformation in terms of load weight.

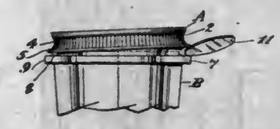
1,661,242. HIGHWAY MARKER. JAMES R. TRUXAL, Greensburg, Pa. Filed Nov. 9, 1926. Serial No. 147,331. 4 Claims. (Cl. 94—1.5.)



4. A highway marker comprising an elongated relatively narrow body formed of cushioning material and having its under face adapted to rest flat upon a highway and its upper face arcuate in cross section for its full width, and a reinforcing strip extending longitudinally in said body and embedded in the under face thereof intermediate its width, said strip being formed with openings adapted to receive fasteners to secure the marker upon the surface of a highway.

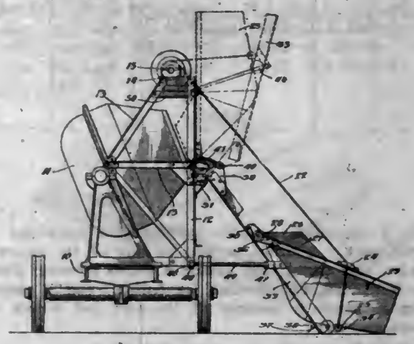
1,661,243. PACKAGE AND CLOSURE MEANS. CLIFFORD W. VESSY, Cleveland, Ohio, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Feb. 27, 1924. Serial No. 695,393. 2 Claims. (Cl. 215—46.)

1. A package comprising a container having an annular horisontally projecting abutment spaced from the mouth thereof, a substantially cylindrical sealing zone adjacent the mouth of the container, and an annular recess between the abutment and the sealing zone; in combination with a cap comprising a skirt having an annular inwardly formed concave bead frictionally engaging the cylindrical zone of the container, said annular bead in the skirt being corrugated transversely to provide for expansion, and a wire edge on said skirt



spaced from the annular abutment and from the bottom of the annular recess, whereby the package may be opened either by pressing the sealing zone of the container against the cap bead to flatten and expand the same or by placing an instrument under the wire edge and using the annular abutment as a fulcrum.

1,661,244. LOADER FOR CEMENT MIXERS. CARL J. WESTLING, Waterloo, Iowa, assignor to Construction Machinery Company, Waterloo, Iowa, a Corporation of Iowa. Filed Feb. 18, 1924. Serial No. 693,408. 12 Claims. (Cl. 214—103.)

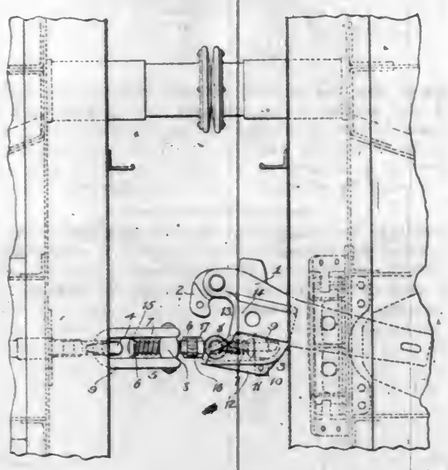


1. The combination with a supporting frame having a cement mixer mounted thereon, of a loading device for said mixer comprising a pair of spaced angle bars each having one end thereof connected with said frame and the other end thereof inclined outwardly and downwardly away from said frame to constitute a track, a skip mounted to travel on said track, said skip having spaced front and rear rollers, a cable attached to said skip in the rear of the forward rollers thereof, a stop for arresting the foward end of said skip adjacent said cement mixer to cause said skip to swing about the axis of the forward rollers thereon to discharge material from said skip into said mixer, and interlocking means on said skip and track to retain said track in position for transportation with the rollers resting on their respective tracks.

1,661,245. BEARING COMPOSITION. HARRY M. WILLIAMS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 22, 1923. Serial No. 640,796. 7 Claims. (Cl. 75—1.)

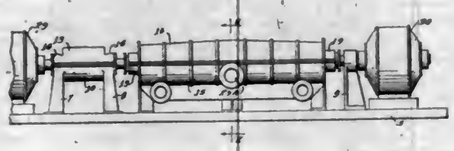
1. The process of producing porous bodies capable of absorbing liquid and having a surface adapted to be used in rubbing contact with another body, which consists in mixing fine metallic particles comprising copper and tin, capable of cohering when subjected to relatively high temperatures, with finely divided particles of a chemical compound of tin and antimony; molding the mixture under high pressure into the desired form, and heating the molded form of a temperature and for a length of time sufficient to effect cohesion of the said metallic particles.

1,661,246. TRANSITION CAR COUPLING. HARRY HAMILTON WOLFE, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed May 8, 1925. Serial No. 28,878. 2 Claims. (Cl. 213—112.)



1. A transition coupler comprising a drawhead provided with a guard arm at one side of its transverse center, said guard arm having a recess opening through its front end and through its bottom, and a coupling member pivotally secured at its rear end within said recess.

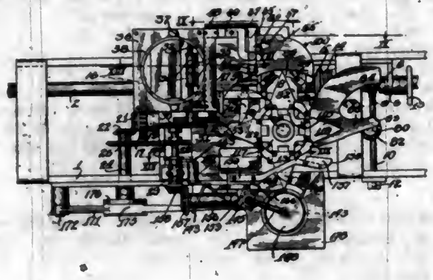
1,661,247. SCREW PUMP. FRANK F. AMBROSE, Los Angeles, Calif. Filed Apr. 19, 1926. Serial No. 102,869. 4 Claims. (Cl. 103—127.)



1. In a screw pump a pump chamber casing divided horizontally and longitudinally on the center line of the screws, said casing having formed in the upper portion a pumping chamber and in the lower portion an inlet chamber, said chambers having ports in the lower member of the casing, there being a suction port at each end and a discharge port in the center of said lower casing member.

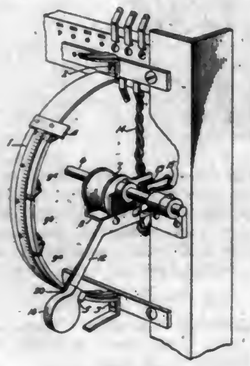
1,661,248. DISH-FORMING MACHINE. CESARE BARBIERI, New York, N. Y., assignor to The Vortex Mfg. Co., a Corporation of Illinois. Filed Dec. 10, 1925. Serial No. 74,439. 71 Claims. (Cl. 93—36.)

63. In a sundae dish forming machine the combination with an automatic blank centering device, a rotatable cam blade, a stationary blade, and a rotatable gripper adapted to carry a plurality of dish blanks in spaced relation in consecutive order from said centering mecha-



nism into engagement with the rotatable cam blade and said stationary blade to automatically crease and form the blanks into conical sundae dishes.

1,661,249. TIMING DEVICE. GERALD DEAKIN, Antwerp, Belgium, assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed May 18, 1925, Serial No. 30,970, and in Great Britain June 26, 1924. 3 Claims. (Cl. 161—19.)



1. A timing device comprising a horizontal shaft rotating at a definite speed, an indicating member loosely mounted therein, a graduated scale vertically mounted in an arc of a circle associated with said member, an electromagnet mounted on said member and surrounding the shaft for clutching the member into engagement with the shaft so that it is driven upward along the scale to indicate the length of time the electromagnet is energized.

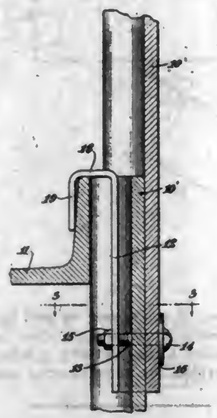
1,661,250. FLOUR-TREATING PROCESS. FREDERICK L. DUNLAP, Chicago, Ill., assignor to Industrial Appliance Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 16, 1923. Serial No. 675,039. 4 Claims. (Cl. 99—10.)

3. Wheat flour having an alkalinity substantially within the range represented by pH—9 to pH—12.

1,661,251. FASTENER. RALPH E. FERY, Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company, a Corporation of Pennsylvania. Filed Apr. 14, 1926. Serial No. 101,883. 8 Claims. (Cl. 189—3.5.)

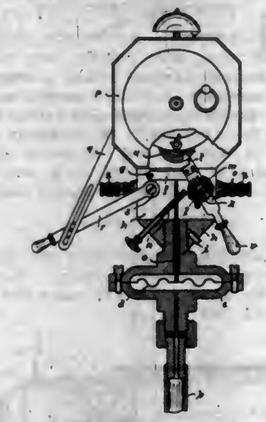
1. The combination with corrugated sheet material, and a metal support, of a fastening member attached to the corrugated sheet material between the corrugations by a

bolt passing through a perforation in the crown of a corrugation, said fastening member comprising a resilient body portion extending beyond said metal support provided with a perforation adjacent its outer end to permit said bolt to pass therethrough, a section bent at



a right angle to said body portion, and a second section bent at an acute angle to said first mentioned section to provide a wedging member for engagement with said metal support, said bolt and said wedging member being located at opposite ends of said body portion.

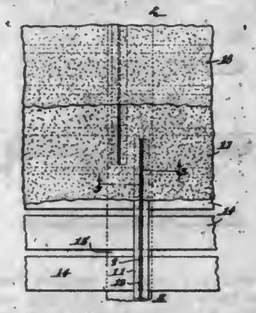
1,661,252. GAS-CONTROL APPARATUS. RICHARD FRICKE, Liepzig-Kleinzschocher, and HANS MROSS, Pretzsch-on-the-Elbe, Germany. Filed Oct. 21, 1925, Serial No. 64,061, and in Germany Aug. 6, 1924. 4 Claims. (Cl. 18—7.)



1. Gas control apparatus for vulcanizers and the like comprising a member displaceable by steam pressure, a gas valve influenced by said member, an alarm influenced by said valve, a closing spring connected with said valve and a locking member for said spring arranged to be thrown out by said displaceable member.

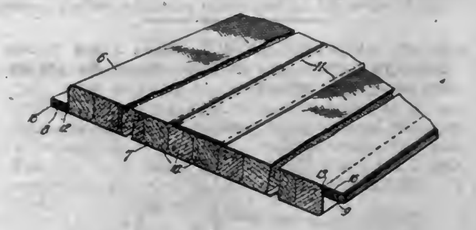
1,661,253. PLASTER GAUGE. AUGUST J. FRITZ, Chicago, Ill. Filed July 6, 1925. Serial No. 41,000. 3 Claims. (Cl. 72—116.)

1. A plaster gauge and anchor for use in association with studding and lathing comprising associated gauge strips for determining the thickness of the plastering from the lathing; base flanges on said strips for resting



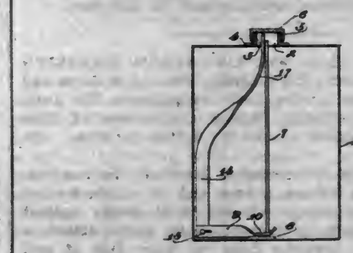
on the lathing and extending along the studding for forming therewith keyways in which to enter and key the plastering, substantially as described.

1,661,254. PIPE COVERING. WILLIAM R. GILLIES, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1926. Serial No. 83,461. 10 Claims. (Cl. 154—44.)



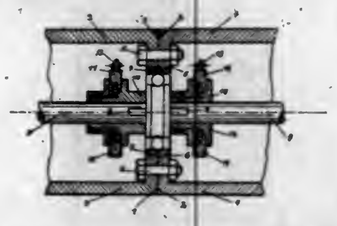
1. A pipe covering adapted to be wrapped circumferentially around the pipe with its seam extending longitudinally thereof, comprising a fabric casing filled with a relatively pliable heat insulating material across the greatest portion of its width, and marginal portions of relatively stiffer asbestos board along the lateral edges of said casing, said marginal portions being overlapped in a seam extending longitudinally of the pipe.

1,661,255. BARREL AGITATOR. FRED H. HAYWOOD, Cleveland, Ohio. Filed Mar. 7, 1925, Serial No. 13,800. Renewed Oct. 17, 1927. 10 Claims. (Cl. 259—107.)



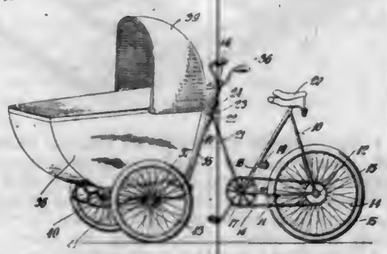
1. In combination with a barrel having an opening, a rod secured within the barrel and extending from a point opposite the opening to said opening, a blade turnably mounted on said rod, a second blade pivotally attached to the free end of the first-mentioned blade and extending upwardly toward the top of the rod.

1,661,256. COMBINED COUPLING AND BEARING. JOHANN JACOB KNYSER, Aarau, Switzerland. Filed June 22, 1925, Serial No. 38,893, and in Germany Apr. 3, 1925. 3 Claims. (Cl. 308—178.)



1. A spinning and twisting machine beam comprising aligned beam sections having contacting end walls, shaft sections within the beam sections and constituting one continuous spindle actuating shafting, bearings having their seat in the end walls of two adjoining beam sections so as to be in a reciprocal centering and aligning interrelation therewith and forming means for supporting the shaft sections within the beam sections of which the bearing seating end walls are forming a portion, and means on the ends of each shaft section and on the bearings for clutching the shaft sections together while permitting mounting and dismounting of each shaft section while all of the bearings remain seated in their respective beam section end walls.

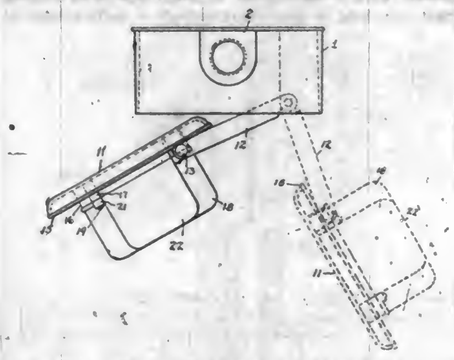
1,661,257. BICYCLE CARRIAGE. EMMA KIRCH, Wilkes-Barre, Pa. Filed Jan. 12, 1927. Serial No. 160,561. 1 Claim. (Cl. 208—45.)



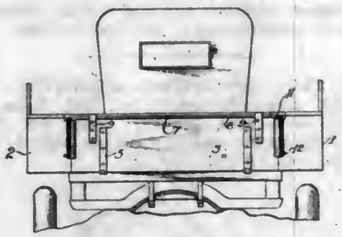
In combination with a bicycle, of a carriage, a rod extending upwardly from the rear of said carriage, a pair of pivoted sleeve sections on said bicycle, said sections engaging said rod, a slotted lug on one of said sections, another lug on the other section, a headed plunger rod engaging said lugs and resilient means on said plunger for to normally prevent disengagement of said lugs.

1,661,258. CASE FOR FIRE-ALARM SIGNALING MECHANISM AND THE LIKE. FRANCIS B. LOVE and BOYD H. SMITH, Shelby, Ohio, assignors to The Auto-Call Company, Shelby, Ohio, a Corporation of Ohio. Filed Feb. 17, 1925. Serial No. 9,830. 1 Claim. (Cl. 177—377.)

In an article of the character described, the combination of a casing having a base and an outwardly extending flange, a closure adapted to fit snugly against the edge of said flange throughout its entire extent, a flange projecting inwardly from the inner face of said closure and spaced from said casing flange when said parts are engaged, a housing engaged upon the inner edge of said closure flange, a pair of parallel bracket arms positioned respectively on opposite sides of said housing and in spaced relation thereto, a pair of bosses, within the casing flange and spaced from the edge thereof, having pivoted pins to engage with apertures formed in the inner ends of said bracket arms, removable locking pins engaged through said pivot pins to detachably hold said bracket arms thereon and a pair of apertured ears on the inner wall of said closure on the side opposite the position of the bosses on said casing to receive pivot pins extending through apertures in the opposite ends of said bracket arms, whereby a wide range of motion may be provided for said housing and closure.

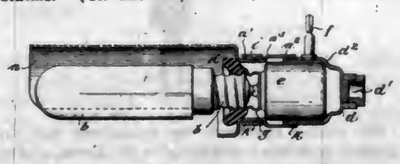


1,661,259. END-GATE FASTENER. NORRIS G. MORGAN, Galva, Ill. Filed Mar. 24, 1927. Serial No. 177,864. 7 Claims. (Cl. 296—57.)



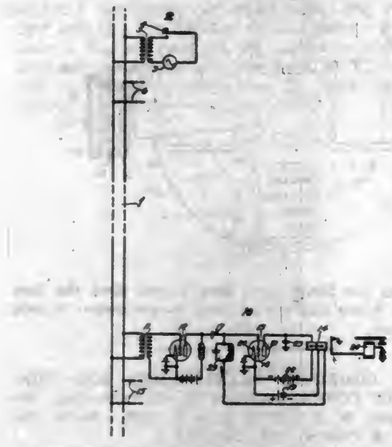
1. An end-gate fastener, comprising a lever adapted to be swivelly mounted with its axis parallel to and adjacent the upper edge of an end-gate and having offset ends, chains adapted to be secured to the extremity of each of said ends and to fixed supports, and means constraining a portion of each of said chains below said lever axis to lie parallel to said offset ends in normal position.

1,661,260. ELECTROLIER FOR SEWING MACHINES. ARTHUR MÜLLER, Lobenstein, Germany. Filed Mar. 8, 1926, Serial No. 93,341, and in Germany Mar. 19, 1925. 3 Claims. (Cl. 240—2.)



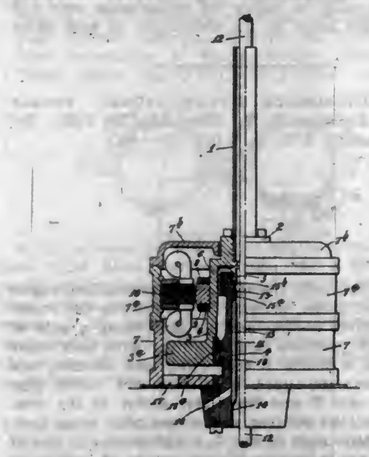
1. In an incandescent lamp fixture for a sewing machine or the like, the combination with an incandescent bulb and the insulation body containing the switch mechanism for said lamp, of a shield or reflector for said lamp having a reduced neck portion, a shell containing said body, said shield and shell being threadedly connected together to securely hold said body in position, and a clamping member mounted around said neck portion for adjustably suspending said fixture from the sewing machine.

1,661,261. SIGNAL-RECEIVING SYSTEM. PAUL B. MURPHY, Nyack, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Feb. 9, 1925. Serial No. 7,745. 17 Claims. (Cl. 178—88.)



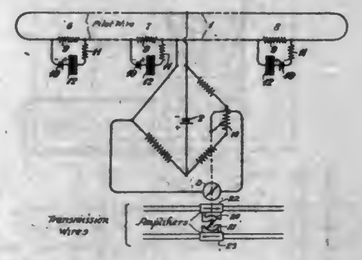
1. The method of equalizing the effects of alternating signaling currents of different strengths on a receiving device, which comprises transmitting current variations corresponding to the received signaling currents through branched paths having different volt-ampere characteristics, the characteristics of the paths being such that for weak incoming signaling currents the current output of one of said paths predominates over the current output of the other path in a certain ratio and for stronger received signaling currents said certain ratio of the current outputs of the two paths is substantially maintained and opposing the outputs of said paths upon the receiving device.

1,661,262. SPINDLE FOR TEXTILE-SPINNING APPARATUS AND MEANS FOR DRIVING IT. FREDERICK NEWTON, Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed June 29, 1925, Serial No. 40,310, and in Great Britain June 30, 1924. 13 Claims. (Cl. 118—43.)



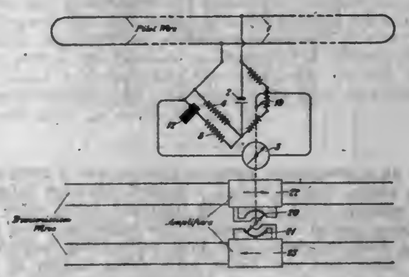
1. A spindle device for textile spinning machines, characterized in that the spindle is freely supported below the part on which the bobbin is carried, on a single support and extends below this point of support as a skirt, so that the spindle is freely suspended on said single support.

1,661,263. METHOD OF AND MEANS FOR REGULATING THE TRANSMISSION OVER ELECTRIC CIRCUITS. HARRY NYQUIST, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 19, 1923. Serial No. 620,094. 21 Claims. (Cl. 178—44.)



16. In a signaling system, a plurality of transmission circuits subject to similar conditions, means associated with one of the circuits and adapted to change the electrical characteristics thereof in response to humidity variation, means associated with said circuit and responsive to changes in the electrical characteristics thereof, and means controlled by said latter responsive means for adjusting the transmission equivalent of the other circuits.

1,661,264. METHOD OF AND MEANS FOR REGULATING THE TRANSMISSION OVER ELECTRIC CIRCUITS. HARRY NYQUIST, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Original application filed Feb. 19, 1923, Serial No. 620,094. Divided and this application filed Oct. 2, 1924. Serial No. 741,256. 18 Claims. (Cl. 178—44.)

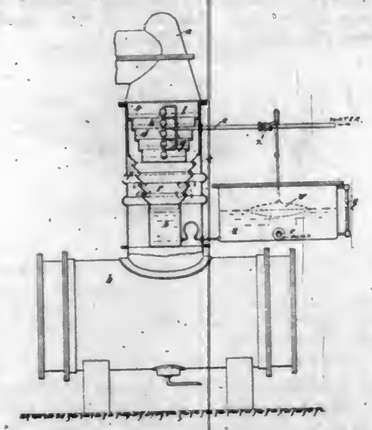


4. As means for compensating for the effect of humidity variations on the transmission equivalent of repeatered circuits, an auxiliary circuit including an element whose conductivity varies with humidity change, a current indicating device responsive to changes in the electrical characteristics of said auxiliary circuit, and a device designed to vary the gain of the repeaters in response to the current in, and in accordance with the indications of, said current indicating device.

1,661,265. CONDENSING APPARATUS. HEINRICH MAX OLBRICHT, Brunn, Czechoslovakia. Filed Nov. 23, 1926, Serial No. 150,282, and in Czechoslovakia Nov. 20, 1925. 2 Claims. (Cl. 261—118.)

1. An exhaust steam heat trap and condenser, comprising a casing, means for injecting water into the cas-

ing, vertically spaced cylindrical impact surfaces for injected water, and a separator below said impact surfaces,



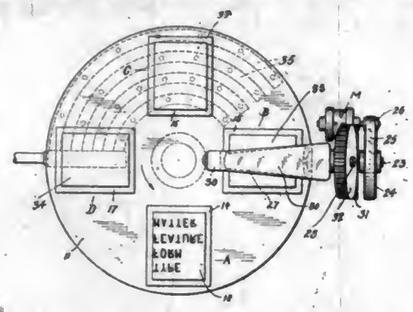
said separator comprising vertically arranged concentric conical surfaces spaced apart for permitting the passage of steam.

1,661,266. COMPRESSOR PUMP. DALLAS D. PARSHALL, Detroit, Mich. Filed June 2, 1924. Serial No. 717,341. 3 Claims. (Cl. 230—228.)

1. In a compressor pump, a cylinder and a reciprocatory piston therein having a limited clearance between the adjacent head faces, and inlet and outlet valve assemblies located in recesses in the respective faces and lying flush therewith, said inlet valve being located in the piston and said outlet valve being located in the head of the cylinder and comprising a disk forming a seat, a spacer above said disk, a ported disk above said spacer having a shouldered engagement with the head, and a valve located between said seat disk and apertured disk and of a thickness but slightly less than said spacer to provide only a limited lift for the valve.

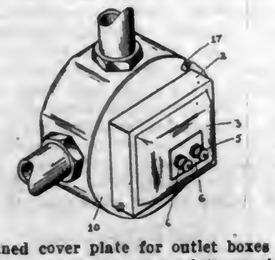
1,661,267. STEREOTYPE-MATRIX-MAKING MACHINE. GROVER M. REPP, New York, N. Y. Filed Feb. 28, 1927. Serial No. 171,442. 1 Claim. (Cl. 101—12.)

A machine for making stereotype matrices in a continuous circulating operation comprising a support having a plurality of seats thereon for receiving and holding a plurality of type forms upon which a like number of flongs may be placed in succession from a fixed position, means to actuate the support along a continuous path, means to operate upon the flongs in succession to cause the same to be properly molded in connection with the type forms while in motion, and means to cause the hardening of the flongs after such molding operation as they pass in succession along said path without the aid of human



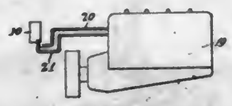
factors after the flongs have been placed upon the face of the type forms and are returned in succession to said fixed position.

1,661,268. COMBINED TRANSFORMER AND CONDUIT-BOX COVER. ARTHUR E. RITTENHOUSE, Honeoye Falls, N. Y. Filed May 1, 1926. Serial No. 106,093. 6 Claims. (Cl. 247—1.)



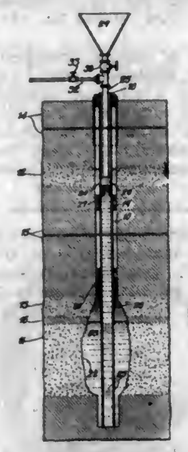
1. A combined cover plate for outlet boxes and transformer casing comprising a cover plate provided with a depression centrally of said plate and adapted to receive a portion of the transformer windings to locate said transformer in a predetermined position on said cover plate, a casing covering the remainder of the transformer core and windings and means for fastening said casing to said cover plate to clamp the transformer core and windings in the place in the depression in said cover plate.

1,661,269. AUTOMOBILE WATER GAUGE. THOMAS H. ROEKE, Brooklyn, N. Y. Filed July 20, 1925. Serial No. 44,643. 1 Claim. (Cl. 265—46.)



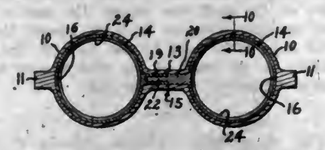
In combination with a water cooled combustion engine having a water jacket, a device for indicating the condition of the water cooling medium comprising a pair of parallel vertical columns communicating with each other at the bottom, a double T supporting said columns, one column adjacent the other, a delivery and return pipe connected to said T and the water jacket of the combustion engine, the delivery and return pipe being positioned at opposite ends of the T, a hydrometer in one of said columns for indicating the percentage of anti-freeze mixture in the water cooling medium, one of said columns being closed at the upper end and open at the bottom adapted to permit the level of the water cooling medium to rise therein, the opposite column comprising a graduated thermometer adapted to be mounted vertically on the T, the water being adapted to circulate freely around the lower end of the thermometer in the T, and a casing having the columns and T mounted thereon.

1,661,270. METHOD OF PLUGGING OR PACKING OFF STRATA IN WELLS. HARRY MOYER RYDER and LEON J. BAILEY, Bradford, Pa., assignors to Petroleum Reclamation Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 19, 1927. Serial No. 161,993. 8 Claims. (Cl. 61—36.)



1. The method of plugging the space around a well casing, which consists in introducing into the well a sealing material in the presence of a displaceable liquid which has a specific gravity different from that of the sealing material, leaving said sealing material and displaceable liquid undisturbed until the sealing material moves into sealing position owing to the different specific gravities of said sealing material and displaceable liquid, and applying pressure to the sealing material after it is in sealing position.

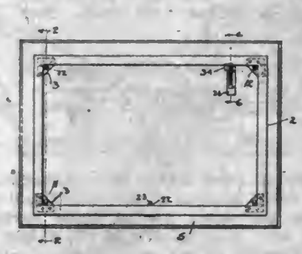
1,661,271. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 22, 1926. Serial No. 83,001. 12 Claims. (Cl. 88—47.)



1. In a device of the character described, a composition frame having grooved rims and a bridge with a recess therein extending from groove to groove of the rims and a metallic frame having two separated rims seated in the grooved rims of the composition frame, each metallic rim having a projection extending into the recess of the bridge of the composition frame into engagement with each other.

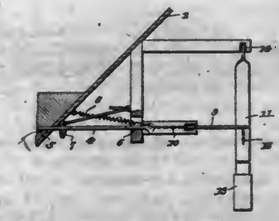
1,661,272. SAFETY LOCKING DEVICE FOR CASINGS. BOYD H. SMITH, Shelby, Ohio, assignor to The Autocall Company, Shelby, Ohio, a Corporation of Ohio. Filed Apr. 2, 1925. Serial No. 20,807. 7 Claims. (Cl. 200—54.)

1. An apparatus of the character described, having in combination a base plate, a plurality of posts secured to said base plate having cut away portions formed at the rearward sides thereof, a casing frame, plate secured to said frame and adapted to seat over said posts and to engage with the cut away portions thereof,



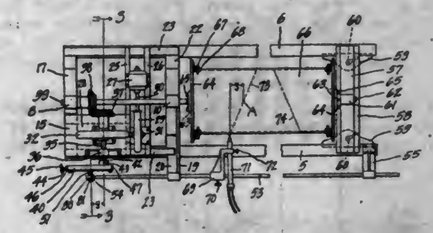
means to prevent disengagement of said frame from said posts, a tamper switch mounted on said base plate, and means carried by said frame for operating said tamper switch.

1,661,273. DOOR-CLOSING MECHANISM. OWEN P. SMITH, Miami, Fla.; Hannah M. Smith administratrix of said Owen P. Smith, deceased. Filed Aug. 12, 1926. Serial No. 128,808. 5 Claims. (Cl. 246—301.)



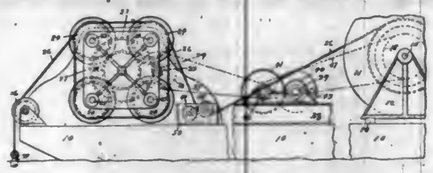
1. In a device of the class described, a door hinged at the top, a horizontally slidable rod arranged to extend beneath the door when the latter is open, a pendent releasing lever pivoted at its upper end and having its lower portion arranged to be struck by a moving car, and means for connecting the lever with the rod for withdrawing the same from beneath the open door when the said lever is struck by the car.

1,661,274. PIPE-CUTTING MACHINE. GEORGE R. STEERE and ALEXZANDER HURST, Owosso, Mich., assignors, by mesne assignments, to Semet-Solvay Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 19, 1925. Serial No. 10,231. 14 Claims. (Cl. 266—23.)



1. A machine for cutting a pipe including means for mounting and rotating said pipe and automotic means for cutting said rotating pipe on a fixed angle extending in a plane which is less than ninety degrees to the axis of the pipe.

1,661,275. ANCHOR HOIST. IVER N. STENSLAND, Ketchikan, Territory of Alaska. Filed Mar. 5, 1926. Serial No. 92,651. 2 Claims. (Cl. 254—177.)



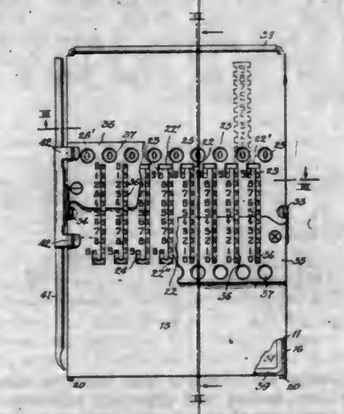
1. An anchor hoist having, in combination, a scow; a winding device mounted on one end of said scow comprising four gear-driven grooved drums having one intermediate drive gear for driving all of said drums in the same direction at the same speed; a cable storage spool rotatably mounted on the opposite end of said scow; an engine for driving said spool and winding device; friction drives between said engine and storage and winding drums; and brake means on said winding drum.

1,661,276. DOUBLE-END CONTROL. SVEN JULIUS STRID, Chicago, Ill., assignor to Fred Mathews, Chicago, Ill. Filed Jan. 21, 1926. Serial No. 82,794. 10 Claims. (Cl. 74—39.)



1. A control mechanism of the kind described comprising a plurality of bell-crank shafts, a stationary frame in which said shafts are mounted, a set of transmission elements extending from each end of said bell-crank shafts, connector devices interposed between the respective ends of the bell-crank shafts and transmission elements, and means for rendering one set of connector devices operative with respect to the bell-crank shafts and one set of transmission elements, and for rendering the other set of connector devices inoperative.

1,661,277. COMPUTING MACHINE. LUCIE THOMAS, Nowawes, near Potsdam, Germany; Lucie Menter, née Thomas, assignor to Jean Bergmann, Berlin, Germany. Filed Oct. 16, 1924, Serial No. 743,896, and in Germany Nov. 17, 1923. 13 Claims. (Cl. 235—69.)

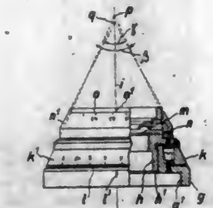


1. A computing machine having a plurality of parallel reciprocatory sliders having serrated lateral edges and the digits, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 thereon, and a front plate covering the sliders and having parallel slots each permitting access to eleven notches on one serrated edge of one slider, each end of each of the slots being provided with return extensions to expose two notches on the other serrated edge of the adjacent slider, the front plate having the digits 9, 8, 7, 6, 5, 6, 7, 8, 9 alongside each slot.

1,661,278. METHOD OF PREPARING PROGRESSIVE-BURNING SMOKELESS POWDER. BERNHART TROXLER, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 16, 1926. Serial No. 148,772. 6 Claims (Cl. 52—20.)

6. The method of coating smokeless powder grains with a deterrent substance, which includes subjecting the powder grains, a deterrent substance and a quantity of water only sufficient to moisten the surfaces of the powder grains to heat in the presence of air at a temperature not substantially above the melting point of the deterrent substance while agitating the powder grains.

1,661,279. MOUNT FOR PHOTOGRAPHIC OBJECTIVES. ERNST WANDERSLEB, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed June 1, 1927, Serial No. 195,840, and in Germany July 5, 1926. 2 Claims. (Cl. 95—45.)



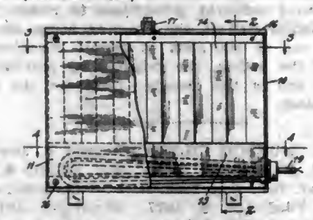
1. Mount for objectives adapted to be fastened on a camera, comprising a tube adapted to receive optical elements of the objective, means for displacing this tube in the direction of its axis, these means comprising a ring, rotatable about the axis of the said tube, a scale fitted on this ring, and an index coacting with this scale, an iris-diaphragm and a second ring, rotatable about the axis of the mount and adapted to vary the aperture of the diaphragm, a second scale, fitted to this second ring and a second index coacting with this second scale, the surfaces of the said two rings containing parts of conical surfaces, on each of which there is disposed one of the said two scales, the points of the said conical surfaces lying on at least almost the same point of the object-side part of the axis of the mount and the angles on the tops of the said conical surfaces being at least almost of the same size.

1,661,280. NONSKID DEVICE. FRANK O. WELLS, Greenfield, Mass. Filed Mar. 3, 1927. Serial No. 172,819. 3 Claims. (Cl. 152—14.)



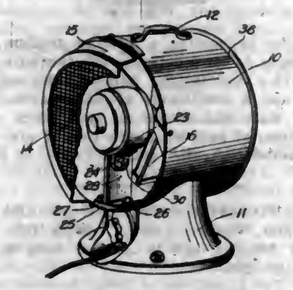
1. A plate for a non-skid tire chain comprising a member which is formed with a plurality of centrally located projections on its outer surface, transversely located webs for connecting the projections that are located adjacent the opposite ends of the plate but leaving a transversely located channel or passageway across the outer surface of the plate.

1,661,281. ELECTRIC RADIATOR. JOHN BILAN, Flint, Mich. Filed June 13, 1927. Serial No. 198,447. 3 Claims. (Cl. 219—38.)



1. Electric radiator comprising a plurality of cells, a housing for said cells, a median baffle plate, said housing adapted to be supplied with a heating medium, and a means for electrically heating said medium to circulate the same through said cells around said baffle plate.

1,661,282. ELECTRIC HEATER. SAMUEL M. CARMEAN and JAMES H. CARMEAN, Kansas City, Mo. Filed Apr. 30, 1926. Serial No. 105,705. 5 Claims. (Cl. 248—14.)



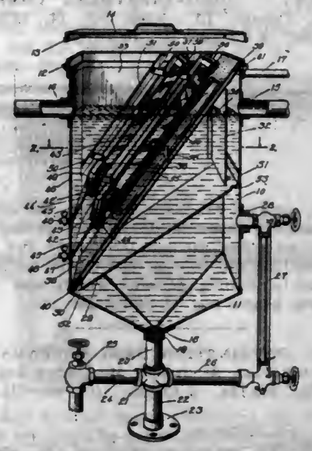
1. In a heater, a motor, a motor mounting comprising a bracket having a base portion and an upstanding portion offset from the vertical plane of the axis of the motor, an ear on said motor in the vertical plane of its axis and means for securing said ear to the upstanding portion of said bracket.

1,661,283. DOLL AND PLAYPEN. HERMAN V. ECKARDT, Brooklyn, N. Y., assignor to Strauss-Eckardt Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1927, Serial No. No. 162,824, and in Germany Dec. 17, 1926. 6 Claims. (Cl. 46—37.)



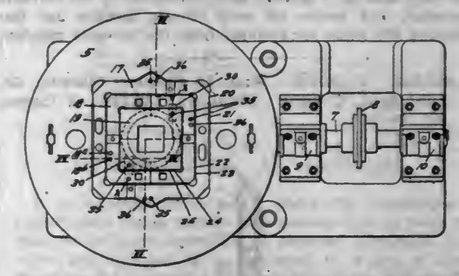
1. A toy set comprising, in combination, a simulated miniature playpen having a bottom wall and a side wall enclosure and a doll in said playpen simulating an infant at play, the playpen being dimensioned proportionate to the doll therein.

1,661,284. SEPARATOR. CLARENCE V. FUQUA and JOHN H. RICHA, Kansas City, Mo., assignors, by mesne assignments, to The Cleaners Equipment Corporation, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 11, 1926. Serial No. 140,829. 9 Claims. (Cl. 210—43.)



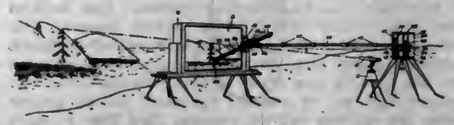
1. In a device of the character described, a tank having a partition therein dividing the same into an upper and a lower chamber, an inlet at one side of said upper chamber, an outlet at the other side thereof, a plurality of screens mounted between said inlet and outlet, said screens being arranged at an oblique angle and a plurality thereof comprising members of bolting cloth and inclined shelf-like members at the lower ends of said screens.

1,661,285. ROTARY DRILLING MACHINE. EDGAR E. GREVE, Bellevue, Pa. Filed Aug. 3, 1926. Serial No. 126,922. 6 Claims. (Cl. 255—23.)



1. In a rotary drilling machine, a rotary table having a bore, a bushing nested therein, and automatically operable locking means for locking the table and bushing against relative vertical movement characterized in that the locking means are actuated to lock said members together by positioning a member within the bushing.

1,661,286. ATTACHMENT FOR REPRODUCING DEVICES. THEODORE N. HANSEN, Seattle, Wash. Filed June 6, 1927. Serial No. 196,912. 3 Claims. (Cl. 33—20.)



1. The combination with a screen and a sighting instrument, of an attachment for reproducing devices com-

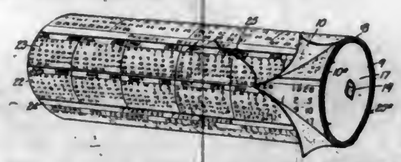
prising a control box, connecting means between said screen and box adapted for axial rotation, and a marker bar device arranged to be swung over the entire surface of the screen by axial rotation of said connecting means.

1,661,287. LIQUID-TREATMENT COMB. JOHN HENIGE, Chicago, Ill. Filed Oct. 14, 1925. Serial No. 62,390. 4 Claims. (Cl. 132—13.)



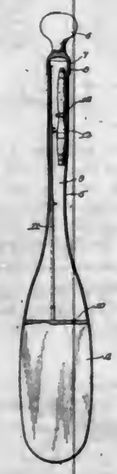
1. In a comb of the class described, the combination with a handle, a hollow head, and teeth having passages, of a tube extending through the handle and into said hollow head, the end of said tube within the head being closed, and a heating element within and removable through the handle end of said tube.

1,661,288. COMBINATION DESK CALENDAR. NEWTON S. HILLYARD, St. Joseph, Mo. Filed Aug. 1, 1927. Serial No. 209,734. 3 Claims. (Cl. 40—111.)



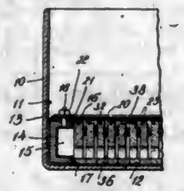
2. A calendar device comprising a supporting element having a sight opening, a member movably mounted within said supporting element, a plurality of tubular elements provided with calendrical indicia mounted one within another on said movable member, and positioned for exposure of portions of the outermost tubular element through said sight opening upon movement of the movable member, and means on each tubular member for disrupting the same for removal from the movable member.

1,661,289. PADDLE. WILL L. HOLDER, Valdosta, Ga. Filed Sept. 7, 1926. Serial No. 133,744. 2 Claims. (Cl. 9—24.)



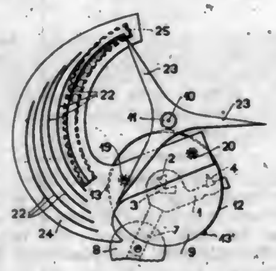
1. A paddle for a canoe comprising a narrow tubular stem, a comparatively short member removably secured to one end of the stem and shaped to form a hand-grip, and a substantially flat blade fixedly connected to the other end of said stem, the hollow portion of the stem forming a chamber of sufficient proportions to receive a fishing rod or similar article, the chamber being open at the said one end of the stem to permit insertion and removal of the article, the grip-member serving to close the open end of the chamber to retain the article in said chamber.

1,661,290. NUTSCH FILTER. JOSEPH E. JEWETT, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 8, 1927. Serial No. 181,998. 10 Claims. (Cl. 210—149.)



2. A tile for supporting a filtering medium within a tank comprising in combination a substantially rectangular block having substantially parallel sides and a corrugated top; and a continuous abutment extending from one of the sides the length of said block and flush with the bottom of said block, the side of said abutment being substantially parallel with the sides of said block.

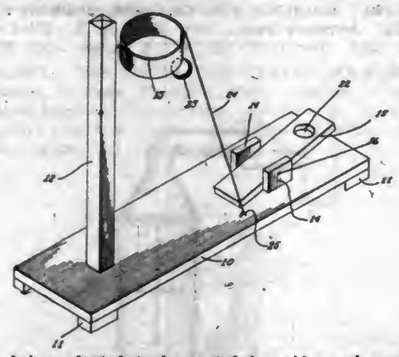
1,661,291. AUTOMATIC WEIGHING APPARATUS. RUDOLF JOKSCH, Vienna, Austria. Filed July 25, 1927, Serial No. 208,154, and in Austria June 5, 1926. 7 Claims. (Cl. 265—62.)



1. An automatic weighing apparatus in which the load is balanced by a weighted lever and in which the indicator mechanism comprises a gearing imparting a rotation to the indicator shaft for more than one turn wherein the dial is connected with the weighing lever and is moving with the same in front of the rotating pointer, thus allowing graduation on a spiral like cycloidal curve which permits a rotational indication movement of more than a full turn to the pointer without returning to the same graduation mark.

1,661,292. TOY. STEPHAN KLAUS, Hawthorne, N. J. Filed Feb. 17, 1927. Serial No. 168,858. 1 Claim. (Cl. 46—37.)

A toy comprising a rectangular base, a vertical post square in cross section extending upwardly from said base near one end, a basket open at the top and bottom mounted on the upper end of said post, a pair of spaced-apart uprights on said base near the end opposite to the post, a straight platform mounted pivotally between said uprights, a coiled spring mounted beneath the pivotal axis of said platform, one of the ends of said coiled spring seating upon said base, the opposite end of said coiled spring seating upon the under side of said platform, the coiled spring normally urging one end of said platform to contact with said base and raising the opposite end, said platform having an opening in the raised end, a ball larger than said opening in said platform, said

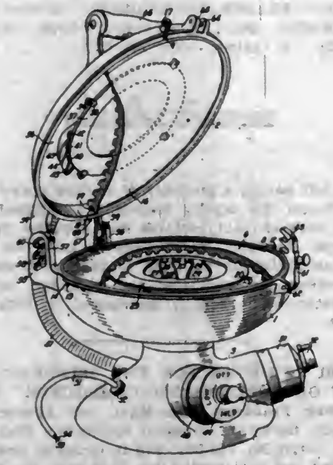


ball being adapted to be seated in said opening and a string attached to said ball, the opposite end of said string being anchored to said base adjacent the end of said platform which contacts with said base, and the anchored end of said string being located at an acute angled position from said basket.

1,661,293. PRODUCTION OF AROMATIC KETONIC COMPOUNDS. FREDERICK H. KRANZ, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1926. Serial No. 99,406. 8 Claims. (Cl. 260—64.)

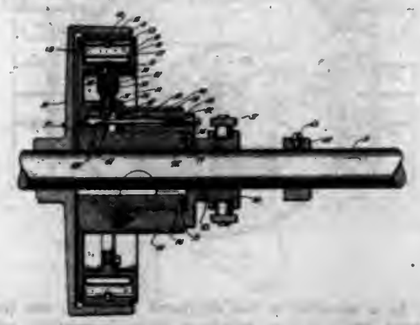
8. A process for the production of 4.4'-tetramethyldiaminodiphenylthioketone which comprises boiling with agitation under a reflux a mixture of approximately ten parts of 4.4'-tetramethyldiaminodiphenylmethane and fifteen parts of a fifty percent caustic soda solution containing approximately sixteen parts of sulfur.

1,661,294. TOASTER. CHARLES A. LEMASTER, Kansas City, Mo. Filed Mar. 21, 1927. Serial No. 176,934. 4 Claims. (Cl. 53—5.)



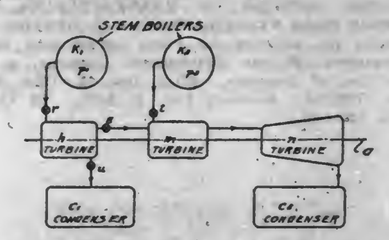
2. In a toaster, a base, a cover member, a removable griddle in the base, and a removable griddle in the cover co-operating with the first named griddle, means for adjustably hinging the cover to the base, and means opposite to the hinging means for adjustably supporting the cover in parallel alignment with the base.

1,661,295. FLUID-PRESSURE DEVICE. BERT A. LINDERMAN, New York, N. Y., assignor to Linderman & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 17, 1924. Serial No. 744,111. 16 Claims. (Cl. 192—88.)



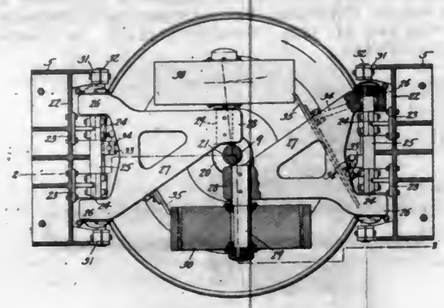
1. A fluid pressure device comprising two members operatively associated to rotate relatively or to remain relatively at rest, devices for controlling said members including an inflatable actuator, a pump for forcing fluid into and out of said actuator, and a valve for controlling the passage of fluid to or from said actuator and means for operating the valve upon movement of the pump.

1,661,296. STEAM TURBINE POWER PLANT AND SYSTEM. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Aug. 15, 1924, Serial No. 732,307, and in Austria Sept. 24, 1923. 2 Claims. (Cl. 60—70.)



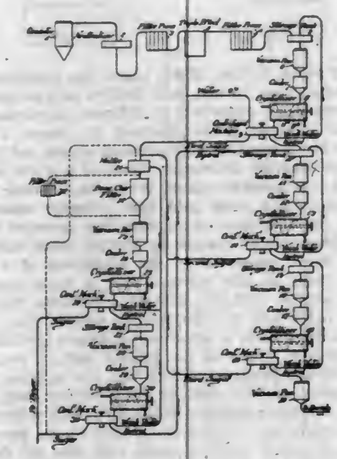
2. In a steam turbine power plant, the combination of a multistage steam turbine unit divided into at least two independent parts operating at different admission pressures and adapted to be operated in series, a steam generator for generating high pressure steam and another steam generator for generating steam of a lower pressure than said high pressure steam generator, a steam supply connection leading from said high pressure steam generator to the admission end of the high pressure turbine part, a steam supply connection leading from said lower pressure steam generator to the admission of a lower pressure stage of said turbine unit, a main condenser for said turbine unit, an exhaust connection line leading from the lowest pressure part of said turbine unit to said main condenser, a separate condenser provided for higher pressure stages of the turbine unit, a connection between said separate condenser and the exhaust of the high pressure turbine part of said turbine unit, valve means in the last-mentioned connection, and valve means in said connections leading from said steam generators to their respective turbine parts and also in the connection leading from the exhaust of the high pressure stage of said high pressure turbine part to the admission of said following part of the turbine for opening and closing the connections.

1,661,297. GRINDING PAN. WALTER EARL MCMURRAY, Clearfield, Pa., assignor to Clearfield Machine Company, Clearfield, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1927. Serial No. 183,778. 13 Claims. (Cl. 83—45.)



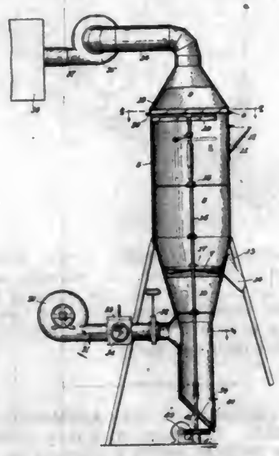
1. In a machine of the character described, the combination with a pan rotatable about a vertical axis, of roll-supporting arms pivotally-mounted on parallel axes transverse to a common plane including said vertical axis and having inwardly-presented contracted ends arranged on opposite sides of said plane, the pivotal bearings for each of said roll-supporting arms comprising bearing portions arranged on opposite sides of said plane, journal pins projecting laterally from the contracted inner ends of said roll-supporting arms and presented away from said plane, and rolls journaled on said pins and running in said pan.

1,661,298. METHOD OF MANUFACTURING DEXTROSE FROM STARCH. WILLIAM B. NEWKIRK, Riverside, Ill., assignor, by mesne assignments, to International Patents Development Company, a Corporation of Delaware. Filed Apr. 25, 1924, Serial No. 708,916. Renewed Dec. 7, 1927. 23 Claims. (Cl. 127—46.)



1. Method of making a crystalline starch converted dextrose which comprises concentrating and crystallizing the converted liquor without precedent carbon filtration, and separating the dextrose crystals from the mother liquor while the magma is in a fluent state.

1,661,299. MACHINE FOR GRADING GROUND COFFEE. ANTHONY PERON, New York, N. Y. Filed Oct. 23, 1924. Serial No. 745,287. 9 Claims. (Cl. 209—29.)



6. Apparatus of the character disclosed, comprising a casing having an intermediate compartment defined by upper and lower screens, the upper being of finer mesh than the lower and the lower defining a collection chamber in the bottom of the casing, an air blower having a discharge conduit opening into the collection chamber, a suction device having a suction conduit opening into the top of the casing above the fine screen, an upright shaft in the casing and brushes on said shaft cooperating with the screens.

1,661,300. TRANSMISSION BELT. HAROLD PERFALL, Philadelphia, Pa. Filed July 1, 1926. Serial No. 119,850. 4 Claims. (Cl. 74—62.)

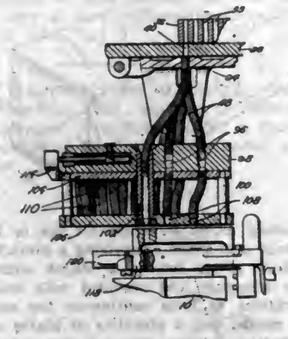


2. A belt having a plurality of shallow pockets on surfaces thereof for rapidly absorbing a confined air film created between said surfaces and a pulley operatively associated therewith, and means in said belt for providing an outlet for said air so that no pressure may exist between said surfaces and a pulley, said means being substantially equally distributed on both sides of the belt.

1,661,301. PROCESS FOR THE MANUFACTURE OF NEW ORGANIC ARSENIC COMPOUNDS. JOHANNES PFLEGER, Frankfort-on-the-Main, and AUGUST ALBERT, Munich, Germany. Original application filed Nov. 29, 1924, Serial No. 752,947, and in Germany Dec. 5, 1922. Divided and this application filed June 13, 1927. Serial No. 198,688. 11 Claims. (Cl. 260—14.)

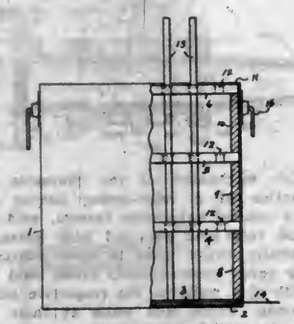
1. A process for the manufacture of new organic arsenic compounds which consists in reducing the condensation product of an organic arsenic compound containing carbonyl groups in non cyclical linkage with an nitrogen hydrogen compound containing the grouping $NH_2—\alpha—$ wherein α is carbon or oxygen and the amino hydrogens are reactive with carbonyl groups, the C=N bond in the resulting condensation product not being destroyed by the reducing process.

1,661,302. FASTENING CONDUCTING MECHANISM. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 13, 1926. Serial No. 94,524. 18 Claims. (Cl. 1—39.)



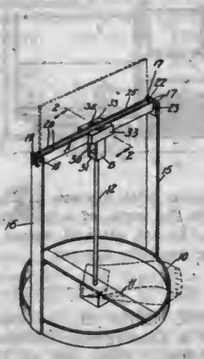
18. In a nail-loading mechanism, a nail-block having rows of nail-holding openings, a member having openings corresponding to a row of block-openings and with which said rows of block-openings may be successively alined, tubes leading from the openings, a foot-plate-section in which said tubes terminate, a tube fixed upon the foot-plate-section, and a turret rotatable about the axis of the fixed tube and provided with groups of tubes each including the fixed element and arranged to register with the tubes terminating in the foot-plate.

1,661,303. ELECTRODE RACK. HERMAN G. PRICE and BENJAMIN K. SMITH, Houston, Tex. Filed Feb. 24, 1927. Serial No. 170,714. 7 Claims. (Cl. 219—17.)



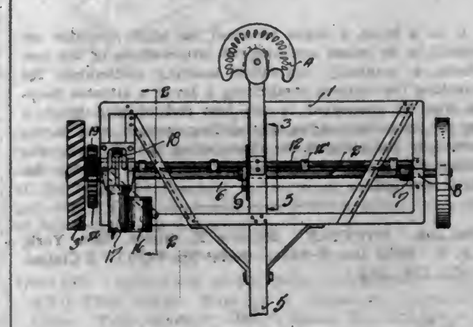
1. An electrode rack including a casing, an electrode support therein formed of nonfusible material, said support being also an electrical conductor, means for electrically connecting the support with the work and means in the casing for retaining the electrodes on said support, in spaced relation.

1,661,304. DISPLAY STAND. WILLIAM F. PRICE, Glastonbury, Conn. Filed Aug. 24, 1927. Serial No. 215,239. 8 Claims. (Cl. 211—59.)



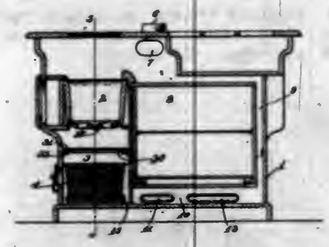
7. A display device having a base, a spindle extending upwardly therefrom, a pair of standards extending upwardly from said base, an element supported on and tying together the tops of said standards, said element having a groove in its upper surface to receive advertising matter, and a guard for said spindle carried by said element.

1,661,305. SUBSOIL CULTIVATOR. CLEMENT I. ROBERTS and BENJAMIN F. COLLIER, Albion, Wash.; said Collier assignor of one-eighth to Thomas A. Collier, Rockford, Wash.; and one-eighth to James F. Collier, Spokane, Wash. Filed Sept. 1, 1920. Serial No. 132,944. 1 Claim. (Cl. 97—144.1.)



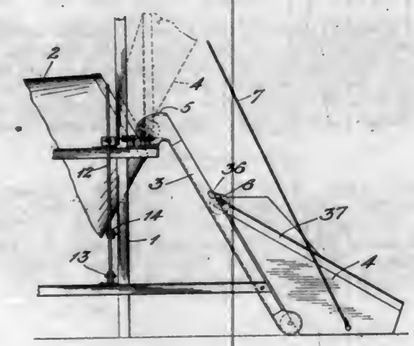
In a cultivator the combination with a main frame, supporting shaft and traction wheels, of a transversely extending sub-soil cutter blade, side arms rigidly secured to the blade and to said supporting axle, a ratchet lever rigid with the shaft and an arcuate rack plate fixed on the frame for co-action with the ratchet lever whereby the cutter blade may be rigidly maintained in operative position with its side arms disposed in a vertical plane, or rocked to adjusted position by means of the lever.

1,661,306. STOVE. ROBERT W. ROGERS, Framingham, Mass., assignor to Sterling Range and Furnace Corporation, Rochester, N. Y., a Corporation of New York. Filed May 18, 1922. Serial No. 561,813. 6 Claims. (Cl. 126—242.)



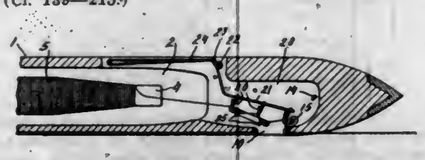
1. The combination with a stove having a fire pot and an ash pit beneath the same, of a vacuum exhauster communicating with the ash pit and means for temporarily sealing the latter from the fire pot.

1,661,307. HOIST. NILS M. ROSENDAHL, Waterloo, Iowa, assignor to Construction Machinery Company, a Corporation of Iowa. Filed Apr. 26, 1926. Serial No. 104,710. 3 Claims. (Cl. 214—103.)



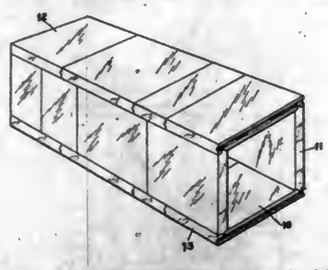
1. In a hoist, a lower terminal, an upper terminal an element to be raised and lowered intermediate of the terminals, a manually controlled hoisting mechanism for operating the element comprising a lever, a slidable member directly connected to the free end of said lever, a dog for normally holding the sliding member, and means carried by the element for disengaging the dog from the sliding member when said element is in its extreme elevated position.

1,661,308. SHUTTLE. MILTON H. RUBIN, New York, N. Y. Filed Jan. 7, 1926. Serial No. 79,717. 3 Claims. (Cl. 139—215.)



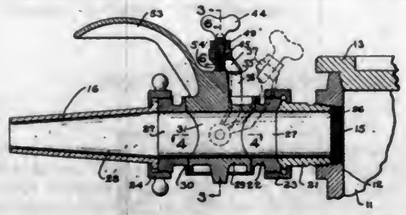
1. A shuttle for automatic looms comprising a shuttle body having a recess for holding a bobbin, an opening through which the thread from the bobbin passes, and a thread tensioning and slack take-up device mounted within the shuttle comprising a resiliently pivoted member, rings on said member into which the thread is directed formed with a turn-in hook to prevent dislodgment of the thread, a plurality of hooks secured within the shuttle body and adapted to engage the thread, and a spring member acting upon the pivoted member so as to restrain said member around its pivot against the pull of the thread and away from the hooks whereby a tension is maintained upon the thread.

1,661,309. REFRACTORY MUFFLE. CHARLES W. SAXE, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 3, 1926. Serial No. 120,466. 2 Claims. (Cl. 25—144.)



1. A refractory muffle structure for use in high temperature furnace operations comprising a plurality of flat dense refractory plates having a length equal to the width of the structure and provided with tongues and grooves interfitting to form continuous top and bottom walls of the muffle, and a plurality of plates of similar material extending between the top and bottom which are provided with tongues and grooves interfitting to form the muffle sides, said side plates being arranged upon the bottom plates and adapted to support the top plates and provided with wide flat edges containing tongues adapted to engage grooves in the inner flat surfaces of the top and bottom plates, thereby providing an integral self supporting structure adapted to effectively resist the heat changes encountered in high temperature operations.

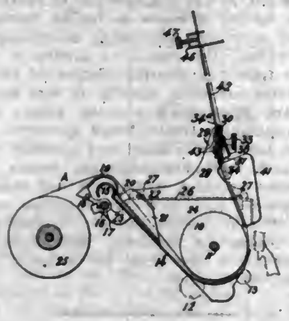
1,661,310. VALVE MECHANISM. OSCAR C. SCHMIDT, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 29, 1924. Serial No. 740,443. 2 Claims. (Cl. 251—153.)



1. In valve mechanism of the character described, the combination of a valve-casing having a conical valve-seat, a conical valve-plug therein, said valve-casing and said valve-plug provided with passages which are substantially alined when in open relation and of substantially equal cross-sectional areas, said valve-plug provided with side walls at the respective sides of the passage therein, which side walls at their narrowest portion are of a width substantially equal to the diameter of said last-named passage, said valve-casing provided with lateral enlargements in which said side walls are received when said passages are alined, a yoke comprising side arms at the sides of said valve-casing, pivotal connecting means between the ends of said side

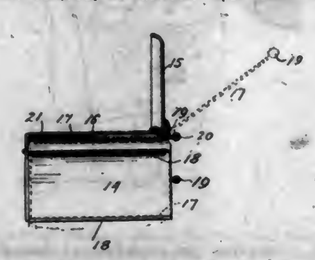
arms and said enlargements of said valve-casing, said side arms having recesses therein extending in the direction of said alined passages, said yoke provided with an extension extending along the axis of said valve-plug at the end of larger diameter of said valve-plug, means between said extension and said valve-plug whereby to adjustably seat said valve-plug in said valve-casing, means for fixing said last-named means for repeated similar reseatings of said valve-plug, and a handle for said valve-plug at the end of larger diameter of said valve-plug arranged to be moved to the right and to the left of said valve-casing for locating the major axis of said handle perpendicular to the axis of said alined passages in said valve-casing and parallel with said last-named alined passages for respectively open relation and closed relation of said valve, and the body portion of said handle at the respective sides of said major axis thereof received in said recesses in said arms at the respective sides of said valve-casing for complete openings of said valve.

1,661,311. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 6, 1924. Serial No. 736,216. 16 Claims. (Cl. 197—133.)



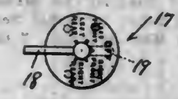
1. In a typewriting machine, the combination of a platen, a platen-frame upon which said platen is mounted, opposing side members carried by said platen-frame, a pair of standards having rightangular bearing plates removably secured upon said side members, rightangular lugs formed at the upper ends of said standards, a knife-bar extending longitudinally of said platen and having its opposing ends formed with vertical slots, the slotted ends of said knife-bar overlying said lugs, and set-screws projecting into said slots, tapped into said lugs and overlying said knife-bar to adjustably hold said knife-bar in position.

1,661,312. LUBRICATION INDICATOR. MARVIN SMITHEY, Lawrenceville, Va. Filed Dec. 26, 1923. Serial No. 682,703. 3 Claims. (Cl. 116—115.)



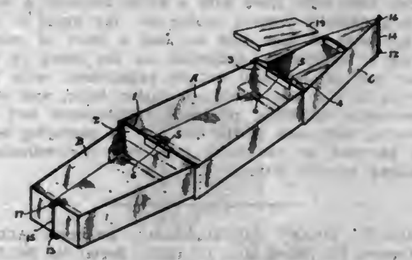
3. A speedometer having a cylindrical casing and a face plate with a slot for the display of the odometer dials, a supporting plate to which the speedometer casing is attached having a hole concentric with said casing and the odometer dials having distinctive markings and a circular series of tablets slidably mounted about the speedometer casing and movable back and forth through the hole in said supporting plate, said tablets being provided with textual matter referring to the dial markings of the odometer.

1,661,313. AUTOMOBILE TROUBLE LAMP. WALTER E. STEVENS and TORRENCE R. SEIPLE, Ashley, Pa. Filed Jan. 29, 1927. Serial No. 164,598. 1 Claim. (Cl. 240—8.2.)



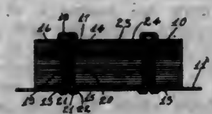
In combination, a wheel fender, a lamp housing body carried at the under side of said fender and open at its lower side, and having a keeper at one end of its lower side and also having a lens at said side arranged to direct light downwardly and toward a wheel complementary to the fender, a lamp in said housing above said lens, and a cover of imperforate character hingedly connected to the housing body at one end of said lower side of the housing body and having a latch at its opposite end adapted to engage said keeper tongue of the housing body; said cover when its latch is disengaged from the keeper tongue being adapted to gravitate to and remain of itself in a pendent position at one end of said lens and at a substantial right angle thereto.

1,661,314. SECTIONAL BOAT. ADAM W. TRINIER, Parry Sound, Ontario, Canada. Filed Jan. 10, 1926. Serial No. 160,285. 5 Claims. (Cl. 9—2.)



1. A sectional boat, comprising a plurality of sections formed with water-tight bulkheads at the end adapted to be butted together, a keel extending across the joint and between the assembled sections, means intermediate of the length of the keel for securing said sections together and to the keel, and means for securing the ends of the keel to the end sections.

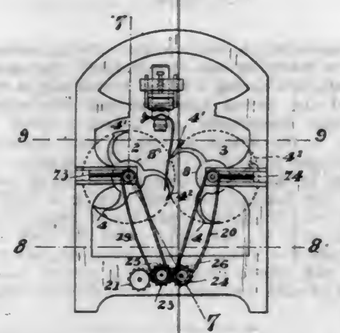
1,661,315. BINDING POST FOR CALENDAR PADS AND THE LIKE. WILLIAM T. SULLIVAN, Cincinnati, Ohio. Filed Mar. 1, 1927. Serial No. 171,890. 5 Claims. (Cl. 281—25.)



1. The combination of a base having a perforation therein, a sleeve having a bore in alignment with the perforation in the base, a flange carried by the sleeve

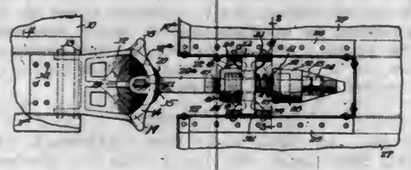
and contacting the base, a paper fastener comprising a pair of bendable arms, and a head on the paper fastener abutting one end of the sleeve, the bendable arms extending through the bore in the sleeve and through the perforation in the base having their ends bent upon the base for securing the base between the flange on the sleeve and the bent portions of the arms and for securing the sleeve at substantially right angles to the plane of the base.

1,661,316. SCUTCHING MACHINE. JOSEPH VAN STEENKISTE and JOSEPH VAN MAERCKE, Wevelghem, Belgium. Filed Mar. 12, 1924, Serial No. 698,703, and in Belgium Mar. 20, 1923. 7 Claims. (Cl. 19—13.)



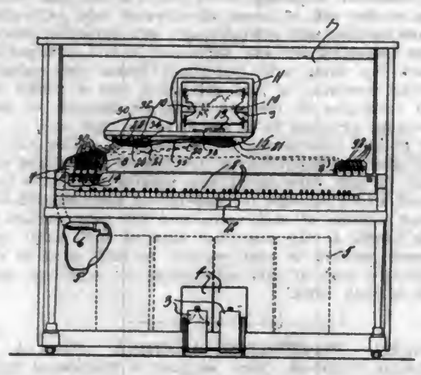
1. In a scutching machine, the combination with sets of scutching or swinging cylinders each turning in opposite directions of sets of longitudinally conveying flexible steel belts, lined with a woven material, a layer of longitudinally grooved rubber on the lining of one of the belts of each said set and a layer of rubber having a longitudinal projection on the lining of the other belt of the said set in engagement with the grooves in the first mentioned rubber layer, and of a transversely travelling returning flexible steel belt cooperating with each of the said sets of conveying belts and provided on the outer face with perpendicularly arranged parallel laths.

1,661,317. DRAFT MECHANISM. ANDREWS ALLEN, Glencoe, Ill. Filed Mar. 13, 1922. Serial No. 543,150. 5 Claims. (Cl. 213—46.)



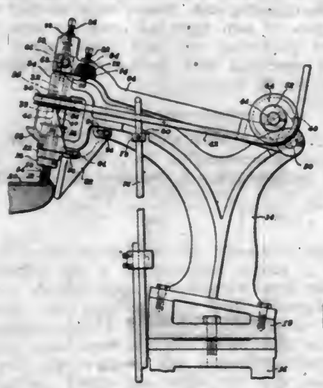
1. Draft mechanism for mine cars comprising in combination a draw bar having a shank portion, a coupler block through which the said shank extends, springs mounted upon said shank on each side of the coupler block and adapted to receive normal pulling and buffing strains, cup shaped members mounted upon the said shank within which the said springs are seated and adapted to transmit pulling and buffing strains to said coupler block when the said springs are compressed and means for securing the said coupler block to a mine car.

1,661,318. PNEUMATIC PIANO CONTROL. OTIS BALLARD, Toledo, Ohio. Filed Feb. 23, 1926. Serial No. 89,945. 3 Claims. (Cl. 84—155.)



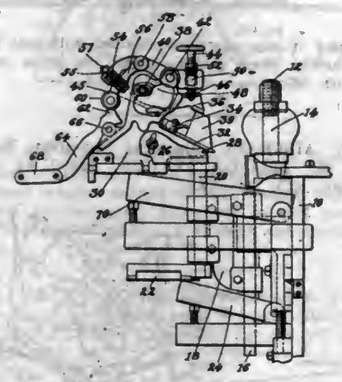
1. A player-piano having a spool-box, a tracker-board in said spool-box having a single line of apertures therein, notation motive elements controlled through a portion of said apertures, expression controlling elements controlled through the remaining portion of said apertures, ducts from the notation portion of said tracker-board apertures extending directly to said notation motive elements, duct communication means from said expression controlling tracker-board apertures, a member remote from said tracker-board and provided with ports to which said duct communication means extend, a second member provided with ports and coacting with said first member, and duct communication means from the ports of said second member extending to said expression controlling elements, said members being shiftable one as to the other for bringing said ports into and out of registry.

1,661,319. MACHINE FOR OPERATING UPON SOLES. FREDERIC E. BERTRAND, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 21, 1920. Serial No. 375,600. 27 Claims. (Cl. 12—17.)



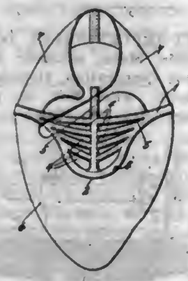
27. In a machine for operating on lasted shoes, in combination, means for turning up the channel flap at the toe of a shoe, means for enlarging the channel at the toe while said flap turning means is operating, a work gage having a gaging surface disposed in parallel relation to the axis of the tool for determining the location of the channel enlarging tool with respect to the work, said gage being mounted for adjustment toward and from the tool, and means associated with the gage for maintaining the parallel relation of its gaging surface with the tool axis in various positions of adjustment.

1,661,320. WOOD-HEEL-TURNING MACHINE. WALTER W. BRADBURY, St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 28, 1927. Serial No. 195,117. 8 Claims. (Cl. 12—87.)



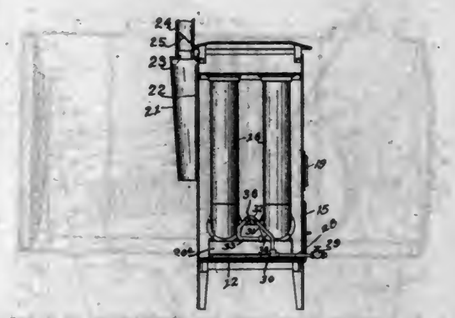
1. In a wood heel turning machine, a jack having a clamping face arranged to receive the heel-seat surface of a heel blank, a clamping member arranged to engage the toplift surface of the blank, a second clamping member arranged to force the first-named clamping member toward the clamping face, and a screw trunnioned in the second clamping member and engaging the first-named clamping member.

1,661,321. METHOD OF MAKING BOOTS OR SHOES. ARTHUR J. BRAUER, Glendale, and FREDERICK P. WAGNER, and WALTER S. OVERTON, St. Louis, Mo., assignors to Brauer Bros. Shoe Co., St. Louis, Mo., a Corporation of Missouri. Filed July 5, 1924. Serial No. 724,354. 7 Claims. (Cl. 12—146.)



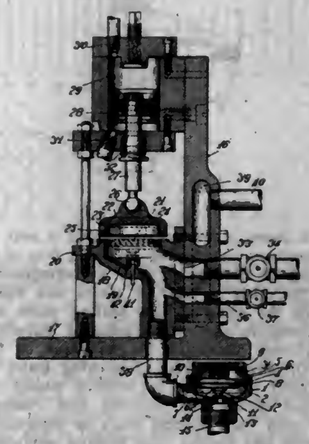
2. In the art of making shoes, the method comprising, cementing together an instep piece and its lining, perforating the closely adhering assembled parts, stitching the assembled perforated parts, and attaching the lined instep piece when so perforated and stitched, to the upper.

1,661,322. HEATER. THEODORE G. CRANE, Chicago, Ill. Filed Apr. 10, 1925. Serial No. 22,045. 4 Claims. (Cl. 126—95.)



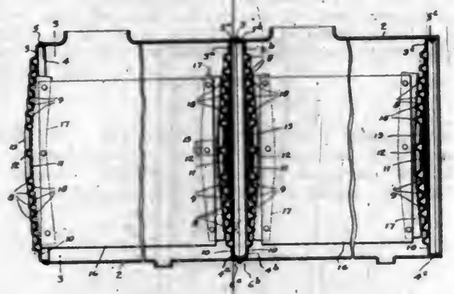
1. In a heater of the class described, a casing having inlets for air and a flue connection, air flues leading into said casing near the bottom thereof and emerging from the top, a vaporizing burner within the casing adapted to heat said flues, and a cover for said casing centrally apertured and spaced above said casing whereby an additional quantity of air is mixed with that from the hot air flues to temper the same.

1,661,323. METHOD AND APPARATUS FOR SETTING THERMOSTATS. DAVID N. CROSTHWAIT, Jr., Marshalltown, Iowa, assignor to C. A. Dunham Company, Marshalltown, Iowa, a Corporation of Iowa. Filed Sept. 30, 1925. Serial No. 59,706. 16 Claims. (Cl. 73—51.)



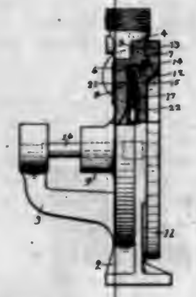
1. The method of adjusting expansion thermostats consisting in assembling the thermostat with the member by which it is supported when in service, subjecting this assembly to the temperature and pressure under which the thermostat should expand to operative position, measuring the variation from standard of the expanded thermostat, and then adjusting the thermostat in the supporting member to compensate for the variation from standard.

1,661,324. VEHICLE TANK. AUGUSTINE DAVIS, Jr., Covington, Ky. Filed May 19, 1924. Serial No. 714,223. 9 Claims. (Cl. 220—20.)



1. In a motor truck tank, the combination of a horizontal axis shell, a head having a peripheral flange, a weld joint uniting the flange to the shell, the body of the head being dished and being largely occupied by corrugations concentrically disposed within the flange, the central area of the head inside the innermost of the concentric corrugations containing crossing corrugations.

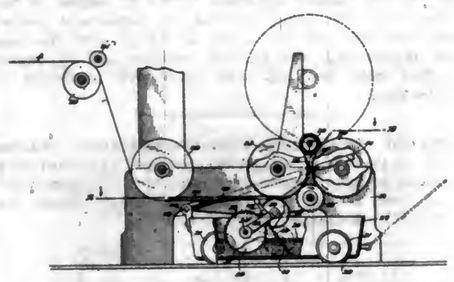
1,661,325. ROTARY PUMP. WILLIAM I. DERRICK, Davenport, Iowa. Original application filed May 4, 1922, Serial No. 558,452. Divided and this application filed July 23, 1926. Serial No. 124,365. 5 Claims. (Cl. 103—96.)



1. In a pump, a casing comprising a pair of complemental members each having a seating face of substantial width adapted to contact with a corresponding seating face of the other member, a closed and endless recess formed in the zone of said seating faces and defined by said members, said recess being of materially greater cross sectional dimension in the plane of the seating faces than normal thereto, a packing gland of deformable material adapted to be received wholly within said recess, and means for securing said casing members together with their seating faces in substantial contact to compress and deform said packing providing a liquid seal between said faces, the cross sectional area of said packing gland being materially smaller than the corresponding cross sectional area of said recess.

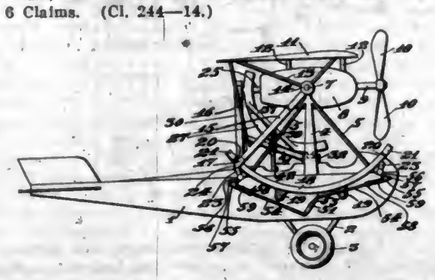
1,661,326. APPARATUS FOR FORMING AND HANDLING PAPER ROLLS. GEORGE W. DINGEE, Utica, N. Y. Filed June 8, 1922. Serial No. 566,831. 7 Claims. (Cl. 242—266.)

1. The combination with a paper winding mechanism having two spaced apart drums upon which a mandrel for winding the paper may rest, and devices for driving the drums; of an adhesive applying mechanism, and means



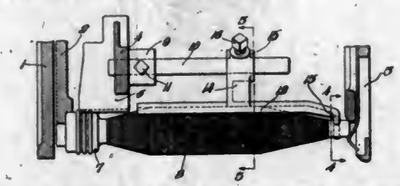
for bringing it into operative relation with one of the drums whereby paper passing about the drum may be coated with adhesive.

1,661,327. AIRCRAFT. DEMETRE DONCHEFF, East St. Louis, Ill. Filed Dec. 21, 1925. Serial No. 76,739. 6 Claims. (Cl. 244—14.)



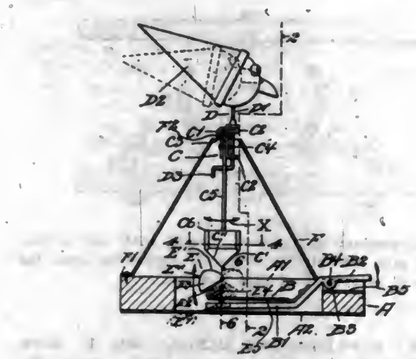
1. In an aeroplane, a fuselage body, trunnion supports thereon, a motor housing having trunnions pivotally mounted on said supports on an axis transversely of said fuselage body, rocking frames movable with said motor housing, plane wings supported by said rocking frames so as to move in fixed relation to said motor housing, releasable latching means for holding said rocking frames in normal and operated positions, a laterally shiftable rack sector on said fuselage body, a pinion driven from the motor in said housing, said pinion being normally disengaged from said rack sector, and means controlled by the operator for shifting said rack sector to operatively engage the latter with said pinion, at will, whereby to shift said motor housing and said plane wings about said transverse axis on said fuselage body.

1,661,328. WEFT-REPLENISHING LOOM. CLARE H. DRAPER, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 21, 1925. Serial No. 70,469. 5 Claims. (Cl. 139—244.)



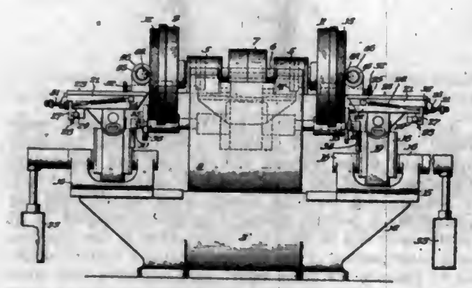
1. A weft replenishing loom having, in combination, a hopper, and a transferrer having a butt end engaging portion, an intermediate yarn engaging portion separate from the butt-engaging portion and provided with a tip engaging portion.

1,661,329. GAME DEVICE. EARL F. GALE, Los Angeles, Calif. Filed Feb. 16, 1927. Serial No. 168,741. 4 Claims. (Cl. 273—161.)



4. An index device comprising a rockable bracket, an index rotatably carried by and rockable with said bracket, a pendulous member secured to said bracket, and means to initiate an oscillatory movement to said pendulous member, said means being of a variable and non-selective character.

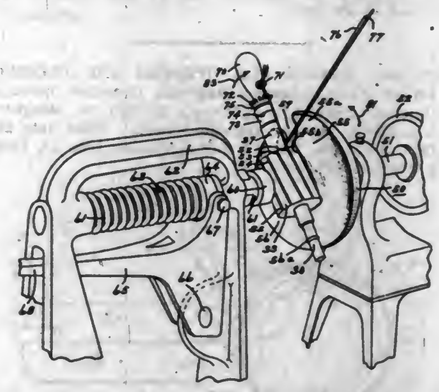
1,661,330. GRINDING MACHINE. EDWARD B. GARDNER, RALPH D. GARDNER, and JOHN NIELSEN, Beloit, Wis. Filed Jan. 4, 1923. Serial No. 610,548. 7 Claims. (Cl. 51—240.)



1. In a grinding machine the combination of a pair of grinding wheels, a work table for each wheel, means for yieldably urging said tables toward their respective wheels, adjustable means for limiting the extent of such movement, and counter-balanced means for automatically moving said tables parallel with the grinding faces of said wheels.

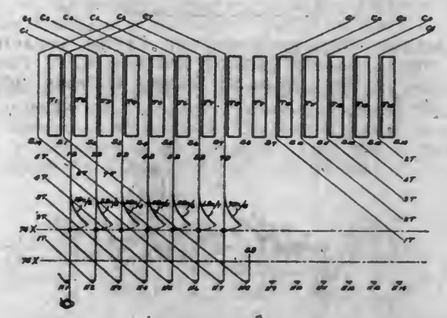
1,661,331. APPARATUS FOR WINDING ARMATURES. ALBERT B. GOMORY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Original application filed Feb. 3, 1923, Serial No. 616,842. Divided and this application filed Sept. 26, 1924, Serial No. 740,058. Renewed Aug. 11, 1927. 10 Claims. (Cl. 242—13.)

1. In a machine for winding armatures, the combination with a rotatable shaft; of a winding head mounted thereon and provided with a recess having a cylindrical wall adapted to receive an open slotted armature core assembled on an armature shaft, and having cheeks on opposite sides of the recess said cheeks merging with said cylindrical wall at edges angularly spaced in conformity with the angular spacing of certain armature core slots, and having scoop portions adjacent the ends of the recess which are spaced from the armature shaft, one of said scoop portions having a notch extending from the periphery of the head to facilitate moving



the armature coil ends away from the winding region; and means for maintaining an armature within said recess while permitting it to be rotated.

1,661,332. MANUFACTURE OF ARMATURES. ALBERT B. GOMORY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Continuation of application Serial No. 616,842, filed Feb. 3, 1923. This application filed Nov. 20, 1924. Serial No. 751,183. 5 Claims. (Cl. 171—206.)

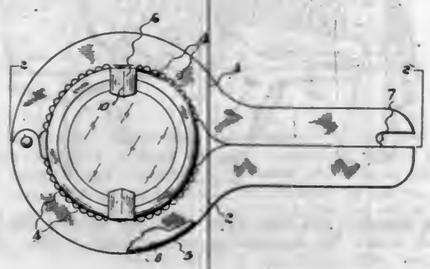


1. The process of making an armature which includes winding successively upon an open slotted armature core a plurality of coils of wire, providing between successive coils a loop of wire one branch of which leads from the ending active-coil-side of the preceding coil and the other branch of which leads to the starting active-coil-side of the next succeeding coil; and in severing the loop branch leading to the starting active-coil-side of a preceding coil to provide separated coil leads for said preceding coil, and in bending the lead of starting active-coil-side of the preceding coil away from the winding region of the next coil to be wound before winding the next succeeding coil in order that the severed lead may be brought out between the end of the core and the wire conductors overlapping the end of the core.

5. An armature for dynamo-electric machines comprising, in combination, a slotted core, a commutator, and a plurality of coils each embracing a plurality of core teeth, and having leads for connecting the coils with certain bars of the commutator, the coils overlapping each other at the ends of the core, each core slot receiving portions of a plurality of coils, the start and end

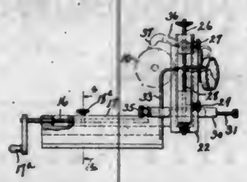
leads of coils underneath other coils and the start leads of coils overlying other coils in a core slot extending from the coils to the commutator from between the end of the core and the overlapping coil portions adjacent that end of the core.

1,661,333. DEVICE FOR OPENING AND CLOSING FRUIT JARS. ARTHUR REGINALD GURNETT, Toronto, Ontario, Canada, assignor of one-half to Margaret Jean-Marie, Toronto, Ontario, Canada. Filed July 23, 1926, Serial No. 124,377, and in Canada June 28, 1926. 2 Claims. (Cl. 81—3.1.)



2. In a device of the character described, the combination of a pair of gripping members pivoted together at one end and shaped to form between them a substantially circular opening; a handle on each gripping member, and an upwardly and inwardly directed tongue on each gripping member said gripping members being provided with a flange extending substantially from end to end thereof and lying substantially at a right angle thereto.

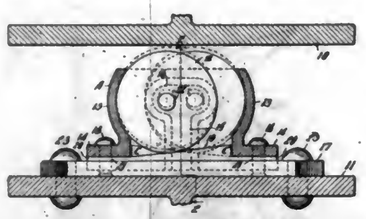
1,661,334. GEAR-ROUNDING-OFF LATHE ATTACHMENT. SOLOMON HELLCOTT, New York, N. Y. Filed Apr. 17, 1926. Serial No. 102,630. 6 Claims. (Cl. 90—3.)



1. A lathe attachment of the class described comprising a block, a hinged gauge carried by said block, said gauge having a slotted work engaging element slidable therethrough and interior reduction gearing cooperating therewith, a dial and indicating arms actuated by said gearing whereby the diameter of a gear being reduced may be determined at all stages of the continuous cutting operation and means for setting the gear to be cut on said block for contact with the said work engaging element.

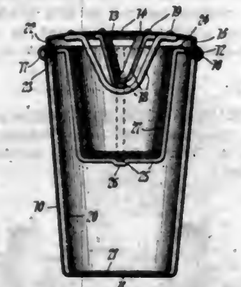
1,661,335. ANTIFRICTION BEARING. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Jan. 18, 1924. Serial No. 686,945. 8 Claims. (Cl. 308—226.)

6. In an anti-friction bearing, the combination with relatively movable members; of a support on one of said members; a plurality of anti-friction elements interposed between said members, abutment means at opposite ends of said bearing engaged by each roller to limit the movement thereof in opposite directions; and means for elevating one of said rollers as it approaches one end of said support upon relative movement of said members to



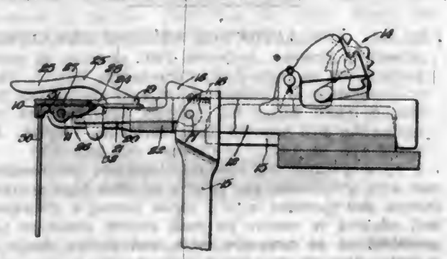
cause independent engagement thereof with one or another of said anti-friction elements, depending upon the direction of movement of said members.

1,661,336. REFRESHMENT MIXER. GUS M. KATZ, New York, N. Y. Filed Feb. 17, 1925. Serial No. 9,729. 5 Claims. (Cl. 146—3.)



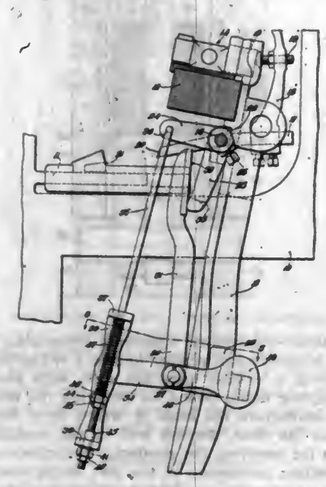
1. A refreshment shaker and top comprising an outer vessel, an inner vessel adapted to nest within the outer vessel and to be reversed and its open end inserted in the open end of the outer vessel to constitute a shaker, a common top for both vessels when nested, said top comprising a portion having a periphery adapted to fit in the outer end of the outer vessel when in one position, said outer portion of the top also having a portion adapted to embrace the outer vessel, said top when said inner vessel is nested in the outer vessel being adapted to cover both vessels and hold one nested within the other.

1,661,337. DETECTOR MECHANISM FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 5, 1924. Serial No. 754,064. 7 Claims. (Cl. 139—377.)



1. Detector mechanism for looms having, in combination, a detector slide, a detector fork carried by the slide provided with a tail, and a weft hammer provided with a weft hammer hook and a fork guard extending rearwardly from the weft hammer hook above the weft fork for engaging the fork upon excessive upward movement thereof.

1,661,338. SHUTTLE-BOX TENSION-CONTROLLING MECHANISM FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 9, 1925. Serial No. 13,948. 9 Claims. (Cl. 139—186.)



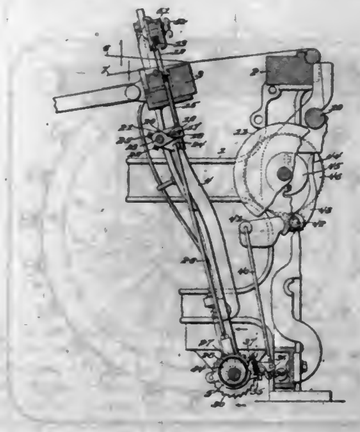
1. Shuttle box tension controlling mechanism for looms having, in combination, a lay, swords upon which the lay is mounted, shuttle boxes for the lay, binders for the shuttle boxes, pressure applying means for the binders comprising a bell crank lever having a long arm and a short arm pivoted on the sword below the lay, the long arm parallel to the sword, and the short arm extended substantially at right angles thereto, and yielding connections between the pressure applying means and the binders.

1,661,339. LOOM. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 30, 1927. Serial No. 187,818. 4 Claims. (Cl. 139—188.)



1. A loom having, in combination, a lay having a straight shuttle raceway and a curved reed supported on the lay to beat the weft laid by the shuttle in the shed into a curved fell from selvage to selvage, and a series of shuttle guiding teeth arranged in straight alinement in front of the curved reed to engage the back wall of the shuttle and guide it in a straight path and from contact with the curved reed.

1,661,340. LOOM. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 11, 1927. Serial No. 167,505. 8 Claims. (Cl. 139—188.)



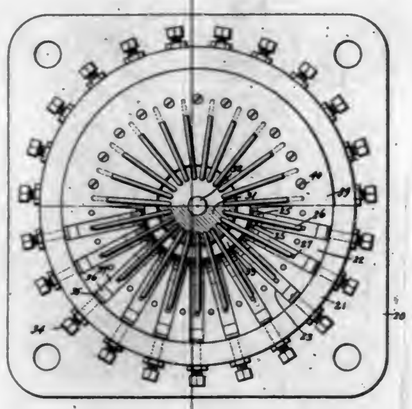
1. A loom having, in combination, a lay, a reed, and means for moving the reed slowly up and down during the operation of the loom, including a pawl and ratchet, means for supporting the ratchet for movement by the lay relatively to the pawl but through a distance insufficient to turn the ratchet one tooth, and eccentric means for slowly shifting the pawl in a direction to rotate the ratchet whereby the ratchet is rotated by a stroke of the lay through a distance that is only a fraction of the distance from one ratchet tooth to the next.

1,661,341. SIX-THROW FOUR-BEARING BALANCED CRANK SHAFT. JOHN A. OLDSON, Worcester, Mass., assignor to Wyman-Gordon Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 1, 1925. Serial No. 27,282. 1 Claim. (Cl. 74—38.)



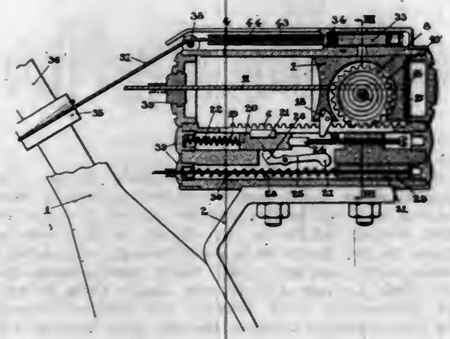
A six-throw four-bearing crankshaft, having two straight single cheeks and one curved connecting cheek between each end bearing and its adjacent intermediate shaft bearing and having two straight single cheeks between the two intermediate shaft bearings, and having a counterweight applied to each single cheek adjacent the end shaft bearings and to each single cheek between the intermediate shaft bearings and adjacent thereto, the counterweights adjacent the end shaft bearings substantially counterbalancing certain of the unbalanced dynamic forces generated by high speed rotation of the crankshaft, and the counterweights between the intermediate shaft bearings maintaining the static balance of the shaft, the center line of each end counterweight being offset from the projected center line of its supporting crank cheek at an angle of approximately 15° in one direction, and the intermediate counterweights being offset from their supporting crank cheeks and disposed at an angle of substantially 180° with respect to the end counterweights.

1,661,342. APPARATUS FOR ALIGNING ARMATURE-CORE LAMINÆ. WILLIAM E. PABST, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 21, 1926. Serial No. 130,617. 5 Claims. (Cl. 29—84.)



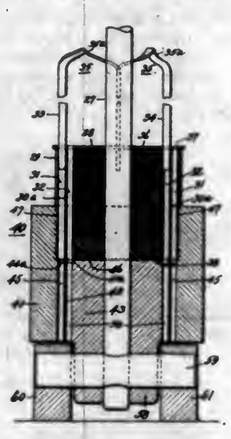
1. Apparatus for truing the slots of a laminated armature core assembled upon a shaft comprising, in combination, means for guiding the core for endwise movement, devices adapted to be received by the core slots for progressively displacing the laminations of the core angularly in order to force them into alinement, and means for pressing the core against said devices.

1,661,343. SIGNALING APPARATUS FOR VEHICLES, MORE PARTICULARLY FOR MOTOR CARS. JACQUES PARCQ, Paris, France. Filed Feb. 14, 1924, Serial No. 692,857, and in France Feb. 28, 1923. 3 Claims. (Cl. 177—337.)



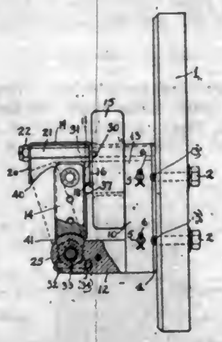
1. A vehicle signaling apparatus, comprising, a normally inactive stop signal, movable means to make the stop signal active, holding means to retain the stop signal in active condition, release means for the holding means operation of which release means permits the stop signal to become inactive, a connection between said release means and the accelerator control of the vehicle whereby operation of the accelerator causes operation of the release means.

1,661,342. APPARATUS FOR ALIGNING ARMATURE-LORA E. POOLE, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 28, 1926. Serial No. 118,875. 13 Claims. (Cl. 29—84.)



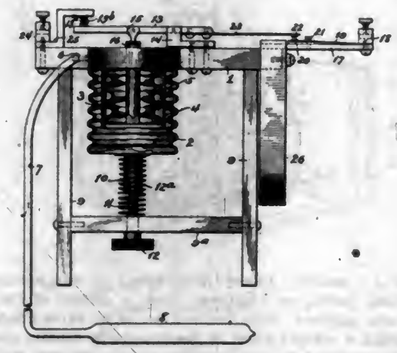
1. Armature assembling apparatus comprising, in combination, a cup-shaped member having a cylindrical recess for receiving a slotted armature core, each slot having non-conducting lining means for receiving the branches of hair-pin conductors the ends of which have been introduced into the slots, the end wall of the member having apertures for receiving the conductor branches and means for preventing movement of the slot lining means; and means for moving the conductors endwise relative to the core.

1,661,345. ALTERNATING-CURRENT MAGNET. CHARLES H. RIPPL, East Cleveland, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1927. Serial No. 171,192. 5 Claims. (Cl. 175—338.)



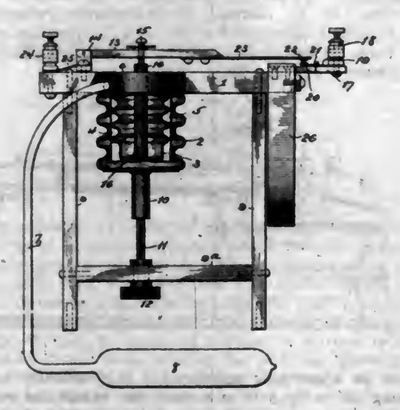
1. In A. C. magnet construction the combination of a U-shaped core provided with the magnet winding and having a curved end on one leg, and a faced end on the other leg, an armature having a curved end pivotally mounted about said first named leg to provide a curved air gap, said armature having a faced portion adpted to be drawn against said other leg, the pull through said faced surfaces of said core leg and armature being substantially at right angles to the pull between said armature and other leg at the pivotal connection and adjusting means at such pivotal connection to allow said two abutting faces to be brought into alignment.

1,661,346. THERMOSTATIC CONTROLLING MECHANISM. CHARLES BALDWIN SAWYER, Cleveland, Ohio, assignor to The Brush Laboratories Company, Cleveland, Ohio. Filed Nov. 17, 1922. Serial No. 601,652. 17 Claims. (Cl. 200—140.)



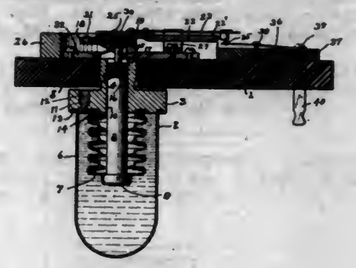
1. In mechanism of the character described, the combination of thermostatic means including two extensible cup-shaped bellows having their open ends connected to a closing member and having relatively movable closed ends disposed one within the other forming a fluid chamber between them, and electric circuit opening and closing means connected with the inner bellows.

1,661,347. THERMOSTATIC CONTROLLING MECHANISM. CHARLES BALDWIN SAWYER, Cleveland, Ohio, assignor to The Brush Laboratories Company, Cleveland, Ohio. Filed Nov. 17, 1922. Serial No. 601,653. 13 Claims. (Cl. 200—140.)



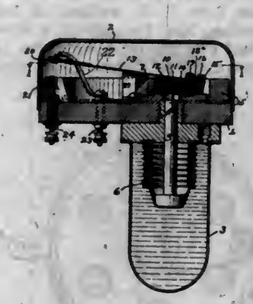
1. In mechanism of the character described, the combination of a pivoted member including a flexible part carrying a contact, a contact cooperable with said first-mentioned contact, and a means cooperable with said pivoted member for moving it, whereby said member will have a toggle action to cause the contact carried thereby to wipe the other contact and also to separate one contact from the other, the connection between the contact carried by said pivoted member and the pivotal mounting therefor being substantially inextensible within the normal range of operation of the mechanism.

1,661,348. THERMOSTATIC CONTROL DEVICE. FRED W. GRUNDMAN, Cleveland, Ohio, assignor to The Brush Laboratories Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 4, 1923. Serial No. 629,820. 13 Claims. (Cl. 200—140.)



1. In mechanism of the character described, the combination with a support, of circuit opening and closing mechanism carried by said support, comprising a pivoted lever, means connected to the lever for movement therewith during normal operation of the device, said means carrying a contact engageable with a cooperable contact to close the electrical circuit, a temperature control device comprising an enclosed chamber completely filled with liquid not saturated with gases in solution within the operating range, said chamber having an expansible portion movable in response to changes in the volume of said liquid, a plunger carried by said expansible portion to cause said lever to move to circuit closing position, said means movable with the lever being connected thereto to permit relative movement with respect to said lever when the lever is further moved beyond a predetermined operating position after the contacts are engaged.

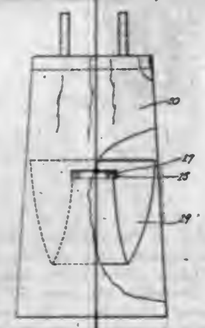
1,661,349. THERMOSTATIC CONTROLLING DEVICE. CHARLES B. SAWYER, Cleveland, Ohio, assignor to The Brush Laboratories Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1924. Serial No. 699,707. 25 Claims. (Cl. 200—140.)



1. A device for controlling the operation of heat transfer apparatus to maintain the temperature within predetermined limits which comprises in combination, a controlling means for the heat transfer apparatus, an actuator for the controlling means which comprises a sealed chamber with an expansible portion, means operatively connecting said portion with said controlling means, said connecting means being adapted to considerably magnify the motion of said controlling means, said chamber being completely filled with liquid not saturated with gases in solution within the operating range,

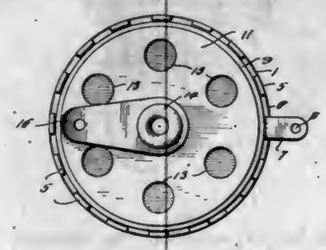
whereby movement of the expansible portion is solely dependent on the volume of the enclosed liquid and substantially independent of the forces opposing such movement.

1,661,350. LADY'S COMBINATION UNDERGARMENT. KATHERINE SCHMUTZLER, Glenside, Pa. Filed June 2, 1927. Serial No. 195,892. 1 Claim. (Cl. 2—73.)



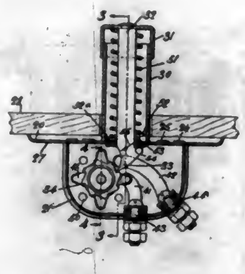
A garment of the class described comprising an inverted T-shaped section of material consisting of an upper tapering portion and a lower longitudinal section of material, the juncture of both portions serving as the waist line, a strip having spaced apart buttons thereon secured to the longitudinal section below the waist line, an additional section of material of the same dimensions as the upper portion of the T-shaped section secured to the latter by stitching, a tab having a tapering outline and having its upper end secured to the additional section, said tab having buttonholes formed therein adapted to engage the buttons on the strip, the upper corners of the longitudinal portion being secured in overlapped relation to form a concealed slit.

1,661,351. ELECTRICAL CONDENSER. HARRY R. VAN DEVENTER, New York, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 28, 1925, Serial No. 12,236. Renewed July 22, 1927. 15 Claims. (Cl. 175—41.)



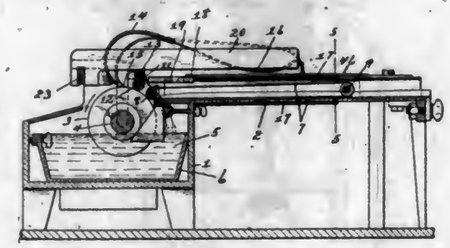
1. A condenser comprising plates mounted to be relatively movable, each of said plates having one or more recesses therein so that when said plates are adjusted to put the recesses of the two plates wholly or partially into or out of registry, the capacity of said condenser may be varied, and insulation between the plates and in contact with substantially the entire opposing surfaces thereof.

1,661,352. ELECTRIC SWITCH. WILLIS G. YOUNG, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 30, 1925. Serial No. 26,954. 4 Claims. (Cl. 200—6.)



4. An electric switch comprising, in combination, a housing having an apertured cover, a portion of the edge of said aperture being inclined so as to extend into the housing, a ratchet wheel in the housing, a contact adapted to be operated by the rotation of the ratchet wheel, a plunger carried by the housing and adapted to operate with straight-line and swinging movement, said plunger extending through the aperture in the switch housing and having a pawl portion within said housing adapted to engage the ratchet wheel, a spring adapted to urge the plunger in one direction of its straight-line movement, a washer surrounding the plunger and engaged by one end of the spring, the one side of the washer resting upon the cover of the switch, and a roller interposed between the inclined edge of the cover aperture and the washer, said roller exerting a side pressure upon the plunger, due to the action of the spring, whereby the plunger is held in position in which the pawl portion thereof engages the ratchet wheel.

1,661,353. GUMMING MACHINE. WILLIAM G. ZEPP, Troy, N. Y., assignor to Whitehurst Printing and Binding Company, Troy, N. Y., a Corporation of New York. Filed Mar. 5, 1927. Serial No. 173,013. 9 Claims. (Cl. 91—58.)

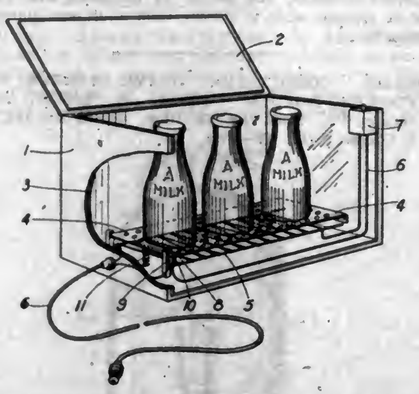


1. In a gumming machine and in combination, a gumming roll in the path of a sheet fed through the machine; a conveyer movable above and transversely of the path of the sheet in advance of the gumming roll; and a stripper in the path of the gummed sheet and retroverted to overhang the path of the sheet in advance of the gumming roll above the plane of the conveyer.

1,661,354. ANTIFREEZE CONTAINER. WILLIAM W. AYER, West Englewood, N. J. Filed Mar. 17, 1927. Serial No. 176,187. 1 Claim. (Cl. 219—19.)

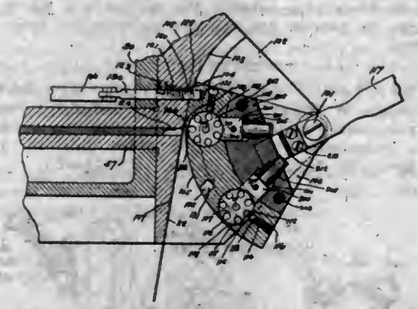
Anti-freeze apparatus comprising a container and means for closing the same against the admission of air, an electric circuit, a circuit closer, means whereby

the circuit closer is automatically operated by an article placed in the container, and a thermostatic circuit closer in said circuit arranged to break the circuit when the



temperature in the container rises to a predetermined point, and to close the circuit when the temperature of the closed container falls to a predetermined point.

1,661,355. METHOD AND MACHINE FOR LINING AN ARMATURE CORE WITH A FLEXIBLE STRIP. RUSSELL W. BAKER, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 29, 1926. Serial No. 98,185. 10 Claims. (Cl. 29—84.)

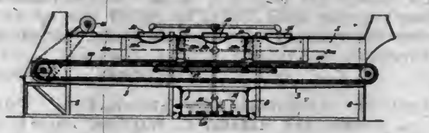


1. The method of lining an armature core with a flexible strip of insulating material, which includes pushing the strip into the core in a direction transverse to the core axis to form a narrow loop of material within the core, introducing a suitable tool into the end of the slot and narrow loop, moving the tool endwise of the core to cause the loop to be spread out and to conform to the side walls of the teeth defining the slot, and pushing a loop of material into a succeeding slot while the tool remains within the preceding slot.

3. A machine for lining an armature core with a flexible strip of insulating material, comprising, in combination, a core holder, means for introducing a loop of paper into a core slot, and means for spreading the loop to cause it to engage the sides of the core teeth defining the slot.

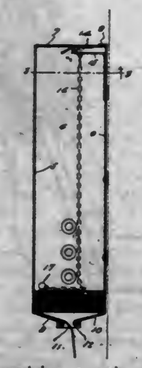
1,661,356. WASHING MACHINE. WENTWORTH V. BAKER, Detroit, Mich. Filed Sept. 15, 1926. Serial No. 135,684. 4 Claims. (Cl. 141—1.)

1. In a washer, an elongated casing, a conveyor mounted in said casing for the passage of articles therethrough, a cleaning fluid reservoir formed beneath and communicating with said casing, means for directing fluid towards said conveyor, a sloping drain plate



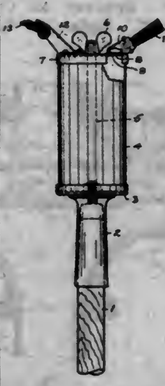
mounted at the top of said reservoir, and a trough formed at the lower end of said drain plate for receiving foreign matter washed down the plate.

1,661,357. PAPER-TOWEL CABINET. NAPOLEON BOIVIN, Berlin, N. H. Filed Apr. 4, 1927. Serial No. 180,854. 2 Claims. (Cl. 312—61.)



1. A cabinet comprising a pair of hingedly connected sections having an opening in the bottom, means interiorly of the sections for holding the sections closed, a chain engaged with said means, a weight element on said chain adapted to project through the opening when the cabinet is empty.

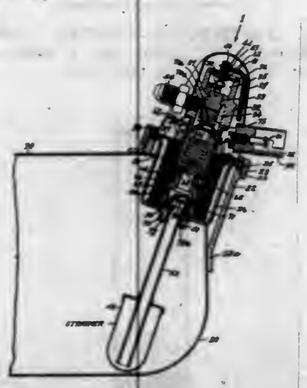
1,661,358. WINDOW-CLEANING DEVICE. GEORGE U. BRAKE, Fort Wayne, Ind. Filed Nov. 16, 1923. Serial No. 675,133. 1 Claim. (Cl. 15—126.)



In a window washing device, an open ended reservoir for washing liquid, a removable cover closing said open end, a bolt within the reservoir and removably supported in the bottom thereof and projecting through the cover, means on the bolt to clamp the cover on the reservoir, an elongated conduit, mounted on the cover, projecting over the edge thereof and communicating therethrough with the interior of the reservoir, the

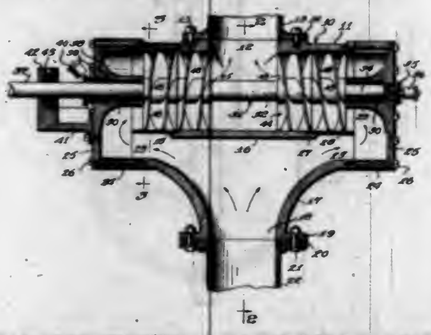
conduit being transverse to the longitudinal axis of the reservoir, and a fibrous brush removably mounted in the conduit and adapted to be moistened throughout its length by the liquid flowing by gravity into the conduit from the reservoir when the device is inclined downwardly.

1,661,359. LIQUID-SUPPLY APPARATUS. WILLIAM A. CHRYST and HERBERT C. WALTERS, Dayton, Ohio, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 28, 1925. Serial No. 33,469. 3 Claims. (Cl. 103—53.)



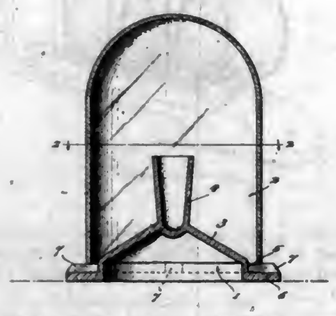
1. A liquid pump comprising, in combination, a nonmagnetizable cylinder, a magnetizable tubular piston slidable within the cylinder, an electromagnet surrounding the cylinder for operating the piston, a tubular duct connected with the cylinder outlet end and aligned with the cylinder and providing a pump outlet, a circuit breaker contact insulatingly supported by and within the tubular duct and in alignment with the piston, a movable contact located between the piston and stationary contact, and a spring located between the piston and movable contact and movable with the piston.

1,661,360. PUMP. RHEUBEN M. CLARK, Joplin, Mo. Filed June 4, 1927. Serial No. 196,565. 6 Claims. (Cl. 103—93.)



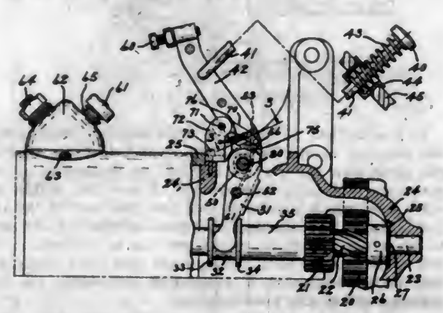
1. A pump comprising a casing including a cylinder having its ends spaced from the adjacent portions of the casing to provide inlet passages through which liquid is adapted to flow into the ends of the cylinder, said casing being provided with an outlet opening communicating with said cylinder centrally thereof, a shaft rotatably mounted in said casing and extending axially through said cylinder, a pumping element mounted on said shaft on each side of said outlet opening and rotatable in said cylinder, means for elongated said casing axially of said shaft to accommodate an additional pumping element adjacent each of said first named pumping elements, and means for elongated said cylinder at opposite ends to receive such additional pumping elements.

1,661,361. COMBINATION GRAVE MARKER AND FLOWER HOLDER. EDWARD H. COOLEY, Point Marion, Pa. Filed Oct. 18, 1926. Serial No. 142,389. 3 Claims. (Cl. 47—41.)



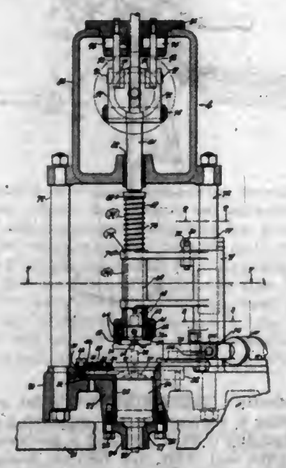
2. A device of the character described comprising a base having an elevated portion and a marginal flange surrounding the elevated portion, spacers projecting upwardly from the marginal flange of said base, a flower holding cup carried by the elevated portion of said base, and a transparent hood enclosing the elevated portion of said base, said hood being open at its bottom and resting upon said spacers with the portions of its lower edge between the spacers held above the flange to provide air passages between the hood and flange.

1,661,362. ENGINE-STARTING APPARATUS. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 11, 1924. Serial No. 725,522. 2 Claims. (Cl. 74—7.)



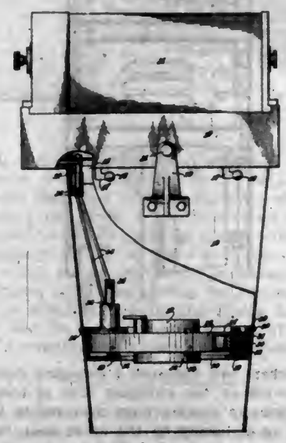
1. Engine starting apparatus comprising, in combination, a pinion adapted to engage and drive an engine gear and to be driven thereby when the engine becomes self-operative; of a motor; a spirally splined shaft operated by the motor and threadedly connected with the pinion whereby, when the engine drives the pinion, the pinion will be automatically demeshed; a lever for shifting the pinion into mesh with the engine gear; a controlling member for rendering the motor operative; a spring connecting said member and said lever whereby the latter is moved by movement of the member, and demeshing of the pinion is permitted regardless of the status of the control member; a device for latching the lever in pinion nonmeshing position if the member is held in operating position when the engine becomes self-operative; and means for unlatching said lever by the return of said member to normal position.

1,661,363. ARMATURE-ASSEMBLING APPARATUS. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 12, 1926. Serial No. 80,760. 14 Claims. (Cl. 29—84.)



1. Armature assembling apparatus comprising, in combination, work holders adapted to hold an armature shaft and a commutator in alignment, power operated means for causing one of the holders to move axially relative to the other, and means for moving one of the holders relative to the other to cause the shaft and commutator to become aligned, and for effecting the operation of the power means after the holders are in alignment.

1,661,364. AERIAL CAMERA. SHERMAN M. FAIRCHILD, New York, N. Y. Filed Mar. 1, 1923. Serial No. 622,034. 9 Claims. (Cl. 95—12.5.)



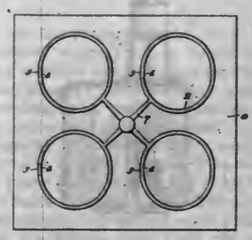
1. In a photographic apparatus, a camera, a detachable lens cone therefor, and means carried by the lens cone for pivotally supporting the camera to permit swinging movement of the latter on an axis having a predetermined position relative to the center of gravity of the apparatus.

1,661,365. PLIERS. NAPOLEON J. GENDRON, Seattle, Wash. Filed Mar. 4, 1926. Serial No. 92,305. 1 Claim. (Cl. 81—5.1.)



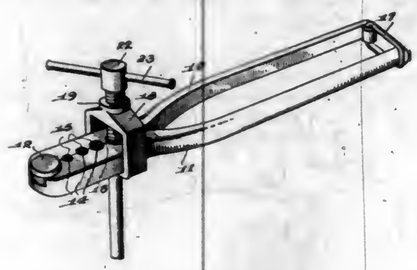
An implement for withdrawing cotter pins comprising interconnected jaws having flat meeting surfaces throughout their full widths, save that said jaws are each formed with a longitudinally arranged recess opening through the free end of the jaw, the recesses being closer to one side of the jaws than to the other, said jaws being further formed with a transverse semicylindrical recess which extends entirely across the jaw and into which the longitudinally ranging recesses merge, the semicylindrical recesses together forming a circular recess to substantially accommodate the head of a cotter pin and permit of access to the head of said cotter pin from opposite sides of the jaws, the disposition of the longitudinal recesses at different distances from the sides of the jaws providing for an increased leverage on the cotter pin as compared with a central disposition of such recesses.

1,661,366. PROCESS OF MAKING PISTON RINGS. HARRY S. GRAVES, Detroit, Mich., assignor to Spiral Piston Ring Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 15, 1924. Serial No. 743,688. 5 Claims. (Cl. 29—156.6.)



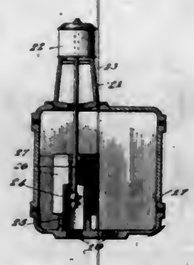
1. A process of making helical piston rings from flat split rings, consisting in assembling a plurality of flat split rings side by side with the split ends of said rings in proximity to one another, subjecting the assembled rings to sidewise pressure to convert each flat ring into a helix, and then heat-treating said helical rings while under pressure to set the helical contour of said rings.

1,661,367. TUBE-FLARING TOOL. BERNARD F. HELMINIAK, Milwaukee, Wis. Filed Sept. 26, 1925. Serial No. 58,792. 3 Claims. (Cl. 153—79.)



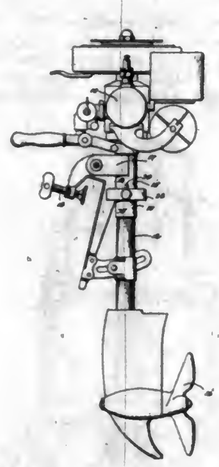
1. A tube flaring tool comprising a pair of levers pivotally connected together at one end thereof, enlarged abutting surfaces provided on said levers, said levers having semicircular grooves provided therein at said abutting surfaces for providing cylindrical openings when said levers are in abutting position, said grooves being beveled outwardly at their upper ends so as to enlarge the same, said grooves being provided for receiving tubes therein of various sizes, means for holding said levers in abutting position, a rectangular frame slidably mounted upon said levers adapted to be moved over the grooves provided in said levers, a bar threaded in said frame, means for rotating said bar for feeding the same towards or away from said cylindrical openings, and a tapered surface formed on the lower end of said bar for engaging into a tube received in a pair of the semi-circular grooves for flaring the end of said tube outwardly in engagement with the outwardly beveled portions of said semicircular grooves.

1,661,368. HOT-WATER HEATING SYSTEM. WILLIAM WALTER HUDSON, Salt Lake City, Utah. Filed Jan. 9, 1926. Serial No. 80,290. 3 Claims. (Cl. 237—63.)



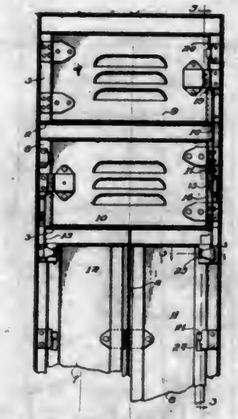
2. A circulation accelerator for hot water heating systems comprising a tank to be interposed between portions of the hot water supply line and effective to act as an expansion tank, a tube positioned within said tank and forming the inlet to the tank from the fluid circulating line, a shaft depending into the tank and axially within said tube, a screw propeller on the lower end of the shaft within the tube, and a series of radial blades carried by the tube and projecting beyond its outlet end to break up and prevent whirling of the water.

1,661,369. SWIVEL MOTOR. FINN T. IRGENS, Jackson, Mich., assignor to Lockwood Ash Motor Company, Jackson, Mich., a Corporation of Michigan. Filed Sept. 20, 1926. Serial No. 136,519. 11 Claims. (Cl. 115—18.)



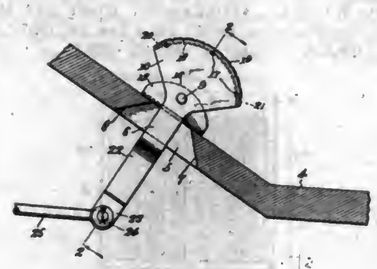
1. A deflection compensating device for outboard motors including a support for the supporting shaft of the motor comprising a fixed part and a movable part which yieldably grips said shaft, and resilient means interposed between said parts to cushion the vibration of the motor.

1,661,370. LOCKER. EVERETT DEE KASER, Aurora, Ill., assignor to Durabilt Steel Locker Co., Aurora, Ill. Filed Mar. 7, 1927. Serial No. 173,561. 5 Claims. (Cl. 312—193.)



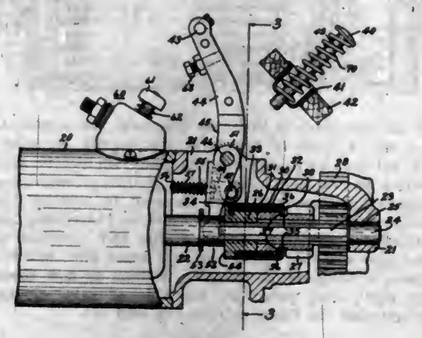
1. In a locker, two superposed swinging doors, a bar movably mounted on the swinging edge of one door for locking the same, a rocking lever mounted in the locker and adapted to be swung by the other door to obstruct the unlocking movement of said bar when both doors are closed and yielding means associated with said lever and bar so that said one door may be closed after said other door has been closed.

1,661,371. ACCELERATOR. SYLVESTER A. KEEFER, Manchester, Ga., assignor of one-third to James A. Johnson and one-third to Clarence N. Wisdom, Manchester, Ga. Filed Jan. 28, 1927. Serial No. 164,252. 2 Claims. (Cl. 74—81.)



1. An improved accelerator comprising in combination with a slotted vehicle floor board, an accelerator pedal composed of side segmental plates and an arcuate foot plate connected therebetween, a bracket plate secured to the floor board having upstanding ears for fitting between and against the central portions of the side segmental plates, a pivot bolt extending through said ears and through the side segmental plates, and a lever arm extending from one of the plates for attachment to the carburetor control and lying through the slot in the floor board.

1,661,372. ENGINE STARTER. FREDERICK C. KROEGER, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 7, 1925. Serial No. 73,939. 2 Claims. (Cl. 74—7.)



1. Engine starting apparatus comprising, in combination, a motor, a shaft operated by the motor, a sleeve driven by the shaft and movable along the shaft, a gear movable along the shaft, a clutch connecting the gear and sleeve and comprising axially aligned friction drums provided respectively by the gear and sleeve, and comprising a coiled spring frictionally engaging and encircling the drums, means for moving the clutch, sleeve and gear endwise along said shaft, and means for enclosing the spring and for preventing separation of the clutch drums while permitting relative rotary movement thereof.

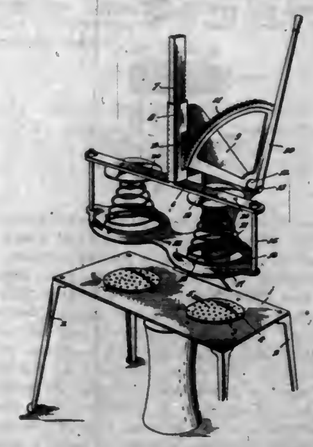
1,661,373. TIRE. ALBERT KUSPER, Dayton, Ohio, assignor of one-half to Walter Stefanowski. Filed Feb. 2, 1927. Serial No. 165,385. 2 Claims. (Cl. 152—8.)

1. A puncture proof tire for motor vehicles comprising a resilient member positioned in a casing and supported by a rim, the said casing removably attached to the said rim, said resilient member provided with notched portions equally spaced on the periphery of the said resilient member, said notched portions each adapted to receive one extremity of coil springs, as a means of holding the said coil springs in a fixed position in the said casing;



a guard member positioned in the said casing outwardly of the said coil springs, said guard member provided with side extended elements formed inwardly therefrom, so as to prevent the said guard member from injuring the said casing.

1,661,374. DEVICE FOR EXPRESSING JUICES FROM FRUITS. JOHN S. LACEY, Columbus, Ohio. Filed Aug. 26, 1926. Serial No. 131,721. 10 Claims. (Cl. 100—42.)



1. In a device for expressing the juice from citrous fruits, a perforated support for a halved fruit, a supporting member movable toward and away from the fruit support and including an upper element, a lower element suspended therefrom and movable relative thereto and constructed to encompass the perforated support, and a compressing member movable with the supporting member and comprising a spiral disposed between and attached to the upper and lower elements of said member and having its coils of successively decreasing diameter whereby to successively engage and exert pressure against the exterior of the halved fruit from the outer to the central portion thereof upon movement of the supporting member toward the fruit support and consequent compression of the said compressing member.

1,661,375. CONDUCTOR CLAMP. EVERETT F. LEIGHTON, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 15, 1926. Serial No. 94,634. 5 Claims. (Cl. 173—259.)

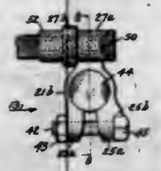
1. The method of making a conductor clamp for storage battery terminals which consists in providing an elongated piece of sheet metal with spaced holes equally

spaced from the shorter end edges of the piece and with annular flanges surrounding the holes and extending from the same side of the piece; in shaping those portions of the piece which extend between the flanges and the end edges so as to form the two half-tubular parts the concave surfaces of which face in the same direction



as the annular flanges; in bending the piece intermediate said holes so as to bring the flanges into opposite and aligned relation, and the half tubular parts opposite each other to form a wire receiving socket; and in splitting the intermediate bent portion through to the aperture surrounded by the flanges.

1,661,376. STORAGE-BATTERY TERMINAL CLAMP. EVERETT F. LEIGHTON, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 7, 1926. Serial No. 114,115. 1 Claim. (Cl. 173—259.)



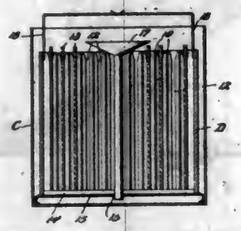
The method of making a storage battery terminal clamp which consists in providing a sheet metal blank including an elongated main portion, a pair of similarly shaped portions extending oppositely from the main portion adjacent one end thereof, a pair of similarly shaped portions extending oppositely from the main portion adjacent the other end thereof, and a pair of similarly shaped portions extending oppositely from the main portion intermediate the ends thereof; in bending said pairs of extensions about lines defining the sides of the main portion and in such a direction that the extensions are located beyond the same side of the main portion; in bending the main portion to form a split ring; in bending the free end of the members of each pair of end extensions toward each other to provide portions for retaining a clamping bolt and for receiving the head of the bolt and a clamping nut, respectively; and in bending the members of the intermediate pair of extensions toward each other and in shaping them for attachment to a conductor.

1,661,377. CORPSE-SUPPORTING REST. ADAM N. LUTZ, Sandusky, Ohio, assignor of one-half to Edward J. Rosino, Sandusky, Ohio. Filed July 9, 1926. Serial No. 121,285. 11 Claims. (Cl. 27—28.)



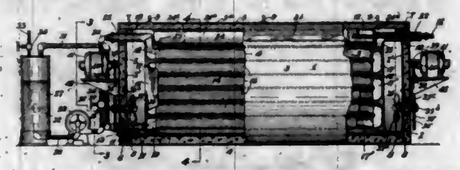
1. In an adjustable rest device such as described, a main base frame, a main adjustable supporting frame carried by the base frame, and another rest frame having side members pivoted within said main adjustable rest frame, the main adjustable rest frame and the rest frame carried thereby being adjustable so that opposite ends thereof will be elevated or lowered by their adjustment, and means to hold the two rest frames in adjusted positions.

1,661,378. PHOTOGRAPHIC DEVELOPING, FIXING, AND WASHING APPARATUS. HARRY REX MCKELLAR, San Francisco, Calif. Filed Jan. 14, 1927. Serial No. 161,183. 3 Claims. (Cl. 95—100.)



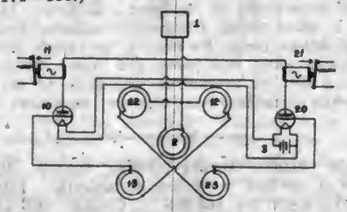
1. In photographic apparatus of the kind described, a film or plate holder consisting of a rectangular frame open at the top and bottom and having flanges projecting inwardly from its lower side edges, the inner side walls of the carrier being formed with spaced vertical grooves, septa in said grooves dividing the carrier into a plurality of compartments, the inner side walls of the carrier being also formed with vertical grooves for the reception of plates or films between the first mentioned grooves.

1,661,379. LIQUID-TREATING APPARATUS. HARVEY H. MILLER, Canton, Ohio, assignor to The H. H. Miller Industries Company, Canton, Ohio, a Corporation of Ohio. Filed June 28, 1923. Serial No. 648,334. 6 Claims. (Cl. 257—85.)



3. In apparatus of the class described, the combination of a vat, a treating apparatus stationarily mounted in said vat and extending longitudinally thereof in spaced relation to its side walls, said apparatus comprising a plurality of connected pipes disposed in vertical alignment, a supply means disposed above and extending longitudinally of said treating apparatus and provided with means for spraying liquid onto the upper pipe, means for causing a temperature changing medium to flow through said pipes, and means at one side of said apparatus for agitating the liquor delivered to said vat.

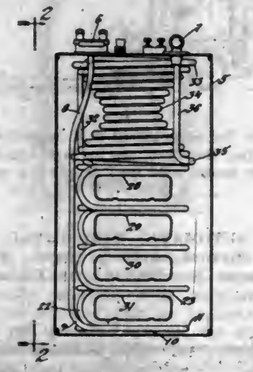
1,661,380. VARIOCOUPLER. EDMUND R. MORTON, New York, N. Y., assignor to Fairchild Aerial Camera Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1923. Serial No. 622,035. 7 Claims. (Cl. 171—119.)



1. A vario-coupler comprising a plurality of secondary coils spaced transversely and connected to form a plurality of secondary circuits, and a primary coil spaced

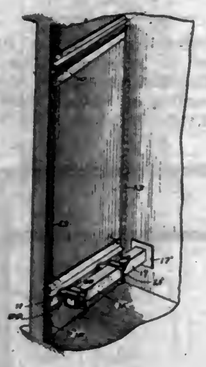
axially from the secondary coils and movable transversely to the secondary coils to vary the distance between its axis and that of each of the secondary coils.

1,661,381. REFRIGERATION. OWEN F. NELSON, Detroit, Mich., assignor to Copeland Products Inc., Detroit, Mich., a Corporation of Michigan. Filed Jan. 28, 1926. Serial No. 84,478. 4 Claims. (Cl. 62—95.)



1. A refrigerating brine tank having ice tray sections therein, piping in said tank having an intake and outlet connection extending through the tank wall, said piping being extended from the intake to form coils directly under and over said tray sections and then to form coils removed from the tray sections.

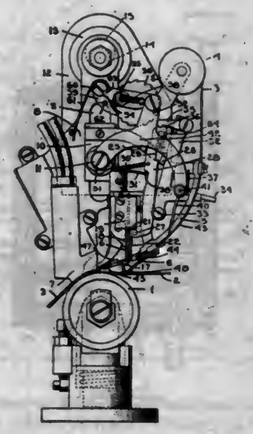
1,661,382. BEAD HOLDER. WAYNE I. NOBLE, Chicago, Ill. Filed Oct. 5, 1925. Serial No. 60,557. 4 Claims. (Cl. 72—128.)



4. A bead or molding positioning device comprising an extensible post having ends adapted to abut against and frictionally engage the walls of a room, yielding means formed and arranged to urge endwise extension of said posts and a series of work-holding clamps slidably adjustable on said post.

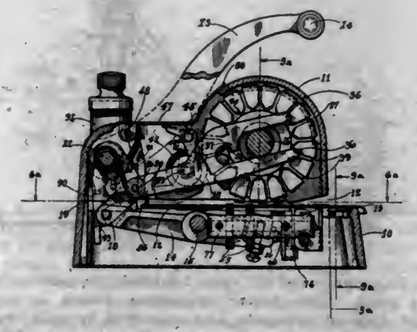
1,661,383. TAPING MACHINE. WALTER P. OSGOOD, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a Corporation of Massachusetts. Filed May 26, 1924. Serial No. 716,042. 13 Claims. (Cl. 154—42.)

1. In a taping machine, the combination with means for progressively applying tape to the work, of means operable at the will of the operator but actuated by the tape-applying means to sever the tape, normally inactive tape-feeding means, means to actuate the tape-feeding



means by the tape-applying means, and means to control the time of operation of the tape-feeding means by the tape-severing means.

1,661,384. CHECKWRITER. WALTER B. PAYNE, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Feb. 9, 1925. Serial No. 7,872. 14 Claims. (Cl. 197—6.4.)

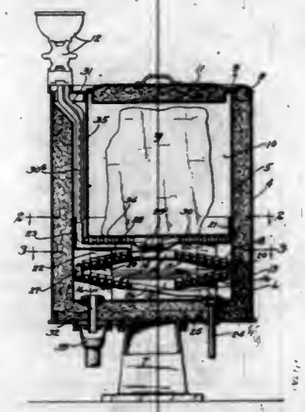


1. In a printing apparatus, a type carrier, a shaft on which said carrier is rotarily supported for bringing a plurality of type forms thereon selectively to printing position, a platen for cooperation with the selected forms, actuating means comprising toggle members for effecting a relative impressing movement of the carrier and platen, and centering means supported and guided by the carrier shaft and having a connection with said toggle members for actuating said means to center the carrier in selected position.

1,661,385. WATER-COOLING DEVICE. MERTON A. POCOCK, Minneapolis, Minn., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Mar. 4, 1927. Serial No. 172,643. 4 Claims. (Cl. 62—141.)

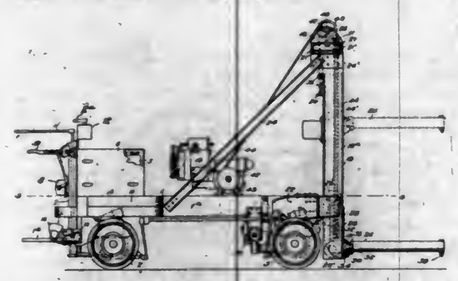
1. The combination with a refrigerator and a drinking fountain, of a plurality of superimposed pans within said refrigerator, a waste water conduit extended from said drinking fountain and delivering into one of said pans,

and a drinking water supply pipe extended to said drinking fountain and having coils located in the several pans and subject to exchange of temperature with the waste



water discharged through said pans, certain of said pans having spiral channels in which the coils of said drinking water supply pipe are placed.

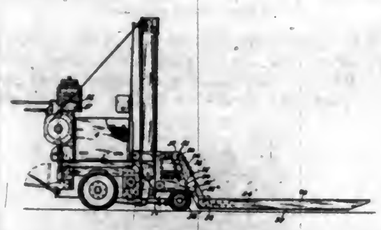
1,661,386. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1923, Serial No. 636,638. Renewed May 31, 1927. 8 Claims. (Cl. 214—65.)



1. In apparatus of the class described, the combination of a truck frame having supporting wheels, a guide frame disposed vertically and supported by said truck frame at one end thereof and extending above and below said frame, a member movable upwardly and downwardly in said guide frame, means carried by said truck frame and connected with said movable member for moving it, and an element trunnioned at its inner end on said movable member and extending horizontally therefrom for engagement with the lateral surfaces of a body by a thrust movement, whereby the latter may be lifted, said element engaging said movable member at a point remote from the axis of its trunnions to maintain said element against movement downwardly.

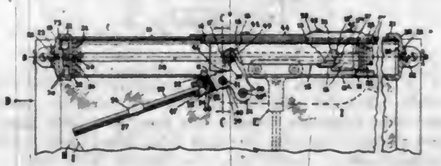
1,661,387. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 23, 1925. Serial No. 77,352. 10 Claims. (Cl. 187—11.)

8. In apparatus of the class described, the combination of a wheel mounted frame, a pair of guides thereon, a shoe slidably supported on said guides and having a pair of outwardly extending spaced supports formed with pairs of aligned openings, a load supporting member having a pair of arms formed with openings arranged to



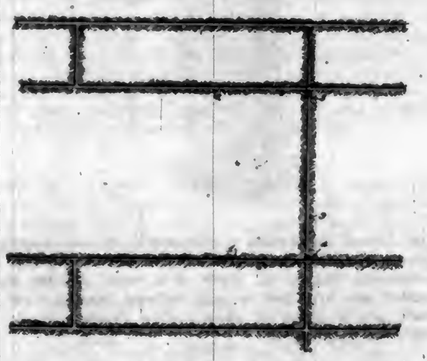
register with the openings in said supports, and pins removably fitting the openings in said supports and arms to removably mount said load supporting member on said shoe.

1,661,388. AUTOMATIC WINDSHIELD WIPER. EDMUND O. SATHER, Alameda, Calif. Filed July 14, 1927. Serial No. 205,740. 10 Claims. (Cl. 15—253.)



10. In a windshield wiper, a guideway, a wiper mounted on said guideway for reciprocation across the windshield in a longitudinal path, means for reciprocating said wiper, and means in the path of the wiper for engaging the same to swing it in an arc at the end of its longitudinal movement.

1,661,389. METHOD OF MINING OIL AND THE LIKE. EWART G. SINCLAIR, Maracaibo, Venezuela, assignor to The Midwest Refining Company, Denver, Colo., a Corporation of Maine. Filed Oct. 16, 1926. Serial No. 142,113. 6 Claims. (Cl. 262—1.)



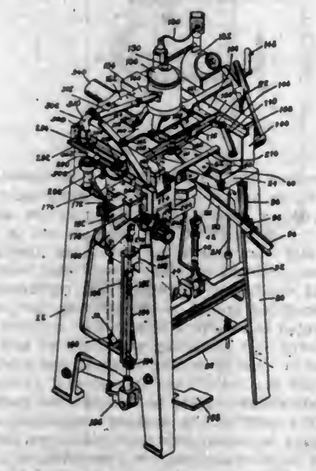
1. The method of extracting oil from formations intersected by spaced galleries and connected across cuts, which comprises sealing the cross cuts on each side of a given section of the formation against ingress of fluids, and inducing a fluid pressure in one gallery sufficient to cause a flow of the fluid pressure medium through the formation between the galleries, whereby the oil will be carried by said medium into the adjacent gallery.

1,661,390. METHOD AND MEANS FOR MINING OIL SANDS. EWART G. SINCLAIR, Maracaibo, Venezuela, assignor to The Midwest Refining Company, Denver, Colo., a Corporation of Maine. Filed Oct. 16, 1926. Serial No. 142,114. 4 Claims. (Cl. 262—1.)



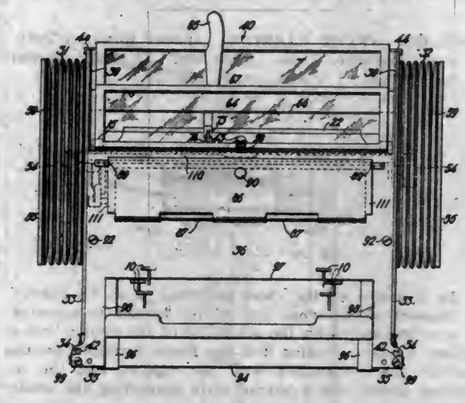
1. The method of mining oil sands which comprises sinking a shaft to the sand, driving a tunnel into the sand in successive sections with connecting lateral gutters, lining the sections with an impervious sheathing offset from the lower portions of the side walls to form oil and gas chambers above the gutters, and exhausting the gas from said chambers.

1,661,391. HEEL-SEAT FITTING MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 18, 1924, Serial No. 738,449, and in Great Britain May 16, 1924. 51 Claims. (Cl. 12—17.)



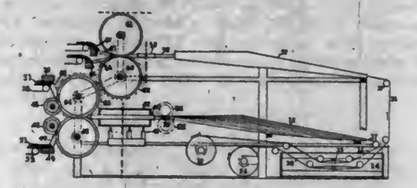
1. A heel seat fitting machine provided with a shoe support and a cutter arranged to trim surplus material from the entire periphery of the heel seat of a shoe carried on said support, said support and cutter being mounted to permit relative movement of the shoe and the cutter during the trimming operation in a path corresponding to the contour of the heel seat of a shoe, means for controlling the relative movement of the shoe and the cutter, a graduated dial, and means connecting said dial to said controlling means to vary the contour of the path of relative movement of the shoe and the cutter in accordance with the setting of the dial.

1,661,392. TYPEWRITER CABINET. BURNHAM C. STICKNEY, Elizabeth, N. J. Filed May 14, 1920. Serial No. 381,259. 48 Claims. (Cl. 197—186.)



1. A casing for a typewriting machine having keys, a frame and a platen-carriage traveling on the frame, said casing comprising a body embracing said frame and from which the keys project, said body having open ends through which the carriage may project as it travels beyond the frame, and chambers into which the carriage may run, said chambers extending laterally from said ends and being collapsible.

1,661,393. PAPER CORRUGATING AND CRINKLING. BURNHAM C. STICKNEY, Elizabeth, N. J. Filed Jan. 6, 1921. Serial No. 435,334. 17 Claims. (Cl. 154—30.)



1. An element for use in gathering a web into flutes or longitudinal corrugations, comprising a three-sided plate or frame having its base at the receiving end of the former, and having two convergent sides, a central rib into which the frame merges at its apex and over which the web folds along its median line, ripples disposed alongside of the converging edges of the frame and extending in the same direction, whereby the entire web is brought to a fluted condition, continuations of said lateral ripples, said continuations extending along each side of said central rib, to gradually bring the flutings of the web to the desired configuration, and means cooperative with said element for gathering the web longitudinally thereon.

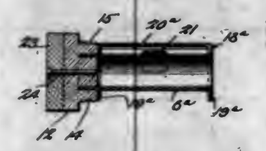
1,661,394. STAMP HOLDER. ALBERT ROMAINE TALLMAN, Nashville, Tenn. Filed Aug. 20, 1925. Serial No. 51,415. 2 Claims. (Cl. 206—39.)



2. A device of the class described, comprising a support, a stamp carrier projecting from the support, and a movable stamp retainer disposed about the carrier,

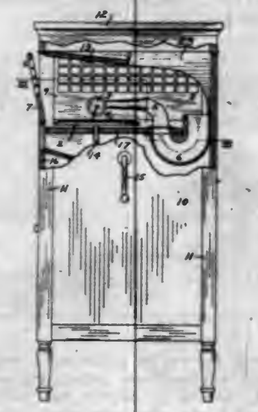
the length of the carrier being such that the retainer may be slid, toward the support, off a roll of stamps on the carrier.

1,661,395. STAMP CARRIER. ALBERT ROMAINE TALLMAN, Nashville, Tenn. Filed Aug. 22, 1925. Serial No. 51,786. 1 Claim. (Cl. 206—39.)



In a device of the class described, a stamp carrier, a support whereon one end of the carrier is mounted, a retaining means on the other end of the carrier, and a stamp winder including disk-like heads journaled on the carrier and cooperating with the support and the retaining means, and a narrow strip connecting the heads.

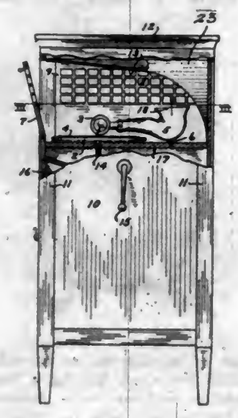
1,661,396. SOUND-REPRODUCING MACHINE. WILLIAM H. THOMMEN, Plymouth, Wis. Filed Sept. 27, 1920. Serial No. 413,111. 4 Claims. (Cl. 274—2.)



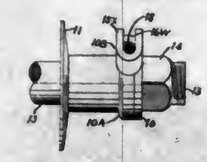
1. In combination, means for producing sound waves, a tone arm for conducting sound waves rearwardly away from said means and for initially amplifying said waves, means forming an initial amplifying chamber communicating with said tone arm, and means forming a single final amplifying and distributing chamber communicating directly with the delivery end of said initial amplifying chamber, said final amplifying chamber being open at the front and both sides and being bounded at the top and rear by a forwardly and two laterally and upwardly inclined intersecting surfaces for conducting sound waves delivered from said tone arm and from said initial amplifying chamber in forward and lateral directions.

1,661,397. SOUND-REPRODUCING MACHINE. WILLIAM H. THOMMEN, Plymouth, Wis. Filed Dec. 9, 1920. Serial No. 429,323. 3 Claims. (Cl. 274—2.)

1. In combination, means for producing sound waves, a movable tone arm having an upwardly directed open trumpet shaped rear delivery end, and means forming a single final amplifying and distributing chamber communicating directly with the delivery end of said tone arm, said chamber being open at the front and both sides and the top and rear of said chamber being bounded by a forwardly and two laterally and upwardly inclined intersecting surfaces for conducting sound waves delivered from said tone arm in forward and lateral directions.



1,661,398. CABLE-SUPPORT BRACKET. ADOLPH J. TSCHIDA and THEODORE T. TSCHIDA, St. Paul, Minn. Filed Mar. 11, 1927. Serial No. 174,442. 1 Claim. (Cl. 248—31.)



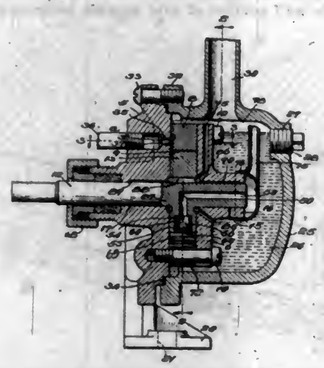
A cable hanger bracket comprising a horizontal bushing with a flange at one end and an enlargement at its other end with an open cable receiving groove arranged transversely of the bore of said bushing and in spaced relation to said bore and a cap having an aperture for alinement concentrically with the bore of said bushing, an offset in said cap having a grooved part registering with said cable receiving groove in the bushing, said bushing and cap adapted to receive a bolt or like securing means with a threaded part projecting outwardly of said cap, a nut threaded on said projecting bolt end and adapted to clamp the said cap toward the face of said bushing and simultaneously clamp a cable in said grooved parts, said cable receiving part of the bushing comprising an upwardly opening U-shaped two part projection above the bore of said bushing and said cap provided with an inwardly directed wing jaw adapted to be pressed inwardly between the two parts of said U-shaped projection to clamp the cable

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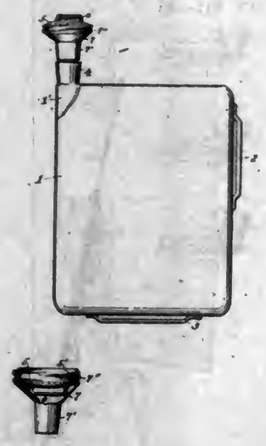
1,661,399. FLUID COMPRESSOR. WILLIAM WISHART, Clinton, Iowa, assignor to National Refrigeration Corporation, Beloit, Wis., a Corporation of Delaware. Filed Jan. 14, 1926. Serial No. 81,177. 6 Claims. (Cl. 230—154.)

1. In a compressor, the combination of a pair of relatively movable members spaced peripherally to define a compression chamber and engaging peripherally to form one end of said chamber, and a piston member carried

by one of said first members and movable with said member past the engagement of said member from one side of said engagement to the other continuously in the operation of the compressor, one of said members being positively adjustable to vary the point of engagement therebetween.



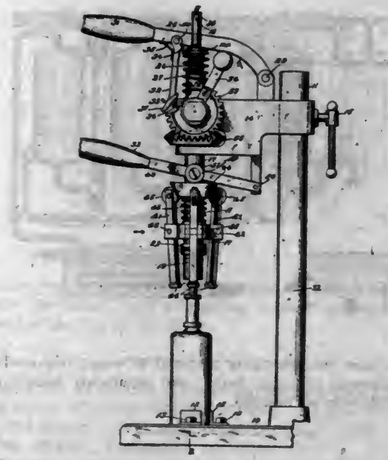
1,661,400. WATER BAG. WILLIAM E. YEHLE, New York, N. Y. Filed July 15, 1926. Serial No. 122,534. 2 Claims. (Cl. 299—102.)



1. In a watering device, a convertible sprinkler head and combined funnel and strainer comprising a perforated section having a single externally threaded cylindrical flange, and a funnel-shaped body section having an internally threaded cylindrical flange on its larger end adapted to removably reversibly receive the threaded flange of the perforated section.

2. The combination with a receptacle having a single filling and pouring mouth, of a convertible sprinkler head and combined funnel and strainer adapted to be removably applied to the filling and pouring mouth of said receptacle, said convertible sprinkler head and combined funnel and strainer embodying a funnel member having a cylindrical flange on its larger end, and a rose having a single cylindrical flange removably secured in the larger end of said funnel member and invertible therein to have its perforated wall positioned within said larger end of the funnel member to act as a strainer for the latter.

1,661,401. BOTTLE-CAPPING MACHINE. LEONARD A. ARNSTEIN, New York, N. Y. Filed Apr. 23, 1923. Serial No. 633,875. 16 Claims. (Cl. 226—87.)



1. A machine of the character described comprising a base for a bottle or other container, a support, a plunger slidably mounted on said support, manually operable means for actuating said plunger to engage said bottle, yielding means interposed between said actuating means and said plunger for maintaining said plunger in engagement with the bottle under spring pressure, means for retaining said actuating means in depressed position, a cap-forming device rotatably mounted on said plunger, a manually operable lever controlling the position of said cap-forming device, and means for rotating said device whereby to secure a cap to said bottle or container, substantially as specified.

1,661,402. WRENCH. JAMES F. ASTLEY, Camden, N. J. Filed Apr. 1, 1925. Serial No. 19,942. 1 Claim. (Cl. 81—72.)

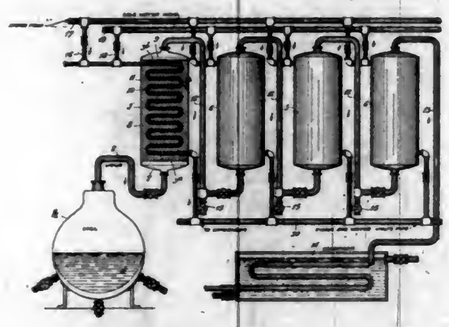


A pipe wrench including a body portion having a reduced end portion defining a shoulder at one end of the reduced end portion, said shoulder having an opening, said reduced end portion being cut away, a gripping member having an end disposed in the opening of the shoulder and having lateral wings formed with curved outer surfaces to rock in the cut away portion of the reduced end, said wings having substantially sharp lateral edges, said gripping member having a reduced outer end, and a collar positioned over the outer extremity of the reduced end portion, and over the reduced end of the outer gripping member to removably secure the gripping member to the body portion.

1,661,403. PROCESS OF SEPARATING LIQUIDS. OSCAR L. BARNEBEY, Cleveland, Ohio, assignor to American Solvent Recovery Corporation, a Corporation of Ohio. Filed Sept. 9, 1920. Serial No. 409,065. 9 Claims. (Cl. 196—94.)

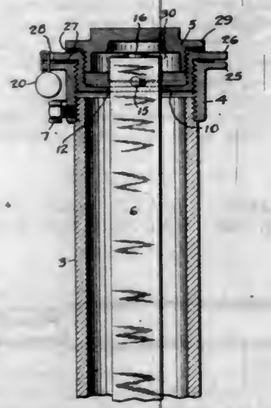
1. The process of separating the constituents of liquid mixtures which consists in adsorbing the mixture in solid

adsorbing material, meanwhile substantially excluding diluent gases; progressively evaporating the adsorbed con-



stituents from the adsorbing material to separately evolve the constituents in vapor form; and separately collecting the constituents so evolved.

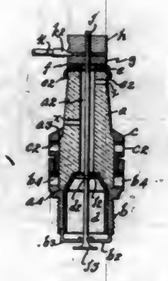
1,661,404. TANK-SEALING MEANS. CHARLES FREDERICK BERTSCHINGER, Jamaica, N. Y., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Sept. 29, 1926. Serial No. 138,362. 10 Claims. (Cl. 220—86.)



6. Means of the character described comprising a fitting applicable to an entrance of a tank, a removable bushing screwed into said fitting and provided with an aperture, a gauge rod occupying said aperture and liftable therethrough but prevented from removal therefrom, flanges on said fitting and bushing providing means for the passage of a sealing element, and a closure plug screwed into said bushing and provided with a flange, packing means interposed between the fitting and bushing and another packing means interposed between the bushing and the flange of the closure plug.

1,661,405. SPARK PLUG. AMEL B. BEOLUSKA, Detroit, Mich. Filed Jan. 17, 1925. Serial No. 3,017. 7 Claims. (Cl. 123—169.)

7. In a spark plug structure, the combination of an insulating body *a*, having a cavity at its lower end, a sleeve of conducting material engaging at its upper end around the lower end of said body and extending below said end, and a thimble of thin insulating material fitting against the inner wall of said sleeve and against the wall of said cavity at the upper closed end of said thimble, the lower or side wall portion of said thimble being in contact



with said sleeve to which it can lose heat rapidly, and the upper part of said thimble in contact with said insulating body to which the thimble will lose heat very slowly and therefore have a high temperature for the insulating material has a low rate of heat conductivity, the lower end of said thimble being open to the combustion chamber.

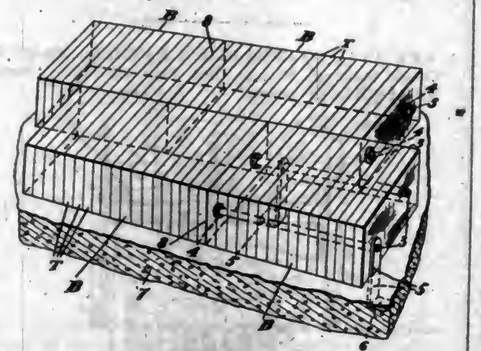
1,661,406. DISPLAY RACK. JAMES H. BURDETT, Homewood, Ill. Filed Nov. 21, 1924. Serial No. 751,321. 2 Claims. (Cl. 211—45.)



1. A display device for seed packets, comprising a board having a plurality of openings extending therethrough, a flexible strip secured to the top and bottom edges of each of said openings to form pockets, the length of each of said strips being such as to cause the bottom portions of the said pockets to fall a substantial distance below the bottom portions of said openings.

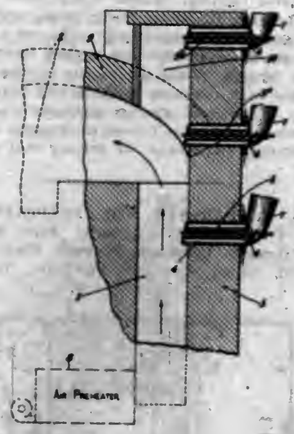
1,661,407. PAVING BLOCK. ALTON WEBSTER BUTLER, West Bridgewater, Mass. Filed Mar. 9, 1925. Serial No. 14,117. 2 Claims. (Cl. 94—12.)

1. A pavement consisting of a plurality of paving blocks, each having a contour permitting it to be laid in close juxtaposition to other similar blocks, each block consisting of a plurality of relatively short laminæ of rubber and fabric assembled face to face in vertical edgewise relation and compressed to form a block of uniform dimen-



sions presenting a substantially continuous resilient, nonskid and noiseless tread surface composed entirely of the exposed upper edges of the rubber and fabric laminæ.

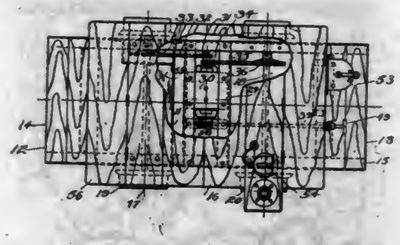
1,661,408. METHOD OF BURNING POWDERED COAL. WILLIAM B. CHAPMAN, New York, N. Y., assignor to Chapman Engineering Company, Mount Vernon, Ohio, a Corporation of Ohio. Filed July 21, 1921. Serial No. 486,353. 4 Claims. (Cl. 110—28.)



1. The method of burning powdered coal, which consists in forming outside of the combustion chamber proper an upwardly directed confined column of preheated air of restricted area moving with sufficient velocity to support substantially all the fuel particles, feeding powdered coal into such column and igniting the fuel therein, whereby the said column will arrest the fall of substantially all the fuel particles and prevent them from escaping without being ignited, and then passing the kindled fuel and air into the combustion chamber proper.

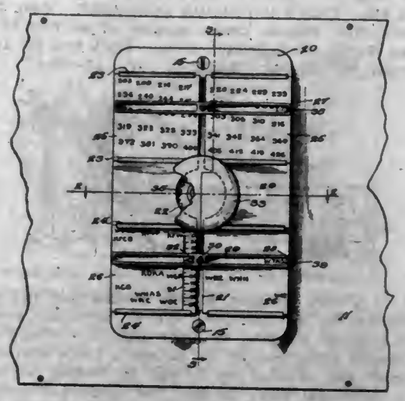
1,661,409. MOTOR CAR. JOHN L. CONNORS, Chicago, Ill., assignor to Morgan-Gardner Electric Company, Harvey, Ill. Filed Mar. 14, 1927. Serial No. 175,237. 6 Claims. (Cl. 105—102.)

1. An electric motor car comprising a frame having the main longitudinal and transverse members formed of sheet steel, two pairs of wheels and axles adjustably secured directly to the frame, a motor mounted on the



frame, means for driving both pairs of wheels and axles from the motor, and a covering formed of wood or the like for the top of the frame.

1,661,410. LOGGING AND INDICATING DEVICE FOR RADIO TUNING INSTRUMENTS. JAMES P. COUGHLIN, Kansas City, Mo. Filed July 10, 1925. Serial No. 42,796. 2 Claims. (Cl. 116—124.)



2. Logging and indicating means for radio receivers, the same comprising a panel mount including a base plate formed with a longitudinal slot, a slide member movable in said slot and provided at its ends with lugs, a cover plate attached to the base plate and formed with a slot to receive the lugs of the slide member, and provided with independent groups of indicating means designating wave lengths and stations, respectively, a finder for each group of indicating means connected to a lug of the slide member and overlying the cover plate, and a rotary tuning element passing through the slide member and the base and cover plates and geared to said slide member.

1,661,411. BABY WALKER. POWEL CROSLEY, Jr., Cincinnati, Ohio, assignor to The Frank F. Taylor Co., Norwood, Ohio, a Corporation of Ohio. Filed Nov. 20, 1922. Serial No. 602,241. 4 Claims. (Cl. 155—22.)

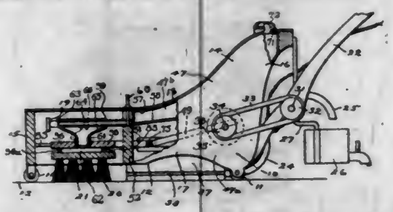
1. In a baby-walker, a seat structure, wheels on the rear of said structure, lateral casters on the front part of said structure, said casters being removable from said structure, and said structure having means to receive a substitute front rolling support, and means detachably

connected with said structure to confine and support the body of a child upright thereon when astraddle of said structure, said lateral casters serving to prevent lateral



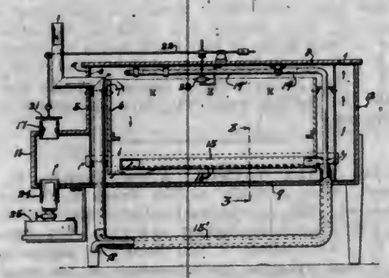
or forward diagonal tipping of said structure with the child supported as aforesaid, while permitting variable curvilinear travel of the structure.

1,661,412. ELECTRIC FLOOR SCRUBBER. CARL DEPTULA, New Britain, Conn., assignor of one-half to Albert Tereba, New Britain, Conn. Filed July 28, 1924. Serial No. 728,634. 5 Claims. (Cl. 15—50.)



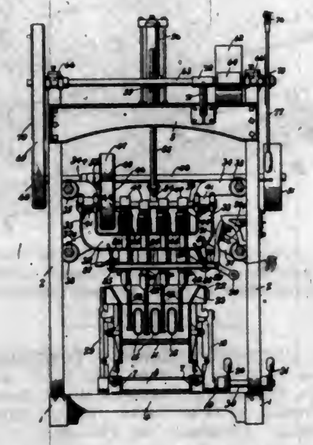
1. In a floor scrubber, a body divided into two compartments by a transverse vertical partition provided with openings adjacent its lower edge, one of said compartments being open at the bottom, a frame supporting a brush and mounted for to and fro sliding movement in a horizontal plane in said last mentioned compartment, a motor housed in the other of said compartments, said frame having extensions projecting through the openings in said partition, and driving connections intermediate said motor and extensions.

1,661,413. INCUBATOR. LOUIS DE VRIES, Chicago, Ill. Filed Sept. 13, 1926. Serial No. 135,024. 3 Claims. (Cl. 119—40.)



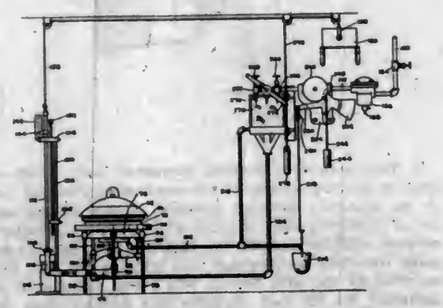
1. An incubator comprising a chamber with double walls forming hot air spaces around said chamber, a heating chamber at each end of said incubator, at the outside of the double walls, and heat transferring conduits connecting said heating chambers and extending through said hot air spaces.

1,661,414. CEMENT-BLOCK RAMMER. HARRY E. DUNN, Holland, Mich. Filed July 12, 1926. Serial No. 121,754. 14 Claims. (Cl. 25—41.)



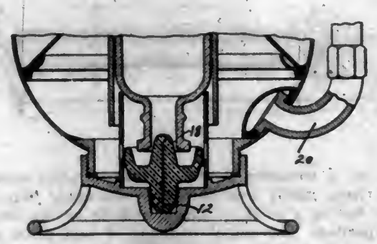
1. In a machine of the class described, a supporting frame having vertical spaced apart ends, a carriage mounted between the ends of said frame and adapted to move up and down thereon, a plurality of ramming elements mounted on said carriage, a shaft rotatably mounted on the carriage having a plurality of eccentrics thereon, one for each ramming member and bearing against the upper end thereof, springs normally tending to lift the ramming members and force their upper ends against said eccentrics, and means for driving said shaft.

1,661,415. APPARATUS FOR SUPPLYING LIQUID FUEL TO HEATING PLANTS. JOHN E. ERICKSON and WALTER F. ERICKSON, St. Paul, Minn. Filed Aug. 17, 1925. Serial No. 50,866. 1 Claim. (Cl. 158—36.)



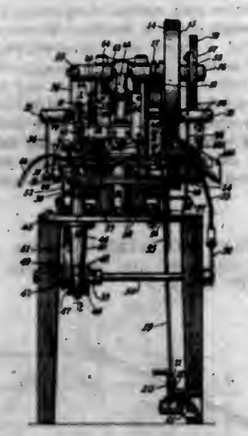
1. Apparatus for supplying liquid fuel to the heating plants comprising a burner, a pipe system connecting said burner with the source of supply, a receptacle included in said pipe system, two hand operated valves which cause the liquid fuel to pass into said receptacle in drops, and an automatically controlled valve which causes the liquid fuel to pass into said receptacle in variable quantity according to the amount of heat delivered by said burner.

1,661,416. STOPPER FOR ACID BOTTLES AND PROCESS FOR MAKING THE SAME. DANA ESTES, Brookline, Mass. Filed Jan. 24, 1925. Serial No. 4,534. 3 Claims. (Cl. 215—48.)



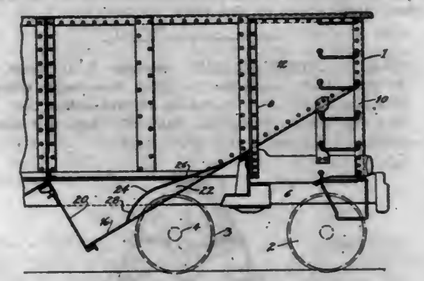
1. The combination, with an invertible fire extinguisher having an acid bottle, of a loose stopper for the bottle, subject to concussion within the extinguisher when the extinguisher is inverted and means to maintain the material thereof in stopper formation notwithstanding its fracture; said stopper comprising a body of vitrified earthly material; and said means comprising a rod, made of metal whose coefficient of expansion is close to that of said earthly material, penetrating said material and arranged in intimate clinging contact therewith, whereby fracture of the stopper is resisted, and there is a tendency of the fragments, if fracture occurs, to be held in the stopper formation by the said rod.

1,661,417. APPARATUS FOR MOUNTING INSERTS IN AND DRILLING BATTERY-JAR VENT CAPS. BENJAMIN A. EVANS and WILLIAM H. SLABAUGH, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 7, 1927. Serial No. 203,993. 10 Claims. (Cl. 29—38.)



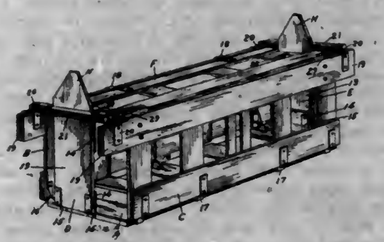
1. Apparatus of the character described comprising means for propelling a succession of vent-caps past a drilling position and a baffle-mounting position, means timed with the propelling means for drilling vent-apertures in the successive caps at the drilling position and means timed with the propelling means for mounting baffle members in the successive caps at the baffle-mounting position.

1,661,418. HOPPER CAR. IRA EVERETT, Allentown, and WILLIAM I. CANTLEY, Bethlehem, Pa. Filed June 6, 1927. Serial No. 196,826. 5 Claims. (Cl. 105—249.)



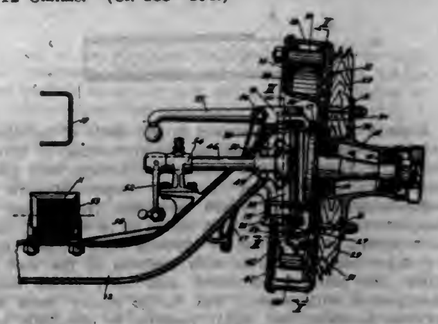
1. In a hopper car, an end slope sheet having a wheel hood therein, said hood being of greater length than the wheel diameter and having its greatest height above the slope sheet adjacent its lower end.

1,661,419. COLLAPSIBLE CRATE. CORNELL FLAGSTAD, Minneapolis, Minn., assignor of ninety-five one-hundredths to The Folding Crate & Box Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 12, 1926. Serial No. 115,638. 1 Claim. (Cl. 217—47.)



A collapsible crate comprising a base, having side and end sections hinged thereto, and a cover hinged to one of the side sections, a latch member carried by the other side section to receive a latch bolt carried by the cover, the construction of said latch member and bolt being such that they may be interlocked both when the crate is set up and when collapsed, and a catch carried by the cover near its hinged edge for interlocking engagement with an adjacent crate portion when the crate is collapsed.

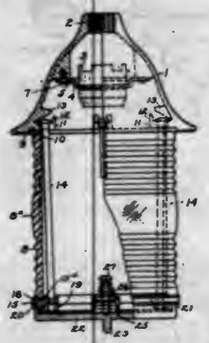
1,661,420. BRAKE MECHANISM. HOWARD A. FLOGAUS, Toledo, Ohio. Filed Jan. 2, 1924. Serial No. 683,989. 12 Claims. (Cl. 188—194.)



3. In a motor vehicle, the combination with a wheel and axle and a spindle and steering knuckle connecting

the same, of a brake for the wheel, an operating plunger therefor extending into the knuckle and having teeth formed thereon between the ends of the knuckle, and a member operatively engaging the teeth of the plunger to effect application of the brake.

1,661,421. SIGNAL LAMP. ROBERT J. GASKILL, Fort Wayne, Ind., assignor to The Gamewell Company, Newton, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1924, Serial No. 750,037. Renewed Jan. 12, 1928. 5 Claims. (Cl. 240—11.)



1. A signal lamp comprising a hollow canopy, a bottom member, a cylindrical lens between the canopy and the bottom member, a plurality of bifurcated lugs radiating from the inner wall of the canopy, the said inner wall adjacent the upper side of the slotted lugs being inclined upwardly and inwardly, an extension at the outer end of each bifurcation which projects toward the said inclined wall but is spaced therefrom, a plurality of bolts adapted to be inserted into the slots of the lugs respectively to cause their heads to engage the top side of the lugs upon opposite sides of the slots therein, the spacing between the inclined wall of the canopy and the upper ends of each pair of said extensions being such that the head of the bolt will pass through the same only when the bolt is inclined, the said wall also preventing vertical movement of the bolts when they are suspended on the lugs, the said bolts being extended through the interior of the lens and through the base, and means on the bolts to clamp the canopy and the bottom member upon opposite ends of the lens.

1,661,422. PLATE FOR DEADENING VIBRATION AND SOUND. WERNER GENEST, Berlin-Lichterfelde, Germany, assignor to The Korfund Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 25, 1925. Serial No. 71,402, and in Germany Nov. 27, 1924. 1 Claim. (Cl. 154—44.)



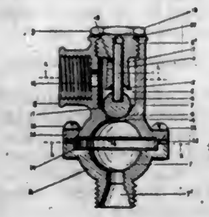
A plate capable of insertion in the walls of buildings and like structures for use in the preventing of transmission of vibrations and sound therethrough, said plate including a central layer of firmly compressed cork of sufficient elasticity to absorb vibrations transmitted to the plate through the wall in which it is mounted, and outer layers of cardboard on opposite sides of said central layer and engageable with surfaces of the wall in which said plate is embedded, said outer layers being impregnated with asphalt and tar to render them impervious to water and highly resistive to chemicals and said outer layers being capable of absorbing sound vibrations transmitted to said plate through the atmosphere.

1,661,423. ENVELOPE OPENER. CHARLES C. GRUHLER, Fort Thomas, Ky. Filed Jan. 24, 1927. Serial No. 163,100. 3 Claims. (Cl. 164—44.)



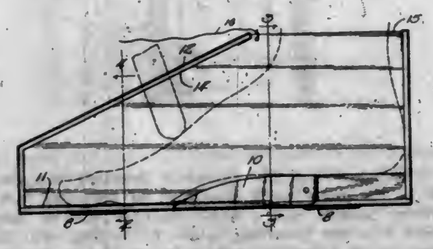
1. In a trimming device, a base, a plate secured to and rising rigidly from said base, the upper edge of said plate having a notch, a trimming knife having one of its end portions disposed at one side of said plate, a pivot for said knife connecting it with said plate, and a lug rigid with said knife and projecting laterally therefrom through the aforesaid notch, said lug being co-operable with an end of said notch to limit the movement of the knife.

1,661,424. CHECK VALVE AND SCREEN. HERMAN E. HEINE, Milwaukee, Wis., assignor to Bradley Wash-Fountain Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 11, 1925. Serial No. 43,007. 3 Claims. (Cl. 251—121.)



1. A check valve and screen, comprising a casing having a valve chamber and a recessed screen chamber and openings thereto, a valve seat between the two chambers, a guide member extending downwardly into the valve chamber below the outlet opening and having a bore in line with the valve seat, a screen extending across the screen chamber and within the recessed portion thereof, and a valve of spherical shape engaging the valve seat and having a vertically extending stem portion which reciprocally extends into the bore of the guide.

1,661,425. MEANS FOR MAKING CASTS. EZRA HESS, Chicago, Ill. Filed Mar. 14, 1927. Serial No. 175,274. 7 Claims. (Cl. 18—34.)



1. A flask for making molds of feet or the like comprising a box formed of suitable material and conforming generally to the form of the foot and having an opening

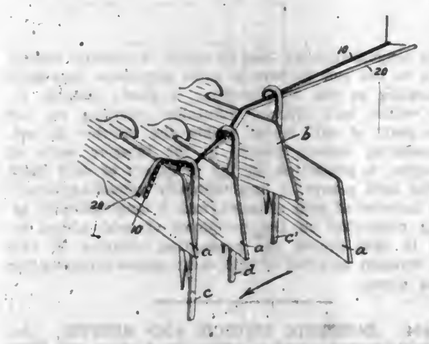
for inserting the foot, said box being formed in two parts which are hinged together and united on a substantially median plane and having frangible means for temporarily holding the free edges together when the cast is to be made.

1,661,426. CORE DRILL. CARL J. HILLMAN, Houston, Tex. Filed Apr. 29, 1926. Serial No. 105,347. 6 Claims. (Cl. 255—72.)



1. A reciprocating core drill comprising a hollow drill body having longitudinally extending slots therein, a hollow cutter head mounted on the lower end of said body, a core receiving tube mounted in said body to reciprocate therein, a circular cutter on the lower end of said tube, a plug on the upper end of said tube, a pin on said plug extending into the slot in said body, a stud on the upper end of said plug, a washer movably mounted on said stud, a coiled spring on said stud between said plug and washer, and a shoulder on said body formed at the upper end of the central opening therein arranged to engage said washer.

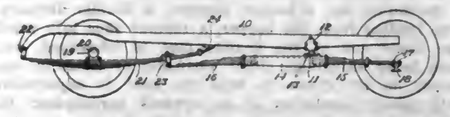
1,661,427. MACHINE AND PROCESS FOR KNITTING PLAITED FABRIC. WILBUR L. HOUSEMAN, Philadelphia, Pa., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 19, 1927. Serial No. 169,460. 11 Claims. (Cl. 66—108.)



11. In a machine for knitting plural thread plaited fabric, the combination with the needles, of sinkers alternating therewith, and means to so feed two threads under

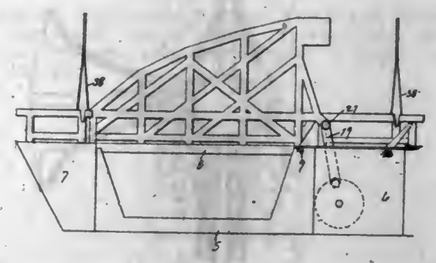
differential tension to the needles that they will cross one another before engaging the hooks of certain of the needles, all the sinkers extending radially and provided with similar thread engaging ends, cam mechanism adapted to impart similar radial movements to all the sinkers, one or more of the sinkers being tiltable to raise its thread engaging end and provided with a cam engaging member, and a cam movable radially into and out of position to cause it to engage said member and tilt the sinker, the tilted sinker being adapted to engage and deflect the threads from their normal direction of extension toward the needles and thereby cause the hooks of one or more other needles abnormally early to engage the threads before they cross.

1,661,428. SPRING SUSPENSION FOR VEHICLES. HENRY WEBB HYDE, North Cohasset, Mass., assignor to Hyde Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 24, 1923. Serial No. 659,096. 6 Claims. (Cl. 280—104.)



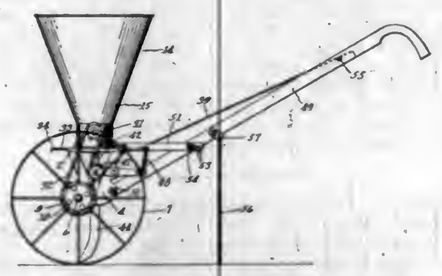
1. In a vehicle having a body and axles, a spring suspension at each side of the body including a spring member having a rocking connection with the body at one side of the centre of gravity thereof, and connected at one end with an axle, said suspension also including a second spring member intermediately supported by the other axle and connected at both ends to the body, said first spring member being connected to said second spring member.

1,661,429. BASCULE TOY BRIDGE. HANS JADE, San Francisco, Calif. Filed Sept. 29, 1926. Serial No. 138,466. 1 Claim. (Cl. 46—37.)



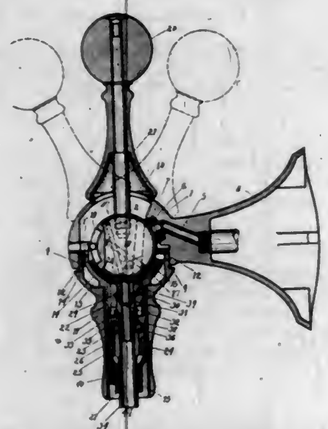
In a toy of the character described a pair of portable spaced abutments connected one to the other, a bridge portion pivoted to one of said abutments and adapted to move into contact with the other of said abutments, a gear train positioned within one of said abutments, said gear train having a shaft, a plurality of discs carried on said shaft, one of said discs having notches in the periphery thereof, a latch adapted to engage said notches for the purpose of retaining said disc against rotation, the other of said discs having projections thereon, a shaft extending between said abutments, gates positioned on said abutments, means for actuating said gates from said last mentioned shaft, means for rocking said last mentioned shaft through a lever engaging said projections formed on said disc and link connections extending between said first mentioned disc and said bridge portion for the purpose of actuating said bridge portion.

1,661,430. COMBINED FERTILIZER, DISTRIBUTOR, AND SIDE DRESSER. ARTHUR W. LEET, Madison, Ohio, assignor to The Iron King Implement Company, Madison, Ohio, a Corporation of Ohio. Filed Jan. 9, 1926. Serial No. 80,267. 1 Claim. (Cl. 111—69.)



In a distributor, the combination of a frame having a depending leg, a hopper thereon, a flexible discharge pipe leading from the hopper, a tubular shoe into which the lower end of the flexible pipe is telescoped, said shoe being adjustable either vertically or laterally, and means on the frame to hold the shoe at adjustment, said means consisting of an eye-bolt surrounding the shoe and extending into a slot in the leg.

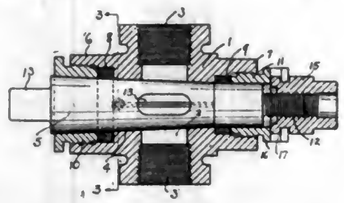
1,661,431. MIXING VALVE. WILLIAM E. LEIBING, Oakland, Calif., assignor to Magnus Fruit Products Co., San Francisco, Calif., a Corporation of California. Filed Dec. 5, 1925. Serial No. 73,394. 11 Claims. (Cl. 225—26.)



1. A mixing valve, comprising a pair of valve casing members formed for cooperation to provide a valve seat, a valve body mounted between said members and engaging the seat, and a spout removably and adjustably connected to one of said casing members and engaging the other casing member for maintaining the valve body seated, said valve body and casing members being formed with passages adapted for communication with the spout and controlled by the operation of the valve body.

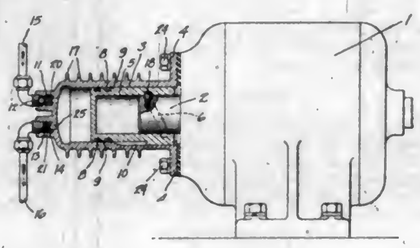
11. A mixing valve, comprising a main valve casing member formed with a valve seat portion and a plurality of passages communicating therewith, a supplemental casing member formed with a cooperating valve seat portion, said supplemental casing member having a cylindrical projection formed with a discharge passage, a main foam control member mounted in said cylindrical projection and cooperating with a seat portion therein for controlling the admission of carbonated fluid to the passage therethrough, means for adjustably mounting said supplemental casing member in said main casing member and a valve body operably mounted in said seat portion of said members having ports permitting and controlling communication between the passages in said main casing member and said discharge passage.

1,661,432. COCK. ROBERT A. LINCOLN, Tonkawa, Okla. Filed Apr. 27, 1926. Serial No. 104,884. 3 Claims. (Cl. 251—97.)



1. In a device of the character described, a casing having a fluid passage therethrough, a tapered valve plug in said passage transversely thereof, packing glands at each end of said plug, a nut having threaded engagement with the smaller end of said plug, said nut being rotatably connected with the adjacent gland to prevent movement of said nut longitudinally relative to said gland for the purpose set forth.

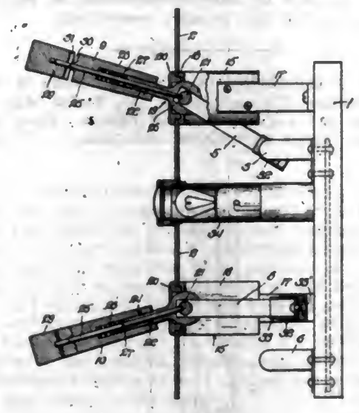
1,661,433. COMPRESSOR. THOMAS J. LITLE, Jr., Detroit, Mich., assignor to Copeland Products, Inc., Detroit, Mich., a Corporation of Michigan. Filed July 19, 1926. Serial No. 123,445. 3 Claims. (Cl. 230—58.)



1. In combination, an electric motor, a cylinder rigidly secured to one end thereof in axial alignment therewith and forming an end wall therefor, a piston slidably received within said cylinder rotatably receiving an end of the shaft of said motor within the interior thereof, a meandering endless groove in the interior walls of said piston, a projection on the periphery of said shaft engaging said groove, a longitudinally extending groove in the interior of said cylinder, and a longitudinally extending projection on the periphery of said piston received in said groove for preventing rotation of said piston whereby rotation of said shaft causes reciprocation of said piston.

1,661,434. ELECTRIC SWITCH AND SYSTEM. ALBERT R. LOCKE, Chicago, Ill. Filed Aug. 14, 1922. Serial No. 581,610. 2 Claims. (Cl. 200—153.)

1. The combination with a fixed and a movable contact member supported by a mounting plate and switch blade respectively, said blade being pivotally secured by a shaft to a support mounted on said mounting plate,



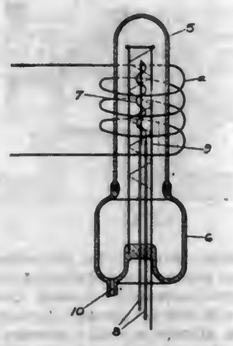
of a handle for the blade, and means mounted therein for connecting the handle to the shaft and disconnecting the same therefrom.

1,661,435. VEHICLE BRAKE CONSTRUCTION. LLOYD A. MARTINELLI and FREDERICK EDWARD CULVERWELL, San Francisco, Calif. Filed Feb. 25, 1926. Serial No. 90,472. 2 Claims. (Cl. 188—218.)



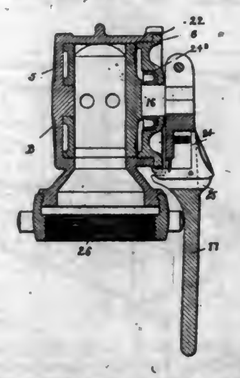
1. In combination with a driving shaft, a brake flange, brake linings disposed circumferentially of the inner and outer faces of the flange and detachably secured thereto to rotate therewith, and means for independently attaching the respective linings to the brake flange, the respective attaching means for one of said linings being accessible through an aperture in the opposite lining.

1,661,436. HELIUM SPACE DISCHARGE TUBE. FREDERICK S. MCCULLOUGH, Wilkinsburg, Pa. Filed Apr. 8, 1924. Serial No. 703,921. 2 Claims. (Cl. 250—27.5.)



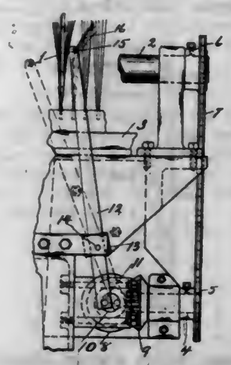
1. The method of making a space discharge tube having helium therein which consists in assembling a tube having an anode and a cathode on which latter there is a substance capable of liberating helium when heated, exhausting and de-gasifying the anode and the cathode by exhaustion and baking, sealing off the tube, and applying a current to the cathode to heat the same, whereby helium is evolved in the tube.

1,661,437. SHUT-OFF VALVE. THOMAS F. MCLAUGHLIN, San Francisco, Calif. Filed Sept. 24, 1923. Serial No. 664,403. 2 Claims. (Cl. 251—164.)



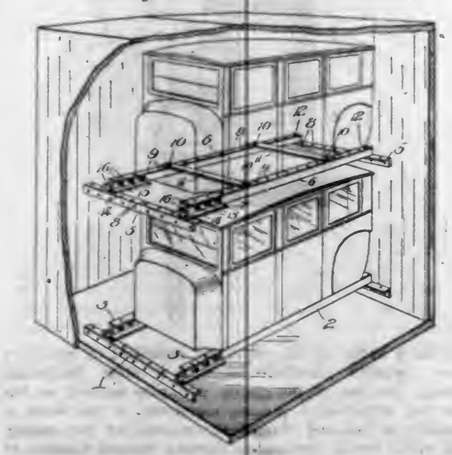
1. In a valve of the character described, a casing, a valve turnably mounted therein, a stem projecting through one end of the casing, a handle secured on the stem for imparting a turning movement to the valve, a plurality of notches formed in one end of the casing, said valve handle having an opening formed therein at a point intermediate the valve stem and the outer end of the handle and extending through the handle, an inwardly extending latch member pivotally mounted in the opening of the handle and engageable with the notches, and an extension on the latch member lying in the opening and assuming a position in substantial parallelism with the surface of the handle, said extension when depressed adapted to release the latch with relation to the notches and a spring interposed between the extension and the handle to normally retain the latch in engagement with the notches.

1,661,438. TUFT-DEFLECTING DEVICE FOR BRUSH MACHINES. AUGUST MERTES, Lakewood, Ohio. Filed Nov. 10, 1923. Serial No. 673,982. 1 Claim. (Cl. 300—2.)



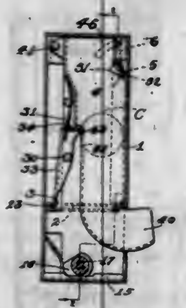
In a tuft deflecting device for a tuft setting brush machine, the combination of a pivotally mounted block, an arm longitudinally movable in said block, a crank timed with the tuft setting mechanism of said machine and operatively connected with one end of said arm, and a tuft deflecting member at the other end of said arm.

1,661,439. METHOD AND APPARATUS FOR LOADING AND SUPPORTING VEHICLE BODIES IN FREIGHT CARS AND THE LIKE. CHARLES L. MICHOD, Chicago, Ill., assignor, by direct and mesne assignments, to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey, and The Copony Auto Loading Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 22, 1926. Serial No. 82,913. 20 Claims. (Cl. 105—368.)



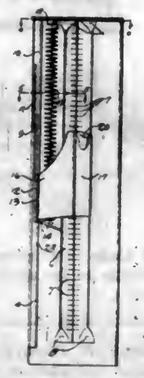
1. An apparatus for supporting vehicle bodies in a freight car or the like comprising bracket members arranged for aligned attachment to the opposite walls of the freight car body, supporting members extending crosswise of said freight car body and adjustably engaging said bracket members, means for removably securing said cross members and brackets together in adjusted position, and means for attaching and securing the vehicle body to said cross members.

1,661,440. SINGLE-PACKAGE-VENDING MACHINE. HARRY R. MITCHELL, Seattle, Wash., assignor to Mitchell Products Company, Seattle, Wash., a Corporation of Washington. Filed July 14, 1923. Serial No. 651,670. 1 Claim. (Cl. 194—1.)



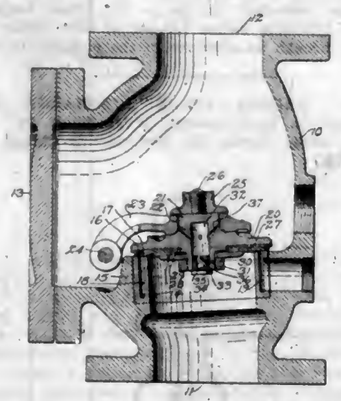
A single package vending machine comprising, in combination, a casing, including a package-receiving chamber, coin-controlled means, including a coin chute, for retaining the package in said chamber, a pivoted vane mounted adjacent the upper end of said chamber to move into or out of the same, said vane being directly engageable by a package within the chamber to be moved thereby out of the chamber, and movable thereinto by gravity as the package leaves the chamber, and a finger projecting from the free end of said vane into the coin chute and movable with said vane to obstruct the coin chute or to leave the same unobstructed, as the vane moves into or from said chamber, respectively.

1,661,441. DISPENSING CONTAINER. JOHN B. OHLSON, Chicago, Ill., assignor to The Vortex Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 2, 1924. Serial No. 735,227. 20 Claims. (Cl. 312—43.)



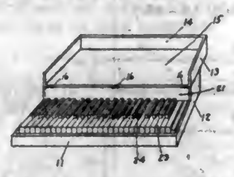
16. The combination with a container adapted to carry a nest of interfitting articles stationary therein and individually removable therefrom, of a spring actuated follower held in frictional engagement with the endmost article of the nest.

1,661,442. ALARM VALVE FOR AUTOMATIC SPRINKLING SYSTEMS. HARRY M. NACEY, Chicago, Ill. Filed Oct. 10, 1921. Serial No. 506,578. 5 Claims. (Cl. 169—28.)



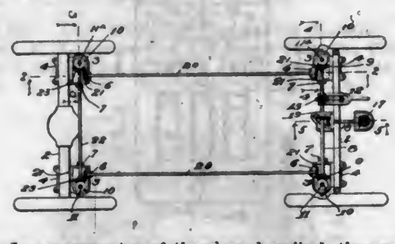
1. An alarm valve adaptable for use either in a vertical or horizontal position, comprising in combination a pivoted lever, a valve suspended loosely enough therein to form a water discharge passage through the lever, said valve having therein a water chamber and outlet passages therefor in open communication with said discharge passage, said chamber and passages establishing communication between the two sides of said first mentioned valve, and a check valve for controlling the supply of water to said chamber.

1,661,443. KEYBOARD MECHANISM. HERBERT G. NEELY, Anderson, Ind. Filed Nov. 2, 1925. Serial No. 66,309. 1 Claim. (Cl. 84—467.)



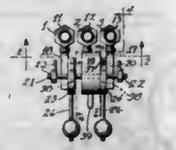
In a keyboard mechanism, the combination of a plurality of parallel arranged key members, an elongated stop rail positioned thereabove and intermediate the ends of said key member, a single tension support, bearings rotatably mounting said support, and yielding means secured at one end to each of said keys and at the other end to said support and normally under tension for maintaining the keys in engagement with the stop rail, and means rotatable for securing said yielding means support in the adjusted rotatable position for securing predetermined tension in said yielding means connecting each key member to the support.

1,661,444. AUTOMOBILE JACK. CLARENCE J. PARR, Hannibal, Mo. Filed Oct. 8, 1926. Serial No. 140,266. 2 Claims. (Cl. 254—86.)



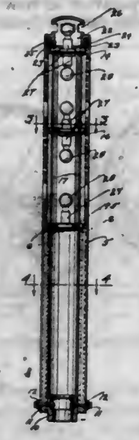
1. In an apparatus of the class described, the combination with a front and rear axle, a set of casings on each axle, vertically movable jacks mounted upon said casings, of a primary driving shaft connected at its ends to the jacks in the set of casings on the front axle, a driven shaft connected at its ends to the jacks in the set of casings on the rear axle, a pair of longitudinally-extending auxiliary driving shafts extending at their ends into the sets of casings on the front and rear axles, and means within said casings connecting all of said shafts and gears, whereby when said primary driven shaft is operated, said jacks will be operated upon said casings.

1,661,445. MEANS FOR FEEDING WATER INTO WASHING MACHINES. EBLE VINCENT PAYNE, Oakland, Calif. Filed Oct. 30, 1926. Serial No. 145,150. 4 Claims. (Cl. 137—68.)



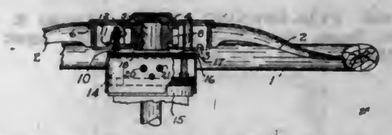
3. In combination, a soft water conduit, a hard water conduit and a steam conduit arranged in adjacent relation and joined to cause the hard and soft water to mix and the steam to be discharged into the mixed waters for heating the same and for accelerating the flow thereof, a tank receiving the heated mixed water, valves in the conduits, means for maintaining the valves open and means operated by the rising water level in the tank releasing said means for closing the valves when the water reaches a predetermined level.

1,661,446. TRAFFIC SIGNAL. JOHN RANK and HENRY W. RANK, Minneapolis, Minn. Filed Apr. 23, 1926. Serial No. 104,061. 7 Claims. (Cl. 40—145.)



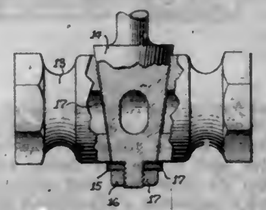
1. A self-arighting signal post having a tubular body of elastic non-separable material anchored at its lower end, a stiffening and reinforcing shell in the form of a metallic skeleton fitted within the upper portion of said tubular body and affording a support for lighting means, a portion of said tubular body between its anchored lower end and said metal skeleton being flexible and adapting the post to be bent to an approximately horizontal position, said tubular body at its stiffened upper end having light-emitting passages for signal purposes.

1,661,447. STEERING WHEEL AND IGNITION LOCK. WENDELIN P. SENG, Wilmette, Ill. Filed Oct. 24, 1921. Serial No. 509,950. 19 Claims. (Cl. 70—127.)



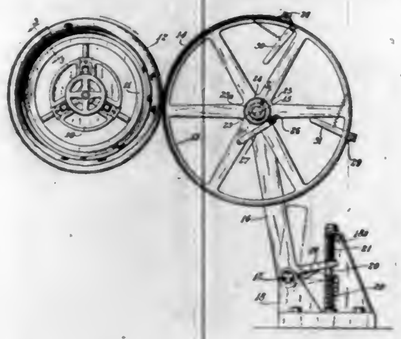
1. The combination with a steering shaft, of a relatively rotatable steering wheel therefor and an ignition circuit with a transversely movable contact, and a common means carried by the steering wheel for controlling the relative movement of the wheel and shaft and the movement of the contact of the said circuit.

1,661,448. NONSEIZING ARTICLE OF ALUMINUM AND METHOD OF PRODUCING THE SAME. CYRIL S. TAYLOR, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 24, 1923. Serial No. 634,228. 3 Claims. (Cl. 308—241.)



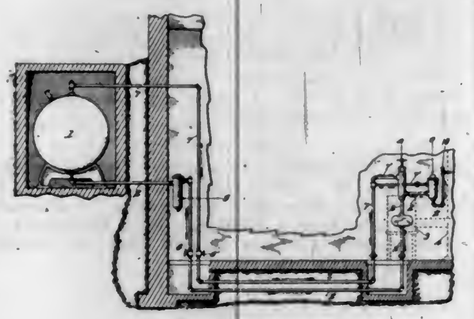
1. A rigid article of aluminum having a bearing surface comprising aluminum in an oxidized form, adapted to prevent seizure when the article is used with its bearing surface in contact with aluminum.

1,661,449. METHOD AND APPARATUS FOR BUILDING PNEUMATIC TIRES. JAMES D. TEW, Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 9, 1923. Serial No. 630,743. 6 Claims. (Cl. 154—14.)



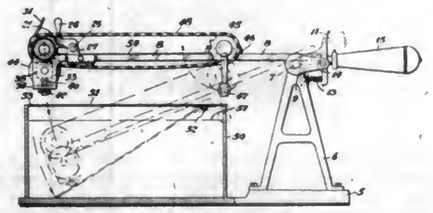
1. The method of building pneumatic tires which comprises feeding a strip of tire-building material onto a tire-core, the middle portion of the strip passing onto the crown of the core, while effecting a localized, progressive stretching of said middle zone by hold-back engagement with the outer face thereof substantially at the point of application, whereby said middle zone is more stretched than the side margins and the strip is thus caused progressively to assume a trough shape by lateral flexing, concurrently with its assuming a longitudinally arcuate form, in passing onto the core.

1,661,450. FUEL-BURNING SYSTEM. LEPORT R. VAN SANT, Peoria, Ill. Filed June 12, 1925. Serial No. 36,611. 7 Claims. (Cl. 158—42.1.)



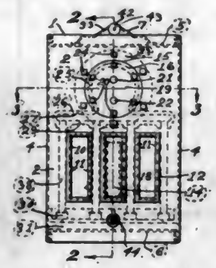
1. In a fuel feeding and regulating system for burners, a regulating valve including a casing having an inlet, outlet and a seepage port, a piston movable in said casing having a valve head at one end thereof adapted to engage and close the outlet port and provided at its opposite end with a depression, a compression spring engaged in said depression, and a valve seat carried by the casing and engaged by the opposite end of said piston to prevent seepage of the fuel around the piston when the same is raised and the outlet port is open.

1,661,451. METHOD OF AND APPARATUS FOR MAKING CELLULOID TUBES. JOHN N. WHITEHOUSE, New York, N. Y. Filed Dec. 4, 1925. Serial No. 73,139. 14 Claims. (Cl. 18—56.)



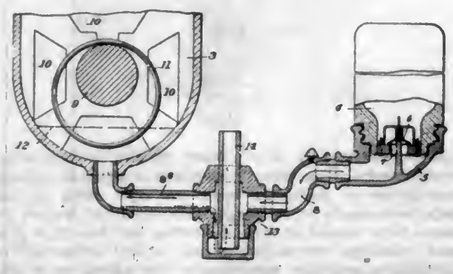
1. The method of forming tubing which comprises winding a sheet of material into a roll while immersed in a solvent bath.

1,661,452. REFRIGERATING APPARATUS. FRANK E. WILLIAMS, St. Louis, Mo., assignor to Polar Electric Refrigerator Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 6, 1925. Serial No. 48,511. 9 Claims. (Cl. 62—95.)



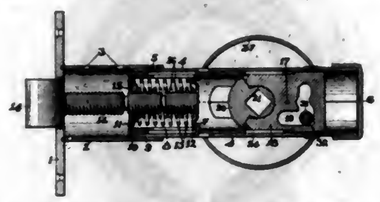
8. A refrigerating apparatus comprising a tank having a plurality of apertures extending horizontally thereof, a shelf portion arranged on the top of said tank and defining an auxiliary chamber in communication with said tank, a vaporizer header disposed within the upper portion of said tank, the upper portion of said header being cylindrical in form, developing at its lower portion into a wide and shallow hollow substantially rectangular distributing portion extending horizontally in opposite directions, and vertical tubes closed at lower ends having their upper ends connected to the base portion of said header.

1,661,453. METHOD OF AND APPARATUS FOR SEPARATING OIL FROM WATER. FREDERIC WILKES, Wilkinsburg, Pa. Filed Feb. 15, 1927. Serial No. 168,318. 1 Claim. (Cl. 210—51.)



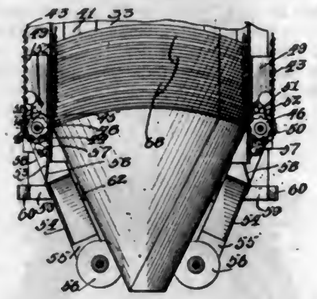
The combination with a bearing having an oil reservoir box and a source of oil supply therefor, of a conduit leading from said source into the lower portion of the reservoir, a water-collecting chamber disposed below the conduit and having communication therewith, and an overflow pipe extending upwardly from said chamber to a point above the conduit and not materially higher than the desired normal oil lever in said reservoir.

1,661,454. ADJUSTABLE LOCK. ELLIS L. WILSON, San Anselmo, Calif. Filed Aug. 26, 1926. Serial No. 131,597. 14 Claims. (Cl. 70—16.)



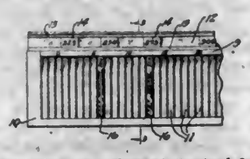
1. An adjustable lock comprising, a casing having a plurality of slots therein, a plunger movably extending through the casing and comprised of a number of sections adapted to be broken off to shorten the plunger, and a tubular member located inside the casing having a projection thereon adapted to engage with any one of the slots in the casing.

1,661,455. CUP DISPENSER. CESARE BARBIERI, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 26, 1924. Serial No. 739,982. 16 Claims. (Cl. 312—43.)



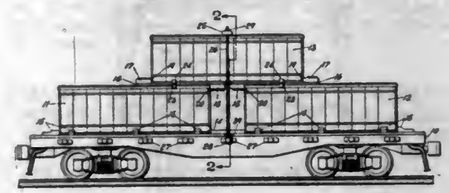
1. A nested flat cup dispenser comprising a mounting plate, a container pivotally mounted thereon, a cover for the container pivotally mounted on the mounting plate, means connecting the mounting plate and the container for holding the container supported in place in open position, and a stop supported on the mounting plate and projection through a portion of the container to act as a stop for cups when the container is in open position.

1,661,456. RADIOLOG. HARRY D. BARTLETT, Delavan, Wis. Filed Aug. 5, 1926. Serial No. 127,344. 2 Claims. (Cl. 40—64.)



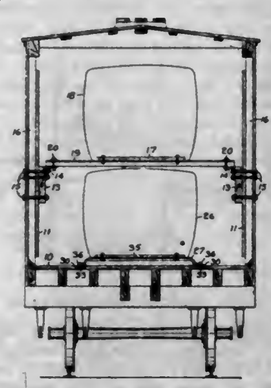
1. In combination, an elongated straight base member, an indicia strip holding member thereon, a wave length tab holding member thereon, a plurality of wave length tabs longitudinally removably mounted therein in proper spaced relation, and a plurality of station indicia strips engaged by said first mentioned holding member and movable at right angles to the direction of movement of the wave length tabs, said strip holding member being provided with dial setting graduations and said strips and tabs being in register with predetermined graduations.

1,661,457. SHIPPING DEVICE. RICHARD E. BAUS, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Mar. 7, 1924. Serial No. 697,623. 15 Claims. (Cl. 280—179.)



1. Means for securing a box against longitudinal movement relative to a second box positioned therebelow, said means comprising a plurality of members independent of each other interposed between said boxes, and stop members engaging the end faces of said boxes secured adjacent the ends of said first-named members.

1,661,458. METHOD OF LOADING AUTOMOBILE BODIES IN FREIGHT CARS. RICHARD E. BAUS, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed May 2, 1925. Serial No. 27,518. 9 Claims. (Cl. 105—368.)

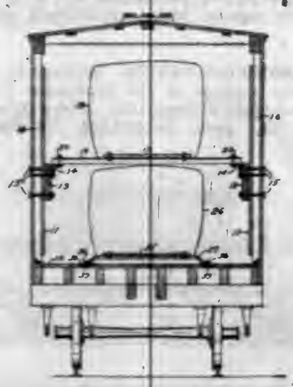


1. The method of double-deck loading automobile bodies in freight cars for shipment, comprising securing brackets to the sides of said cars at a substantial height above the floor thereof, securing cross-members to said bodies, placing said bodies and their respective cross-members as a unit in said car with the cross-members of certain of said bodies supported on said brackets and the cross-members of other of said bodies supported on said floor.

1,661,459. METHOD OF LOADING AUTOMOBILE BODIES IN FREIGHT CARS. RICHARD E. BAUS, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Original application filed May 2, 1925, Serial No. 27,518. Divided and this application filed Aug. 26, 1926. Serial No. 131,673. 11 Claims. (Cl. 105—368.)

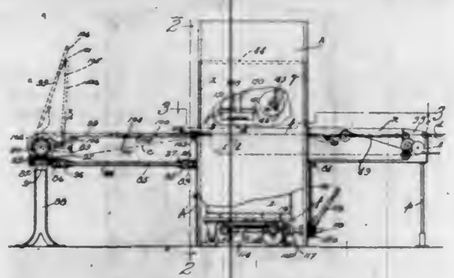
1. The method of loading an automobile body in a freight car for shipment, comprising first securing to the

under side of said body a plurality of cross members having downwardly extending end portions, placing said



body and said cross members in said car as a unit, and thereafter removably securing the ends of said cross members to the floor of said car.

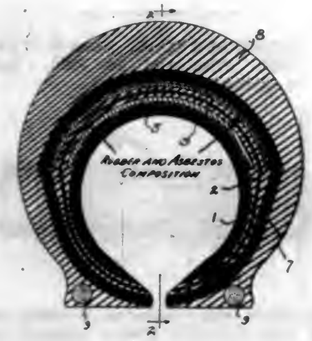
1,661,460. CONFECTION-COATING MACHINE. ALONZO LINTON BAUSMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1924. Serial No. 748,931. 16 Claims. (Cl. 91—3.)



1. In a confection coating machine, a casing, an endless belt for carrying confections therethrough, spaced devices over which said belt is trained in loop form and disposed one at each end of the confection carrying stretch thereof, and means for holding said devices against movement toward one another, said means permitting either device to be lifted therefrom and when so lifted to be moved toward the other device sufficiently to allow it to be slipped endwise out of the loop of said belt leaving the latter free for removal from the casing.

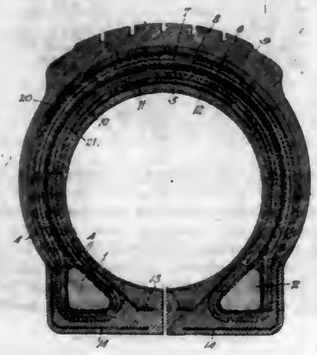
15. The combination with a confection coating machine, of a feed table therefor, comprising two hingedly-connected sections normally lying end to end in a common plane, a feed belt travelling over said table in its upper lap and returning in its lower lap beneath said table, a support spaced from said machine to which support one end of one of said sections is pivotally connected, a support adjacent said machine for the opposite end of the other section, said sections arranged to fold upwardly in jackknife fashion and to swing upwardly on said pivotal connection without removing said belt into an inoperative position, and means on one section to engage the other section and prevent jackknife movement of the sections in a downward direction.

1,661,461. CASING FOR PNEUMATIC TUBES. AMEL B. BROLUSKA, Detroit, Mich. Filed Apr. 6, 1923. Serial No. 630,231. 4 Claims. (Cl. 152—18.)



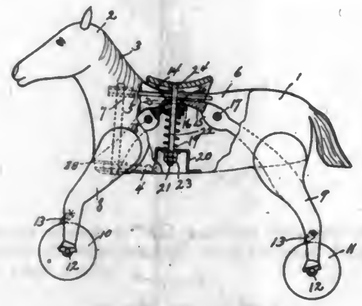
1. A casing for pneumatic tubes comprising a series of puncture resisting plates of vulcanizable material embedded in the casing, a series of reinforcing wires coated with a heat resisting substance and extending through the said plates, the wires being arranged in the plates in crossed layers at an angle to the center plane of the casing and in staggered relation to prevent the possibility of puncture, the casing being vulcanized to secure the plates in position.

1,661,462. TIRE STRUCTURE. AMEL B. BROLUSKA, Detroit, Mich. Filed Oct. 11, 1924. Serial No. 743,119. 1 Claim. (Cl. 152—18.)



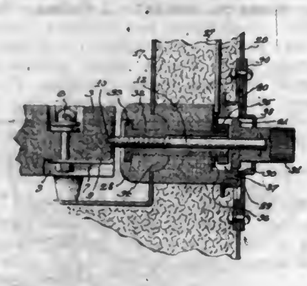
A tire structure comprising a pair of annular base members, a series of layers of cords wound around the base members and shaped to form a carcass, said cord layers being embedded in rubber, a tension band extending about the tire circumferentially of the casing on the tread side between the layers of cords, a similarly positioned band on the exterior of the carcass, and a third similar tension band on the interior of the carcass, one of the said bands having its opposite edges secured to the base members, the cords and bands being separately embedded in rubber, a tread portion on the exterior of the casing, and a cushion rubber lining for the interior of the casing, the entire structure being vulcanized to secure the parts in the said relation.

1,661,463. TOY HORSE. ALEXANDER CAMPBELL, Tyrrell, Ohio. Filed June 29, 1925. Serial No. 40,180. 7 Claims. (Cl. 208—42.)



1. A self-propelled toy comprising a body portion in the form of an animal, four legs pivoted to the body portion, a wheel carried by each leg, means for preventing the backward rotation of the wheel, means operating by the weight of the rider for spreading the front and rear legs apart, and spring means for drawing the legs together when the weight of the rider is removed from the operating means.

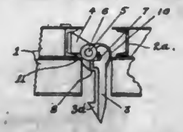
1,661,464. HEATING-ELEMENT SUPPORT. WILLIAM CAMPBELL, Detroit, Mich. Filed Aug. 13, 1923. Serial No. 656,994. 6 Claims. (Cl. 219—35.)



2. The combination with a double walled receptacle and an electrical heating unit in said receptacle, of insulators mounted upon the walls of the receptacle at opposite sides of the heating unit, terminals carried by said insulators to engage the heating unit and make electrical connection therewith, leading-in wires between the inside and outside walls of the double walled receptacle and connected to said terminals, said insulators being formed with chambers to receive the ends of the wires and within which chambers said wires are connected to said terminals, and means upon the outer end of one of said terminals and extending through the outer wall of the casing for operating said terminal from the exterior of the casing to move it into and out of engagement with the heating unit.

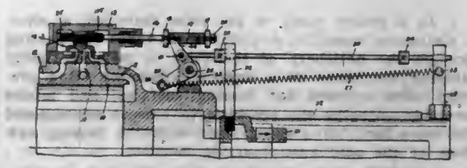
1,661,465. CAR COUPLER. EDGAR D. CHURCH, Saginaw, Mich., assignor to Jackson & Church Co., Saginaw, Mich., a Corporation of Michigan. Filed Apr. 11, 1927. Serial No. 182,737. 3 Claims. (Cl. 213—176.)

1. In combination, a car truck, a bracket secured thereto, a latch having on its lower edge a downwardly projecting shoulder and having a hooked end, said latch pivoted to said bracket for up-and-down movement in a vertical plane, a movable latch-supporting finger and



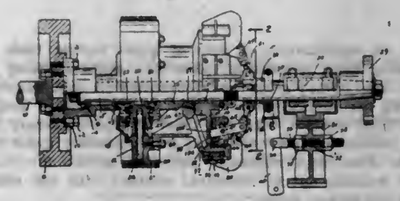
two oppositely directed projections on the latch near its pivot adapted, when the latch is pendent, to serve as a car bumper.

1,661,466. STEAM-CYLINDER VALVE-OPERATING MEANS. WILLIAM A. COOK, Marion, Ind., assignor to Marion Machine, Foundry & Supply Company, Marion, Ind., a Corporation. Filed Sept. 28, 1926. Serial No. 138,301. 4 Claims. (Cl. 121—164.)



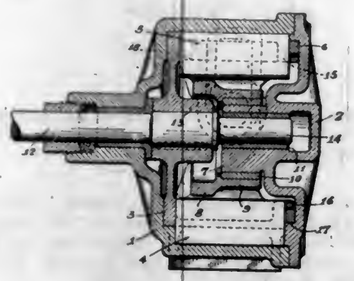
1. The combination with a valve, cross head and cross head slide of a cylinder, of a bell crank lever with one arm in operative connection with the valve, a spring connected with the end of the other arm of the lever, a stationary post on the cross head slide with which the other end of the spring is connected so as to be under tension, a rod pivoted at one end to the arm of the bell crank lever which is operatively connected with the valve and at its other end is slidable in said post, a collar secured on said rod near each end thereof, and an arm extending up from said cross head and between said collars, said collars being positioned on said rod so that they will be respectively moved by the arm on the cross head near each limit of movement thereof and thereby rock the lever past its center to permit the spring to throw the lever to cause a sudden complete operation of the valve.

1,661,467. REVERSIBLE CLUTCH. WILLIAM A. COOK, Marion, Ind., assignor to Marion Machine, Foundry & Supply Co., Marion, Ind., a Corporation. Filed Feb. 7, 1927. Serial No. 166,433. 1 Claim. (Cl. 74—34.)



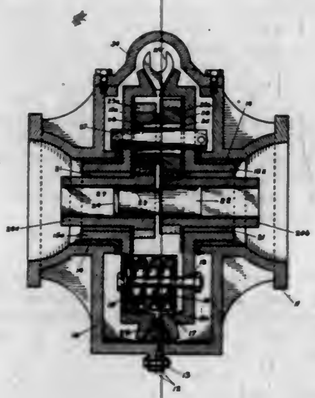
In a clutch construction, a shaft, a driving pinion support rotatably mounted thereon, a pair of opposed anti-friction thrust bearings interposed therebetween, a driving hub enclosing one end of the shaft, and another pair of opposed anti-friction thrust bearings interposed therebetween, adjacent bearings of both pairs of opposed anti-friction thrust bearings opposing each other.

1,661,468. ROTARY PUMP. JAMES CORBETT, Toronto, Ontario, Canada, assignor of one-half to Benjamin Cohen, Toronto, Canada. Filed Jan. 27, 1927, Serial No. 164,107, and in Canada Jan. 28, 1926. 6 Claims. (Cl. 103—138.)



1. In a rotary pump of the class described, a rotor, a stationary eccentric, a plurality of vanes for passing through the periphery of the rotor, a member rigidly carrying the vanes as a unit, said member being provided with opposed flat bearing surfaces, and means revolubly engaging the eccentric to present non-opposed flat faces for sliding engagement with the bearing surfaces of the said vane carrying member.

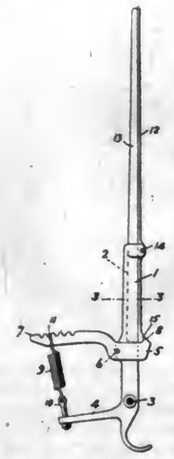
1,661,469. AUXILIARY TRANSMISSION. FRANK P. FERRIS, Lincoln, Nebr. Filed July 23, 1925. Serial No. 45,633. 3 Claims. (Cl. 74—34.)



1. In combination, a pair of gears having their axes in alignment, a housing, planetary gears meshing with said first named gears and journalled in said housing, a spring for normally urging said housing toward and into frictional contact with the sides of said planetary gears for preventing the rotation of said planetary gears about their axes, and manually operable means for moving said housing out of frictional contact with the sides of said planetary gears.

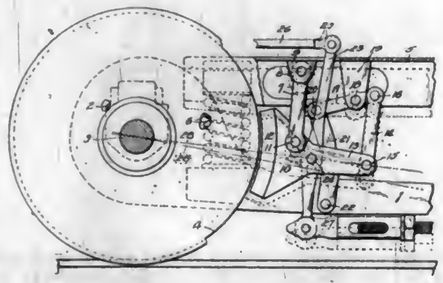
1,661,470. PICKER-STICK MECHANISM. ELLIS L. FOX, Jr., Jeffersonville, Pa. Filed Apr. 4, 1927. Serial No. 180,685. 2 Claims. (Cl. 139—156.)

1. Picker stick mechanism comprising a grooved metal shank oscillatable about a fixed axis and provided with a bracket, a catch pivoted to the shank and having a beveled nose and a projecting lever, a spring interposed between the lever and bracket, and a tongued metal



picker arm pivotally connected with the free end of the shank and having a beveled heel adapted to be caught by the catch and to release the catch.

1,661,471. BRAKE RIGGING FOR RAILWAY TRUCKS. HARVEY GEORGE, St. Louis, Mo. Filed Apr. 18, 1927, Serial No. 184,587. 5 Claims. (Cl. 188—190.)



1. In a brake rigging for railway trucks having a spring supported vertically movable upper frame member and a relatively stationary lower frame member, a brake head including a brake shoe, an arm extension for said brake head, hangers pivotally suspending from the upper frame member and means actuated by the up and down movement of the upper frame member for imparting movement to the brake head to always maintain concentric relation of the brake shoe with the wheel by maintaining the longitudinal axis of the brake head in a straight line with the center of the wheel.

1,661,472. TOOTH-CLEANING IMPLEMENT. GEORGE N. GILBERT, Pana, Ill. Filed Apr. 6, 1927. Serial No. 181,547. 8 Claims. (Cl. 132—92.)

1. An implement of the character described comprising an open ended tubular glass storage compartment and handle providing body, and a closure cap for closing each open end of said body, a tooth crevice cleaning member carried by one cap, and a tooth surface clean-



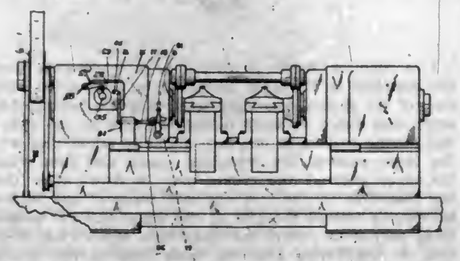
ing member carried by the remaining cap, said crevice and surface cleaning members being projected from said caps at acute angles.

1,661,473. ACCUMULATOR FOR RADIANT ENERGY. ROBERT H. GODDARD and NILS AUGUST RIFFOLT, Worcester, Mass. Filed June 10, 1924. Serial No. 719,201. 5 Claims. (Cl. 126—271.)



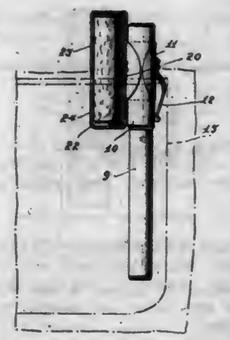
2. An accumulator for radiant energy comprising a longitudinally extended and substantially cylindrical receptacle having a convex outer surface and a concave energy absorbing inner surface, said surfaces being substantially uniformly spaced apart to receive a comparatively thin layer of energy absorbing liquid in said receptacle and said receptacle having a relatively narrow longitudinally extended heat-admitting opening along one side thereof.

1,661,474. SPINDLE STOP. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. K. Leblond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed Mar. 23, 1923. Serial No. 627,175. 17 Claims. (Cl. 192—139.)



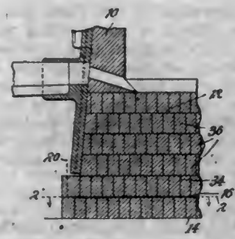
3. In a device of the class described the combination of a drive means, a shaft, a clutch controlling transmission of power from the drive means to the shaft, means for actuating the clutch whereby to render the drive means inoperative upon the shaft, a second shaft driven from the first shaft, a cam, complementary clutch members carried by the cam and second mentioned shaft, means associated with the cam for controlling the clutch actuating means, and means controlling the inter-engagement of the clutch elements associated with the cam and second mentioned shaft.

1,661,475. ROLLER BLOTTER. ALI HADI, Springwells, Mich. Filed Feb. 25, 1926. Serial No. 90,524. 2 Claims. (Cl. 120—26.)



1. A device of the class described comprising a retaining member; a U-shaped supporting member pivotally mounted on said retaining member centrally of the bight of said U-shaped member; a tubular roller; a cup-shaped disc mounted on each of the legs of said U-shaped member; said cup-shaped discs serving as a closure for the ends of said roller; and a blotter positioned on said roller in embracing relation, said U-shaped member being operative while extending transversely of or parallel to the longitudinal axis of said retaining member; and means for retaining said U-shaped member in either operative position.

1,661,476. METHOD OF DRYING OUT MASONRY. ARTHUR B. HASWELL, Birmingham, Ala. Filed June 29, 1927. Serial No. 202,265. 5 Claims. (Cl. 34—24.)

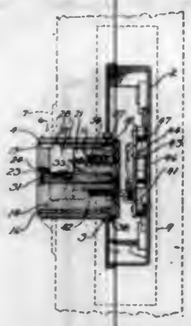


1. In the building of furnace hearths, the method which consists in first laying a lower course of brick for the hearth, secondly, placing a heater thereon, thirdly, laying a course of brick over said heater and then continuing the work under influence of said heater so that the moisture is driven from the structure as the work progresses.

1,661,477. LOCK. FRANK J. HELMUTH, Oakland, Calif. Original application filed Mar. 17, 1926, Serial No. 95,340. Divided and this application filed July 29, 1926. Serial No. 125,669. 4 Claims. (Cl. 70—46.)

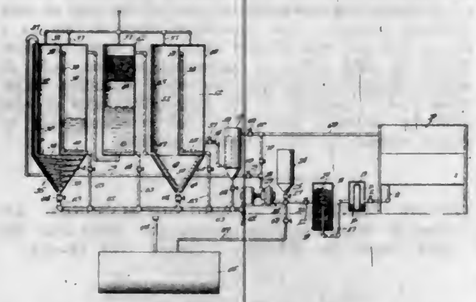
2. In a lock of the character described, a stationary element, a member revolvable relative thereto, means normally locking the member to the element yielding to the insertion of a key and a spring pressed plunger pro-

jecting eccentrically from an end face of the member adapted to ride on a ratchet for advancing the same



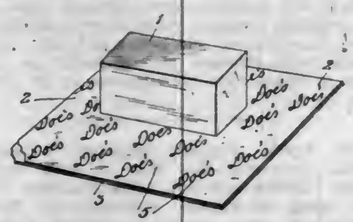
when the member is turned in one direction and for taking a new bite when the member is turned in the opposite direction.

1,661,478. APPARATUS FOR PURIFYING GASOLINE. JAMES P. JOHNSON, Greensboro, N. C., assignor to Johnson's Purifying Systems, Incorporated, Greensboro, N. C., a Corporation of North Carolina. Filed Dec. 11, 1926. Serial No. 154,251. 7 Claims. (Cl. 210—52.)



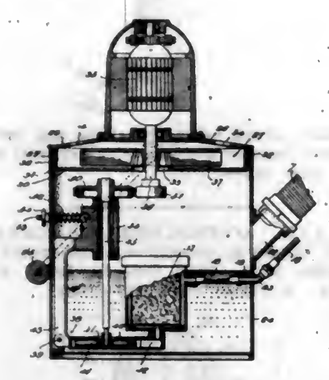
1. In an apparatus of the class described, a source of fluid to be cleaned, a pump acting upon the fluid, a trap, a filter, and a chemical tank interposed between the pump and source of fluid supply and cleaning means communicating with said pump, said means comprising a chamber for chemically treating the fluid, a filter communicating with said chamber, a washing chamber communicating with the filter, and an additional filter interposed between the last mentioned chamber and the point of use for the fluid.

1,661,479. WRAPPER FOR FOOD PRODUCTS. LOUIS JOSEPHSON, New York, N. Y., assignor to Breakstone Bros. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 4, 1927. Serial No. 165,803. 4 Claims. (Cl. 229—87.)



1. An article of the class described comprising a wrapper having an outer covering and an inner covering, said inner covering being composed of transparent material having printed matter in reverse form on its outer face whereby said printed matter is properly readable when viewed from the inner face of said inner covering.

1,661,480. SURFACE-CLEANING MACHINE. WALTER L. KEEFER, Chambersburg, Pa. Filed Mar. 2, 1925. Serial No. 12,691. 6 Claims. (Cl. 15—2.)



1. In a surface washing device, a liquid applying nozzle and a suction nozzle, a single receptacle for a washing liquid, liquid outlet means leading from said receptacle to the liquid applying nozzle, a pump for effecting flow of liquid from said receptacle through said outlet means, a liquid return member leading from the suction nozzle and communicating with the part of said receptacle above the liquid level, and means for exhausting air from said part of said receptacle above the liquid level to create suction through said liquid return member.

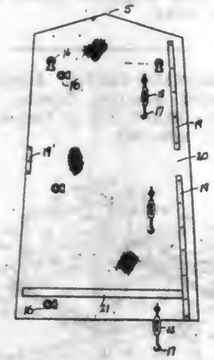
1,661,481. STEERING WHEEL. CHARLES H. KENRICK, Onaway, Mich., assignor to Lobdell-Emery Manufacturing Company, Alma, Mich., a Corporation of Michigan. Filed Dec. 23, 1925. Serial No. 77,348. 2 Claims. (Cl. 74—33.)



1. A steering wheel consisting in a continuous wood rim mortised in its inner periphery to receive the outer ends of the spokes, four rigid wooden spokes having their outer ends fitted securely in the mortises in the rim, a hub having sockets in one face normally registering with the inner ends of the assembled spokes and into which the inner ends of the spokes may be fitted after they are assembled in the rim, the side walls of the sockets converging toward the axis of the wheel and the sockets being shaped to receive the spoke ends in an axial direction, a ring fitting over the inner ends of the spokes, and means for clamping the ends of the spokes between the ring and hub, said inner ends of the spokes being broad in a circumferential direction and thinner axially of the wheel.

1,661,482. PORTABLE INSTRUMENT HOUSING. HEINZ E. KUHNE, Houston, Tex. Filed Sept. 24, 1926. Serial No. 137,479. 5 Claims. (Cl. 20—2.)

1. A portable housing having side walls, means to bring said walls into rigid connection with each other, a roof centrally hinged and shaped to engage said walls at its edges and adjustable means to draw said roof into locked

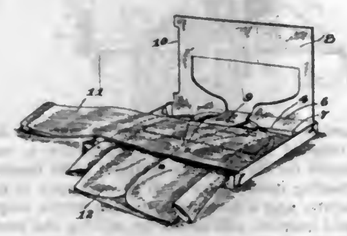


position on said walls, said walls and roof being formed of spaced plates enclosing an air space, for the purpose described.

1,661,483. METHOD OF SHEARING FUR PELTS. GEORGE J. LAEMMLE, New Rochelle, N. Y., assignor to Barnet Leather Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 8, 1927. Serial No. 211,610. 6 Claims. (Cl. 149—28.)

1. A method of shearing fur pelts having a pelage composed of hair falling in different directions comprising shearing the pelage against one fall of the hair, and repeating the shearing operation consecutively against all the falls of the hair.

1,661,484. GARMENT CARTON. BYRON HASSBERG LENGSFIELD, New Orleans, La., assignor to Lengsfield Brothers, New Orleans, La. Filed Mar. 2, 1927. Serial No. 172,159. 1 Claim. (Cl. 206—7.)



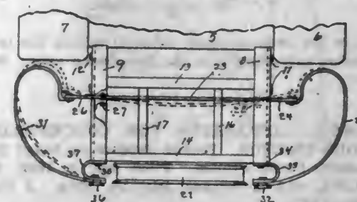
A carton for holding garment elements comprising a detachable cover portion, a main body portion having foldable sections, foldable side and end walls for one of the sections adapted to be suitably interlocked at their corners, thereby forming a container of a suitable depth for receiving the garment elements in folded relationship, a supporting section foldable along one edge of a side wall, a garment hanger flap portion formed from the supporting section, thereby providing means for securely locking the garment in the container and preventing wrinkling through rough handling, a notched portion along one edge of the supporting section for receiving a garment element, thereby providing a main body portion for bringing the garment elements into interlocked relationship when folded within the main body portion.

1,661,485. SPEAKING TUBE. JOSEPH LEVY, Tulsa, Okla. Filed Mar. 4, 1927. Serial No. 172,897. 4 Claims. (Cl. 181—22.)



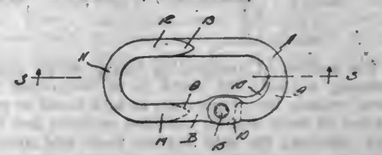
1. A speaking tube having doors at opposite ends, and connections independent of the tube from one door to the other for actuating them simultaneously.

1,661,486. LUGGAGE CARRIER AND BUMPER. WALTER R. MALM, San Francisco, Calif. Filed May 31, 1927. Serial No. 195,428. 3 Claims. (Cl. 293—55.)



1. In combination with a luggage carrier having a pair of parallel frame members, a bar extending between said frame members and having its extremities projecting beyond said frame members, wing tips secured to the opposite ends of said bar and having their free ends secured to said frames at points remote from said bar.

1,661,487. COUPLING LINK. WILLIAM MARTIN MCCULLAR, Allenville, Ill. Filed Apr. 27, 1927. Serial No. 186,985. 1 Claim. (Cl. 24—232.)

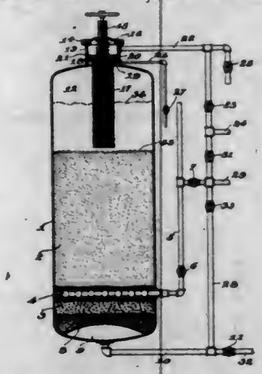


A coupling link of the class described comprising a pair of sections, one of said sections comprising a straight body portion having ends curved thereover toward each other, one of said ends, being reduced and terminating in a point, and the other end terminating in a pair of spaced ears one to each side of and in parallelism with the general plane of said one section, the other section comprising a substantially U-shaped formation having a bight, a short leg and a long leg, the extremity of the long leg being disposed between the ears and merging into a curved stop finger to engage one curved end of the first section which is provided with the spaced ears, and a pin extending through openings in the ears and an opening in the extremity of the long leg for pivoting the sections together so that they will swing in only a single plane.

1,661,488. BASE-EXCHANGE WATER SOFTENER AND FILTER AND FILL-NOZZLE SALT-POT ATTACHMENT. CHESTER T. MCGILL, Elgin, Ill., assignor to Reiter Company, Elgin, Ill., a Corporation of Illinois. Filed Apr. 9, 1926. Serial No. 101,002. 10 Claims. (Cl. 210—24.)

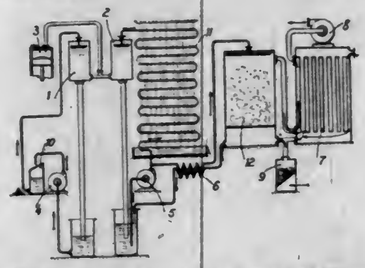
1. In a water softener, a tank, base exchange mineral within the tank, filtering material within the tank, means for introducing water into the tank, means for filtering

the water, means for supplying filtered unsoftened water, means for washing the filtering material and supplying softened water at the same time, there being a free board



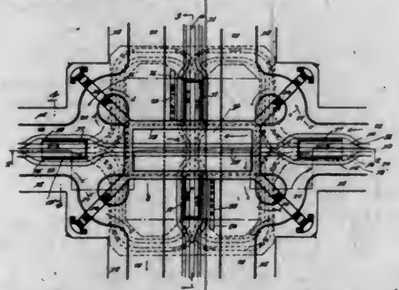
space above the base exchange mineral within the tank, a screen basket extending into the free board space from a fill nozzle.

1,661,489. APPARATUS FOR CONCENTRATING AQUEOUS LIQUIDS. PIERRE JEROME DE SAINT ANDRÉ MEYNARDIE, Paris, France. Filed Apr. 6, 1925, Serial No. 21,219, and in France Apr. 16, 1924. 2 Claims. (Cl. 62—153.)



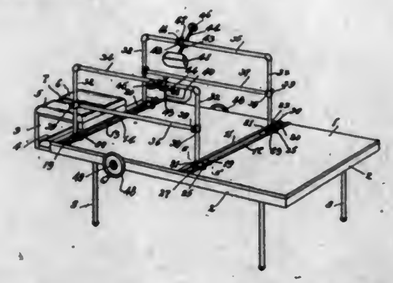
1. The method of evaporating liquids which comprises introducing a stream of liquid to be evaporated into a vacuum, causing the evaporation of said liquid to produce a mixture of finely divided solidified material and liquids, rapidly removing the said mixture from said vacuum to prevent the accumulation of the solidified particles, and separating the solidified material from the liquid.

1,661,490. STREET CROSSING. EDWARD MIHALIAK, Brookfield, Ill. Filed Jan. 5, 1927. Serial No. 159,205. 15 Claims. (Cl. 104—28.)



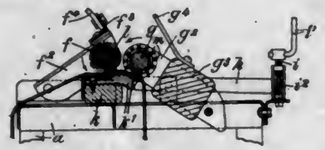
1. A street crossing comprising two street car trackways elevated one above the other and extending substantially at right angles with respect to each other, vehicle traffic lanes on opposite sides of the trackways, curved lanes at the corners of the street crossing and connecting adjacent traffic lanes to permit right and left turn of vehicles moving on the traffic lanes, and a bridge structure permitting pedestrian travel over the trackways and traffic lanes.

1,661,491. OPERATING TABLE. ALEXANDER THEODORE MINTY, Winnipeg, Manitoba, Canada. Filed Mar. 26, 1926, Serial No. 97,707, and in Canada Jan. 25, 1926. 5 Claims. (Cl. 128—70.)



1. The combination with a table, of upstanding side frames carried by the table and extending legthwise thereof, ad bodily adjustable inwardly or outwardly of the table, means for locking the side frames in any adjusted position and pressure pads carried by the side frames and normally overhanging the table and mounted on the frames to permit of the shifting of the pads in a direction lengthwise of the table, the up and down swinging movement of the pads towards and away from the table and the in and out movement of the pads towards or away from the side frames.

1,661,492. TEASELING MACHINE. STANISLAS MOREL, Vevey, Switzerland. Filed Oct. 23, 1924, Serial No. 745,489, and in Switzerland Oct. 31, 1923. 3 Claims. (Cl. 26—32.)

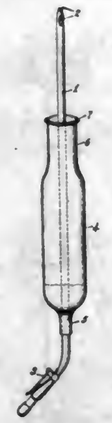


1. A machine for teaseling all kinds of material adapted to be teaseled comprising, in combination a non-rotatable support for carrying the material to be teaseled, a revoluble feeding member arranged to rest upon said support by gravity, and a revoluble brushing device cooperating with said support, and means for driving the brushing device and the feeding member.

1,661,493. PROCESS FOR TREATING CELLULOSIC MATERIAL. FREDERICK CARL NIEDERHAUSER and HAYDEN BENJAMIN KLINE, Cleveland, Ohio, assignors to The Industrial Rayon Corporation, Cleveland, Ohio. Filed Dec. 18, 1926. Serial No. 155,763. 11 Claims. (Cl. 260—100.)

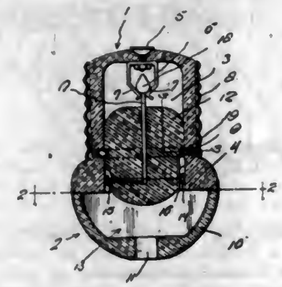
1. In a process for the manufacture of viscose rayon, the introduction in an alkaline medium into the process of viscose manufacture of an alkali metal zincate in solution, said zincate being incorporated into the alkaline viscose solution prior to the maturing of the viscose to the stage desired for precipitation, the solution being afterwards forced through openings into a precipitating bath for the formation of filaments, as herein set forth.

1,661,494. CATHETER. LOUIS A. NIELSEN, New York, N. Y. Filed Sept. 25, 1924. Serial No. 739,778. 2 Claims. (Cl. 128—349.)



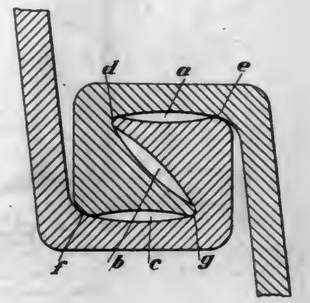
1. Means to enable at will drainage of the bladder irrespective of the condition of the sphincter muscle, comprising a drainage tube of a length to extend past the sphincter into the bladder, and means to hold the tube in place, comprising an envelope of a size to loosely receive the male organ, reduced at one end to provide a relatively short neck embracing the tube and secured thereto with a fluid tight joint, and reduced at the other end to provide a relatively long neck to embrace the organ thereby to support the envelope with the tube in place, said envelope being of resilient waterproof material, and the neck of a diameter to grasp the organ with sufficient firmness to hold the same in place without injurious pressure on the organ, and a clamp upon the lower projecting end of the tube.

1,661,495. SWIVEL CONNECTION. PHILLIP M. O'NEILL, Fort Ethan Allen, Vt. Filed Aug. 4, 1925. Serial No. 48,095. 1 Claim. (Cl. 173—359.)



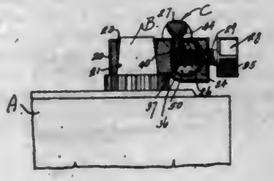
A swivel connector comprising a socketed plug provided at its open end with an outstanding flange of circular form, provided with a central contact at its closed end and surrounded by an external electricity conducting shell, a U-shaped clamp mounted in said socket and connected with said central contact, a body of semi-spherical configuration provided with a central extension fitting snugly in its bottom into the socket of said plug, said body being cored out to provide an elongated pocket, said body also having an opening in communication with said pocket for passage of electricity conducting cords, binding posts carried by said extension, and accessible through open end portions of said pocket, means associated with said binding posts whereby current is transmitted to said shell and returned to said central contact and clamp, said means including an electricity conducting stem embedded in said projection and having a head on its end detachably engaged with the arms of said clamp and also including means interposed between the wall of said socket and said extension.

1,661,496. METAL SHEET PILING. KARL PAHL, Heidelberg, Germany. Filed Dec. 31, 1925. Serial No. 78,611, and in Germany Dec. 7, 1925. 8 Claims. (Cl. 61—60.)



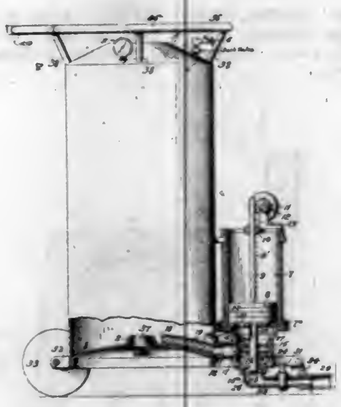
1. Metal sheet piling comprising individual pile members, interlocking jointing members on the inner edges of adjacent pile members having rigidly engaged portions for preventing a relative rotation of the pile members, the rigidly engaged portions having concaved surfaces facing each other in such a manner that the rigidly engaged portions of the jointing members interlocking each other have a linear contact throughout.

1,661,497. BATTERY TERMINAL. GEORGE DEWEY PATE, Akron, Ohio, assignor of thirty four-hundredths to Dora Neal, Kenmore, Ohio, and one-fourth to Simon Myers, Akron, Ohio. Filed Apr. 25, 1925. Serial No. 25,751. 2 Claims. (Cl. 173—259.)



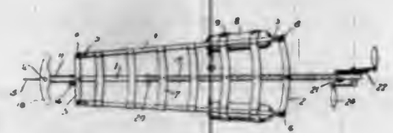
1. As an article of manufacture a battery connector comprising a post attaching portion formed of a hard metal body portion having a vertical pocket therein open only at the top thereof, said body portion having an acid resisting metal coating extending into and about the pocket thereof, a cable connecting member including a terminal formed of a body portion coated with an acid resisting metal, said terminal adapted to be extended into the pocket of the post attaching portion, and acid resisting clamping means adjustably carried by the post attaching portion adjustable into the pocket for the purpose of releasably clamping the terminal therein, said pocket being adapted to receive a plastic acid resisting substance for sealing the connection of the terminal in the pocket of the post attaching portion.

1,661,498. DISPENSING DEVICE. LAWRENCE W. PECK, Chicago, Ill. Filed Feb. 16, 1922. Serial No. 536,998. 13 Claims. (Cl. 221—102.)



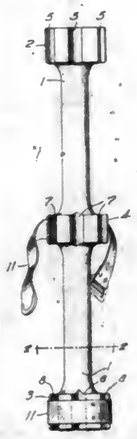
1. In a grease dispensing device, the combination of a storage tank, means for supplying air under pressure to the tank, a measuring device comprising a cylinder and piston, a connection between the storage tank and cylinder, a discharge pipe connected with the cylinder, manually controlled operating means for the piston, and valve means controlled by the operation of the piston for alternately opening and closing the connections between the cylinder, and storage tank and discharge pipe, said valve means acting to maintain the connection between the storage tank and cylinder closed when the connection between the cylinder and discharge pipe is open.

1,661,499. AQUATIC DEVICE. ELIZABETH PROTEAU, Kamloops, British Columbia, Canada. Filed July 19, 1926. Serial No. 123,499. 3 Claims. (Cl. 9—18.)



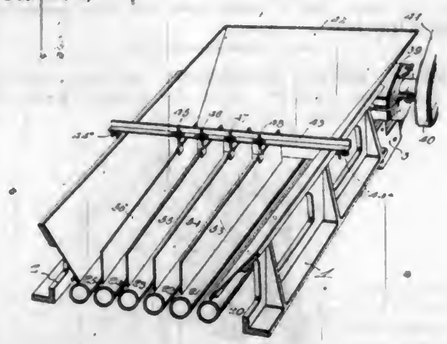
1. An aquatic device of the character described comprising a central keel member, a body supporting frame including transversely extending end members intermediately pivoted to the keel member and projecting laterally beyond the sides of said member, side members extending between corresponding extremities of said end members, fastening means connecting said side and end members together in such manner as to enable said members to be rigidly secured in rectangular formation or to be adjusted by turning movement of the end members to dispose all of said members above and in substantial parallelism with the keel member and flexible body, supporting means carried by the side members adapted to support a body thereon in the operative position of the side members.

1,661,500. GOLF-CLUB PRESS. WILLIAM F. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Aug. 22, 1927. Serial No. 214,744. 5 Claims. (Cl. 273—82.)



1. A holder for golf clubs comprising a post, spaced apart rigid enlargements at each end and at the middle thereof, one of said enlargements having a series of golf club receiving recesses, each recess being of an arc shape greater than a semi-circle.

1,661,501. SEPARATING OR CLASSIFYING MACHINE. WILLIAM A. RIDDELL, Frederick, Md. Filed Dec. 10, 1925. Serial No. 74,501. 6 Claims. (Cl. 209—107.)

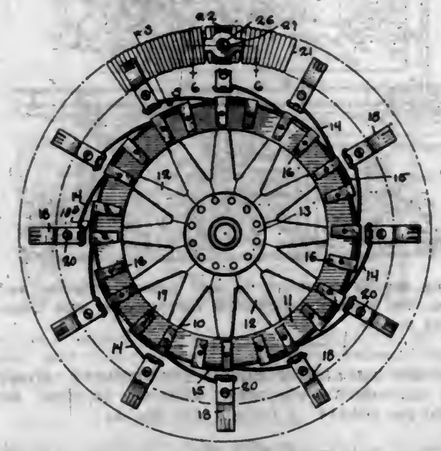


1. In a separating or classifying machine, the combination of a hopper, a plurality of downwardly inclined rollers disposed longitudinally of said hopper, a pair of laterally extending members disposed between the sides of said hopper and a plurality of guide plates depending from said laterally extending members and positioned over said rollers, each of said guide plates being adjustable toward or away from the rollers aligned therewith in a vertical plane for guiding material to be separated longitudinally along said rollers.

1,661,502. WHEEL AND TIRE THEREFOR. JOSÉ MA RIOJAS, Eagle Pass, Tex. Filed Nov. 9, 1926. Serial No. 147,223. 5 Claims. (Cl. 152—8.)

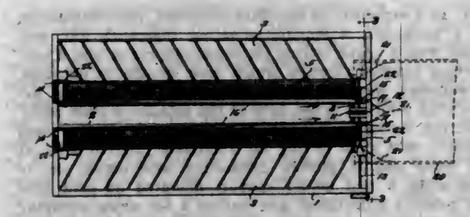
1. A resilient wheel comprising a solid rim, spring arms secured to the periphery of the rim and extending substantially tangentially with respect thereto, tire supporting brackets mounted upon said springs and each

comprising a base member secured to the respective springs and arms extending from the base member and having longitudinally curved outer portions, a resilient



tire body disposed between and embraced at its sides by the said portions of the arms, and means for holding said arms in clamping engagement with said tire body.

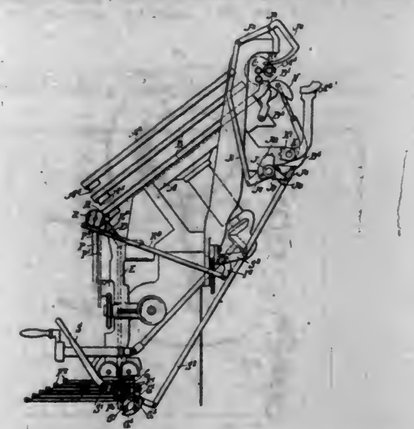
1,661,503. FRUIT-SIZING MACHINE. JABIN V. ROGERS, Cashmere, Wash. Filed Dec. 23, 1926. Serial No. 156,668. 8 Claims. (Cl. 209—90.)



1. A fruit sizing machine including an endless conveying belt inclined laterally, and an endless ejecting belt having one flight extending diagonally along the first named belt from a point adjacent and above one end of the lower side thereof to a point adjacent and above the other end at the upper side thereof.

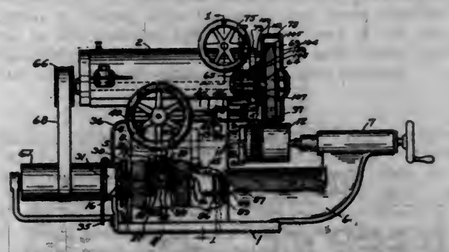
1,661,504. TYPOGRAPHICAL COMPOSING AND DISTRIBUTING MACHINE. JOHN R. ROGERS, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Apr. 15, 1926. Serial No. 102,107. 70 Claims. (Cl. 199—16.)

1. In a typographical composing and distributing machine adapted to be equipped with interchangeable magazines, one containing a set of matrices occupying certain channels according to character, and the other containing a set of matrices occupying differently located channels according to character, the combination of two distributor bars differing as to form to correspond to the respective magazines and movably mounted so as to be interchangeable in operative position with each other, and an assembler entrance arranged to receive matrices as they are discharged from the magazine in use, the said entrance being provided with two distinct throat sections provided with differently located fixed partition



plates to correspond to the respective magazines and movably mounted so as to be interchangeable in operative position with each other.

1,661,505. GRINDING AND FINISHING MACHINE. CLARENCE T. ROTTLER, Seattle, Wash. Filed Dec. 28, 1925. Serial No. 78,037. 4 Claims. (Cl. 29—28.)

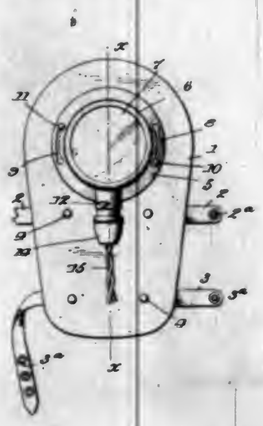


1. A machine of the class described having in combination a rotary work supporting means, a cylinder having a pivotal axis substantially parallel to that of the work, a rotary grinding tool and a roughening tool carried by said cylinder on opposite sides of its axis so that either tool may be alternatively brought into engagement with the work, means for axially moving said cylinder, and means for rotatably adjusting either tool to alternatively apply the same to the work.

1,661,506. COMBINED SIGNAL AND TROUBLE LAMP FOR AUTOMOBILES. HENRY R. SANDERS, North Beach, Md. Filed June 2, 1922. Serial No. 565,311. 1 Claim. (Cl. 177—329.)

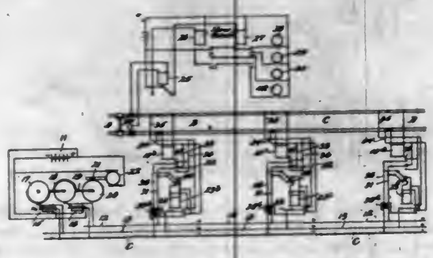
In a device of the class described, the combination of a flat signal plate of stiff light material of such proportions as to cover the back of the hand from the wrist to the finger tips, of proper shape and color to constitute a proper daylight danger signal, a plurality of straps attached thereto at points intermediate the ends, arranged to embrace the hand just back of the knuckles and at the wrist, leaving the fingers and thumb free for use, a separate lamp casing open on one side and closed on the other by a lens of colored glass to constitute a night danger signal, an integral flange formed around the edge of the open side of same, and shaped to fit closely and directly against the face of the signal plate, cooperating quick detachable fastening means on said casing and on

said plate respectively, whereby the lamp unit as a whole, including the lamp and its casing, may be mounted on



the plate for use at night, and may be detached therefrom in the daytime, or for special use at any time as a trouble lamp.

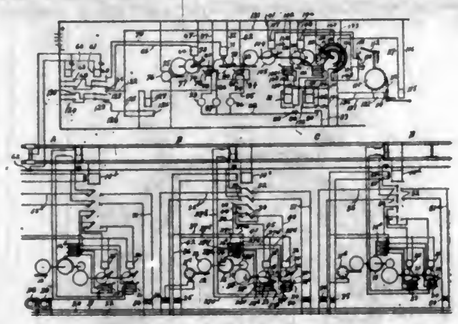
1,661,507. RAILWAY SIGNALING. EDWARD C. SASNETT, Washington, D. C. Filed Sept. 24, 1925. Serial No. 58,447. 8 Claims. (Cl. 246—59.)



3. In a continuous indication train control system, a brake actuating magnet controlled by current received from the track and normally energized, means for de-energizing said magnet if the train exceeds predetermined speeds under caution and danger conditions, a stick relay adapted when energized to hold said magnet energized independently of the speed, a pick-up circuit for said relay including a series a normally open manually operable switch and contacts closed only while the vehicle is standing still or travelling at a low speed, and a holding circuit for said relay opened upon the reception of caution signaling current.

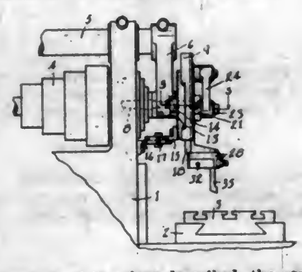
1,661,508. RAILWAY SIGNALING. EDWARD C. SASNETT, Washington, D. C. Filed Jan. 20, 1926. Serial No. 82,532. 14 Claims. (Cl. 246—37.)

1. In a railway signaling system for electrically operated roads, a track and a power conductor divided into blocks, track relays connected at the entrances of the blocks, means for connecting sources of electrical energy to the exit ends of the blocks and periodically reversing the polarity thereof, to cause the track relay contacts to vibrate, means controlled by said track relay contacts for connecting sources of electrical energy across the track and power conductor, a vehicle having trans-



lating devices connected to said power conductor and track, and signaling mechanism controlled by said translating devices.

1,661,509. MILLING-MACHINE ATTACHMENT. HARRY A. SKINNER, Waterloo, Mich. Filed Apr. 23, 1926. Serial No. 104,114. 2 Claims. (Cl. 90—44.)

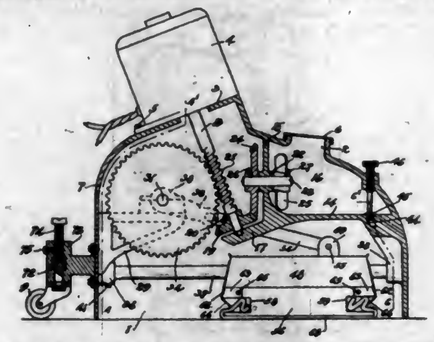


1. In a structure of the class described, the combination of a headstock, a spindle co-acting therewith and provided with a crank having an adjustable crank pin, a supporting bracket through which said spindle is disposed, a slideway mounted on said bracket for rotative adjustment relative to the axis of the spindle, a slide reciprocating in said slideway and slotted to receive said spindle, said slide having an annularly grooved stud at its lower end, a pitman connecting said crank pin to said slide, a tool holder support mounted on said stud for rotative adjustment and having a set screw engaging said groove for securing said support in its adjusted position, said support having a downwardly facing recess in the bottom thereof with a tool holder rest at the forward end of the recess, a tool holder pivotally mounted in said recess to normally engage said rest, and a spring acting to yieldingly hold said tool holder against said rest but permitting it to swing therefrom on the up-stroke of the tool.

1,661,510. FLOOR-TREATING MACHINE. EDMUND SPROSTON, Winnipeg, Manitoba, Canada. Filed Mar. 27, 1926. Serial No. 98,049. 10 Claims. (Cl. 91—39.)

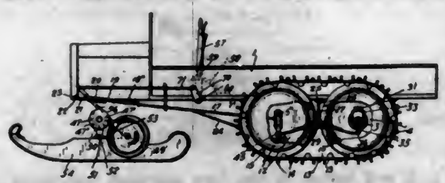
4. A floor treating machine comprising a casing, adjustable wheels supporting the same, a driving motor mounted on the casing and presenting a driving shaft extending downwardly into the casing, a counter shaft rotatably mounted within the casing, cranks secured thereto, a worm on the motor shaft, a gear wheel secured to the counter shaft and meshing with the worm, a plurality of similar parallel guide members contained within and passing from the front to the back of the casing, similar carriages slidably mounted on the guide members, a link pivotally connecting each carriage with a crank on the crank shaft and floor working members detachably secured to the carriages.

9. In a floor treating machine the combination of a liquid reservoir, a fountain reciprocating tool movable relative to said reservoir and equipped with a liquid receiving chamber and a hollow tube passing through said



tool and supporting the same for reciprocating movement, said tube having a liquid inlet communicating with the reservoir and a liquid outlet communicating with the liquid receiving chamber of the tool.

1,661,511. AUTOMOBILE SLEIGH. FRANK JOSEPH STEFFLER, Teeswater, Ontario, Canada. Filed Feb. 26, 1927. Serial No. 171,209. 1 Claim. (Cl. 180—5.)



In an automobile sleigh, the combination with the body, tractor wheels thereof, front axle and an inner hub plate at each end thereof, of outer hub plates spaced from each inner plate, bracket members inserted between the inner and outer hub plates, lugs depending therefrom, sleigh runners, a pivotal connection between the lower ends of the lugs and the runners, a lifting arm secured between the hub plates, a lifting wheel at the lower end of the arm, and manually operated means connected to the upper end of the lifting lever for turning the hub plates to simultaneously carry the lifting wheel into engagement with the roadway and the runners out of engagement.

1,661,512. OIL-WELL-CLEANING COMPOSITION. FRANCIS DALY SULLIVAN, Memphis, Tenn. Filed July 23, 1924. Serial No. 727,718. 5 Claims. (Cl. 87—5.)

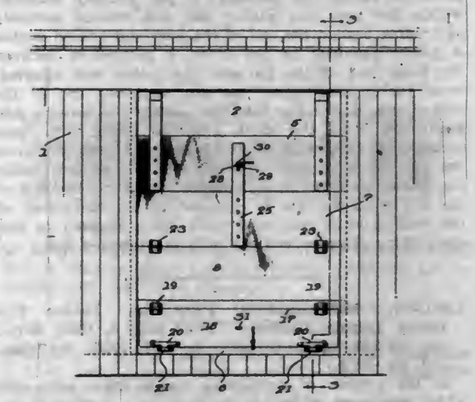
1. An oil well cleaning composition comprising caustic soda, aluminum powder, sodium bicarbonate, soap powder, saponin, and citric acid.

1,661,513. TEE-FORMING BLANK. ERMAN N. SWETT, South Sioux City, Nebr. Filed Sept. 30, 1927. Serial No. 222,995. 4 Claims. (Cl. 273—33.)



1. A blank from which to form a tee, said blank having curved inner and outer peripheral edges, ends adapted to be overlapped to form a frusto-conical tee, a disk integral with the inner edge of the blank and adapted to assume an inverted cone-shape when said ends are overlapped, and means for connecting said ends with each other when overlapped.

1,661,514. GRAIN-CAR DOOR. HERMAN C. TORDSEN, Lakefield, Minn., assignor of one-half to E. J. Stotereau and Fred K. Gage, Lakefield, Minn. Filed Apr. 17, 1926. Serial No. 102,804. 2 Claims. (Cl. 20—31.)

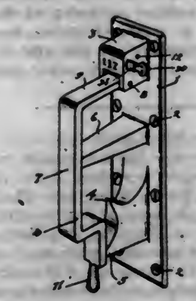


1. The combination with a structure having a door opening, and a trackway, of a door mounted to travel upon the trackway, said door comprising upper and lower sections and a pair of intermediate sections, the upper and lower sections being hinged to the respective intermediate sections on the inside and the intermediate sections being hinged to each other on the outside, and a lever fixed to the outer side of the upper intermediate door section and having a portion serving as a handle adapted to overlap upon the upper and lower door sections in the unfolded and folded positions of the door respectively, and means for securing said handle end of the lever to said upper and lower door sections.

1,661,515. PROCESS OF PRINTING IN GREASY INKS WITH GELATIN PRINTING SURFACES. OTTO TREICHEL, Berlin, Germany. Filed Nov. 30, 1926, Serial No. 151,826, and in Germany Dec. 18, 1925. 4 Claims. (Cl. 41—41.5.)

2. In the process of printing with greasy inks on gelatin printing surfaces, the step consisting in treating the gelatin with a substance having the property of reducing or delaying the swelling of the gelatin.

1,661,516. SAFETY HANGER. SAMUEL S. VINEBERG, Winnipeg, Manitoba, Canada. Filed June 23, 1923, Serial No. 647,368, and in Canada Feb. 12, 1923. 6 Claims. (Cl. 211—4.)



6. A safety hanger, comprising a permanently mounted body plate presenting a garment supporting post and a housing above the post, a substantially L-shaped lever having the upper end pivotally mounted and terminating within the housing and the lower end normally crossing

the free end of the post, a pivoted spring pressed catch contained within the housing and engageable with the upper end of the lever and adapted when engaged to lock the lever against movement, a rocker arm pivotally mounted within the housing, a pin slidably mounted within the post and having one end thereof normally protruding beyond the end of the post and housed within a pocket provided in the lever, a connection between the inner end of the pin and the rocker arm adapted, upon the in shifting of the pin, to lower end of the rocker arm, and a key insertible within the housing and engageable with the catch and the rocker arm, said rocker arm permitting of the insertion of the key upon the pin being pressed inwardly by the apparel under the influence of the lever and preventing the removal of the key when the pin is extended within the pocket of the locking lever, and said catch being adapted to lock the locking lever by contact with the inserted key.

1,661,517. METALLIZING PROCESS. JULIUS VON BOSSE, Leipzig, Germany. Filed May 6, 1926, Serial No. 107,258, and in Germany May 27, 1925. 2 Claims. (Cl. 91—68.1.)

2. The process of metallizing textile fibres with gold which comprises subjecting the fibres in a vacuum to the action of a cooled radiating gold plated cathode.

1,661,518. GRID BAR FOR FIBER-TREATING MACHINES. MORRIS WEHLI, Basel, Switzerland. Filed Aug. 18, 1926, Serial No. 130,060, and in France Jan. 28, 1926. 2 Claims. (Cl. 19—105.)

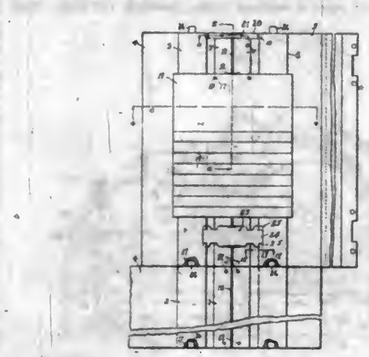


1. A grid for scutchers, beaters, carding machines and the like, embodying grid bars which, in order to allow the incoming streams of air to pass through the spaces between the bars without eddying and without the occurrence of dead spaces, have their inside portions, between the top and bottom edges thereof, constructed with a stream-line surface producing an increase in the cross-sectional area of said grid spaces, so that between the entry of the streams into the grid and their exit therefrom a reduction in velocity and a drop in pressure take place.

1,661,519. SHEET OR CARD HOLDER. GEORGE P. WIGGINTON, Kalamazoo, Mich., assignor to Office Equipment Patents Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1926. Serial No. 151,093. 23 Claims. (Cl. 129—16.)

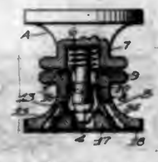
18. An apparatus of the class described comprising a plurality of supports provided with ways open at their ends, coacting aligning means on said supports whereby the ways may be brought into alinement, a plurality of sheet holders slidable in said ways whereby the holders may be slid from one support to another, and a holder-retaining member removably associated with said ways.

23. In an apparatus of the class described, the combination of a support provided with a way, a plurality of sheet holders slidably engaged in said way and provided with sheet-attaching means arranged in non-overlapping relation to adjacent holders, and a follower slidable in



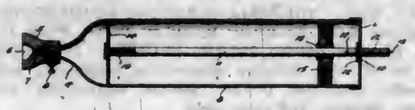
said way to coact with said holders, said follower being adapted to lie beneath the sheet mounted on the adjacent holder when in coacting relation thereto.

1,661,520. CUFF BUTTON. GERHARD WULLUM, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,885. 3 Claims. (Cl. 24—110.)



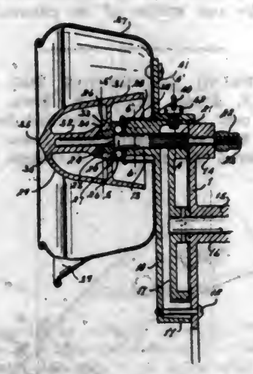
1. A cuff button of the type described comprising a male member, a head portion for said male member, said male member having an arcuate-shaped groove adjacent said head portion, a female member having an arcuate-shaped groove extending downwardly therein, a sleeve carried by said female member, a retaining member integral with said sleeve and receivable in said groove, and retaining lugs receivable in the recess in said male member for locking said male member to said female member.

1,661,521. HIGH-PRESSURE GREASE GUN. HENRY A. ZIMMERMAN, Logansport, Ind., assignor of one-half to Merl M. Wall, Logansport, Ind. Filed May 2, 1927. Serial No. 188,275. 3 Claims. (Cl. 221—47.3.)



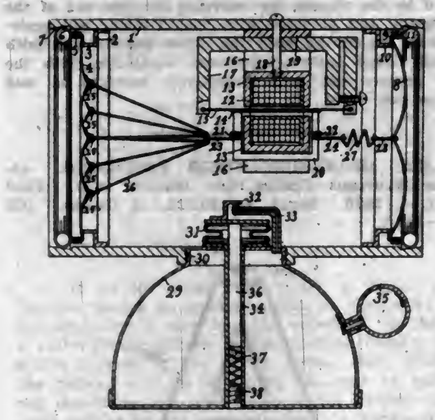
3. A grease gun comprising an elongated cylinder having a grease outlet at its front end and provided at its rear end with a cap having a central opening, a rod extending along the longitudinal central portion of said cylinder and passing through said opening, said rod being secured to said cap for removal bodily therewith, a piston slidable on said rod, the rear portion of the latter being formed with a longitudinal port for admitting fluid under pressure between the piston and cap, and an apertured plate secured to the front end of said rod and extending across the cylinder to limit the forward movement of the piston and to withdraw the latter from the cylinder when the rod is withdrawn, the front portion of said rod having a longitudinal port to conduct pressure from behind the piston into the part of the cylinder in front of said plate when said piston reaches the limit of its forward travel.

1,661,522. FRUIT-JUICE EXTRACTOR. MATTHEW BAILLIE, Winnipeg, Manitoba, Canada. Filed Jan. 5, 1926, Serial No. 79,395, and in Canada Nov. 10, 1925. 2 Claims. (Cl. 146—3.)



1. In a fruit juice extractor, a rotary reamer presenting a flaring skirt and a stationary juice collector surrounding the reamer and having the one side open and the other side closed and the closed side provided with a sleeve extending into the skirt and provided at the inner end with an out turned flange.

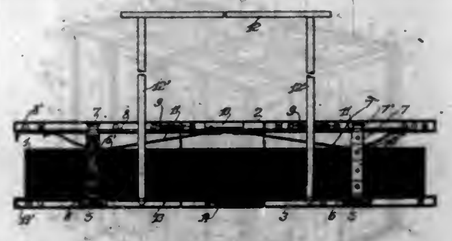
1,661,523. ACOUSTIC DIAPHRAGM AND LOUD-SPEAKER COMBINATION. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed Apr. 2, 1926. Serial No. 99,294. 10 Claims. (Cl. 179—108.)



4. An acoustic diaphragm having unequal pneumatic pressure on opposite sides, pneumatic means to counterbalance the excess pressure, and an electrically operated armature operatively connected to said diaphragm.

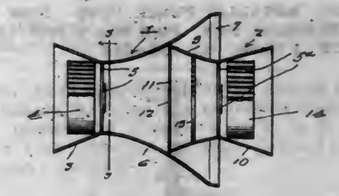
1,661,524. LOOSE-LEAF BINDER. PAUL BAUMER, Frauenfeld, Switzerland. Filed May 17, 1927, Serial No. 192,024, and in Switzerland May 22, 1926. 6 Claims. (Cl. 129—8.)

1. A loose-leaf binder, comprising in combination, a lower clamping member, an upper clamping member, extensible holding members fixed in the lower clamping member, means adapted to fix the upper clamping member to said holding members, a stirrup whose shanks pass through the upper clamping member, and means to fix said shanks in the lower clamping member, the leaves to



be inserted having unslotted perforations through which said holding members pass and slotted apertures for engaging with said guide members.

1,661,525. TONE MODIFIER. WILLIAM DEERFOOT, Iowa City, Iowa. Filed July 27, 1926. Serial No. 125,275. 6 Claims. (Cl. 181—27.)



3. As a new article of manufacture, a tone modifier for disposition in a horn, said modifier embodying telescopically connected parts, each of which includes oppositely flared portions, and means arranged in the flared portions of the respective parts for intercepting the sound waves to modify and subdue the same to render foreign noises less noticeable.

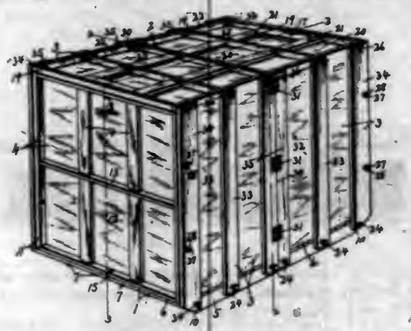
1,661,526. PROCESS OF REFINING LIGHT METALS SUCH AS MAGNESIUM OR ALUMINUM OR THEIR ALLOYS AND RECOVERING SUCH METALS FROM SCRAP. ADOLF BECK, Bitterfeld, Germany, assignor to the Firm I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Apr. 4, 1927, Serial No. 180,991, and in Germany Jan. 15, 1926. 1 Claim. (Cl. 75—17.)

The process of refining light metals such as magnesium or aluminum or their alloys, which comprises melting the impure metal to be treated, adding calcium chloride and calcium fluoride in such proportions that the proximity of the eutectic point—82% of calcium chloride to 18% of calcium fluoride—is avoided, stirring the mixture and separating the molten metal from the foreign substances.

1,661,527. COLLAPSIBLE SHIPPING BOX. JOHN HENRY DE BOER, Syracuse, N. Y. Filed Nov. 20, 1924. Serial No. 751,074. 1 Claim. (Cl. 217—48.)

In a collapsible shipping box composed of separably connected sections, a bottom section having a floor and underlying shipping bars therefor, opposite upright side sections each comprising two substantially equal parts hingedly connected together and having their lower edges overlying upon the outer faces of the bottom section, opposite upright end sections rising from corresponding ends of the bottom section, a top section mounted upon the upper edges of the end sections and having opposed outer faces overlaid by the upper edges of the side sections said side sections, end sections and

the top section being provided with inner linings coextensive with the areas thereof, clamping devices for connecting and disconnecting the side and end sections



to the bottom section and additional clamping devices for connecting and disconnecting the top section to the side and end sections.

1,661,528. METALLIC FENCE POST. JOHN W. DUNLAP, Maquoketa, Iowa. Filed May 4, 1927. Serial No. 188,752. 1 Claim. (Cl. 256—58.)



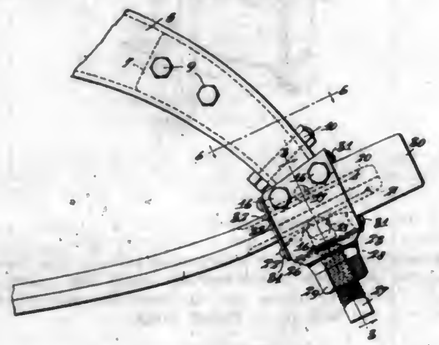
In a metallic fence post, a body portion having a forward flange and lateral flange, said forward flange having notches extending upwardly at oblique angles and downwardly at oblique angles, terminating in vertical downwardly extended portions, said forward flange having a lower lock notch extending inwardly from the outer edge thereof and terminating in an elongated upwardly extended portion, said notches adapted to receive wires of a wire mesh fence, the wires being stretched to points within the notches.

1,661,529. SCOW. ROBERT ELWOOD ELLIS, Seattle, Wash., assignor to Edgar Ames, Seattle, Wash. Filed Dec. 18, 1924. Serial No. 756,636. 7 Claims. (Cl. 114—79.)



1. A steel scow, barge or like vessel embodying a hull, square in vertical cross section at all transverse planes, said hull being composed of channel shapes, the flanges of which are secured together, said shapes in the bottom being of sectional formation the sections having their ends in spaced relation longitudinally and terminating in given lines transverse to the ship; and a connecting plate disposed transversely of the hull in a plane parallel to the hull to which the end portions of said channel shapes are secured, whereby drainage of all liquids in said bottom is provided, and difficulties due to varying lengths and widths of the channel shapes are obviated.

1,661,530. SPRING SUSPENSION FOR VEHICLES. MARSHALL S. FIELD, Davenport, Iowa, assignor of twenty per cent to John C. Mohl and forty per cent to Charles H. Suiter, Davenport, Iowa. Filed Jan. 8, 1927. Serial No. 159,842. 4 Claims. (Cl. 267—54.)



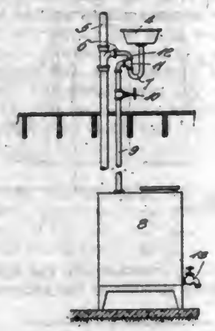
1. A spring suspension for vehicles, comprising in combination, a vehicle chassis, a leaf spring having adjacent its free end a pair of grooves extending longitudinally along the upper face thereof and a single groove extending longitudinally along the under face thereof and disposed centrally of the upper grooves, a housing carried by the chassis for receiving the free end of the leaf spring and provided with spaced upper ball-receiving seats registering with the upper grooves and with a single lower ball-receiving seat registering with the lower groove, and balls respectively mounted in said grooves and seats.

1,661,531. GLASS-SIGN-LETTER FASTENING. ALBERT HAMILTON FORDER, Los Angeles, Calif. Filed Mar. 4, 1926. Serial No. 92,322. 2 Claims. (Cl. 40—141.)



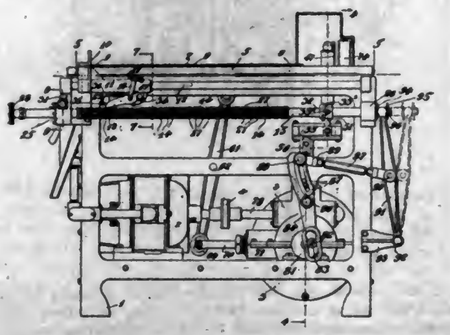
1. As a new article of manufacture, a sign letter composed of vitrified material, an integral lug projecting outwardly from the edge of the body of the sign letter, which lug is provided in its edge with an arcuate screw receiving notch, the entire face of which is beveled whereby the head of a screw that is seated in said notch will be forced away from the lug as a result of contact with said beveled face.

1,661,532. WATER AND SOAP SAVING DEVICE. JENNY BRAASCH FORTAIN, Redondo Beach, Calif. Filed Oct. 29, 1927. Serial No. 229,726. 3 Claims. (Cl. 182—1.)



1. In combination with a plumbing fixture, a stack, and a waste pipe from fixture to stack embodying a trap; a closed water-collecting tank below said trap, and piping leading from said trap to said tank, said piping communicating with the trap at a point between said fixture and the outlet end of said trap, whereby water from the fixture will descend through said piping until the tank and piping are full and will thereafter travel on through the waste pipe to the stack.

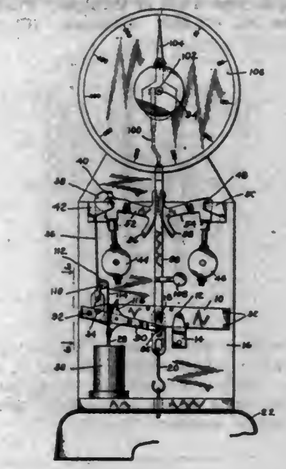
1,661,533. ICE-CREAM-BRICK CUTTER. AMOS F. GANTZ, Cedar Rapids, Iowa. Filed Dec. 15, 1924. Serial No. 756,063. 11 Claims. (Cl. 107—21.)



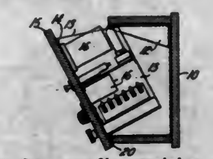
10. In an ice cream brick cutter, a frame; a table thereon; means for guiding a slab on the table; means for imparting a step by step movement to the slab; a cutter frame slidable in the machine frame; vertical guides carried by the cutter frame; rods slidable in the guides; a knife carried by the rods; a horizontal rod connecting the lower ends of the vertical rods; a block carried by the horizontal rods; a horizontal guide embracing the block; a vertical follower supporting the guide; a rocker arm connected at one end with the cutter frame; a horizontal follower connected with the other end of the rocker arm; a rotatable cam adapted to impart intermittent reciprocatory motion to the vertical and horizontal followers, and means for rotating the cam.

1,661,534. PENDULUM SCALE. WILLIAM N. GILBERT, Hudson Heights, N. J., assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Jan. 12, 1926. Serial No. 80,727. 5 Claims. (Cl. 265—62.)

1. In an automatic weighing scale, in combination, a main lever, a bifurcated auxiliary lever arranged with one fork on each side of said main lever, means for actuating said auxiliary lever by direct pivotal connection to said main lever, an indicator, and means for actuating said indicator from said auxiliary lever.

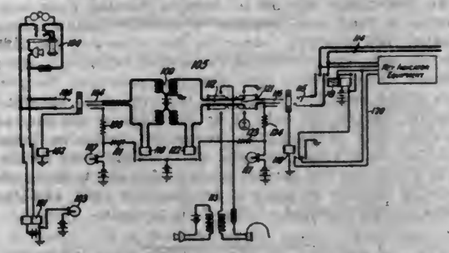


1,661,535. ELECTRIC SHIELDING. ARTHUR HADDOCK, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 22, 1924. Serial No. 745,323. 6 Claims. (Cl. 250—14.)



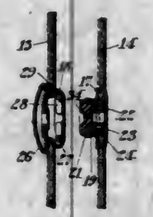
1. A cabinet for a radio receiving set comprising a container lined with shielding material, a closure therefor, shielding material on the inner face of said closure, means for supporting the receiving apparatus carried by said closure, and shielding flanges upon the container and closure.

1,661,536. TELEPHONE-EXCHANGE SYSTEM. WILLIAM C. JORDAN, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1927. Serial No. 166,637. 8 Claims. (Cl. 179—27.)



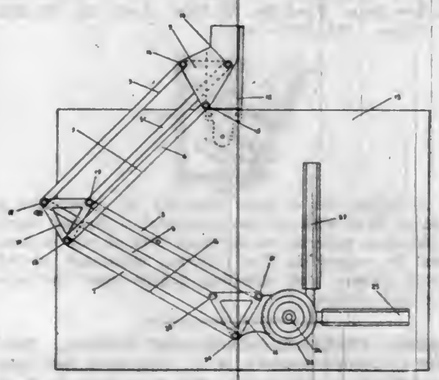
1. In a telephone exchange system, a machine switching office, an operator's position thereat, a two-way line extending from a remote point and terminating at said operator's position, intercepting terminals individual to said line appearing in the banks of selector switches, means for extending a connection to said line comprising means for causing a selector switch to connect with said switch terminals, and means at said operator's position for connecting said terminals with said line.

1,661,537. FASTENER. ARCHER L. KNAPP, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 30, 1923. Serial No. 635,469. 5 Claims. (Cl. 24—208.)



1. The combination with a fastener comprising a hollow male member and a female member adapted to co-operate therewith, of a resilient plug secured in the hollow male member and projecting axially and radially therefrom to cushion the female member.

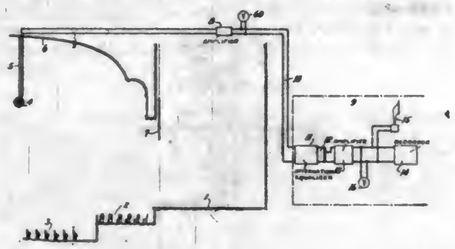
1,661,538. UNIVERSAL PARALLEL DRAFTING DEVICE. MANLIO MARZETTI, Milan, Italy. Filed Dec. 17, 1924, Serial No. 756,519, and in Italy Dec. 20, 1923. 1 Claim. (Cl. 33—79.)



An instrument for use in drawing parallel lines comprising a fixed base triangle, a second triangle, three parallel rods pivotally connecting the corners of the base triangle with the corners of the second triangle, a third triangle, three parallel rods pivotally connecting the corners of the second triangle with the corners of the third triangle, two of the rods of at least one of the sets of parallel rods between the respective triangles being mounted in the same plane and the third rod being mounted in a different but parallel plane to permit the said rods to swing through an angle of substantially 180°, and line ruling means mounted on the third triangle.

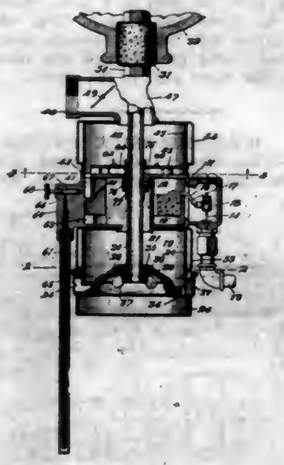
1,661,539. PHONOGRAPH SYSTEM. JOSEPH P. MAXFIELD, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 2, 1923. Serial No. 666,148. 3 Claims. (Cl. 179—100.1.)

1. A reproducing or phonograph recording system, comprising an electric circuit including a reproducer or recorder and a pick-up device, the said pick-up device being located in such a position in the auditorium with respect to the sound source that the sound wave effect



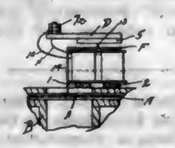
at said device will be substantially the same as that received by the average member of the audience.

1,661,540. AIR WASHER AND CARBURETOR. HERBERT MCCORNACK, Glen Ridge, N. J. Filed Sept. 2, 1921. Serial No. 498,110. 2 Claims. (Cl. 261—79.)



2. In a carburetor, the combination of a vessel within which the air is cleansed and moistened, an intermediate chamber connected with said vessel, a carbureting chamber connected with said intermediate chamber, a conduit connected with said carbureting chamber, a feed pipe for the cleansing and moistening liquid extending through said conduit, carbureting chamber, intermediate chamber and vessel, and means co-operating with said pipe for clamping said parts in cooperative relation.

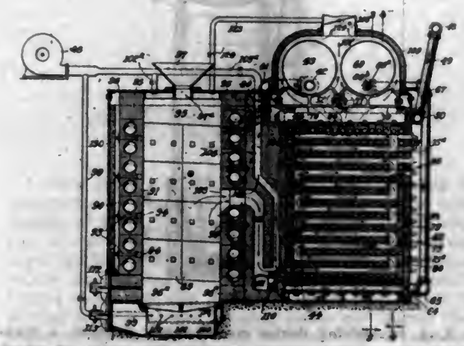
1,661,541. LOUD SPEAKER. ULRUS H. MCNEIL and FRANCIS G. PEARCE, Woods Cross, Utah. Filed Jan. 15, 1927. Serial No. 161,816. 2 Claims. (Cl. 179—119.)



1. In a loud speaker the combination of a base, having a diaphragm mounted therein; pole pieces riveted to said base; a permanent magnet superimposed over said pole

pieces and held in contact therewith by bolts; bolts secured in said base and passed through said pole pieces and on which nuts are provided to hold the entire assembly together; a non-conductor plate over the ends of said magnet and holding said magnet to said pole pieces by the pressure exerted by the bolts and nuts thereon and therethrough; cores secured on said pole pieces and carrying electromagnets; an armature suspended from said non-conductor by spaced apart pins and said armature held directly over said electromagnets; and a pin connecting said armature with said diaphragm.

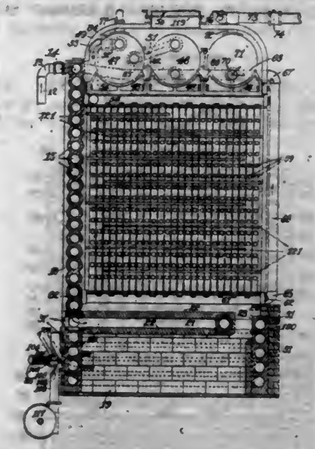
1,661,542. STEAM GENERATOR. HENRY A. NICHOLSON, Arkles Bay, Auckland, New Zealand, assignor to Ernest A. Craig, Auckland, New Zealand. Filed Mar. 24, 1919. Serial No. 284,657. 9 Claims. (Cl. 122—5.)



1. The combination of a pump, a system of continuous high pressure fluid piping through which the fluid is forced only once by the pump, and means to heat the piping sufficiently to heat the fluid above the boiling point, pressure maintaining means being provided at the delivery end of the system to restrain the heated fluid against undue speed of discharge; said heating means comprising a preheating furnace surrounded by a coil of said piping of relatively large diameter and into which the water is first pumped by said pump, and a secondary heating furnace to one side of the preheating furnace, with coils of piping of very much smaller diameter to sub-divide the stream of fluid into small streams communicating with said first mentioned coil of piping and extending back and forth in the secondary furnace from the coolest to the hottest portion of the furnace.

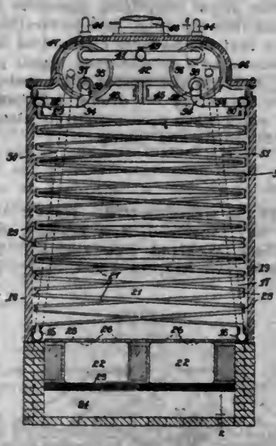
1,661,543. STEAM GENERATOR. HENRY A. NICHOLSON, Arkles Bay, Auckland, New Zealand, assignor to Ernest A. Craig, Auckland, New Zealand. Filed June 24, 1919. Serial No. 306,398. 6 Claims. (Cl. 122—356.)

1. A steam generating apparatus comprising a combustion chamber with a continuous coil of large diameter extending around the sides thereof, a bridge above the chamber with a large coil extending back and forth therethrough and connected at one end with the combustion chamber coil, coils of pipe of smaller diameter extending downwardly and terminating just above the bridge, a water drum between the large and small coils and a steam drum into which the smaller coils deliver, said coils being all connected at their entrance ends with the large combustion chamber and bridge coils, and means



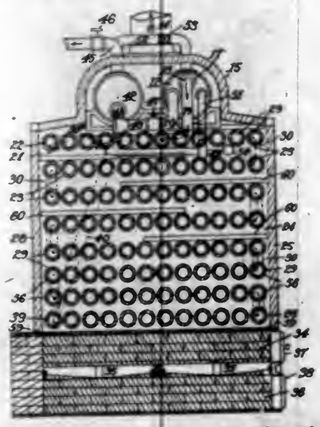
to force fluid only once first through the large coils, and thence through the small coils into the steam drum.

1,661,544. STEAM GENERATOR. HENRY A. NICHOLSON, Arkles Bay, Auckland, New Zealand, assignor to Ernest A. Craig, Auckland, New Zealand. Filed June 24, 1919. Serial No. 306,399. 3 Claims. (Cl. 122—350.)



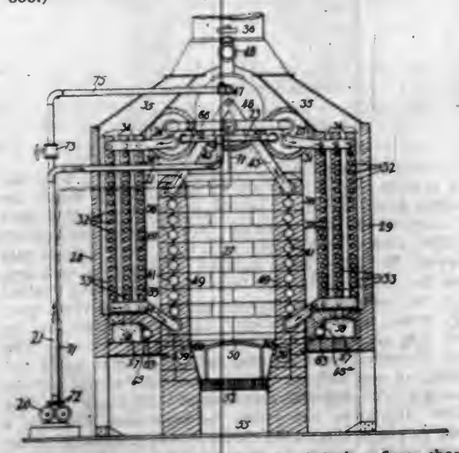
1. A boiler comprising a combustion chamber, distributing headers one at each side of said chamber, means for feeding water directly to one of said headers, a grid work of sections of tubes forming coils crossing each other in said chamber and connected at their lower ends to said headers, the tubes being inclined upwardly in each section, the upper end of each length of tubing being coupled with the lower end of the next length, leaving clear openings across the flame chamber, collecting headers one at each side near the top of said combustion chamber, and each connected to said coils, the coils beginning at the header on one side of the chamber and ending at the header on the opposite side thereof, and being the only water circulating connection between said headers, a drum on either side of the chamber connected to an upper header and to which the heated water is delivered from said header, and a return means from each drum to the header on the same side of the boiler as is the drum.

1,661,545. STEAM GENERATOR. HENRY A. NICHOLSON, Arkles Bay, Auckland, New Zealand, assignor to Ernest A. Craig, Auckland, New Zealand. Filed June 24, 1919. Serial No. 306,400. 8 Claims. (Cl. 122—258.)



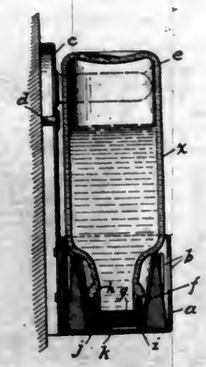
1. In a steam generator, the combination of a system of tubing and a drum connected therewith, a pump for forcing fluid only once at high pressure through the system in a single direction, means for heating the fluid to high temperature as it advances, a low pressure service steam drum, and a converter connected to the delivery end of the system of tubing and having a portion extending within the steam drum, said converter having within said drum means for converting the high pressure fluid into low pressure steam comprising numerous small perforations opening into the drum, said perforations of such small dimension that the pressure of the fluid in the converter is maintained at a substantially higher point than the pressure of steam in the service drum, and upper and lower pipes for connecting the drums, said pipes having valves therein which when open permit circulation of the fluid through the drums and tubing.

1,661,546. STEAM GENERATOR. HENRY A. NICHOLSON, Arkles Bay, Auckland, New Zealand, assignor to Ernest A. Craig, Auckland, New Zealand. Filed Aug. 13, 1919. Serial No. 317,135. 15 Claims. (Cl. 122—355.)



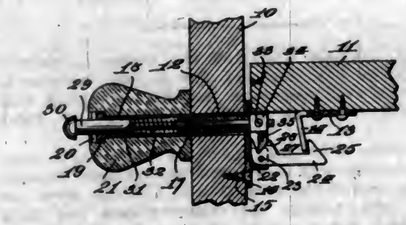
4. A steam-generator having an interior flame-chamber, the latter comprising front, rear and side walls, each side wall containing a coil of piping, said coils together with additional coils forming a pipe system, a pump to force fluid under high pressure only once in a single direction through said system, and a steam-drum at the delivery end of said pipe system, flame-passages being provided over the top and down alongside of said side walls, so that the latter are heated on both sides, and so that the flames and hot gases may have access to said additional coils; and provision being made at the terminal end of the piping system for converting any remaining water of the highly heated high-pressure pent-up advancing fluid into steam, the coils in said walls constituting the terminal portion of the piping system.

1,661,547. DEODORIZING DEVICE. EUGENE J. REEFER, Philadelphia, Pa., assignor to Reefer's No-Moth, Inc., Philadelphia, Pa., a Corporation of New York. Filed July 18, 1927. Serial No. 206,588. 2 Claims. (Cl. 299—23.)



2. A deodorizing device comprising a support, a truncated cone-shaped porous annulus the walls of which are of inverted, V-shaped cross-section carried by said support, said annulus having inner inclined walls arranged to receive the neck of a bottle, said annulus having an aperture in its bottom, an apertured strip of blotting paper fixed across said annulus bottom, an apertured felt member superimposed upon said strip of blotting paper, an inverted bottle having its neck disposed in said annulus which bottle neck is wedged within said truncated annulus for supporting purposes, and a cap closing the mouth of said neck, said blotting paper, pad, and bottle cap closure having minute apertures therethrough in vertical alignment with the annulus aperture whereby the tapering top of said annulus may quickly absorb material within said bottle.

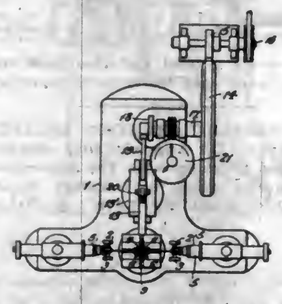
1,661,548. DOOR LATCH. THOMAS F. STUART and HENRY A. MOORE, Los Angeles, Calif. Filed Mar. 25, 1926. Serial No. 97,193. 2 Claims. (Cl. 292—127.)



1. The combination with a door in which is formed an aperture, of a tubular member passing through said aperture, a second tubular member screw-seated on the first-mentioned tubular member, a knob detachably

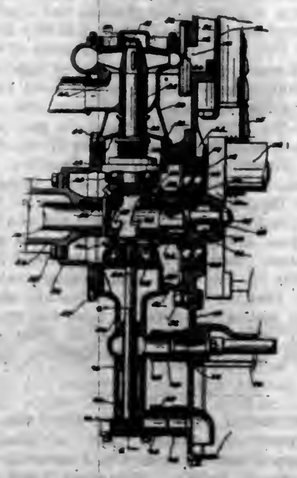
mounted on the second-mentioned tubular member, a plate carried by the first-mentioned tubular member and secured to the inner face of the door, a hook pivotally mounted on said plate and provided near its pivot point with a notch, a spring-held push rod arranged for sliding movement through the tubular members, a block adjustably mounted on the inner end of said push rod and a finger carried by said block and projecting into the notch in said hook.

1,661,549. PAPER-TESTING MACHINE. CASPER R. TAYLOR, Washington, D. C., assignor to Foreign Paper Mills, Inc., a Corporation of New York. Filed Sept. 20, 1927. Serial No. 220,708. 2 Claims. (Cl. 73—51.)



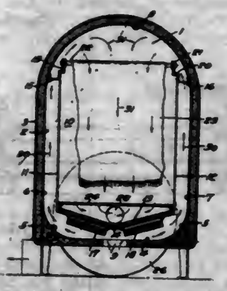
1. In a paper testing machine, means for gripping the extremities of a test strip of paper, said means being capable of movement toward and away from each other and of oscillation about a horizontal axis and having lower guiding surfaces of substantial width, resilient means for resisting movement of said gripping means toward each other, and horizontal rollers upon which the guiding surfaces of said gripping means rest during their reciprocatory movement, said rollers being of sufficient width to prevent oscillation of said gripping means.

1,661,550. INTERNAL-COMBUSTION ENGINE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 2, 1924. Serial No. 690,328. 11 Claims. (Cl. 123—195.)



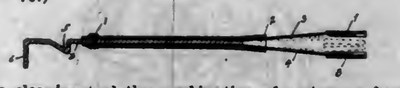
1. In an internal combustion engine, the combination with a crankcase having a bearing in one end, and a crankshaft mounted in said bearing and projecting therethrough beyond the crankcase, of a casing detachably secured to the crank case and surrounding the projecting end of said crankshaft, said casing having aligned openings above and below the crankshaft end, a bracket secured to the casing in each of said opening, and shafts in said brackets geared to said crankshaft.

1,661,551. APPARATUS FOR DRYING LAUNDRY. PHILIP F. APPEL, Seattle, Wash. Filed May 25, 1925. Serial No. 32,632. 4 Claims. (Cl. 34—19.)



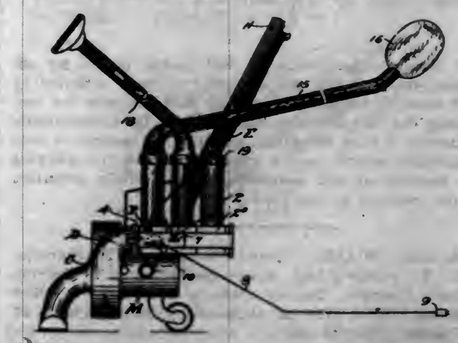
1. A laundry drying apparatus comprising a heat insulated chamber having an air inlet in the bottom thereof, a second chamber within said first chamber and in communication therewith at the upper portion thereof only, rails adjacent the upper portion of said first chamber, a carriage adapted to suspend articles to be dried mounted on said rails, and means for circulating air thru said chambers in series.

1,661,552. CLEANING TOOL. TILLMAN C. BABBITT and CLARENCE E. HOFFENBECK, Salt Lake City, Utah. Filed Mar. 6, 1926. Serial No. 92,971. 1 Claim. (Cl. 137—70.)



In a cleaning tool the combination of a stem; a handle portion bent in one end thereof; two rods attached to the other end thereof; a gripping scoop attached on the free ends of each rod; a slidable housing carried on said rods and said stem; a flatened portion on one end of said housing to fit said two rods and hold them in fixed relation diametrically to each other; and a reducer secured on the other end of said housing having the inner hole the same size as the stem and of a smooth bore.
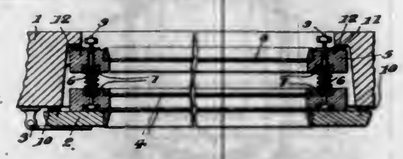
1,661,553. VACUUM-CLEANER ATTACHMENT. LOUIS BAAR, Los Angeles, Calif. Filed Mar. 19, 1927. Serial No. 176,763. 2 Claims. (Cl. 219—42.)



1. An attachment for vacuum cleaners whereby the output air may be regulated in volume and heated, and including a horizontal hollow body attachable to the

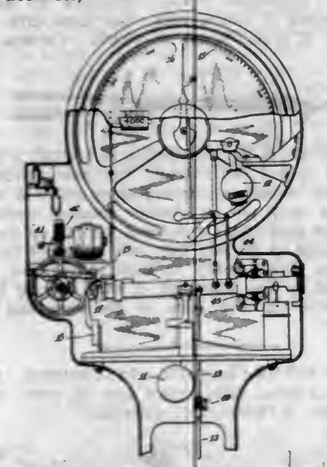
cleaner outlet, a series of independent, radial tubes adjustably mounted on said body to receive air therefrom and having electric heating coils, flexible discharge pipes attached to the tubes for various distribution of the heated air, and switch and rheostat means mounted on said body for control of current to said coils and to regulate speed of the cleaner motor.

1,661,554. DOOR CLOSURE. GEORGE F. BANTA, Clearfield, Pa., assignor of one-half to Len A. Banta and one-half to Frederick B. Kerr, Clearfield, Pa. Filed May 11, 1927. Serial No. 190,621. 6 Claims. (Cl. 20—16.)



1. A closure of the character described including independent sections having the frames thereof entirely disconnected from each other, means for limiting the outward movement of each section relative to the other, and resilient means interposed between said sections normally tending to hold the sections in spaced apart relation.

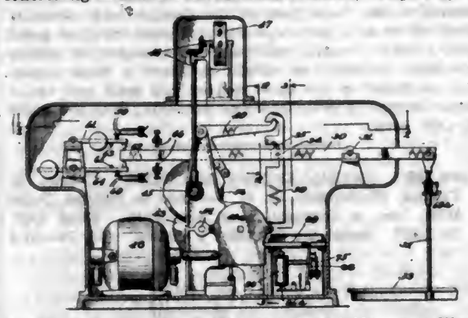
1,661,555. SCALE. JAMES W. BRYCE, Binghamton, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed May 12, 1921. Serial No. 468,834. 26 Claims. (Cl. 265—48.)



1. In a weighing scale, a scale beam, means for offsetting the load thereon, electrical contacts actuated by said beam, a circuit governed by said contacts for controlling the load offsetting means, means for automatically initiating a load offsetting operation by means of said controlling circuit, and a retarding device for delaying the response of said controlling circuit to the actuation of the contacts by the beam.

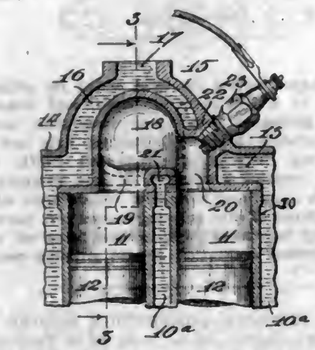
1,661,556. SCALE. JAMES W. BRYCE, Binghamton, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed May 12, 1921. Serial No. 468,836. 35 Claims. (Cl. 265—48.)

1. A weighing scale comprising, in combination with a main scale beam having a connected load support, load offsetting weights, means for applying one or more of said weights to the beam to offset the applied load, and controlling means for the aforesaid means, comprising a



device which exerts a fixed and invariable controlling force upon the beam when the latter is overbalanced.

1,661,557. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Co., Los Angeles, Calif., a Voluntary Trust. Filed Jan. 8, 1925. Serial No. 1,176. 2 Claims. (Cl. 123—53.)

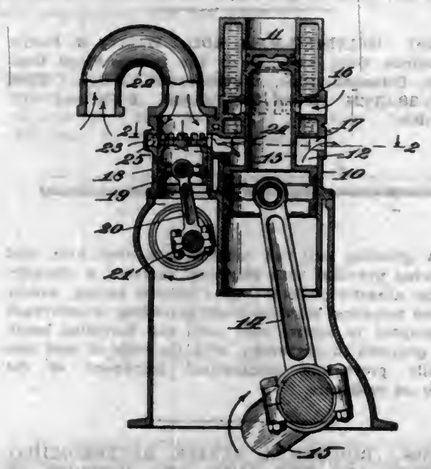


1. In an internal combustion engine, the combination with a pair of combustion cylinders, the axes of which are parallel, of a head closing the inner ends of the combustion chambers, a common compression and combustion clearance chamber formed in said head inwardly from the surface thereof that is applied to the head ends of the cylinders which common clearance chamber is spherical in form, short parallel ducts formed in said head and connecting the common clearance space with the combustion chambers, the axes of which ducts are parallel with the axes of the combustion chambers, one of which ducts communicates directly with the lower portion of the common clearance chamber, the other duct being offset with respect to the common clearance chamber so that its upper portion communicates directly with the end of said common clearance chamber the greatest width of said common clearance chamber being substantially greater than the widths of the ducts that connect said common clearance chamber with the combustion chambers and an ignition means seated in the head and projecting into the upper end of the duct that is offset relative to the common compression and combustion clearance space.

1,661,558. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Co., Los Anegeles, Calif., a Voluntary Trust. Filed Apr. 2, 1925. Serial No. 20,118. 1 Claim. (Cl. 123—188.)

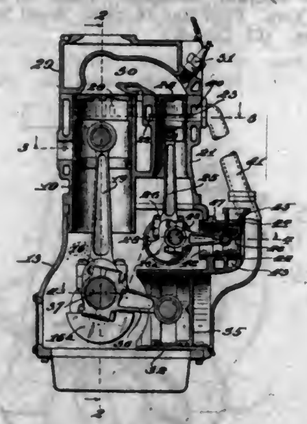
In an internal combustion engine, a piston valve cylinder, open at its upper end for the reception of gaseous

fuel, the wall of said cylinder being provided with an annular chamber having an outlet on one side, the bottom surface of which annular chamber declines toward said outlet, said annular chamber having communication



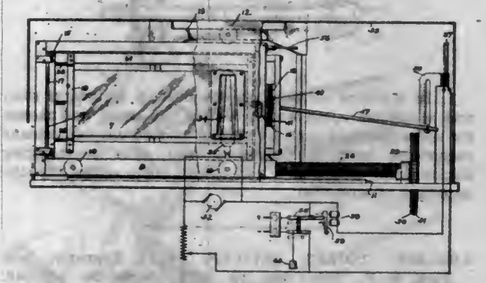
with the chamber within the piston valve cylinder by means of ports formed through the inner portion of the valve cylinder wall and a piston valve arranged for reciprocatory movement within said valve cylinder.

1,661,559. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Co., Los Angeles, Calif., a Voluntary Trust. Filed Nov. 5, 1925. Serial No. 66,964. 2 Claims. (Cl. 123—72.)



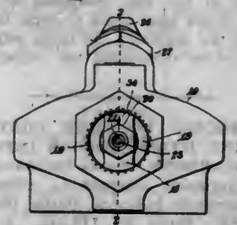
1. In a two stroke cycle internal combustion engine, a power unit comprising a combustion cylinder, a charge volume pump occupying a plane 90° from the plane occupied by the combustion cylinder, pistons arranged for operation within the combustion cylinder and the cylinder of said pump, a crank shaft to which said pistons are connected, a piston valve for controlling the admission of a fresh fuel charge to the pump, a separate piston valve for controlling the admission of a pumped charge volume to the chamber within the combustion cylinder and an auxiliary shaft adapted to operate at the same speed as said crank shaft for actuating said piston valves.

1,661,560. MACHINE FOR PHOTOGRAPHICALLY PRINTING ON CYLINDERS. FRED M. CARROLL, Endicott, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Dec. 12, 1924. Serial No. 755,372. 14 Claims. (Cl. 95—73.)



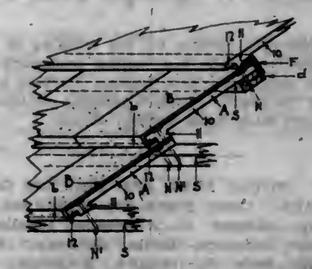
1. In a photographic transfer device, a film carriage, means for supporting a light-sensitive member adjacent to said carriage, means for actuating said carriage and said supporting means in synchronism, and means for adjusting a film carried by said carriage relatively to the carriage while the latter is being actuated.

1,661,561. OILING MECHANISM FOR AIR-ACTUATED DEVICES. CHARLES A. CLAFLIN, Medford, Mass. Filed May 5, 1926. Serial No. 106,836. 19 Claims. (Cl. 184—55.)



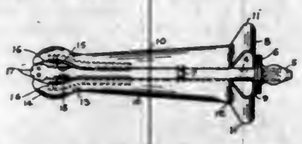
1. The combination of a casing open at opposite ends and provided with an air tube extending lengthwise thereof from a point near its inlet end to its delivery end and surrounded by an oil chamber; a short nozzle centrally disposed in the inlet end of said tube having a relatively small bore extending from end to end thereof through which air may be discharged into said tube; and radial passages in said nozzle for admitting oil from said chamber into the bore of said nozzle.

1,661,562. SHINGLE CONSTRUCTION. GEORGE E. CONWAY, Cresskill, N. J. Filed Nov. 30, 1925. Serial No. 72,124. 9 Claims. (Cl. 108—9.)



1. A strip or inner shingle comprising a body portion and means upstanding from one side of said portion inwardly from a butt edge thereof for spacing the portion adjacent said edge from a supporting structure to form an anchorage for outer superimposed shingles.

1,661,563. DOUCHE AND SYRINGE. FRANK DROSSELMEYER, Jersey City, N. J. Filed Mar. 1, 1926. Serial No. 91,338. 2 Claims. (Cl. 128—244.)



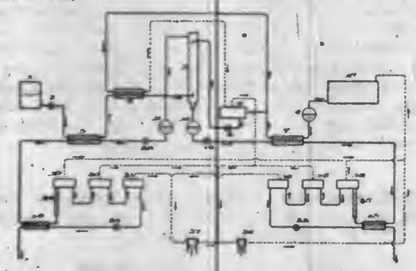
1. In a device of the class described, a segmental shell and a slidable spray nozzle within the same, and means for spreading said shell by sliding said nozzle, said means comprising radially projecting and slidably engaging fingers from said nozzle adapted to force outwardly the segments of said shell.

1,661,564. TOILET ARTICLE. AINA EBBESEN, New York, N. Y. Filed Apr. 19, 1927. Serial No. 185,043. 4 Claims. (Cl. 206—56.)



1. An improved toilet article consisting of a receptacle for cold cream or the like, composed of a continuous piece of paper folded upon itself to form two side walls, a depression in the center of the inner side of each side wall, and means for dispensing the contents of the receptacle.

1,661,565. PROCESS FOR THE CONVERSION OF HIGH-BOILING HYDROCARBONS INTO LOW-BOILING HYDROCARBONS. LAZAR EDELEANU, Berlin-Charlottenburg, Germany, assignor to Allgemeine Gesellschaft fur Chemische Industrie, Berlin, Germany. Filed June 28, 1926. Serial No. 119,242. 3 Claims. (Cl. 196—50.)



1. An improved process for the cracking of high boiling hydrocarbons into low boiling hydrocarbons which consists in submitting to a pressure cracking process the portion of the distillates which remains undissolved after being treated with liquid sulphur dioxide.

1,661,566. MOTOR FUEL AND PROCESS OF REFINING OILS. LAZAR EDELEANU, Berlin-Charlottenburg, Germany, assignor to Allgemeine Gesellschaft für Chemische Industrie, Berlin, Germany. Filed Mar. 24, 1927. Serial No. 178,151. 5 Claims. (Cl. 44—9.)

1. The process of producing motor fuel from hydrocarbon stock containing ingredients boiling between 130° C. and 220° C. by collecting the distillate from fractional distillation below 170° C. treating the residue with liquefied sulphur dioxide to dissolve unsaturated and aromatic hydrocarbon constituents, freeing the extract thus obtained from sulphur dioxide, and adding the freed extract to the distillate.

1,661,567. GRINDING-MILL ROD. WALTER B. FLOYD, Columbus, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 18, 1924. Serial No. 756,855. 2 Claims. (Cl. 83—9.)

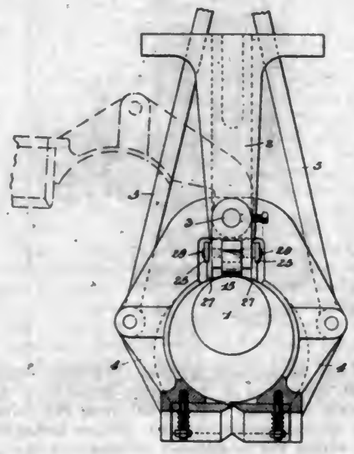


1. A grinding mill rod comprising a steel core, said core being provided with polygonal surfaces, a plurality of high abrasive resistant steel sleeves having axially disposed polygonal sided openings extending therethrough and adapted to receive said core, and fastening appliances provided in connection with the ends of said core normally preventing longitudinal movement of the sleeves on said core.

1,661,568. BIOLOGICAL STAINS, BACTERIOCIDAL AGENTS AND THE LIKE, AND METHODS OF PREPARING THE SAME. RALPH W. FRENCH and WALTER C. HOLMES, Washington, D. C., assignors to William F. Keohan, trustee, Washington, D. C. Filed Feb. 9, 1926. Serial No. 87,166. 16 Claims. (Cl. 260—67.)

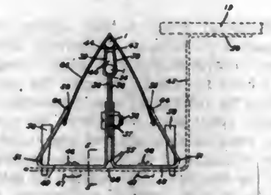
1. A product of the character described comprising the combination of a water-soluble reactive form of a basic dye and a cyclic compound containing acid groups.

1,661,569. BODY-FORMING MACHINE. PAUL H. LANGE, Bridgeport, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a Corporation of New York. Filed May 14, 1926. Serial No. 109,009. 3 Claims. (Cl. 113—8.)



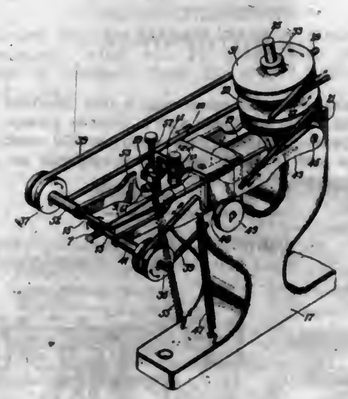
1. Body-forming mechanism including a horn, body-forming members to fold a blank around the horn, a clamping member above the horn and intermediate the body-forming members to engage the blank on the horn before it is acted upon by said body-forming members, gages above the horn and slidingly mounted on the clamp, intermediate the body-forming members to receive the front edge of a blank fed substantially parallel to the axis of the horn, and timed actuating means to move the gages in a direction opposite to that of the feeding movement of the blank and to bring the clamp into engagement with the blank.

1,661,570. TICKET CARRIER. FRANKLIN P. LAWRENCE, Topeka, Kans., and SIDNEY M. HARDAWAY, Kansas City, Mo. Filed July 19, 1923. Serial No. 652,606. 14 Claims. (Cl. 198—129.)



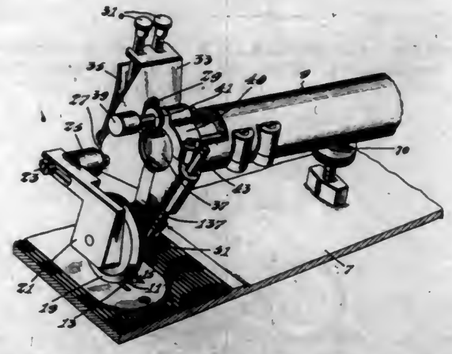
1. In conveying apparatus of the character described, a plurality of sheaves, an endless conveying cable trained thereabout, a supporting member arranged intermediate said sheaves and engaging the under side of one run of said cable in such wise as to permit of placement thereon and movement therewith of a folded ticket with the parts of the latter on opposite sides of the crease depending on each side of said cable, means supported for engagement with the upper side of said ticket to urge the latter toward said cable into frictional tractive engagement therewith, while permitting of free movement of said ticket with said cable, and means for imparting operative movement to said cable.

1,661,571. ART OF FOLDING LEATHER. CLIFFORD K. MACDONALD, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 31, 1923. Serial No. 683,682. 28 Claims. (Cl. 12—55.)



1. The method of folding a piece of sheet material which comprises skiving the margin, coating the margin with an adhesive substance which contracts upon application to it of heat, applying heat to the margin whereby the margin is caused to curl toward the coated side, and pressing the curled margin upon the material.

1,661,572. ART OF FOLDING. CLIFFORD K. MACDONALD, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 27, 1924. Serial No. 716,170. Renewed Apr. 27, 1927. 13 Claims. (Cl. 12—55.)



1. A method of finishing the edge of a piece of sheet material which comprises coating the margin thereof with a cement which is normally not sticky, softening the cement to render it sticky, and thereafter folding the margin and pressing the fold.

1,661,573. METHOD OF DECORATION, ORNAMENTATION, OR PAINTING. HARRY CECIL MITCHELL, London, England. Filed Mar. 9, 1926, Serial No. 93,498, and in Great Britain Mar. 9, 1925. 4 Claims. (Cl. 41—26.)



1. A method of decoration, ornamentation or painting by impression, consisting in the application upon a surface on which colour is distributed of a printing stamp having an elastic printing surface formed with shallow cavities extending across parts of the said elastic printing surface, and with pockets, between the parts of the said elastic printing surface across which the shallow cavities extend and thereby applying colour on the said elastic printing surface and within the said shallow cavities and within the said pockets, applying the said printing stamp in impression upon the surface to be decorated, ornamented or painted without wiping the face of the said printing stamp before impression, and expelling the colour from the said shallow cavities and distributing the said colour in greater amount at those positions on the impressed surface that correspond with the said pockets, substantially as hereinbefore described.

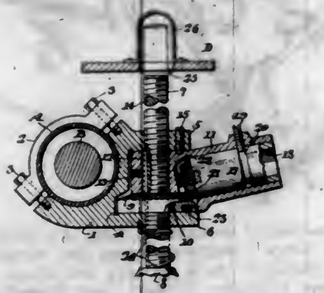
4. A printing stamp for use in decoration, ornamentation or painting having an elastic printing surface, the said elastic printing surface having shallow cavities extending completely across parts of the printing surface and pockets in positions between the said parts, whereby the normal impression surface is not flat, substantially as hereinbefore described.

1,661,574. PROCESS FOR TREATING CELLULOSIC MATERIAL. FREDERICK CARL NIEDERHAUSER and HAYDEN BENJAMIN KLINE, Cleveland, Ohio, assignors to The Industrial Rayon Corporation, Cleveland, Ohio. Filed Sept. 20, 1927. Serial No. 220,834. 5 Claims. (Cl. 18—54.)

1. A process for increasing the leveliness and evenness in dyeing of cellulosic material obtained by the precipitation of viscose in an aqueous bath consisting of an in-

organic polybasic acid, an alkali metal salt of the same, and containing zinc dissolved therein, the amount of said zinc not exceeding 0.9% of the weight of the precipitating bath, said viscose after precipitation being treated in a known manner of washing, desulfurizing, bleaching and dyeing, as set forth herein.

1,661,575. AUTOMOBILE JACK. STEPHEN W. PHILLIPS, Prompton, Pa. Filed Sept. 20, 1926. Serial No. 136,530. 3 Claims. (Cl. 254—86.)



1. An automobile jack comprising a body portion adapted to be secured to the axle of the automobile, a cut out in said body portion forming upper and lower arms, a bevel gear located in said cut out, an operating member having one end positioned in said cut out overlying the bevel gear, a screw threaded rod passing through said arms, the bevel gear and the operating member, and a screw passing through said upper jaw and adapted to engage the operating member at various points to hold it in different angular relations to the body portion.

1,661,576. CLAMP. SAMUEL F. PURLLANT, Winchester, Ky. Filed Aug. 25, 1927. Serial No. 215,390. 4 Claims. (Cl. 24—85.)

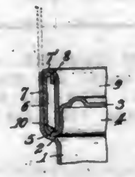


1. A clamp of the class described comprising an elongated flat strip of metal bent intermediate its ends to provide a pair of spaced arms, one arm being of greater length than the other arm, said clamp adapted to snugly fit over the upper edge of the flower pot, the longer arm being disposed on the outside of the flower pot, and a spur struck out from the intermediate portion of the longer arm of the clamp for securing a decorative covering in position on the outside of the flower pot.

1,661,577. COMPOSITION FOR TREE TREATMENT. HERBERT RENNER and JOHANNES RENNER, Chicago, Ill. Filed Mar. 18, 1927, Serial No. 176,586, and in Germany Apr. 22, 1925. 2 Claims. (Cl. 167—6.)

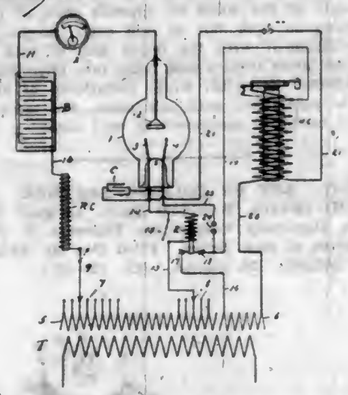
1. A composition for tree treatment consisting of a mixture of saw-dust and one or more non-hygroscopic chemicals soluble in water or natural sap of a tree and useful for preserving, dyeing and/or fireproofing wood.

1,661,578. SHEET-METAL DRUM. CHARLES H. ROLLASON, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Sept. 17, 1926. Serial No. 136,062. 5 Claims. (Cl. 220—67.)



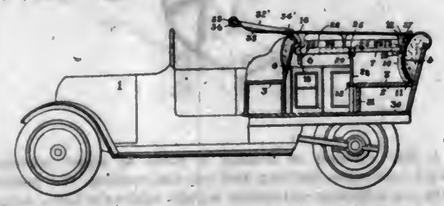
1. In a sheet metal drum, a body having an end portion thereof shaped to form an outwardly offset vertical chime and an intermediate upwardly facing internal shoulder, and a head having an integral rim provided with a seating portion for resting upon said shoulder, said seating portion being offset with respect to the plane of said head, said rim comprising a pair of separated resiliently related parallel members of which one is closely embraced by said chime, the terminal edge portion of said chime being turned inward into overlying securing relation to said rim.

1,661,579. BULB RECTIFIER. EARL H. ROLLINSON, Lyons Farms, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed July 28, 1922. Serial No. 578,131. 1 Claim. (Cl. 250—27.5.)



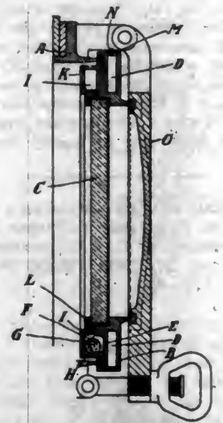
A thermionic rectifier comprising a tube provided with a re-entrant stem, an anode and a cathode element, the latter comprising spaced, substantially parallel conductors mounted on said stem and designed to establish an exciting arc from one to the other.

1,661,580. AUTOMOBILE BED. LOUIS A. SCHOLL, Crafton, Pa. Filed Mar. 25, 1926. Serial No. 97,217. 6 Claims. (Cl. 5—118.)



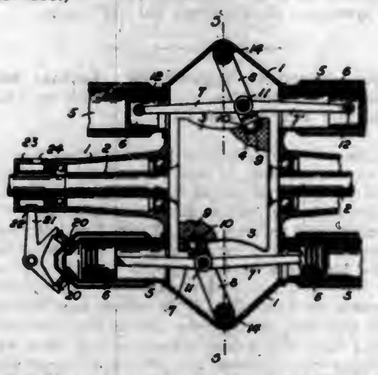
2. In a bed frame for an automobile, a side rail composed of telescopic members, an upright post supporting the rear end of the side rail, adapted to be supported at its lower end and curved to approximately the contour of the front surface of the rear seat, a support for the front end of the side rail comprising a horizontal member adapted to rest on the top of the front seat and a pendent member, means for attaching the front end of the side rail selectively at different points on the said pendent member, and means for attaching the rear end of the side rail selectively at different points on the said post.

1,661,581. SHIP'S SIDE SCUTTLE. LÜDER SCHRIEVER, Danzig-Langfuhr, Free State of Danzig, and ALFRED MICHAEL, Bremen, Germany. Filed Jan. 27, 1927, Serial No. 164,063, and in Germany May 19, 1926. 5 Claims. (Cl. 114—178.)



1. A ship's side scuttle, consisting in combination of a frame connected with the ship's hull, a pane of glass, metal members surrounding said pane of glass between said pane of glass and the frame on the ship's hull, said metal members being formed with air ducts therein, and with apertures on the inner side of the scuttle and in the upper part of the metallic members, and with apertures on the outside thereof, said outside apertures being connected by said air ducts with the apertures first mentioned, and closure elements in these metal members for closing the apertures under the influence of the pressure of the water outside the side scuttle.

1,661,582. PISTON ENGINE. JOSEF SZYDLOWSKI, Baden, Germany. Filed Apr. 24, 1926, Serial No. 104,395, and in Germany June 23, 1925. 5 Claims. (Cl. 121—119.)



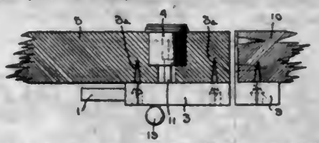
2. In a piston engine, an engine frame, cylinders arranged adjacent to said engine frame, pistons operating in said cylinders, a driven shaft, said cylinders arranged in any position relative to said driven shaft, a rocking lever, means for pivotally connecting said rocking lever to said engine frame, means for connecting said pistons to said rocking lever, a drum operatively connected to said driven shaft, a cam on said drum and means on said rocking lever cooperating with said cam for imparting motion to said shaft.

1,661,583. PIN TICKET. FRANK H. THOMPSON, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Apr. 12, 1927. Serial No. 183,203. 3 Claims. (Cl. 40—25.)



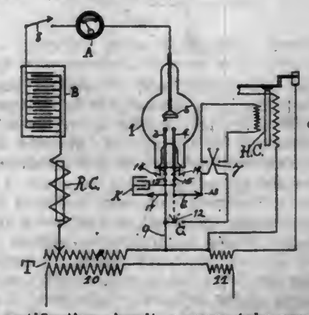
1. A pin ticket comprising a tag having a cloth recess in its under side intermediate its edges, and a pin inserted at one edge of the tag, extending through the cloth recess and lying within the thickness of the tag, the tag having a recess in its said under side at one edge for the head of the pin, the upper side of the tag overlapping said notch so that the head of the pin is concealed therebeneath.

1,661,584. BOLT FOR USE IN CONJUNCTION WITH EXISTING DOOR LOCKS. ALFRED JAMES TOZER, Wellington, New Zealand. Filed June 18, 1925, Serial No. 38,076, and in New Zealand June 18, 1924. 5 Claims. (Cl. 70—74.)



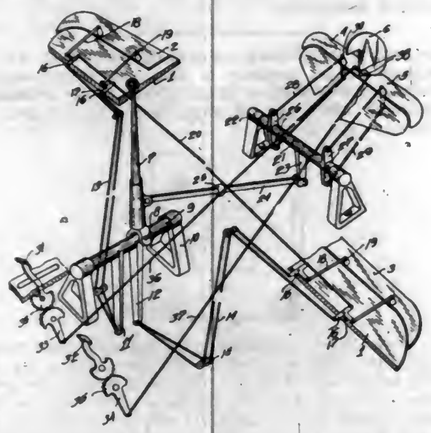
1. Means for the purpose specified, comprising, a casing to be secured to the inside of a door, a toothed bolt slidable in the casing, a toothed wheel in mesh with the toothed bolt, a bar to operate the wheel and a lock barrel in the outer side of the door connected to the bar for turning the bar and thereby operating the bolt, a seat in the toothed wheel to receive one end of the bar and upper and lower housings in the casing for the toothed wheel.

1,661,585. SYSTEM OF RECTIFICATION. FREDERICK TRANSOM, Washington, D. C., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 2, 1925. Serial No. 20,180. 3 Claims. (Cl. 175—363.)



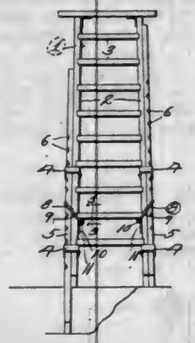
1. In a rectification circuit, a space tube provided with a load anode, a cathode, an exciting anode, and means for converting the exciting anode to a load cathode.

1,661,586. CONTROL MECHANISM. EBER HARLEY VAN VALKENBERG, McKeesport, Pa., assignor of one-half to Oscar Silverstein, Spokane, Wash. Filed Oct. 23, 1926. Serial No. 143,623. 3 Claims. (Cl. 244—29.)



1. In an aeroplane the combination with hinged ailerons and horizontal rudders, of a pair of angularly disposed rock shafts having crank arms thereon, a pivoted control stick for operating one shaft, and an operative connection between the said stick and the other rock shaft, of cables connecting the crank arms of the second shaft to the rudders, a pair of bell crank levers for each aileron, pivoted links connecting said levers and ailerons, and dual cables connecting said levers and crank arms to the first shaft.

1,661,587. STEPLADDER. NEWTON VARKER, JOHN T. KEMPS, and CHARLES H. BARTLETT, Cuba City, Wis. Filed July 9, 1924, Serial No. 725,047. Renewed Jan. 17, 1928. 1 Claim. (Cl. 228—63.)



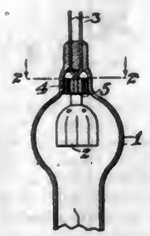
A ladder attachment, said attachment comprising a bracket, said bracket being adapted to be secured to the inner side of a rail of a ladder, an extension leg engaging the outer side of the rail and provided with a plurality of transverse grooves, a bolt extending through the bracket and extending beyond the edges of the rail of the ladder, a U-shaped bail, said U-shaped bail having its arms pivotally connected to the outer ends of the bolt, said bail having its transverse portion disposed in one of the grooves of the extension rail, coiled springs surrounding the bolt between opposite sides of the bracket and the arms of the bail, one of the ends of said coiled springs being connected to the arms of the bail, the other ends of said coiled springs being anchored to the inner side of the rail of the ladder.

1,661,588. THERAPEUTIC BOUGIE. KARL VON NEERGAARD, Basel, Switzerland, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Filed June 21, 1924, Serial No. 721,589, and in Switzerland June 30, 1923. 3 Claims. (Cl. 167—9.)

1. A process for the manufacture of bougies for the treatment of mucous membrane canals and fistulæ consisting in mixing tragacanth, kieselguhr and urea thoroughly together to form a plastic mass, constituting a mixture of a water soluble silver salt, water and glycerine, kneading said plastic mass with said mixture into a homogenous mass capable of swelling up until liquefaction within the organ to be treated, and finally forming bougies from this mass.

3. As a new product of manufacture the hereinbefore described bougies for the treatment of mucous membrane canals and fistulæ, composed on the one hand of tragacanth, kieselguhr, urea and on the other hand of a water soluble silver salt, water and glycerine, all mixed together in convenient relative proportions, so as to constitute a silver compound in highly dispersed state and in such a condition as to first swell up when coming in contact with the tissue fluids and to liquefy thereafter.

1,661,589. ANODE SPACER. WILFORD J. WINNINGHOFF, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Aug. 27, 1924. Serial No. 734,435. 4 Claims. (Cl. 176—50.)



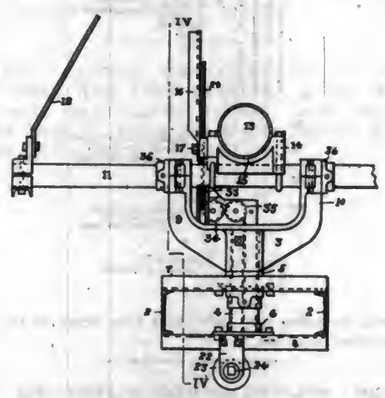
1. In combination in an electric device having an envelope and a conductor lead sealed into and extending in said envelope, means for supporting said lead against excessive bending within the envelope comprising a sleeve of refractory insulating material positioned about said lead and extending laterally into close proximity with the wall of said envelope, said electrode and the wall of said envelope serving to prevent any substantial longitudinal movement of said sleeve on said lead-in.

1,661,590. GARMENT SUPPORTER. LEONARD WOODS, St. Louis, Mo. Filed Jan. 11, 1927. Serial No. 160,492. 5 Claims. (Cl. 24—264.)



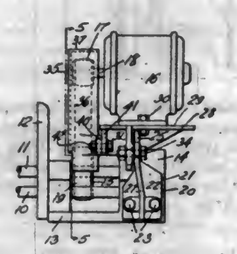
1. A garment supporter consisting of a stiff flat plate piece having a central aperture provided with multiple oppositely disposed parallel gripping slots, substantially as described..

1,661,591. MAST-ELEVATING MECHANISM FOR PORTABLE PULLING MACHINES. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 23, 1927. Serial No. 185,984. 5 Claims. (Cl. 189—11.)



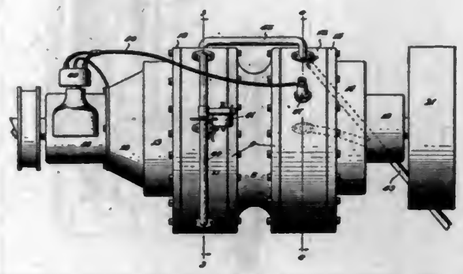
1. In a portable hoisting mechanism, a stationary frame, a hollow vertical rotary swivel post, a mast and a gin pole supported by the same, and a hoist line for the mast and gin pole, means for directing the hoist line down through the hollow of the post, and a reel carried by the frame for operating the hoist line and connected to the line to draw it down through the said hollow.

1,661,592. MOTOR SUPPORT FOR BOTTLE-WASHING MACHINES. KIRK K. WRIGHT, Buffalo, N. Y. Filed Jan. 5, 1926. Serial No. 79,487. 2 Claims. (Cl. 308—11.)



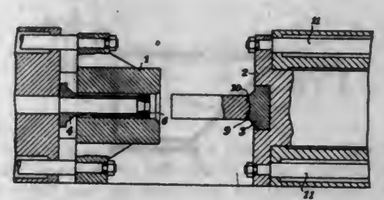
1. In a bottle washing machine, the combination with a frame, a spindle rotatable in said frame and having a pulley thereon, a motor having a pulley on its shaft, a belt connecting said motor pulley to said spindle pulley for rotating said spindle, of a pair of fixed spaced arms on said frame, a motor platform extending between said arms and aadpted to support said motor, an adjustable connection between said platform and said arms adapted to permit said motor to be positioned at different distances from said frame, whereby the belt may be maintained under proper tension, and a belt hood adapted to extend about said belt and substantially encircle said motor pulley, said hood being rigidly connected to said motor platform, whereby said hood is movable with said platform in the adjustments thereof and is maintained in correct relation to said motor pulley and belt.

1,661,593. ROTARY INTERNAL-COMBUSTION ENGINE. ALBERT J. BODKER, Ponchatoula, La. Filed May 19, 1926. Serial No. 110,229. 2 Claims. (Cl. 123—16.)



1. In a rotary internal combustion engine, a casing, including eccentrically located end caps and a center plate dividing the casing into compression and firing chambers, fuel charge conducting means connecting said chambers, a power shaft journaled in said end caps eccentrically of said chambers, the center plate being formed with grooves, rotors fitting in said end caps and fixed to said shaft to extend across said chambers and rotatably fitting in said grooves, spring pressed packing members carried by the rotor to coact with the casing and provided with lugs engaging in said end caps and in said grooves for limiting the packing members against displacement from the rotors, and pistons carried by the rotors to coact with the casing.

1,661,594. EXTRUSION PRESS. ALFRED BORN, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed June 24, 1926, Serial No. 118,382, and in Germany July 17, 1925. 2 Claims. (Cl. 207—3.)



1. In an extrusion press of the type described, a die and a supporting member, recesses with undercut lateral faces being provided at the pressing face of said supporting member, whereby upon an ingot being forced through said die by means of said supporting member the end of the ingot will be pressed into said recesses, thereby clamping the ingot to the supporting member.

1,661,595. MEAT-SEASONING FORK. HOWARD E. BOWEN, Baltimore, Md. Filed Mar. 17, 1927. Serial No. 176,029. 1 Claim. (Cl. 99—2.)

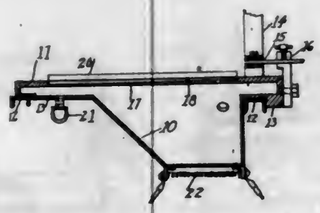
In a meat seasoning fork of the class described, a shank, a handle on one end of the shank constructed to provide a seasoning material cylinder open at its outer end, a cap removably disposed over the open end of the cylinder, a pair of tines formed on the other end

of the shank, each tine being provided with a longitudinal bore, the outer ends of the bores terminating inwardly of the pointed ends of the tines, the outer end of the bore of one tine being disposed for communication with the rear side of said tine, the outer end of the bore of the



other tine communicating with the opposite side, said shank being formed with a bore for affording communication between the cylinder and the inner ends of the bore in the tines, and a manually operable material ejecting piston arranged within the cylinder.

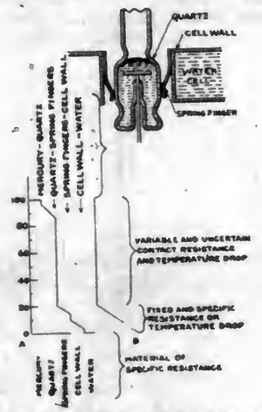
1,661,596. BOOK-CASING-IN MACHINE. JOHN J. BURKE, Cincinnati, Ohio. Filed Jan. 12, 1926. Serial No. 80,809. 6 Claims. (Cl. 219—19.)



6. An attachment for the purpose described comprising a hollow element having a casing supporting member, and adapted to be filled with water, means for applying heat exteriorly of the hollow element, and an exhaust pipe for steam extending from said hollow element, said means for applying heat comprising electrical heating elements, and separate circuits arranged for the heating elements to maintain the desired heat as applied to the water in the tank.

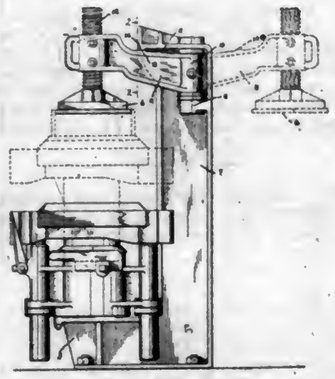
1,661,597. WATER-COOLED LAMP. LEROY J. BUTTOLPH, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Jan. 1, 1924. Serial No. 683,844. 5 Claims. (Cl. 174—177.)

1. In a water cooled lamp, in combination, a lamp holding tube, a water cell in thermal contact therewith, means for circulating water through said cell, said tube and cell having registering light conducting passageways, and a casing extending between the sides of said water



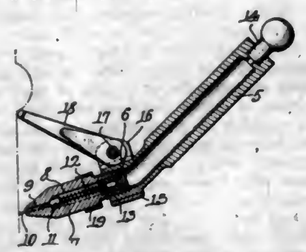
cell and enclosing said tube, said tube being in the form of a conical frustum.

1,661,598. MOLDING-MACHINE PLATEN ARM. ERLE J. BYERLEIN, Wauwatosa, Wis. Filed Aug. 20, 1926. Serial No. 130,436. 4 Claims. (Cl. 22—43.)



1. In a molding machine, the combination with the frame, of a platen arm hingedly connected to the upper portion of the frame and movable from an inoperative position to an operative posision in bracing contact with the frame, the bracing contact being medially of the ends of the platen arm.

1,661,599. MECHANICAL STRIPER. ANDREW CYNOVA, Loup City, Nebr. Filed Dec. 18, 1926. Serial No. 155,700. 1 Claim. (Cl. 15—140.)



In a device of the character described, a hollow handle portion, a head removably supported at one end of the hollow handle portion, means within the head for controlling the passage of fluid therethrough, a brush including a curved body portion adapted to grip the head to removably secure the body portion to the head, the body portion of the brush having a reduced extremity extended laterally and arranged in spaced relation with the discharge end of the head, and bristles secured to the reduced extremity of the body portion of the brush, to spread material discharged by the head.

1,661,600. DRIVING MECHANISM OF THE FANS OF FORD AND LIKE ENGINES. ROBERT MILLER CRIBBES, Cockburnspath, Scotland. Filed Sept. 17, 1925, Serial No. 56,912, and in Great Britain Mar. 19, 1925. 2 Claims. (Cl. 64—17.)



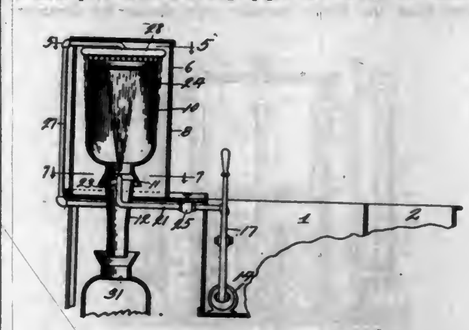
2. A fan drive pulley comprising an annulus having a V-shaped groove in its periphery near its outer end, a hollow boss at the inner side thereof, an integral hollow hub, an end web connecting said boss and hub, aligned apertures in said boss and hub, a shaft on which said hub is mounted, and a pin adapted to be passed through said apertures and shaft in the rear of the grooved portion, said pin having bearing in the boss and hub on each side of the shaft, and said pin thus providing a pair of cross members between the boss and hub adapted to be engaged to rotate the pulley.

1,661,601. PROCESS FOR THE MANUFACTURE OF SOFT CHEESE. ARTHUR C. DAHLBERG, Geneva, N. Y., assignor, by mesne assignments, to The People of the United States of America. Filed Aug. 3, 1927. Serial No. 210,448. 1 Claim. (Cl. 99—11.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

A process for the manufacture of soft cream cheese comprising the mixing of sweet cream, approximately 5 per cent soluble dry skim milk, and approximately one-half of one per cent of powdered agar, Pasteurizing the cream mixture, cooling, adding salt and a commercial starter, straining, homogenizing, and finally reducing the temperature of the cheese to approximately 70° F. and keeping the cheese at this temperature until it has developed a mild acid flavor.

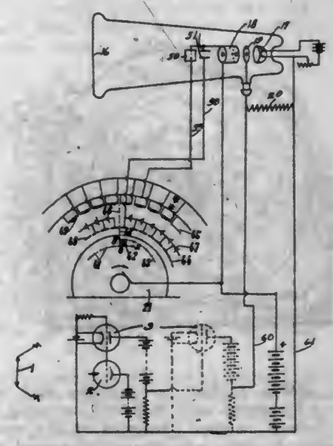
1,661,602. MILK-CAN-WASHING MACHINE. SAMUEL DARY, Guthrie, Okla. Filed Mar. 5, 1926. Serial No. 92,505. 1 Claim. (Cl. 141—7.)

The combination with means for supporting a can in inverted position, of a horizontally disposed annular spraying device above said can, said annular spraying device having its under side provided with apertures positioned whereby liquid will be discharged downwardly and inwardly towards the outer side of the can and crossed perforated discharge pipes carried by the annular



spraying device and positioned whereby liquid will be discharged onto the adjacent end of the can.

1,661,603. TELEVISION PROCESS AND MEANS OF REALIZATION. ALEXANDRE DAUVILLIER, Paris, France. Filed Aug. 22, 1924, Serial No. 733,651, and in France Nov. 29, 1923. 5 Claims. (Cl. 178—6.)

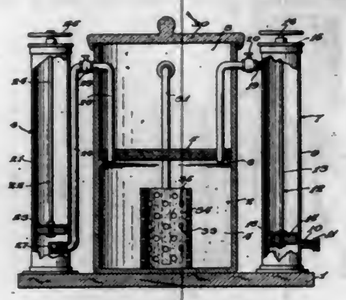


1. In a television system, a disc rotating in front of the real image to be transmitted, holes distributed both on a spiral and on concentric and equidistant circumferences drawn on the rotary disc so as to select, at every instant, a beam, of invariable size, completely exploring the plane of the image for a single revolution of the disc, and means allowing the rotary disc to simultaneously produce currents the intensities of which are proportional to the variations of coordinates of the beam relatively to the image to be transmitted.

1,661,604. APPARATUS FOR GENERATING RADIUM WATER. ADOLPH DE CLAIRMONT, Los Angeles, Calif. Filed Nov. 17, 1925. Serial No. 69,719. 3 Claims. (Cl. 167—7.)

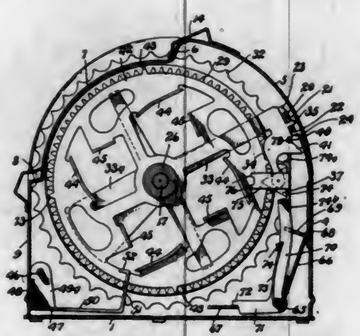
1. In apparatus for generating radium water, a generator comprising a hollow body, a filtering medium dividing the body interiorly into upper and lower chambers, the upper chamber constituting a reservoir for water to be impregnated with radium emanations, a radium emanation-bearing medium in the lower chamber, means for creating a partial vacuum in the lower chamber whereby to effect rapid filtering of the water from the

upper to the lower chamber for intimate contact with the said radium emanation-bearing medium, a valved outlet from the lower chamber, and means for destroy-



ing said partial vacuum within the lower chamber whereby to provide for discharge of the impregnated water from the said chamber.

1,661,605. ADDING MACHINE. ANDREW EKMAN, Grand Rapids, Mich. Filed Mar. 18, 1926. Serial No. 95,668. 11 Claims. (Cl. 235—80.)



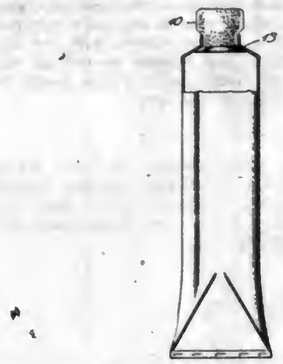
1. In an adding machine, a computing unit mounted to turn on a horizontal axis, said unit including a gear, a member loosely mounted alongside of the computing unit, a combined pinion and triangular shaped member mounted on said first member, the pinion meshing with the gear, a bar pivotally mounted at one end, a plate attached to the free end of the bar against which the triangular shaped member bears, and spring means acting on the bar to move the plate connected with it into spring pressed engagement with said triangular shaped member.

1,661,606. DYEING PROCESS. AUGUSTE ESCAICH and JEAN PAUL WORMS, Paris, France. Filed Nov. 20, 1923, Serial No. 675,956, and in Germany Nov. 25, 1922. 2 Claims. (Cl. 8—5.)

1. Method of dyeing any fibres with the aid of a double cyanide of iron and of an alkali metal, consisting in causing to act on the fibres a slightly acid bath containing a double cyanide of iron and of an alkali metal, an organic reducing agent and traces of a mercury compound.

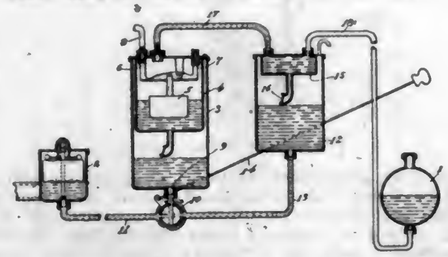
1,661,607. COLLAPSIBLE-TUBE BRUSH. RUSSELL GEO. EVANS, Detroit, Mich. Filed Feb. 9, 1925. Serial No. 8,067. 3 Claims. (Cl. 15—135.)

1. A collapsible tube having an opening in one end, a rubber base closing the open end of said tube, there being a perforation through said base, an elastic nipple integral with said base and surrounding the perforation therein,



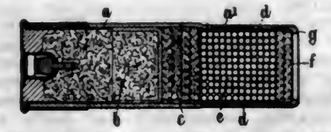
and a sponge rubber distributor surrounding said nipple and secured to the nipple and to the base.

1,661,608. FUEL-RESERVE DEVICE. EDWIN L. GRAUEL, Cincinnati, Ohio, assignor to The Graulock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 23, 1925. Serial No. 25,441. 1 Claim. (Cl. 158—46.5.)



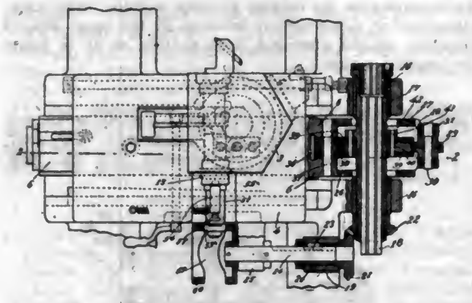
In combination with a vacuum supply tank having a fuel line to a supply, a suction air line, and an air inlet, a float element to close the suction line and open the air inlet when the vacuum tank is full, a reserve trap in the fuel line, a reserve tank open to the atmosphere and communicating through a valved connection to the reserve trap, and a valve for directing fuel from the vacuum tank and the reserve tank, selectively to an engine using such fuel.

1,661,609. SHOT CARTRIDGE. HARRY GREENER, Birmingham, England. Filed Apr. 11, 1927, Serial No. 182,848, and in Great Britain Apr. 1, 1926. 1 Claim. (Cl. 102—15.)



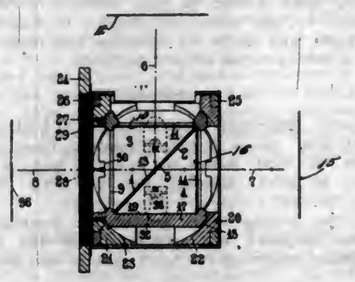
A shot gun cartridge comprising a shell having a cylindrical body portion of a diameter corresponding to that of a gun chamber, said shell also having a diametrically reduced neck provided with longitudinal crimpings and a shoulder connecting said neck and said body, a powder charge in said body, a shot charge in said neck and wads between said charges, the foremost of which bears against said shoulder, the said cartridge when loaded in a gun chamber by reason of said reduced neck providing an annular space surrounding said neck and between the neck and the said chamber, the said longitudinally extending crimps enabling the said neck to diametrically expand when the cartridge is fired.

1,661,610. MACHINE TOOL. WILLIAM F. GROENE and ROSS M. BACON, Cincinnati, Ohio, assignors to The R. K Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed Jan. 15, 1925. Serial No. 2,660. 5 Claims. (Cl. 29—44.)



1. In a machine tool, means for imparting automatic motion from a master to a moving part comprising a member coupled to the part to be moved, a master cam device formed of a smaller inner cam and two larger outer cams held together in fixed relation, a wide roller to engage the outer cams, a narrow roller to engage the inner cam between the outer cams, said rollers being mounted on the said member and spaced substantially 180 degrees apart, and a hanger pivotally secured to the member for mounting one of the rollers, and means for adjusting the relation of the hanger to the member, to control the spacing of the rollers whereby the thrust on the moving part applies in both directions and always in the same line.

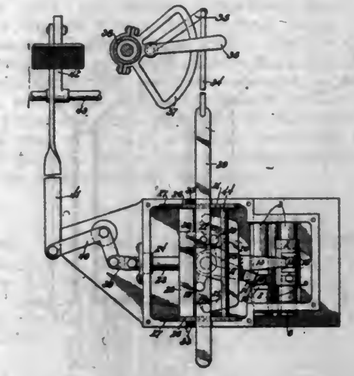
1,661,611. CAMERA FOR COLOR PHOTOGRAPHY. ARON HAMBURGER and HERBERT ERNEST COSTON, London, England. Filed Jan. 13, 1925, Serial No. 2,180, and in Great Britain Mar. 22, 1924. 7 Claims. (Cl. 88—1.)



1. In a camera for color photography two right angled prisms cemented together by their hypotenuse faces to form a block arranged between the camera lens and a plurality of sensitized surfaces, a thin layer of material interposed between said cemented faces of such a nature that it is partially reflecting and partially transparent to light, and a color filter worked integrally into the hypotenuse prism face immediately following said thin layer.

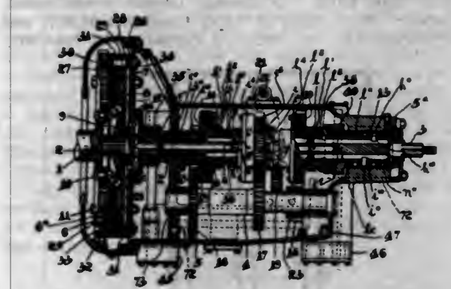
1,661,612. GEAR-SHIFTING MECHANISM. SETH HULMES, Beaver Falls, Pa. Filed May 28, 1926. Serial No. 112,328. 10 Claims. (Cl. 74—58.)

1. In a gear shifting mechanism, the combination of two shifting yokes mounted side by side and longitudinally slidable, a pair of pivoted levers, each being directly connected to one of the yokes and rockable to shift the same in either direction, a selector bar longitudinally adjustable to select the desired shift, means for moving the selector bar laterally, and means cooperable with the selector bar when moved laterally to selectively rock



either one of the levers in either direction according to the longitudinal adjustment of the selector bar.

1,661,613. CHANGE-SPEED GEARING. MAUNSELL B. JACKSON, Toronto, Ontario, Canada, assignor of one-third to Edward McMahon and one-third to Thomas Cameron Bate, Ottawa, Canada. Filed Nov. 10, 1924. Serial No. 748,992. 16 Claims. (Cl. 74—59.)

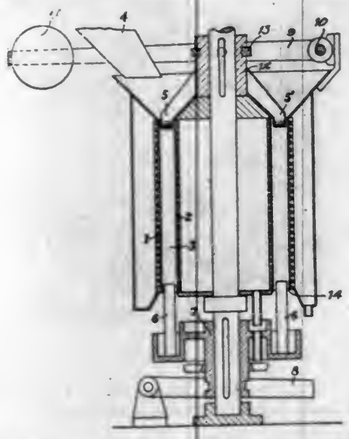


1. The combination of a driving element; a driven element; a clutch shaft; a main clutch for connecting the driving element with the clutch shaft; a countershaft having a driving connection with said clutch shaft; change speed gearing including a plurality of gears journalled on said driven element; a plurality of clutches, one being adapted to connect the said clutch shaft with the driven element and the others adapted for connecting the said gears with the driven element; and means for actuating any one of the driven element clutches, each of the said driven element clutches being adapted to control the operation of the said main clutch whereby the latter will not be actuated before a driven element clutch is actuated.

1,661,614. LIQUID-EXPRESSING APPARATUS. PAUL KUTSCHBACH, Harburg, Germany, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Madgeburg-Buckau, Germany, a Firm. Filed Feb. 25, 1926, Serial No. 90,712, and in Germany Feb. 25, 1925. 3 Claims. (Cl. 100—50.)

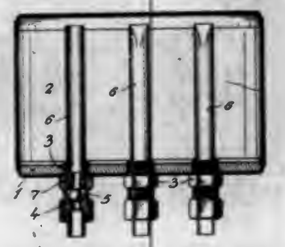
1. A straining press for expressing liquid constituents from materials of various kinds comprising the combination with a substantially vertically disposed press chamber having an annular cross section and being open at the top and bottom, of means adapted to supply the material in a continuous stream under its own gravitation to the upper end of said press chamber, a feeding element adapted to force the material continuously into

said press chamber, to compress it therein and to cause it to travel therethrough, said feeding element being arranged substantially outside the press chamber proper



and working only at the actual intake port of the same, and means for continuously discharging the exhausted material at the bottom end of said press chamber.

1,661,615. LUBRICATING DEVICE FOR MOTORS AND THE LIKE. WALDEMAR LARSEN, Fredriksstad, Norway. Filed Mar. 11, 1926, Serial No. 94,077, and in Norway Mar. 25, 1925. 5 Claims. (Cl. 184—81.)



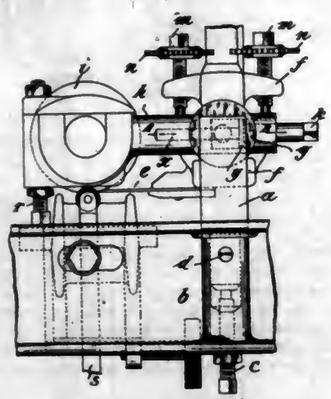
1. In a lubricating device for motors or the like, the combination of an oil container, an outlet from the same, an oil supply pipe, a non-return valve closing upon an upwardly directed stroke of its movable valve member, said valve being located between said outlet pipe at the lower end of the latter, an abutment for the movable valve member, the supply pipe being adjustable in the container relatively to the said member and carrying at its lower end the said abutment.

1,661,616. PRESS-BUTTON FASTENER. EDUARD MERZINGER, Dresden, Germany. Filed Mar. 25, 1926, Serial No. 97,382, and in Czechoslovakia Feb. 3, 1926. 1 Claim. (Cl. 24—219.)



In a press-button fastener, the combination of a dome-shaped stud, and a fastening member for securing it to its supporting material; said member embodying a solid, needle-like shank adapted to be passed through the material and terminating in a transversely flattened, lanceolate portion which tapers to a point at its apex and also tapers at its base and which is adapted to curl up in the dome when its pointed apex strikes against the curved inner surface of the dome and to be positively guided in its curling by such surface, said lanceolate portion being curved laterally in the same general direction, as the aforesaid dome surface so as to assist the curling action.

1,661,617. SHEARING MACHINE. JOSEPH MONFORTS, Munich-Gladbach, Germany. Filed Apr. 19, 1927, Serial No. 185,030, and in Germany Feb. 23, 1926. 3 Claims. (Cl. 26—15.)

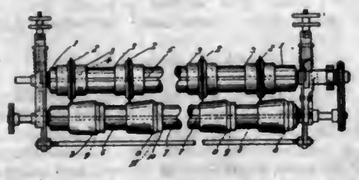


1. In a machine of the class described, a machine frame and a shearing mechanism rockably mounted thereon, said shearing mechanism comprising a stationary blade, bearings secured to the ends of said blade, journals in said bearings having diametrical bores, supporting arms resting in said bores, a rotary cutter mounted on said arms and adapted to cooperate with said blade, and means for adjusting and fixing the position of said journals in said bearings.

1,661,618. PROCESS FOR MAKING ALUMINUM COMPOUNDS. GEORG MUTH, Nuremberg, Germany. Filed Mar. 29, 1921, Serial No. 456,751, and in Germany May 13, 1919. Renewed Mar. 24, 1923. 23 Claims. (Cl. 23—123.)

20. The process which consists in treating an aluminum compound with sulphuric acid and a fluorine salt while subjecting the batch to heat and pressure.

1,661,619. CUTTING DEVICE. TRUMAN G. PADDACK, Wyoming, Ohio, assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed Apr. 23, 1925. Serial No. 25,445. 5 Claims. (Cl. 164—60.)



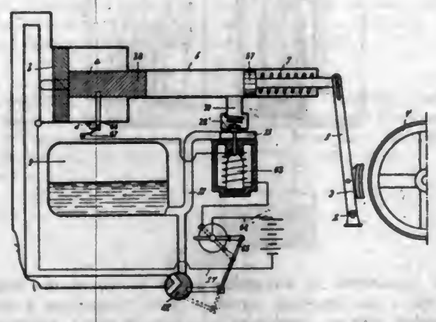
5. A cutting device composed of two shafts with cutting members with fixed peripheries on one shaft, said peripheries being subject to variation each with relation to the others, and tapered bearing members mounted

on another shaft aligned with the first mentioned shaft and means for permitting adjustment of said bearing members with relation to the cutting members having peripheries which are subject to variation.

1,661,620. PROCESS FOR THE PRODUCTION OF WASHING AGENTS. GRIGORI PETROFF, Moscow, Russia, and PETER SHESTAKOFF, Paris, France. Filed Dec. 30, 1925, Serial No. 78,488, and in Germany Feb. 20, 1925. 4 Claims. (Cl. 260—108.)

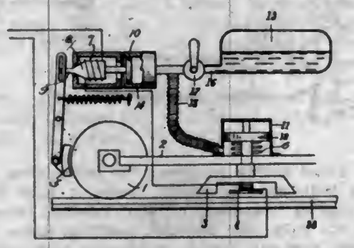
1. The process of preparing a washing compound which comprises sulfonating a mixture of aromatic hydrocarbons and highly unsaturated drying oils, and thereafter purifying the sulfonation product.

1,661,621. BRAKE MECHANISM. HENRI PIEPER, Brussels, Belgium, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Filed Apr. 15, 1926, Serial No. 102,180, and in Belgium Sept. 10, 1925. 7 Claims. (Cl. 303—49.)



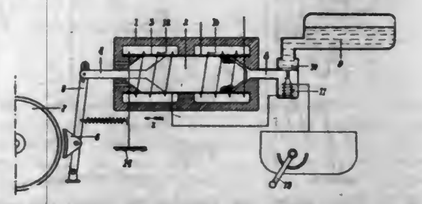
2. A brake mechanism comprising a cylinder filled with liquid, a piston moving in said cylinder and connected to the brakes, a brakes control device acting upon said liquid, a chamber containing liquid surmounted by a gas under pressure, a valve controlled communication between said chamber and said cylinder, and means for opening such communication by the first movement of the brakes control device, when displaced in the direction corresponding to braking, and for closing said communication after the completion of a predetermined stroke of the said control device in braking direction.

1,661,622. BRAKE SYSTEM FOR VEHICLES RUNNING ON RAILS. HENRI PIEPER, Brussels, Belgium, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Filed Apr. 15, 1926, Serial No. 102,181, and in Belgium Sept. 14, 1925. 10 Claims. (Cl. 188—164.)



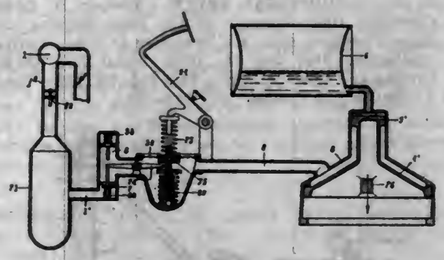
3. In a brake system for a vehicle running on rails, an electromagnet suspended above the rails and through which the magnet circuit is closed, the electromagnet being carried through the medium of a piston moving in a cylinder containing a liquid under pressure, a piston connected with the brake mechanism and movable in a second cylinder, a duct connecting said second cylinder with the cylinder containing liquid under pressure in such a way that the said liquid displaces the brake mechanism towards braking position when the electromagnet is attracted towards the rails, a vessel containing liquid and gas under pressure, a duct connecting said vessel with the aforesaid second cylinder that contains the piston connected to the brake mechanism in order to displace said brake mechanism towards braking position, and a closing member interposed between the second cylinder and vessel.

1,661,623. BRAKING DEVICE FOR VEHICLES. HENRI PIEPER, Brussels, Belgium, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Filed Apr. 15, 1926, Serial No. 102,182, and in Belgium Oct. 5, 1925. 7 Claims. (Cl. 303—20.)



4. Brake-operating apparatus for vehicles, embodying an electromagnetic device comprising a magnetic field traversed by a magnetic flux created by a solenoid which is excited by current from the vehicle and which shifts in braking direction a core disposed in said field; a second magnetic field traversed by a magnetic flux created by a second solenoid also excited by current from the vehicle and shifting in brake-releasing direction a core disposed in the second field, said core being shifted in braking direction by a fluid under pressure coming from a reservoir through a duct; an automatic valve for controlling said duct opening toward said reservoir; and an electromagnet for operating said valve interposed in the excitation circuit of the first solenoid.

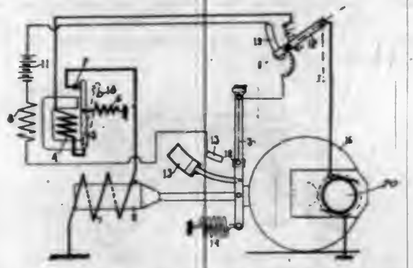
1,661,624. SERVO-BRAKE. HENRI PIEPER, Brussels, Belgium, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Filed Apr. 15, 1926, Serial No. 102,183, and in Belgium Dec. 24, 1925. 18 Claims. (Cl. 303—68.)



5. In a servo brake provided with brake mechanism, a piston connected to the brake mechanism and moving in a releasing cylinder, a controllable communication duct between said cylinder and a partial vacuum source, a vessel in which a partial vacuum is maintained, and a distributor controlling the entry into action of the releasing devices, said distributor comprising a sliding member movable in one direction to actuate a closing member controlling communication with the atmosphere, and in the other direction to actuate a closing member

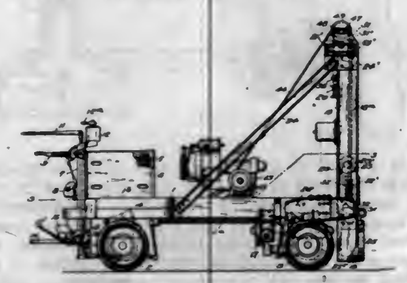
controlling communication with the duct connected to the partial vacuum source, said sliding member being connected to a diaphragm subjected upon one side to atmospheric pressure and upon the other side to the partial vacuum existing in the releasing cylinder, the displacements of the said sliding member being controlled by the brake controlling pedal or lever, the said sliding member being further subjected to the action of a spring exerting an action which opposes the action of atmospheric pressure.

1,661,625. BRAKE DEVICE. HENRI PIEPER, Brussels, Belgium, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Filed June 5, 1926, Serial No. 113,944, and in Germany Nov. 7, 1925. 6 Claims. (Cl. 188—158.)



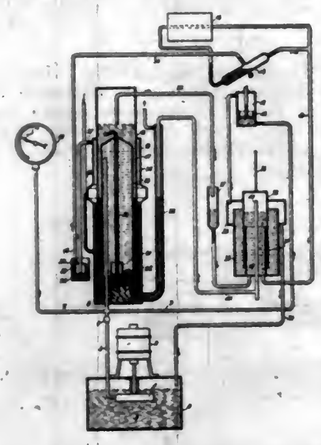
5. A brake device for vehicles, in which the current from a dynamo actuated by the axles, or the current from the motors of the vehicle acting as generators, is employed for the braking of the vehicle, comprising an electrical relay embodying a winding traversed by the current producing the braking in such a way that said relay cuts off this current when it falls below a predetermined value, a member for reestablishing the braking current, and a second winding comprised in said relay supplied by a source of current and acting upon said member, the second winding being included in a circuit comprising two switches, one of which is closed by the movement of the controller lever into braking position and the other being closed by a member of the brake mechanism after a certain interval during which said mechanism effects a certain releasing stroke, said brake-mechanism member being connected to the electro-magnet of an electro-magnetic brake brought into operation by said current and closing the circuit of the second winding under the action of a return spring.

1,661,626. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed May 4, 1923, Serial No. 636,638. Divided and this application filed Feb. 23, 1926. Serial No. 89,968. 16 Claims. (Cl. 214—65.)



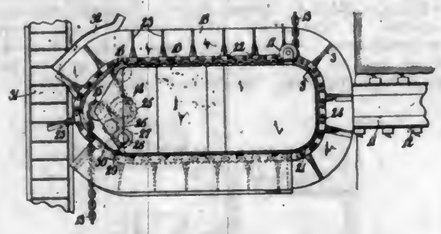
1. In apparatus of the class described, the combination of a truck frame having supporting wheels, a guide frame on said truck frame, an elevating member comprising a main portion mounted to slide on said guide frame and a lift device movably mounted on said main portion and provided with load engaging walls arranged to be adjusted transversely of said truck frame when said device is moved relative to said main portion, and means for raising and lowering said elevating member.

1,661,627. GAS-ANALYZING APPARATUS. OLOF RODHE, New York, N. Y., assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Filed Aug. 19, 1926, Serial No. 130,290, and in Germany Aug. 28, 1925. 2 Claims. (Cl. 23—254.)



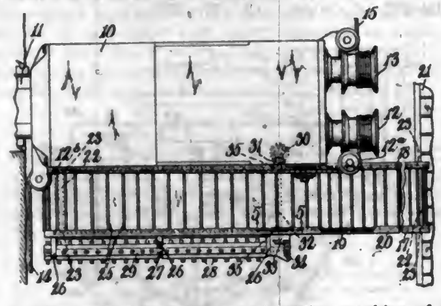
1. Apparatus for analyzing gas mixtures of the type in which an absorbing liquid is used, comprising a gas pumping device containing a non-absorbing pumping medium, means for pumping the absorbing liquid against said non-absorbing medium to oscillate the latter, an absorbing and measuring receptacle, and means for conducting absorbing liquid which has been used to oscillate said non-absorbing medium into said absorbing and measuring receptacle.

1,661,628. COAL CUTTER AND LOADER. CHARLES BRAND OFFICER, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 4, 1925. Serial No. 73,179. 20 Claims. (Cl. 262—30.)



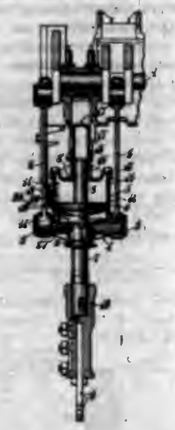
1. In a coal mining apparatus, the combination with a machine body movable laterally over a mine bottom, of kerf cutting means and material handling means carried by the body, said material handling means having a material engaging portion coextensive with said body at the advancing side of the latter, and each of said means initially engaging material along parallel laterally adjacent paths and each operative to clear its path as the machine body advances.

1,661,629. MINING APPARATUS. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 4, 1925. Serial No. 73,178. 19 Claims. (Cl. 262—9.)



1. The combination with a coal cutting machine of the type having an elongated body slidable on the mine bottom and a cutter bar extending from one end of the body, of gathering and loading mechanism connected to the body and comprising mechanism for moving loose material first transversely and then longitudinally of said body and out of the path of the latter.

1,661,630. CHANNELER. HENRY H. MERCER, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 12, 1922. Serial No. 574,406. 10 Claims. (Cl. 125—33.)



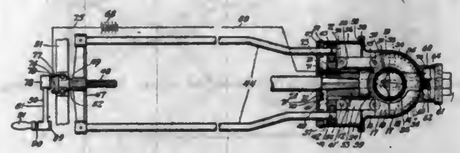
1. In a stone working machine, in combination, a cutting tool, actuating means therefor including a reciprocable cylinder having a piston movable therein, said cylinder having fluid inlet means including a port, fluid outlet means, and passage means for conducting fluid to the opposite ends of said cylinder, an automatic valve for controlling fluid flow to said inlet port, and means for regulating fluid flow to said automatic valve.

1,661,631. HUB FOR PROPELLER BLADES. MOSES C. NIXON, Chicago, Ill. Filed May 3, 1926. Serial No. 106,430. 41 Claims. (Cl. 170—173.)



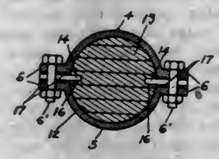
1. In combination a hub comprising cooperating elements secured together and adapted to be secured on a driving shaft and having a radially extending socket member substantially circular in cross section, a propeller member, and means for securing the propeller member in said socket member, one of said members having a projecting member and the other of said members having a groove extending longitudinally therewith adapted to receive said projecting part thereby preventing turning but permitting longitudinal movement of the propeller member in the socket member.

1,661,632. PROPELLER APPARATUS SUITABLE FOR USE IN CONNECTION WITH VARIOUS VEHICLES. MOSES C. NIXON, Chicago, Ill. Filed May 3, 1926. Serial No. 106,481. 35 Claims. (Cl. 170—163.)



1. In a propeller apparatus, the combination with a revoluble shaft, propeller blades having segments extending radially from the hubs thereof, means for mounting the blades on said shaft and permitting rotatable adjustment of the blades about an axis at right angles to the axis of said shaft, operating means in connection with said segments whereby the blades may be moved to different positions, and means for engaging the rims of said segments for locking the blades in adjusted position.

1,661,633. HUB FOR PROPELLER BLADES. MOSES C. NIXON, Chicago, Ill. Filed Oct. 4, 1927. Serial No. 224,007. 7 Claims. (Cl. 170—173.)

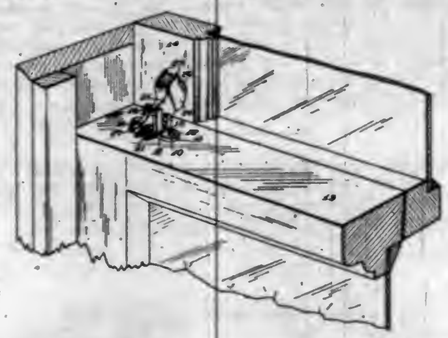


1. In combination a split hub comprising cooperating flanged members adapted to be secured together and on a driving shaft, said members being formed so as to provide a radially extending tapered socket split longitudinally and so disposed that its larger end is adjacent the axis of rotation, a propeller blade in said socket and having a groove adjacent the flanges at one side of said socket, a shim key disposed partly in said groove and partly between the flanges adjacent thereto, and means extending through said flanges for fastening said members together.

1,661,634. SASH LATCH. FRANK PEKAR, Bridgeport, Conn. Filed June 18, 1927. Serial No. 199,745. 5 Claims. (Cl. 292—228.)

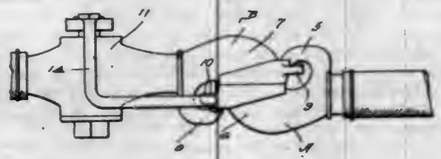
1. In a window latch, a base adapted to be secured to a window sash, spaced pairs of fingers projecting upwardly from the base, the fingers of each pair being also spaced to provide a slot therebetween, a pin mounted between the pairs of fingers, a coil spring surrounding said pin and having one end fixed relative to the base, a pawl having a body received in said slot and having a notch in its lower edge fitting over the pin and body of the spring, the remaining end of the spring being engaged over the pawl to hold the pawl and base together and

urge the pawl to tilt to latching position, and means on the end of the pawl to engage a part of the window



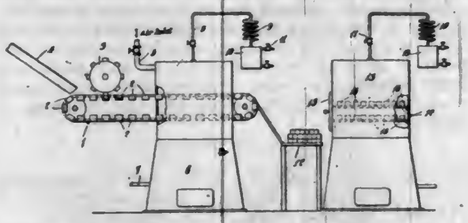
past which said sash is movable upon the pawl being moved to latching position.

1,661,635. AIR-HOSE-COUPLING SAFETY DEVICE. JOHN L. SHULTZ, Bellefonte, Pa., assignor of one-third to Henry Kline, Bellefonte, Pa. Filed Nov. 23, 1926. Serial No. 150,279. 2 Claims. (Cl. 284—9.)



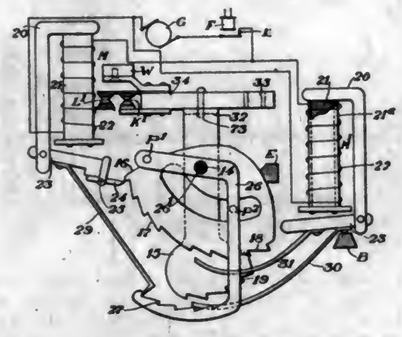
1. In a coupling structure; wherein a coupling head includes a body having an interlocking finger extending therefrom terminating in spaced relation thereto for the purpose of receiving a cam lug of a co-mating coupling head, and a valve structure adjacent the first mentioned head; an operating crank having an end operatively engaged with the valve and extending upwardly from the coupling structure, said operating crank terminating in an angularly disposed extension merging into an arcute extension and being mounted to swing downwardly between the finger and the body to close the valve only when the cam lug of the co-mating coupling head is entirely outside the space between the body and the finger.

1,661,636. PROCESS FOR TREATING FLUE DUST. KENNETH M. SIMPSON, New York, N. Y. Filed Apr. 7, 1926. Serial No. 100,454. 2 Claims. (Cl. 75—73.)



1. The herein described process which comprises mixing with flue dust pulverized carbonaceous fuel matter, in adding to such mass a hydrocarbon, in briquetting the resulting mixture, in subjecting the mixed materials to a carbonizing treatment in which the volatiles of the hydrocarbon are largely removed and the solid materials bonded by the carbon residue thereof by preliminarily heating the material in a zone where oxygen is present, and in thereafter raising the temperature of the material in a zone where oxygen is excluded.

1,661,637. DECODING APPARATUS. ANDREW J. SORENSEN, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1926. Serial No. 149,257. 7 Claims. (Cl. 177—353.)



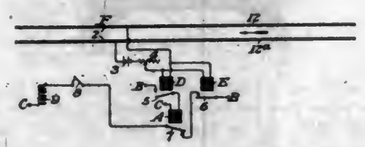
1. In combination, a relay at times supplied with different code impulse combinations, a selector associated with said relay comprising a first movable member biased to a normal position, a second and a third movable members, means for advancing the first member from its normal position for each impulse supplied to the relay, means for holding the first member in its advanced position between successive impulses in a combination but releasing it between combinations, means whereby the second member always follows the advance movements of the first member and also follows its return movements unless restrained, means for restraining the second member in its advanced position between impulse combinations but releasing it during the impulses of a combination, means whereby the third member always follows the advance movements of the second member and also follows its return movements unless restrained, means for restraining the third member in its advanced position during the same periods as the first member, a plurality of contacts variably controlled by the different positions of the third member, and governing means controlled by said contacts.

1,661,638. FISHING TOOL. FERDINAND J. SPANG, Butler, Pa. Filed Sept. 6, 1924. Serial No. 736,273. 2 Claims. (Cl. 294—102.)



1. A fishing tool having in combination a socket member, a reciprocable member mounted therein and provided with gripping jaws extending longitudinally of said socket, means on said socket for contracting said jaws upon relative downward movement of said reciprocable member so as to cause them to grip an external object, means for locking said reciprocable member against movement so as to prevent the operation of said jaws, a relatively short spring associated with said reciprocable member so as to support said socket thereon and normally prevent operation of said locking means and a relatively long spring for moving said jaws downwardly to gripping position when said socket member is raised.

1,661,639. APPROACH-INDICATION APPARATUS. LESTER E. SPRAY, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 24, 1923. Serial No. 670,464. 7 Claims. (Cl. 246—41.)



1. In combination, a section of railway track, a track circuit for said section including a source of current and a track relay, a second relay interposed between said source and one rail and so adjusted that it is open when the section is unoccupied and closed when the section is occupied by a train, a third relay interposed between said source and a track rail and so adjusted that it is closed at all times provided said track circuit is intact, and an indicator controlled jointly by said second and third relays.

1,661,640. POWDER ADAPTED TO LIBERATE IODINE. KENNETH VAN ALLEN, New York, N. Y. Filed Apr. 24, 1926. Serial No. 104,473. 8 Claims. (Cl. 167—9.)

1. A pulverulent substance consisting of iodic acid, a reducing agent, and a filler.

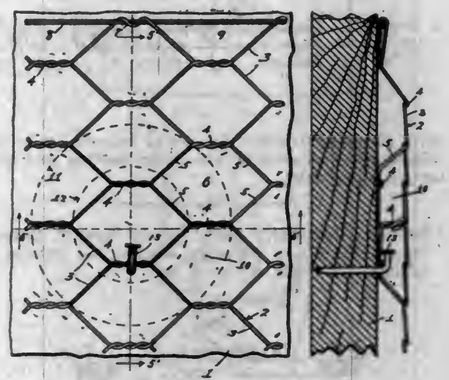
1,661,641. EMERGENCY DEVICE FOR AUTOMOBILES. EMILIO E. VECCHI, Des Moines, Iowa. Filed Oct. 25, 1926. Serial No. 143,981. 5 Claims. (Cl. 254—86.)



1. An emergency device for automobiles comprising caster wheels adapted to be secured to the axles of automobiles and adjacent the wheels thereof, each caster wheel being capable of moving to position for raising its corresponding automobile wheel clear of the ground and means for moving the caster wheels to such position, said means comprising rock arms operatively connected to said caster wheels, an oscillatably mounted rod, a hand lever slidably mounted thereon and a socket in said lever adapted to selectively engage said rock arms upon sliding movement thereof relative to the oscillatably mounted rod whereby the rock arm, so engaged, will be swung upon actuation of said hand lever.

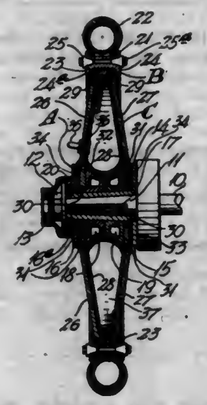
1,661,642. METAL LATH. GEORGE F. VOIGHT, Oakland, Calif., assignor to Economy Products Corporation, a Corporation of California. Filed Mar. 2, 1925. Serial No. 12,686. 1 Claim. (Cl. 72—118.)

Metal lath comprising a fabric formed with relatively large meshes, the wires surrounding certain of said meshes bent into a plane offset from and parallel to the remaining meshes thereof, the wires connecting said offset meshes extending diagonally between said planes



whereby said offset mesh-surrounding wires bear in toto against the supporting surface and any one of said offset wires may be secured to the supporting surface at will.

1,661,643. RESILIENT WHEEL. OTTO WADDELL, Radersburg, Mont. Filed Feb. 11, 1927. Serial No. 167,403. 3 Claims. (Cl. 152—46.)
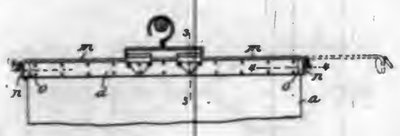


2. A vehicle wheel comprising a conical sleeve, flanges mounted on said sleeve, complementary concave conoidal spools mounted on said sleeve intermediate said flanges, resilient side plates mounted on said sleeve intermediate said spools and said flanges, a rim disposed about said sleeve adapted to engage said side plates, and an inflatable resilient annular air container positioned intermediate said side plates.

1,661,644. GARMENT BAG. DAVID WARREN, Roxbury, Mass. Filed Apr. 27, 1927. Serial No. 187,053. 5 Claims. (Cl. 206—7.)

1. In a garment bag, a pair of closure members, each comprising an elongated outer plate engaged with the outer side of the bag for a portion of the length of its

mouth and means for securing opposite portions of the bag material to the corresponding plates, top and end flanges projecting right angularly inwardly from each



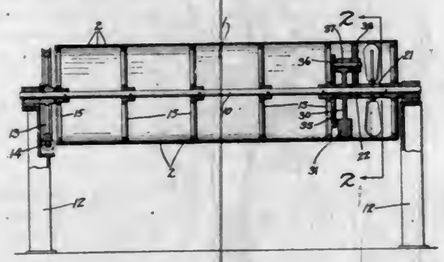
outer plate and arranged to overlap respectively in close engagement and movable means for holding said members in engagement.

1,661,645. GARMENT BAG. DAVID WARREN, Roxbury, Mass. Filed Apr. 27, 1927. Serial No. 187,054. 4 Claims. (Cl. 206—7.)



2. In a garment bag, a pair of closure members, each comprising an elongated metal plate, means for securing opposite portions of the bag at its mouth to said plates, one of said plates having its top portion extended laterally and reversely to form a groove which extends for the length thereof and having means to close the ends of said groove, and the other plate having a laterally extending top portion adapted to be fitted in said groove.

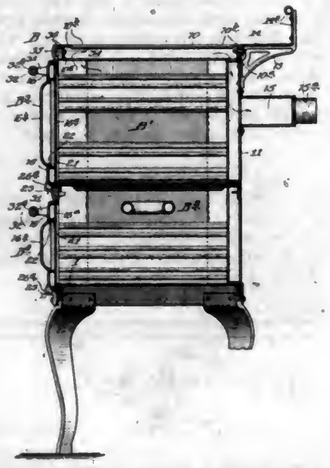
1,661,646. LAUNDRY MACHINE. FRED CARL WILHELM, Minneapolis, Minn. Filed July 14, 1927. Serial No. 205,742. 6 Claims. (Cl. 68—9.)



1. In combination with a laundry machine including a cylinder and shaft for rotating the cylinder, a fan rotatable upon the shaft, a frame supported upon the shaft and weighted to prevent rotation with the shaft, transmission gearing carried by the frame, and connected for rotating the fan, and means for driving the transmission gearing as the result of rotation of the cylinder.

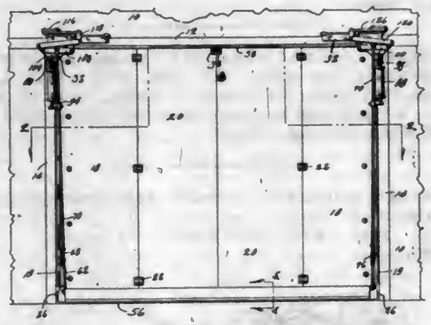
1,661,647. RANGE. LAWRENCE A. ALTHOFF, La Porte, Ind. Filed Mar. 23, 1925. Serial No. 17,053. 4 Claims. (Cl. 126—39.)

1. A range comprising a base, an oven-unit mounted thereon, a cooking-top mounted at one side of the oven-unit and disposed a short distance below the oven-top, a shelf projecting rearwardly from the body of the range in a plane substantially flush with the oven-top and extending transversely throughout the width of the range, a standard plate rising from the rear edge of said shelf, and a transverse flue disposed beneath



said shelf and communicating with the burner-box and flues of the range.

1,661,648. DOOR OPENING AND CLOSING DEVICE. CLARENCE B. BATES, Marshalltown, Iowa. Filed Apr. 4, 1927. Serial No. 180,815. 8 Claims. (Cl. 268—35.)

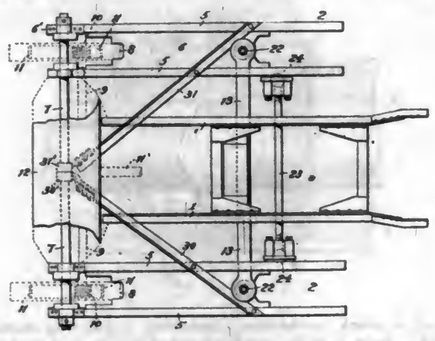


1. In combination with a wall having a door frame therein, a shaft rotatably mounted in said frame, a door secured to said shaft, an arm on said shaft, a bar slidably mounted adjacent said arm, a second arm pivotally mounted adjacent said bar, link connections between said arms and said bar, a platform having one end pivoted, an operative connection between said second arm and the free end of said platform and spring means for maintaining said free end in raised position.

1,661,648 TRACTION ENGINE. CLARENCE LEO BEST, Elmhurst, Calif., assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California. Filed Sept. 15, 1920. Serial No. 410,419. 11 Claims. (Cl. 305—9.)

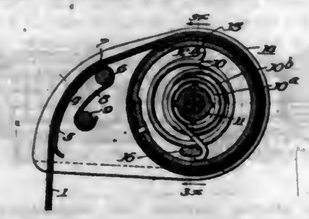
6. In a tractor, the combination of a main frame, a pair of tractor trucks to support the main frame arranged at opposite sides thereof, each tractor truck including a truck frame and an endless track thereon, the truck frames being pivotally connected at their rear portions with the rear portions of the main frame for vertical oscillation, an equalizer member pivotally connected centrally of its ends with the main frame at the forward part thereof and flexibly connected at its ends

with the truck frames, a strut free of the main frame and flexibly connected at its ends with the truck frames at the front portions thereof, and inclined brace members pivotally connected at their inner ends to the rear



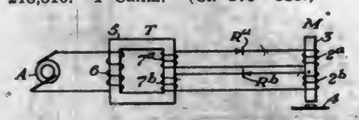
portion of the main frame centrally of the sides thereof, and extending forwardly therefrom and being rigidly connected with the truck frames at the front end portions thereof.

1,661,650. VEHICLE-SPRING REGULATOR. JOHN W. BLACKLEDGE, Chicago, Ill. Filed June 24, 1925. Serial No. 39,208. 10 Claims. (Cl. 267—10.)



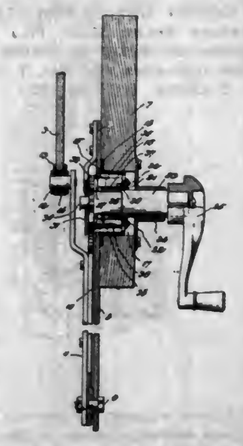
1. A vehicle spring regulator, comprising a flexible connector adapted to be attached to one of two spring connected vehicle members, a resilient take-up device for said connector adapted to be mounted on the other of said vehicle members, and a deflector adapted to be mounted on the same vehicle member that carries the take-up device, and presenting a frictional surface over which the connector travels during relative movement of the vehicle members; said deflectors deflecting the connector into a circuitous path and being resilient in the direction of such deflection.

1,661,651. ELECTROMAGNETIC APPARATUS. PAUL N. BOSSART, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927. Serial No. 218,810. 1 Claim. (Cl. 175—335.)



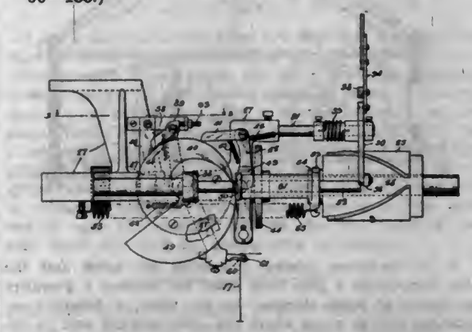
In combination, an electromagnet having two windings, a transformer having a primary and two secondaries, a source of alternating current for the primary of said transformer, a circuit for one of said magnet windings including one of said transformer secondaries, a circuit for the other magnet winding including the other of said transformer secondaries, two asymmetric units one included in the circuit for each magnet winding and so connected that current is supplied to one winding during one half of each wave of the alternating current in said primary and to the other winding during the other half of each wave of the alternating current in said primary, and said magnet windings being so connected that the magnetomotive forces created by the currents therein in the magnet core are in the same direction.

1,661,652. LEVER SASH REGULATOR. GUSTAVE A. CARLSON, Detroit, Mich. Filed Oct. 27, 1924. Serial No. 746,030. 1 Claim. (Cl. 192—8.)



In a clutch, a cup-shaped casing, a bushing non-rotatably secured against the outer wall of said casing and extending therein, an arbor in said bushing, a spindle extending into said arbor, and means in said casing frictionally engaging said bushing adapted for holding said arbor and spindle against accidental rotation, said means including an abutment member, rotatable with said arbor and having abutment extending parallel to said bushing, a follower rotatable with said spindle and having a lug overlying said abutment member and extending parallel to the abutments of said member, and a spring frictionally encircling said bushing and having its ends extending between the abutments of said abutment member and the lug of said follower and adapted to be distended to permit rotation of said arbor and spindle.

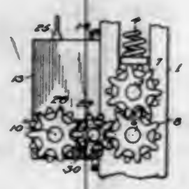
1,661,653. KNITTING MACHINE. HUMPHREY EVANS, Milwaukee, Wis., assignor to Holeproof Hosiery Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 23, 1922. Serial No. 596,266. 3 Claims. (Cl. 66—133.)



1. In a knitting machine the combination with a rotary needle cylinder provided with needles and a yarn guide movable into and out of operative position to

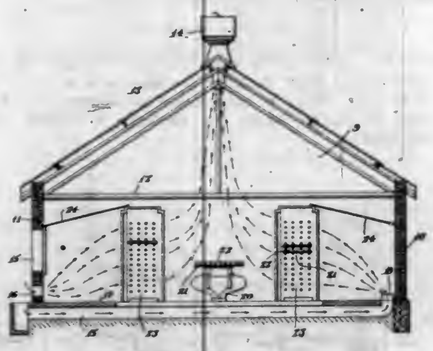
direct yarn to the needles, of a rotary and axially movable cam for shifting the yarn guide out of operative position, means for rotating the cam synchronously with the needle cylinder, a cam for shifting the first cam axially, a ratchet wheel connected and rotatable with the second cam, a rocker arm provided with a pawl for rotating the ratchet wheel and second cam, and a third cam for actuating the rocker arm and pawl.

1,661,654. SAFETY DEVICE FOR CLOTHES WRINGERS. ARTHUR FOLKE, Kane, Pa. Refile for abandoned application Serial No. 59,046, filed Sept. 28, 1925. This application filed Jan. 7, 1928. Serial No. 245,234. 2 Claims. (Cl. 68—32.)



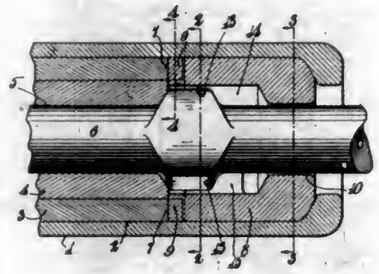
1. In a clothes wringer, a pair of pressure rollers, a pair of guard rollers adjacent to the pressure rollers, an idle gear wheel, a gear wheel rotatable with one of the rollers of each pair and meshing with the idle gear wheel, a slidable element on which the idle gear wheel is mounted, and means having an open end for the insertion of the slidable element for guiding the latter and alining the axis of the idle gear wheel with the axes of the other gear wheels.

1,661,655. DRIER. CLAUD E. FULLER, New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1926. Serial No. 128,041. 3 Claims. (Cl. 34—19.)



1. An improved drying apparatus for brick and the like comprising a pipe rack drier for holding a plurality of layers of brick thereon, an air inlet, a deflector extending from a point above the inlet upward and to the top of the pipe rack drier whereby the air is prevented from rising above such deflector, said deflector guiding the air from the inlet through the pipe rack drier and around the brick therein.

1,661,656. CHUCK MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 7, 1920. Serial No. 387,240. 6 Claims. (Cl. 121—32.)



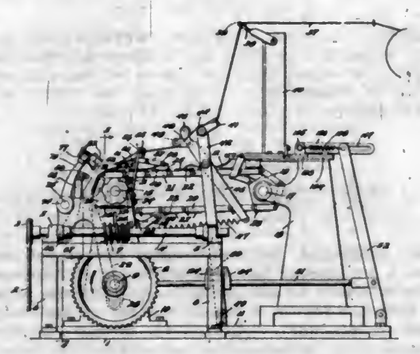
1. A chuck mechanism comprising a rotating member and a chuck member loosely clutched thereto and provided with means for the reception and locking therein of a lugged drill steel, said member having also lug engaging portions adapted to support the lugs during rotation.

1,661,657. GRADING MACHINE. JOHN D. GRABILL, Woodstock, Va. Filed Sept. 10, 1927. Serial No. 218,802. 11 Claims. (Cl. 209—84.)



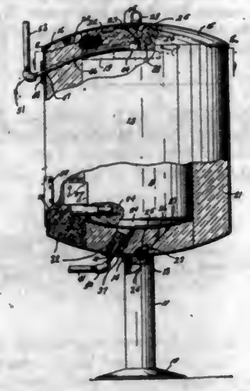
1. In a grading machine, the combination with an endless traveling sizing chain and supporting and driving means therefor, of an endless flexible cover member for the sizing chain adapted to be arranged thereon to travel therewith and to close the sizing openings of the chain, and means for securing the cover member to the sizing chain.

1,661,658. MACHINE FOR MAKING DISPLAY CARDS. GEORGE GRAY, Jr., Philadelphia, Pa., assignor to Largman, Gray Company, Croydon, Pa. Filed Mar. 6, 1926. Serial No. 92,983. 19 Claims. (Cl. 93—1.)



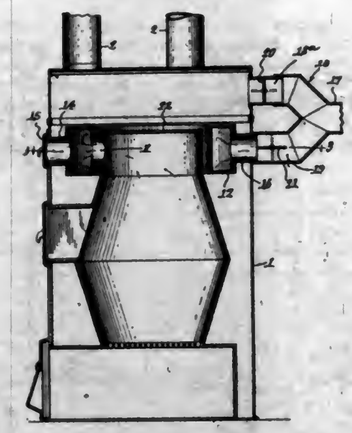
1. In a machine of the class described, means for feeding cards therethrough, and means for threading display tape through and across the face of said cards to lay flat upon the latter.

1,661,659. WATER STORAGE TANK. PERCY GRAY, Jefferson, Iowa. Filed Feb. 1, 1926. Serial No. 85,229. 8 Claims. (Cl. 220—15.)



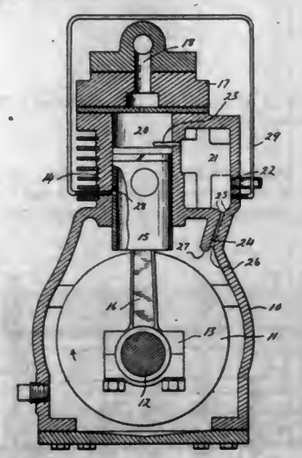
1. In a device of the class described, an outer container, an inner container received therein and spaced from the walls thereof, a member secured to the bottom of the inner container on the inner side thereof provided with a plurality of sockets, heat insulating arms received in said sockets and inclined upwardly in diverging relation, sockets on the underside of the inner container receiving said arms, spaced sockets on the top of the inner container, heat insulating arms received therein and converging upwardly, a removable cover for the outer container, and a detachable member secured on the under side thereof having sockets receiving the ends of said last-described arms, and a member accessible from outside the cover for securing said last-described member in position.

1,661,660. COLD-AIR CONNECTION. ELMER E. GULLION, Kokomo, Ind. Filed June 14, 1926. Serial No. 115,958. 1 Claim. (Cl. 126—99.)



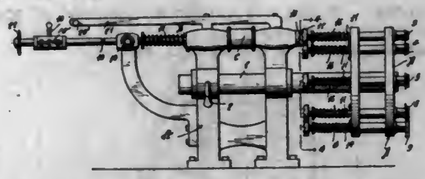
In a device of the class described, a hot air heater comprising a casing, a furnace in the casing and provided at its upper end with a drum, a radiator ring disposed about the drum in spaced relation thereto, a connection establishing communication between the drum and the radiator ring, the casing being provided with an internal space located above the radiator ring and above the drum, a hot air delivery flue connected to the casing and communicating with the aforesaid space, an outlet pipe for the products of combustion, the outlet pipe having short branches, one branch being slightly longer than the other, the longer branch communicating with the radiator ring through the casing, the other branch being joined to the casing and being in communication with the aforesaid space, and dampers controlling the branches of the outlet pipe.

1,661,661. COMPRESSOR. HAROLD A. GREENWALD, Detroit, Mich., assignor to Thomas C. Whitehead, Detroit, Mich. Filed May 9, 1927. Serial No. 189,999. 8 Claims. (Cl. 230—206.)



1. The combination with a pump having a crank case, and a lubricant arresting chamber positioned near the pump cylinder having intake and outlet ports therein, of means permitting a return of the gas entrapped in the crank case to the chamber when the pressure in the former is greatest including a passage extending from the cylinder and communicating with the chamber.

1,661,662. SHOE MACHINE. ALI HADI, Detroit, Mich. Filed Feb. 6, 1926. Serial No. 86,495. 2 Claims. (Cl. 12—89.)

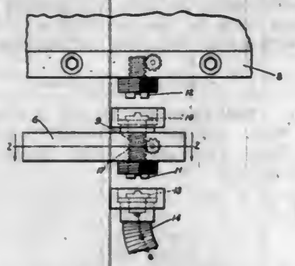


1. In a machine of the character specified, a supporting frame, a drive shaft mounted therein, a second shaft journaled in said frame below the drive shaft, a rotatable carriage keyed to said second shaft, a series of sleeves mounted on said carriage in a circle concentric to the second shaft, a series of cutter shafts each reciprocable in a respective sleeve for protraction and retraction and adapted for selective alinement with the first shaft, spring surrounding said cutter shafts and urging them to retracted position, and clutch elements on the rear end of each cutter shaft and on the front end of the first shaft arranged for cooperative engagement.

1,661,663. CHASSIS-LUBRICATION-CONTROL DEVICE. GUS A. JAMERSON, Cincinnati, Ohio. Filed Feb. 26, 1925. Serial No. 11,857. 9 Claims. (Cl. 184—7.)

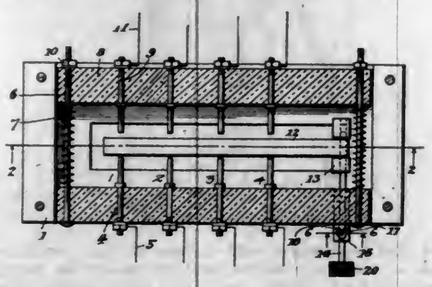
1. In a motor vehicle having a chassis lubricating system, and an accessory with actuating mechanism therefor; the combination of a control device for said lubri-

cating system, and means to connect said device to a moving part of the vehicle to be driven thereby and to



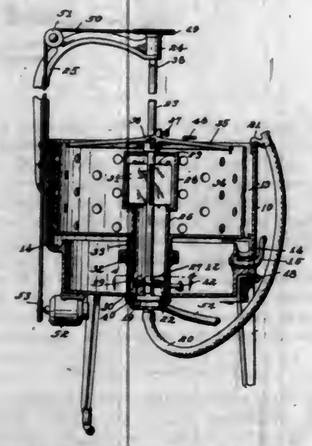
the actuating mechanism of the accessory, thereby to actuate said accessory.

1,661,664. IGNITION-SPARK TESTER. ROBERT M. JOHNSON, Westmoreland, Calif. Filed May 31, 1927. Serial No. 195,297. 4 Claims. (Cl. 175—183.)



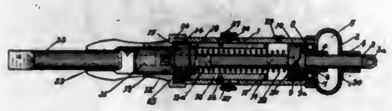
2. A device of the character described comprising a casing, bolts mounted at one side of the casing, springs coiled about the bolts, a block slidably mounted upon the bolts and bearing against the springs, means mounted upon the bolts for holding the block at an adjusted position, aligned terminals carried by the block and an opposite side of the casing and a tongue adapted to be interposed between the terminals.

1,661,665. WASHING MACHINE. ROBERT S. KIRKPATRICK, Des Moines, Iowa. Filed Sept. 30, 1925. Serial No. 59,490. 8 Claims. (Cl. 68—18.)



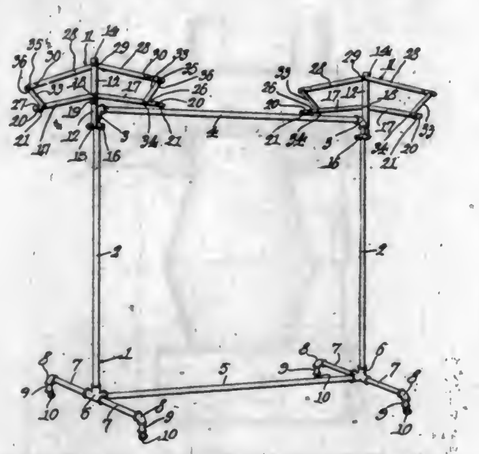
1. A washing machine having a tub provided with upper and lower compartments, the upper compartment being larger than the lower compartment and provided with a trough at its lower end, means for delivering water from said trough to either the interior of the lower compartment or the exterior of said tub, a perforated container rotatively mounted concentrically within said upper compartment, means for delivering water from said lower compartment to the inner surface of said container, and means for rotating said container.

1,661,666. STRIKING AND BORING MECHANISM. GEORGE MAEHREN, New Monterey, Calif., assignor of one-half to Rocco Ello, Monterey, Calif. Filed July 11, 1927. Serial No. 204,915. 1 Claim. (Cl. 255—36.)



In a tool of the class specified, a casing, a driving cam within the casing, an internal shaft concentrically disposed within the casing, said shaft carrying a complementary cam at the upper end thereof and a hammer bit-stock at the lower end, means to yieldingly keep the cams in contact, a revoluble clutch member journaled in the casing with an axial perforation therethru and being adapted to center the lower portion of said shaft, said shaft being unturnable in the perforation, but free for axial displacement, clutch means on said clutch member a nonrevoluble axially-displaceable change-motion member within the casing adapted to contact either with the complementary cam or the clutch member, complemental clutch means carried by said change member and adapted to arrest the revoluble movement of said clutch member when engaged therewith, and an anti-friction means adapted to reduce the co-efficient of friction between said change member and the complementary cam aforesaid.

1,661,667. RACK COVER. LILLIAN MALLACH, Los Angeles, Calif. Filed June 18, 1927. Serial No. 199,721. 4 Claims. (Cl. 135—5.)



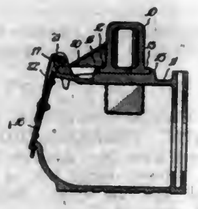
3. In a device of the class described, a frame including a standard and upper and lower members, the outer ends of the upper and lower members being joined together, and the inner ends of the upper and lower members being connected to the standard at vertically spaced points, and means on the lower end of the standard whereby the standard may be connected to a supporting post.

1,661,668. AUTOMOBILE PIT. CHARLES NEWTIN, New York, N. Y. Filed Jan. 10, 1927. Serial No. 162,009. 8 Claims. (Cl. 189—1.)



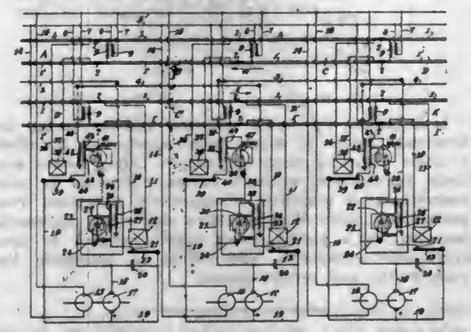
2. A multiple automobile pit comprising a single common chamber, and a plurality of spaced trackways overlying a plurality of individual servicing positions in said chamber.

1,661,669. JOURNAL-BOX-SECURING MEANS. PAUL J. MCCULLOUGH, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Delaware. Filed Jan. 17, 1927. Serial No. 161,576. 6 Claims. (Cl. 105—220.)



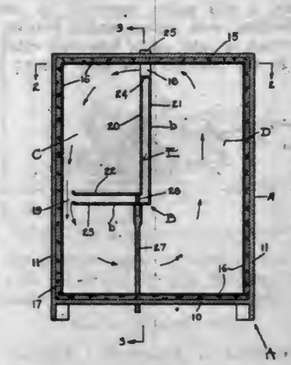
1. In combination, a side frame, a separable journal box cooperatively associated therewith, said side frame having a pair of jaws, said journal box having a pair of gibs for receiving said jaws and for preventing rotative movement between said side frame and said journal box, a swinging closure for said journal box, and a hinge pin for said closure member, said pin having engagement with said side frame and said journal box for preventing relative vertical movement between said side frame and said journal box.

1,661,670. CAB-SIGNALING AND TRAIN-CONTROL SYSTEM FOR RAILWAYS. JOHN A. MILLER and GILBERT W. CATTELL, Waukegan, Ill., assignors, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1920, Serial No. 360,751. Renewed Dec. 21, 1927. 13 Claims. (Cl. 246—30.)



1. In a train control system of the class described, a track divided into blocks, a wave wire for each block, means for impressing radio frequent oscillatory current of one frequency upon the wave wires of alternate blocks, means for impressing radio frequent oscillatory current of a different frequency upon the wave wires of the other blocks, and means associated with adjacent blocks responsive to the beat frequency of said currents.

1,661,671. REFRIGERATOR. CHARLES A. MOORE, Edina, Minn. Filed Apr. 22, 1926. Serial No. 103,779. 7 Claims. (Cl. 62—51.)



1. In a refrigerator, a cabinet enclosing a provision chamber, a partition, L-shaped in vertical cross-section, providing a refrigerant compartment in an upper corner of said chamber, the upright branch of said partition falling short, at its extremity of the ceiling of the chamber and the horizontal branch falling short, at its extremity, of an end wall of said chamber, said partition comprising double walls spaced apart to form an air passageway therebetween, also a cap-piece closing the space between the upper edges of the walls of the upright branch, an upright air ingress duct extending through the top of the cabinet and opening at its upper end into the outer air, the lower end of said duct opening through said cap into said air passageway between said walls, and an upright air egress duct disposed between said walls, said egress duct communicating at its upper end with the provision chamber near the ceiling thereof and opening at its lower end into the outer air.

1,661,672. APPARATUS FOR HYDRAULIC DRILLING. EDGAR H. MORRISON, Virginia Beach, Va. Filed Sept. 3, 1927. Serial No. 217,419. 3 Claims. (Cl. 61—80.)

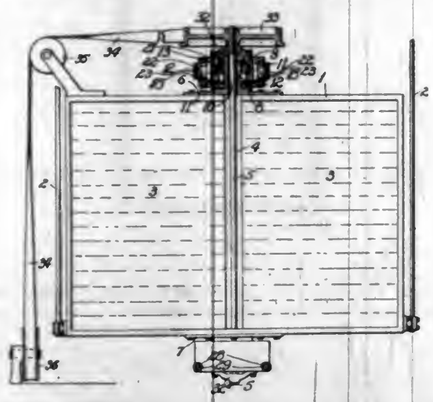


1. A hydraulic excavating tool for structural piles, comprising a head having a main nozzle and a plurality of auxiliary nozzles equally spaced circumferentially on the main nozzle, said nozzles being provided with longitudinal slits, positioned in radial planes of the respective nozzles.

1,661,673. DRIVING MECHANISM FOR PRODUCING GYRATORY MOTION OF A SUSPENDED BODY. BURTON NEAL, St. Louis, and GEORGE H. HEBERBRAND, Kinloch, Mo. Filed Sept. 7, 1923. Serial No. 661,355. 6 Claims. (Cl. 74—14.)

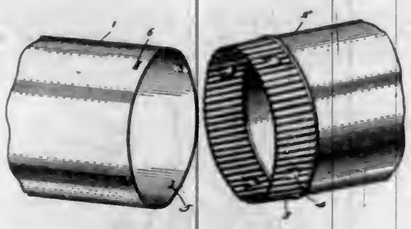
1. In driving mechanism for producing gyratory movement of a suspended body, in combination with a member rotatably mounted on the body, a rolling weight mounted on said member to one side of its axis of rotation and having a reduced portion presenting a spiral surface, a

cable secured at one end centrally of said reduced portion and wound about the spiral surface thereof and having its outer end passed from the underside of said reduced portion, a coil spring mounted on said member, means for holding said spring under tension connected to the outer end of said cable, a second cable connected at one end to the periphery of said weight and passed



from the underside thereof in a direction opposite to that of the first named cable and fixedly secured at its outer end to said member, and means for rotating said member, whereby said weight will roll outward against constantly increasing resistance afforded by said spring, and thereby gradually produce the desired gyratory movement of the body.

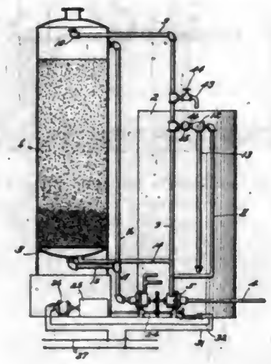
1,661,674. STOVEPIPE ATTACHMENT. MILTON OSBORN, Wayne City, Ill. Filed July 10, 1925. Serial No. 42,810. 1 Claim. (Cl. 285—185.)



A pipe joint for substantially rigidly securing the ends of pipes together in telescopic formation, tongues and projections produced on said pipes by making U-shaped cuts adjacent the end of each pipe with the tongues at one end and the projections in the opposite end, said tongues and projections being bent in a maner whereby they extend away from the end of the pipe in which they are formed, said tongues being on the inner pipe and bent outwardly while the projections are on the outer pipe and bent inwardly, and said pipes being mounted to position the tongues with their free ends in end to end abutment with the free ends of the projections.

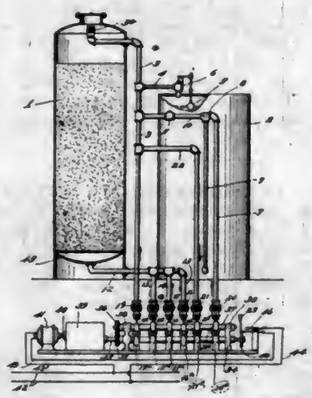
1,661,675. WATER SOFTENER. VICTOR C. NORQUIST, Kansas City, Mo. Filed May 3, 1926. Serial No. 106,189. 11 Claims. (Cl. 210—24.)

1. A regenerating apparatus for water softeners, in combination with a water softening mineral receptacle, having inlet and drain connections, of a brine tank communicating with the receptacle through the water inlet, separate rotary valves in the inlet and drain connections, unitary driving means for manipulating said valves, timing mechanism controlling the driving means for regulating the period of regeneration, said valves



automatically functioning to divide the regenerating period into back washing, salting and flushing stages.

1,661,676. WATER-SOFTENING SYSTEM WITH SEMIAUTOMATIC REGENERATION. VICTOR C. NORQUIST, Kansas City, Mo., assignor to Butler Manufacturing Co., Kansas City, Mo., a Corporation of Missouri. Filed Apr. 26, 1926. Serial No. 104,636 9 Claims. (Cl. 210—24.)



1. A control for water softening systems having intermittent stages of supply and regeneration including a single softening container, supply, brine, service and drain connections, separate valves interposed in said connections, a plurality of oppositely positioned cam mechanisms mounted on coacting shafts and optionally operated by a single power source adapted to synchronously manipulate said valves to determine the regenerative and service stages.

1,661,677. DISTANCE RESPONSIVE CONTROLLER. THOMAS H. PHILLIPS, Jr., Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 12, 1918. Serial No. 216,809. 7 Claims. (Cl. 235—182.)

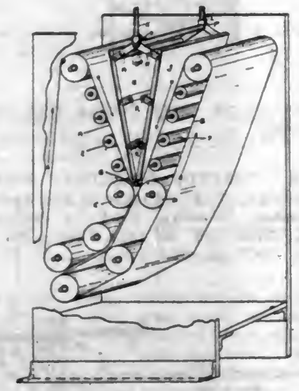
1. An air-distance measuring instrument for aircraft comprising an elongated casing, means for securing the same in an exposed position on the aircraft, a forwardly

positioned revoluble nose on said casing, blades secured to said nose, a train of gearing in said casing operated



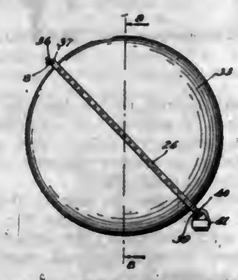
by said nose, and distance indicating means actuated by said gearing.

1,661,678. APPARATUS FOR PULP-BOARD MAKING. HERBERT THEODORE PRICE, Burwood, Sydney, New South Wales, Australia. Filed June 8, 1927, Serial No. 196,334, and in Australia July 16, 1926. 4 Claims. (Cl. 92—39.)



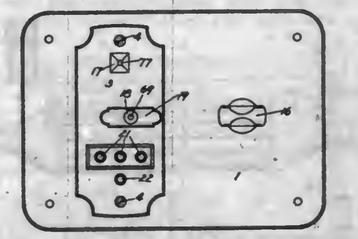
1. In apparatus for pulp board making, two moving and converging endless woven wire belts and two converging and reciprocating woven wire screens substantially as described.

1,661,679. METAL TIRE COVER. HOLLIS F. PRIVETT, Long Beach, Calif. Filed Oct. 5, 1926. Serial No. 139,595. 2 Claims. (Cl. 224—29.)



1. A tire cover comprising in combination a lower trough like structure having a flange at its upper edge, said structure being curved on the bottom to conform to a vehicle tire, an upper trough like structure complementary to the lower structure and having a flange with a downturned edge, the flanges of both structures engaging and the downturned edge fitting over the lower flange, both flanges having apertures therethrough for securing a padlock, and one of the flanges having a tongue and the other a slot to receive the tongue.

1,661,680. COMBINATION LOCK. DARIO ROBERTI, Springfield, Mass. Filed Apr. 12, 1927. Serial No. 183,066. 16 Claims. (Cl. 70—127.)



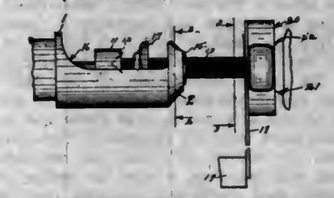
1. In a combination lock, a plate having an opening therein, a case receivable in said opening, and yielding means normally to retain said case in place therein.

1,661,681. MIXER. FLETCHER C. ROOD, Walla Walla, Wash. Filed Feb. 27, 1923. Serial No. 621,554. 2 Claims. (Cl. 251—81.)



1. A mixer of the character shown and described for mixing alloy fillings with mercury to make amalgam fillings for teeth, including in combination a drive shaft adapted to be connected with and driven from the hand piece of a dental engine, a gear on said shaft, means for holding said gear stationary, a pair of plates mounted to revolve with said shaft, an idler gear and a driving gear between said plates and in mesh with each other said idler gear being in mesh with said stationary gear, a container having an open top mounted to turn about a vertical axis with said driving gear above said plates, and means for preventing the material therein from being thrown therefrom as said container is revolved and rotated through said connections, substantially as shown.

1,661,682. WRENCH MECHANISM. JOHN SCHERNER, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Mar. 8, 1922. Serial No. 542,161. 5 Claims. (Cl. 81—55.)

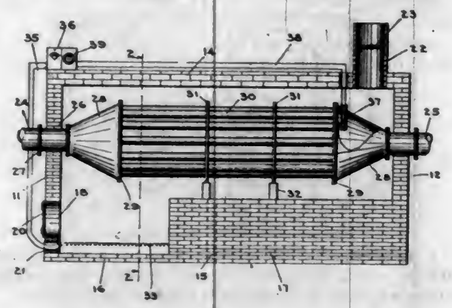


1. In a machine for rotating a nut on a valve stem provided with a spreader and carrying a second nut, means for receiving said stem, means to hold said spreader against rotation, means for rotating one of said nuts, said last means being formed with a cut-away portion to leave the other nut free.

1,661,683. ELECTRIC HEATING SYSTEM FOR OIL PIPE LINES. CHARLES SETZEFANT, Modesto, Calif. Filed Aug. 10, 1927. Serial No. 211,928. 8 Claims. (Cl. 219—38.)

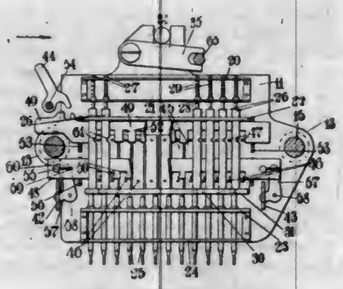
1. In the art described, the combination of a furnace structure having an oil pipe line connected through the ends of the furnace, a series of smaller pipes con-

necting the pipe lines in the furnace, electric heating units in the furnace, a stack, and means to control



the flow of air through the furnace over the heating units and around said smaller pipes.

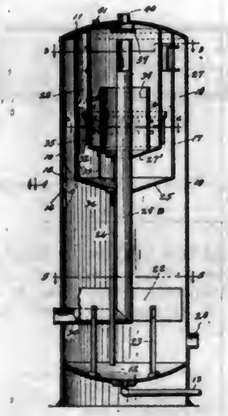
1,661,684. STATISTICAL, CALCULATING, AND LIKE MACHINE CONTROLLED BY MECHANICAL RECORDS. ARTHUR THOMAS, Thornton Heath, England, assignor to The Accounting & Tabulating Corporation of Gt. Britain, Limited, London, England. Filed July 11, 1927, Serial No. 204,850, and in Great Britain Feb. 8, 1926. 6 Claims. (Cl. 235—58.)



1. In a tabulating machine of the character described, the combination with feeding mechanism and mechanism for sensing the data on a record when the record is stationary, of a second designation sensing mechanism constructed as a unit and attachable to the machine and positioned between the said feeding mechanism and the first sensing mechanism and including a frame, means for mounting the frame so that it is capable of vertical movement and including means for permitting adjustment of the frame transversely of the line of feed, designation registering members arranged in said frame, sensing pins also arranged in said frame and positioned in collateral rows with the designation registering members, means for setting said pins and members, means for locking said members, means for testing said pins and members, and mechanism operable from the main shaft of the machine and operably connected with the frame, the setting means and the testing means.

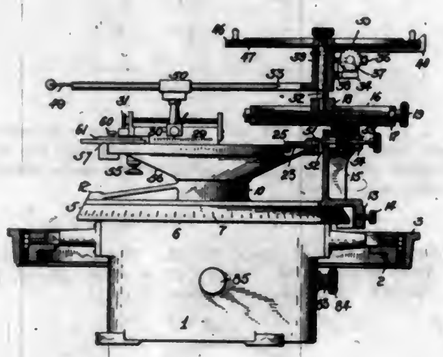
1,661,685. OIL AND GAS SEPARATOR. JAY P. WALKER, Tulsa, Okla., assignor of forty per cent to Guy O. Marchant and six per cent to C. G. Wells, Tulsa, Okla. Filed Mar. 15, 1927. Serial No. 175,445. 20 Claims. (Cl. 183—2.7.)

1. In an oil and gas separator, an upright tank, fluid inlets in the sides of the tank, a shell within the tank spaced from the tank walls, fluid inlets at the upper end of the shell above the tank inlets, a separating cylinder in the shell having its upper portion closed and provided with a fluid inlet communicating with the shell, a gas escape pipe leading from the upper portion of the



cylinder, and an oil outlet leading from the lower end of the tank.

1,661,686. TORPEDO DIRECTOR. MORTIMER F. BATES, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 621,483. 10 Claims. (Cl. 33—67.)

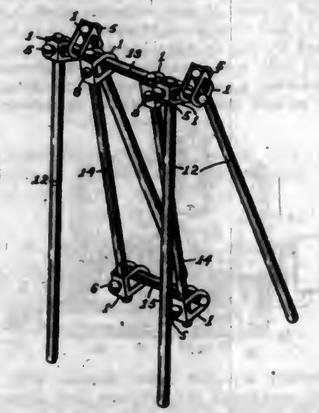


3. In a torpedo director or the like, the combination of a compass card, a pointer bar, sighting means connected therewith, means for locking said card and bar together comprising an electro-magnetic clutch and a switch for controlling said clutch.

4. In a torpedo director, the combination of a sight bar, means for adjusting said sight bar, a telescope carried by said sight bar, means for adjusting said telescope with respect to said bar and means for fixing said bar at will in azimuth.
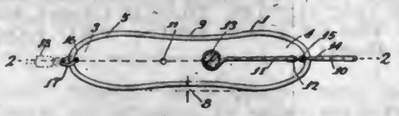
1,661,687. TOY BUILDING ELEMENT. WALTER R. BENJAMIN, Granite City, Ill. Filed Feb. 10, 1927. Serial No. 167,207. 2 Claims. (Cl. 46—35.)

1. An assortment of elements for building a variety of structures, including a U-shaped clamp having an opening in its base and respective aligned openings in its arms, a wood screw adapted to extend through the base opening, and a pair of elements adapted to engage with said clamp, one of said elements being of wood



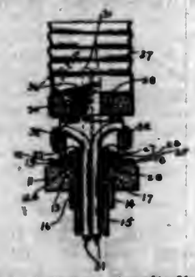
whereby it may be pierced by the wood screw in order to bind it to the base of said clamp.

1,661,688. TROLLING SPOON. EDWARD C. BILLS, Redondo Beach, Calif. Filed Feb. 14, 1927. Serial No. 168,034. 3 Claims. (Cl. 43—45.)



1. A trolling spoon comprising in combination a spoon structure formed of a metal trough, having a concave inner side and a convex outer side considered transversely, the edges being sharpened and being in substantially a horizontal plane, the trough having upturned ends, the edges at the end being at a slightly higher elevation than the edges at the center part, and the side edges at the center part being spaced closer together than the side edges towards the ends of the spoon structure, a hook having a stem fitted in the trough part of the spoon and rigidly connected thereto on the concave side, said stem extending through a slot adjacent the rear end of the spoon, an aperture adjacent the rear of the spoon to attach a lure, and means at the forward end of the spoon to attach same to a line.

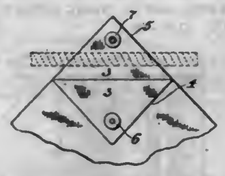
1,661,689. ELECTRIC CANDLE SOCKET. TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 26, 1921. Serial No. 487,649. 7 Claims. (Cl. 173—358.)



7. In an electrical fixture, longitudinally spaced insulating blocks, binding post brackets between the blocks and provided with flanges at one end, a tubular nipple

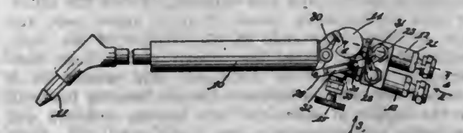
extending through one of the blocks and having an inner end adapted to be spun over said flanges to secure the binding posts to said block, means for securing the tube to a conduit, and lamp terminals carried by the other block and having electrical connection with said binding post brackets.

1,661,690. PILLOW OR CUSHION. ISIDORE BUCHMAN, Brooklyn, N. Y., assignor to The L. Buchman Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 5, 1925. Serial No. 13,404. 2 Claims. (Cl. 5—337.)



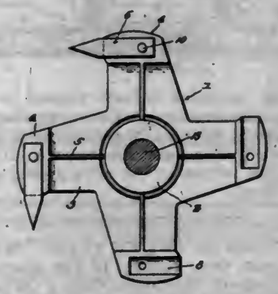
2. A pillow or cushion bifurcated at one corner and lined to form flaps, the interiors of which are open to the interior of the pillow or cushion, said flaps being arranged to receive a clothesline between them, and means for detachably securing said flaps together around the clothesline to suspend the pillow or cushion therefrom.

1,661,691. BLOWPIPE GAS-FLOW CONTROL. ANDREW J. EASON, San Bernardino, Calif., assignor of one-half to Ulah J. W. West, San Bernardino, Calif. Filed May 22, 1926. Serial No. 110,849. 2 Claims. (Cl. 158—27.4.)



1. A blow pipe having two gas conduits, valves mounted in the conduits, each of the valves having a rotatable stem on which there is a slotted arm, a lever pivoted upon the blow pipe, and a link pivoted to the lever and having a pin extending through the slots in both of said arms, whereby upon moving the lever both of said valves may be simultaneously opened or closed.

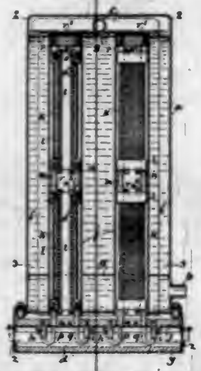
1,661,692. ROTARY CUTTER. HUBERT EVERIST, Sioux City, Iowa. Filed May 18, 1927. Serial No. 192,894. 4 Claims. (Cl. 97—212.)



1. A cutter of the class described comprising a head provided at opposite sides with transverse recesses extending inwardly from one side edge of the head and terminating short of the opposite side, forming integral

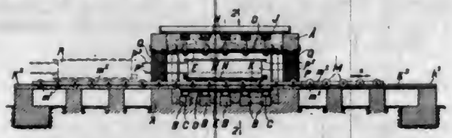
approximately U-shaped frames located at opposite sides of the head and disposed substantially at right angles to a diameter of the cutter within the outer periphery thereof, a straight tooth having a projecting cutting portion and provided with an inner bifurcated attaching portion straddling the recessed portion of the head and having sides fitting the recesses of the head and supported and braced by the walls thereof, and means for retaining the tooth in the recesses of the head.

1,661,693. ELECTRIC WATER HEATER. JOHN HENRY EWART, London, England. Filed July 7, 1926, Serial No. 121,026, and in Great Britain Jan. 12, 1926. 4 Claims. (Cl. 219—39.)



1. An electrically heated water-heater comprising a tank, a plurality of upright tubular guides secured to the bottom of the tank and extending within the latter, the said guides being closed at their upper ends and open at their lower ends to the exterior of the tank, heating elements within the tubular guides, each comprising a conductor of resistance wire wound on a former, fixed inverted socket terminals beneath the tank for the supply of current to the heating elements and detachable plug terminals at the lower ends of the heating elements for insertion in the said sockets as the said elements are raised to place them in position in the tubular guides.

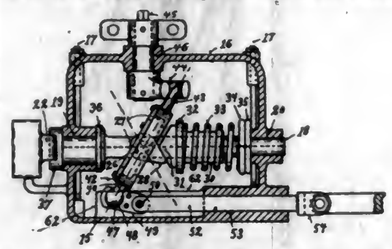
1,661,694. ELECTRIC RESISTANCE FURNACE ADAPTED FOR HEATING BY NITROGENIZATION. ADOLF FRY, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Aug. 2, 1926, Serial No. 126,650, and in Germany Sept. 4, 1925. 1 Claim. (Cl. 266—1.5.)



In an electric resistance furnace adapted for hardening metals by nitrogenization, a roller system, a nitrogenizing receptacle mounted thereon, and a removable electrically heated casing surrounding said nitrogenizing receptacle and the portion of the roller system which lies within the furnace.

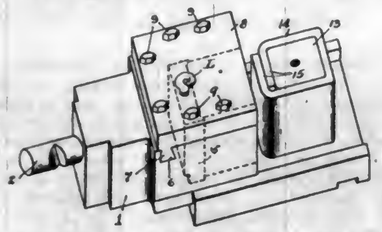
1,661,695. AUTOMATIC SWITCH STAND. WALLACE M. GRAY, Cincinnati, Ohio, assignor to The American Valve and Meter Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 1, 1927. Serial No. 171,899. 7 Claims. (Cl. 246—318.)

1. An automatic switch stand comprising a switch stand casing, an actuating shaft journaled in said casing and provided with a manually operable lever exteriorly of said casing, a rocker member carried by and pivotally mounted upon said actuating shaft and having a limited movement relative to said actuating shaft, a cam member carried by and movable endwise relative to said actuating shaft and having an engaging face held in resilient engagement with a face carried by said pivotally mounted rocker member, a switch actuating connecting rod movable relative to said casing, and means operatively connecting



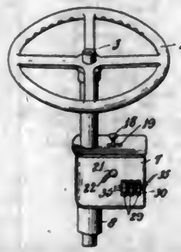
said pivotally mounted rocker member with said switch actuating connecting rod, whereby said connecting rod is adapted to be actuated by said pivotally mounted rocker through rotation of said actuating shaft, and said pivotally actuated rocker is adapted to be rocked from one position to another relative to said actuating shaft through actuation of said switch actuating connecting rod by an automatically actuated switch.

1,661,696. MACHINE FOR MAKING SPRING BANDS AND LIKE ARTICLES. PHILIP T. LAVINDER, Salem, Va. Filed Apr. 3, 1925. Serial No. 20,391. 5 Claims. (Cl. 78—82.)



1. In mechanism for making spring-bands, the combination of a support, a die-post fixed thereto, a header-slide reciprocable relative to said post, forwardly projecting side walls on said slide to embrace said post at both sides, and a crown-block held within said side walls at the rear by undercuts.

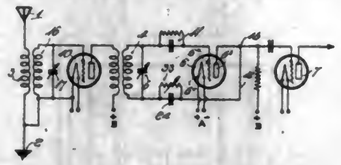
1,661,697. STEERING-COLUMN LOCKING DEVICE FOR MOTOR VEHICLES. WILLIAM JOSEPH LILLICRAPP, North Melbourne, Victoria, and DANIEL LESLIE O'SHEA and AUGUSTINE HOGAN, East Brunswick, Victoria, Australia. Filed Feb. 25, 1927, Serial No. 171,024, and in Australia Oct. 15, 1926. 4 Claims. (Cl. 70—90.)



1. A locking means for vehicle steering columns, comprising a casing having a movable wall, a rod controlling

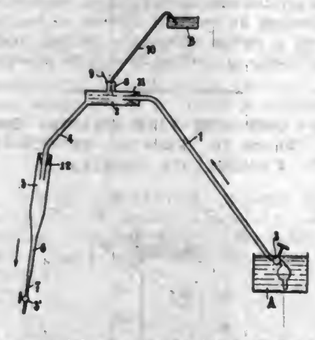
the movement of said wall, permutation locking means for governing the movement of the rod, a latch carried by the casing and terminally formed to interlock with the steering column, means whereby said latch is normally influenced toward an unlocking position, and means carried by the movable wall to hold the latch in locked position when the wall is in a predetermined position.

1,661,698. ELECTRON-TUBE CIRCUITS. JOHN L. LUDLOW, Maplewood, N. J. Filed Aug. 31, 1926. Serial No. 132,743. 2 Claims. (Cl. 250—27.)



1. In an electron tube system the combination of an evacuated vessel, grid, filament and plate electrodes in said vessel, input and output circuits interconnecting said electrodes in non-regenerative relation, a source of potential for heating said filament electrode, a source of potential disposed in circuit with said plate electrode for imparting a positive polarity to said plate electrode, said input circuit being substantially independent of said filament electrode with respect to oscillatory currents in said input circuit and having a connection through a resistance with said output circuit to a point adjacent said plate electrode.

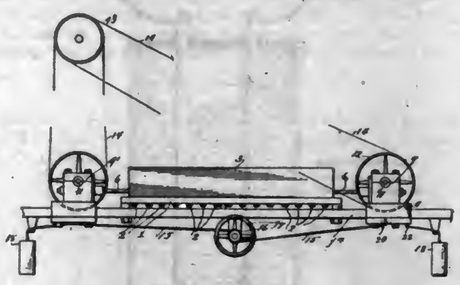
1,661,699. SIPHON. PIERRE MAGNIN, Paris, France. Filed Dec. 11, 1923, Serial No. 680,000, and in France Dec. 21, 1922. 1 Claim. (Cl. 137—20.)



A siphon comprising an intake leg having a stop cock at its lower end, a container into which said intake leg discharges, a discharge leg leading from said container and including at a point intermediate it ends a portion of much greater diameter having an inverted conical lower end and also including an extreme lower end portion of less diameter than said discharge leg and provided with a stop cock, said intake leg extending into said container and having a cone surrounding said extending end, said discharge leg having a portion extending into the upper end of said diametrically enlarged portion and provided at said extending portion with a cone arranged in the upper end of said diametrically enlarged portion.

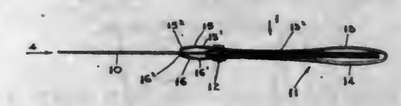
1,661,700. DEVICE FOR DRILLING BRUSH BACKS LONGITUDINALLY. AUGUST MERTES, Lakewood, Ohio. Filed Mar. 5, 1924. Serial No. 697,164. 3 Claims. (Cl. 144—94.)

1. In a device for drilling in a longitudinal direction a brush back, having longitudinal rows of spaced vertical openings therein, a base plate, on which said brush back rests in inverted position, rows of longitudinally and transversely spaced vertical guide pins, projecting from the upper face of the base plate, the pins in each longitudinal row being provided with aligned transverse open-



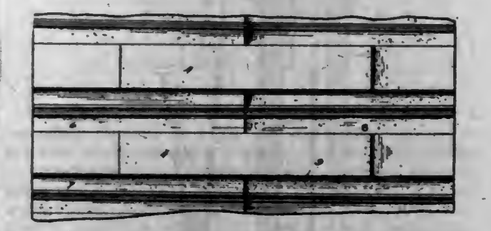
ings, a gang of drills operating at each end of said base plate to pass through said transverse openings in said rows of pins, a head in which each gang of drills is revolvable, means for revolving each gang of drills, and a common source of power for said revolving means.

1,661,701. THICKNESS GAUGE. ROBERT W. MICHLER, Perris, Calif. Filed Aug. 17, 1927. Serial No. 213,539. 5 Claims. (Cl. 33—168.)



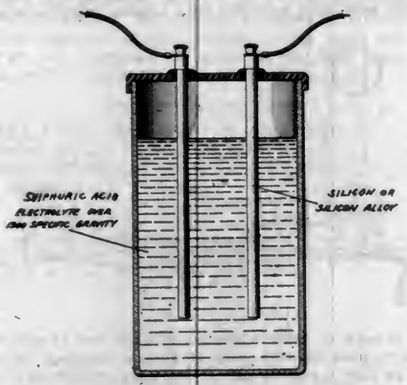
1. A thickness gauge comprising a plurality of gauge blades, a handle therefor consisting of a single flat strip of spring metal bent upon itself forming two sections connected at one end, a bolt spaced from the free ends of said sections, passing through said handle and said blades, the free ends of said sections beyond said bolt being bent outwardly, with their extreme outer ends converging to form a pair of spring clamp members for holding any of said blades in operative position, the outer edges of said clamp members being convex in outline and tending to contact with each other at their middle points only, said sections being provided with oppositely arranged cut out portions and being bent inwardly to yieldingly clamp the blades between said sections.

1,661,702. TRACK-BED CONSTRUCTION AND ARRANGEMENT. GEORGE W. MULLER, Washington, D. C. Filed Dec. 1, 1926. Serial No. 151,902. 46 Claims. (Cl. 238—30.)



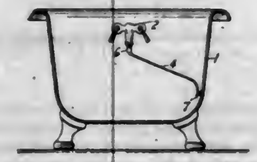
3. In a railway track construction, a track support comprising a plurality of members constructed to be arranged side by side, each member being narrower at one end than at the other end whereby either straight or curved portions of the track bed may be formed, and under-rails extending longitudinally and spaced apart beneath the said members.

1,661,703. ELECTROLYTIC RECTIFIER. CLARENCE E. OGDEN, Cincinnati, Ohio, assignor to The Kodel Radio Corporation, a Corporation of Ohio. Filed Aug. 6, 1926. Serial No. 127,707. 1 Claim. (Cl. 175—318.)



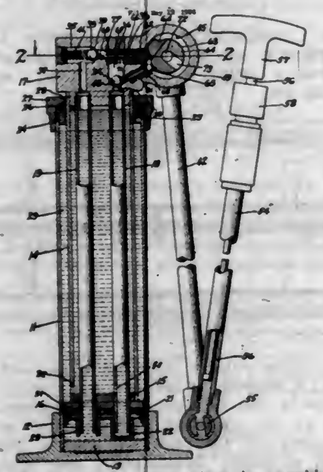
In an electrolytic rectifier, in combination with an electrode containing silicon, an acid electrolyte comprising sulphuric acid of from 1300 to substantially 1700 specific gravity.

1,661,704. WATER SILENCER. JESSE A. OSBORNE, Akron, Ohio. Filed May 25, 1927. Serial No. 194,025. 5 Claims. (Cl. 137—111.)



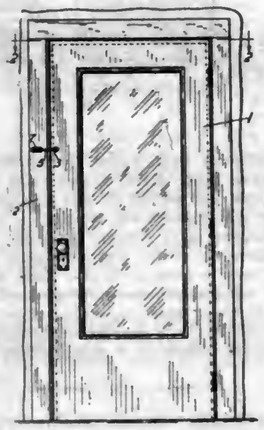
5. In a device for silencing water flowing into tubs or the like having an elevated faucet, a rubber tube having a restricted end to be forced over the faucet and a discharge opening at its lower end, and a rubber suction cup secured to the exterior of the tube and adapted to hold the discharge end thereof adjacent a surface of the tub.

1,661,705. LIFTING JACK. TIMOTHY C. POMEROY, Minneapolis, Minn. Filed May 19, 1926. Serial No. 110,177. 5 Claims. (Cl. 158—9.)



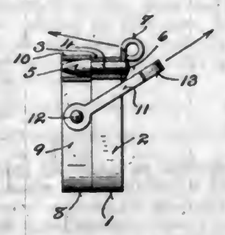
1. A hydraulic jack comprising in combination, a cylinder, a hollow plunger movable therein, a lifting head on the plunger, a plug valve in said lifting head having a pump means connected therewith, fluid passages in the head, one communicating with the cylinder and the other with the plunger, check valves in said passages, and means operable by said plug valve to open and retain said check valves in open position to permit the return of the fluid to the plunger without passing through said plug valve.

1,661,706. DOORCHECK. EARL C. SCHOBERT and FRANK G. MORRISON, Akron, Ohio. Filed Aug. 24, 1926. Serial No. 131,202. 2 Claims. (Cl. 292—272.)



1. In a door check, a slotted keeper having a channel therein, a pivoted arm having a head receivable into the channel through an enlarged opening at one end of the keeper, and a spring within the channel having an S-shaped extremity projecting through the enlarged opening.

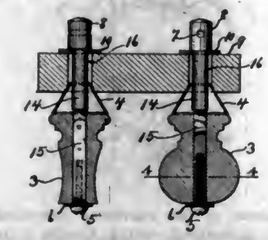
1,661,707. CLIP FOR TIRE CHAINS. BERTRAM A. SMALL, Chicago, Ill. Filed Nov. 13, 1926. Serial No. 148,297. 2 Claims. (Cl. 152—14.)



1. A pair of tire chain clips adapted to be positioned with the ends of the chains crossing, said clips each comprising arched arms adapted to grip the tire and terminating in eyelets, connecting pins having shanks securely held within the eyelets of one clip, and having rounded tapered heads positioned within the eyelets of the other clip.

1,661,708. TUNING KEY FOR STRING INSTRUMENTS. THEODORE H. STARK, New York, N. Y., assignor to C. Bruno & Son, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1926. Serial No. 109,831. 1 Claim. (Cl. 84—305.)

In combination with a musical string instrument having a head piece provided with a bore adapted to receive a key, a key located in said bore and having a first end portion projecting beyond the upper face of the head piece of the said instrument, the second end portion of the said key projecting beyond the lower face of said head piece and having an internally threaded recess in the bottom thereof, a finger-piece for said key having a bore and slidably mounted upon said second end portion of the said key, the top of the said finger-piece being located below the bottom of said head piece, a hollow and bendable friction cone slidably mounted upon the



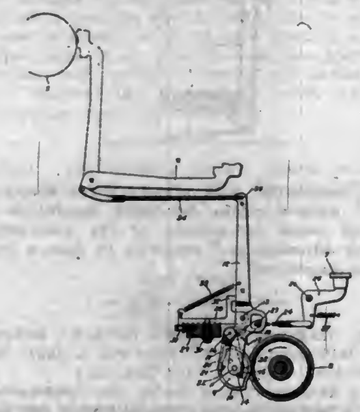
said key, the bottom of the said friction cone abutting the top of the said finger-piece, the top of the said friction cone projecting into the bore of the head piece and being located below the top of the said bore, the said cone having a portion thereof abutting the inner wall of said bore, and a tightening screw having a head located at the underside of the said finger piece, the shank of the said screw being located in said internally threaded recess.

1,661,709. VENTILATING SUNSHADE. WILLIAM J. TATE, Flint, Mich. Filed Apr. 30, 1927. Serial No. 187,813. 1 Claim. (Cl. 156—17.)



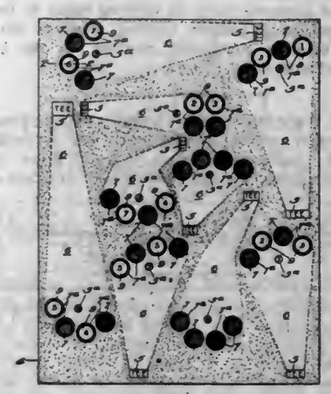
In a ventilating sun shade of the class described a plurality of lazy tongs; a plate mounted on alternate similarly directed links of said tongs, the central portion of said plate being twisted to extend perpendicularly to the link; and a sun shade mounted on said perpendicularly extended portion.

1,661,710. POWER MECHANISM. RUSSELL G. THOMPSON, Rochester, N. Y., assignor, by mesne assignments, to North East Appliances Inc., a Corporation of New York. Filed Jan. 5, 1925. Serial No. 727. 3 Claims. (Cl. 197—17.)



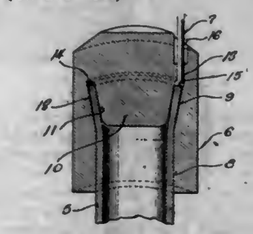
1. Power mechanism, for a typewriter or the like, comprising: a constantly rotary power roller; a power lever; a cam carried by the power lever and cooperable with the power roller; a bearing-member, on which the power lever is pivoted, provided with a stop cooperating with the power lever to determine its normal inactive position; a spring, connecting the power lever and the bearing-member, tending to swing the power lever in the direction of said stop; connections, between the power lever and the part of the machine which is to be actuated, having provision for lost motion; and means for turning the cam into engagement with the power roller.

1,661,711. GAME. HOWARD A. VAUGHAN, Chicago, Ill. Filed Aug. 5, 1927. Serial No. 210,735. 6 Claims. (Cl. 273—87.)



1. In a game device, the combination of a board having a series of places thereon, each for a plurality of tokens, and a sufficient number of differently numbered tokens indicating strokes, for consecutive placement in the entire series of places so the number of strokes for a series of plays by each player can be aggregated from the tokens on the board.

1,661,712. ELECTRICAL APPLIANCE. PAUL VAN WAGNER, New York, N. Y., assignor to Line Material Co., South Milwaukee, Wis., a Corporation of Wisconsin. Filed July 31, 1924. Serial No. 729,318. 5 Claims. (Cl. 173—31.)



2. A device of the character described, comprising a cap member having its under face bored, the inner end of the bore being taperingly enlarged, and said cap having an opening in its upper portion communicating with the upper end of said bore; a ground rod of a normal diameter substantially equal to the minimum diameter of said bore, a conductor adapted to have one end passed into the taperingly enlarged end of said bore through the opening in the cap member, said cap member being adapted to be forced on the upper end of the rod, and means within said bore for swelling the upper end of the ground rod as the cap member is pressed thereover to rigidly secure the cap member thereon and press the end of the conductor in the tapered bore into electrical connection therewith.

1,661,713. DENTAL DEVICE. HORACE E. BARKER, Brooklyn, N. Y. Filed Jan. 15, 1927. Serial No. 161,257. 6 Claims. (Cl. 15—188.)



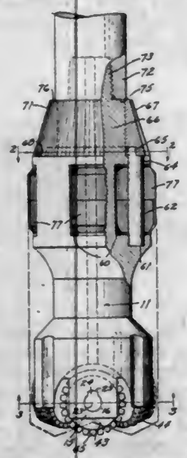
1. A dental device comprising a tubular body of soft resilient material divided longitudinally through one side thereof and serrated along its meeting edges to form two opposing series of arcuate rubbing members which are normally held in contracted position by the inherent elasticity of said body.

1,661,714. METHOD OF AND APPARATUS FOR MANUFACTURING SCREEN-FRAME STOCK. ARTHUR T. BRENNAN, Detroit, Mich. Filed Nov. 4, 1926. Serial No. 146,101. 14 Claims. (Cl. 144—2.)



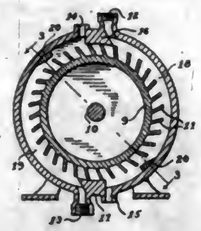
1. In a machine for manufacturing screen-frame stock; angularly arranged saws adapted to separate a longitudinal strip, substantially rectangular in cross section, out of one corner of a piece of frame stock; means adapted to spread said strip, as it leaves the saws, away from the body of the piece of frame stock; a saw arranged to travel in the opening produced by such spreading of the strip to cut a kerf in the bottom of the shoulder formed by the removal of the strip, which kerf is spaced from the side wall of said shoulder; and means engaging the strip beyond said saw to move the same into position upon said shoulder over said kerf.

1,661,715. ROTARY BIT. ANTHONY E. CARLSON, Los Angeles, Calif. Filed May 18, 1927. Serial No. 192,225. 11 Claims. (Cl. 255—71.)



9. A bit for drilling wells, comprising: a body; a primary shaft carried by said body; a secondary shaft carried by said body; a key carried by one of said shafts adapted to engage in a notch of the other of said shafts for locking said secondary shaft to said body; cutters carried by said shafts; and means for locking said primary shaft to said body.

1,661,716. FLUID TURBINE. JOHN ALBERT CHOQUETTE, Ottawa, Ontario, Canada. Filed Nov. 7, 1924. Serial No. 748,404. 4 Claims. (Cl. 253—140.)



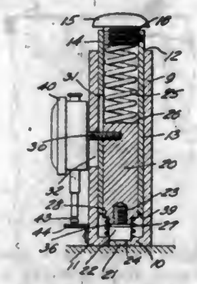
1. In a turbine of the character described, the combination of a cylindrical casing having a pair of diametrically opposed fluid discharge ports, a pair of diametrically opposed fluid inlet ports provided closely adjacent said discharge ports, inwardly extending projections between each adjacent pair of inlet and discharge ports; and a rotor housed within said casing, said inwardly extending projections being in substantially fluid tight contact with or proximity to said rotor, and circumferentially adjustable means for restricting the space between the vanes of the rotor and the casing at a point between said projections.

1,661,717. RAILWAY CAR. ANDREW CHRISTIANSON, Butler, Pa., assignor to Standard Steel Car Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1926. Serial No. 142,920. 9 Claims. (Cl. 189—75.)

1. The combination with a railway car having side posts, of window guides detachably secured to said posts, and means independent of the guide-securing means, for adjusting said guides to fit window frames of various dimensions.

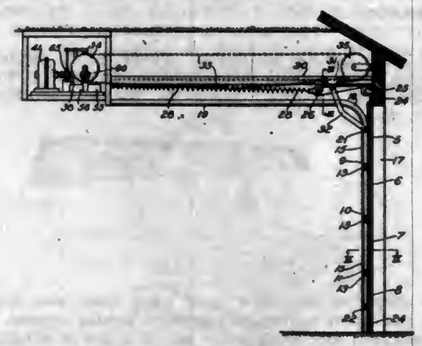
1,661,718. HARDNESS-TESTING DEVICE. DONALD C. DAVIS, Williamsville, N. Y. Filed Feb. 2, 1927. Serial No. 165,408. 8 Claims. (Cl. 265—12.)

1. In a hardness testing device, the combination of a casing, a plunger slidably arranged therein and having a test member adapted to be pressed against a sample, an operating member extending into said casing and slidable relatively thereto and to said plunger, a yielding measuring element of known capacity in said casing and disposed between said operating member and said plunger and which is compressible by movement of said operating member in one direction to move said plunger



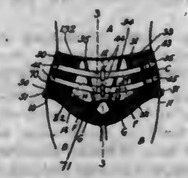
and press said test member into said sample, and positive stop means for arresting the travel of said operating member when the same has been moved a predetermined distance so as to apply a definite compression to said measuring element.

1,661,719. DOOR MECHANISM. ROY M. EDWARDS and JULIUS P. POSCHEN, Pittsburgh, Pa. Filed Aug. 13, 1927. Serial No. 212,622. 6 Claims. (Cl. 268—59.)



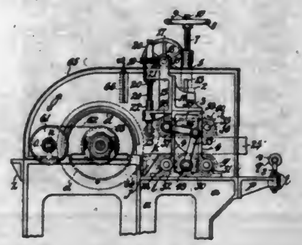
1. The combination comprising a closure member having hinged panels, guide rollers attached to the ends of the panels, a track for said guide rollers, said track having a central curved portion and two substantially straight ends corresponding to the open and closed positions of said closure member, respectively, a substantially straight runway disposed substantially parallel to but offset from the straight end of the track in which said closure member is in its open position, a carriage movably mounted on said runway, and inclined link connecting said carriage to one of the panels of said closure member, and independent means for moving said carriage along its runway.

1,661,720. ABDOMINAL BAND. MARIE ALIDA FONTAINE, Manchester, N. H. Filed Nov. 23, 1925. Serial No. 70,784. 2 Claims. (Cl. 2—41.)



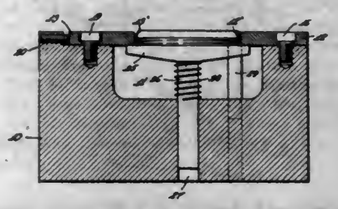
1. In an abdominal supporter, the combination of a knitted band adapted to go around the body and to be tightened and fastened and having a non-elastic flexible front portion reinforced with vertical strips of featherbone adapted to fit the front of the abdomen; with leg straps of knitted material attached to the bottom of the band; and triangular supporting pieces of soft material each fastened at its top edge to the bottom edge of the front portion and at its bottom edge fastened partly across the adjoining leg strap.

1,661,721. APPARATUS FOR GRINDING OR COMMINUTING RUBBER AND OTHER MATERIALS. CHARLES EDWARD GARDNER, Gloucester, England. Filed May 7, 1927, Serial No. 189,654, and in Great Britain Feb. 19, 1926. 11 Claims. (Cl. 83—6.)



1. Apparatus for grinding india rubber and other materials comprising a framework, a rotary abrading drum, a feed table, a plurality of feed rollers associated with said feed table, a plurality of elastically mounted feed rollers disposed in a plane substantially parallel with and above said feed table, means for vertically adjusting the last mentioned feed rollers, and means for positively driving all of said feed rollers.

1,661,722. GAUGE. BENGT M. W. HANSON, Hartford, Conn.; Einar A. Hanson and Clarence E. Whitney, executors of said Bengt M. W. Hanson, deceased. Filed June 17, 1925. Serial No. 37,852. 6 Claims. (Cl. 33—199.)

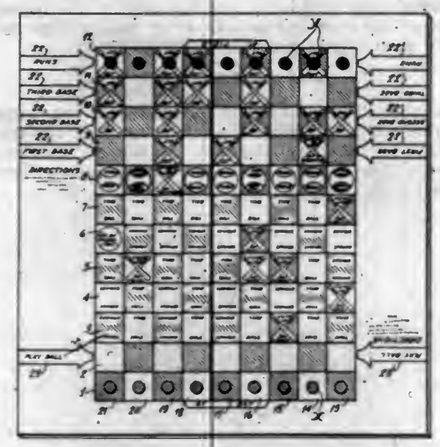


1. A gauge comprising opposed gauging members one at least of which has a plurality of spaced apart gauging teeth, a support for holding the pieces while moving the same into engagement with and between said gauging members, said support being mounted for movement in the direction in which said teeth are spaced apart, and means for urging said support towards said gauging members.

1,661,723. GAME. SAMUEL A. HELFGOTT, Brooklyn, N. Y. Filed Aug. 6, 1927. Serial No. 211,057. 9 Claims. (Cl. 273—131.)

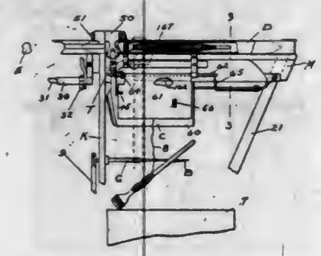
1. A baseball game board, a portion of the face of which is divided into squares of alternately different colors there being nine rows of squares extending longitudinally of the board and upwardly of nine rows of squares extending transversely of the board, the transverse row of squares at one end of the board being suitably marked to designate men at bat and the transverse row at the opposite end of the board being suitably marked to designate men at field, legends for suit-

ably marking transverse rows near the at field end of the board with designations appropriate to first, second and third base, award legends on certain squares and



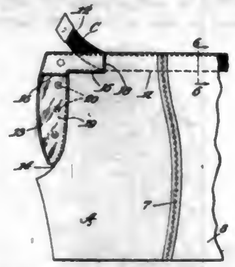
penalty legends on certain other squares, in combination with checks adapted to be placed on and moved over the squares of the board.

1,661,724. BOBBIN-STRIPPER TRAP. JOHN J. HENDERSON, Dracut, and HOWARD C. DEERING, Malden, Mass.; Anna I. Henderson, administratrix of said John J. Henderson, deceased, assignors to Automatic Bobbin Cleaner Co., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 30, 1925. Serial No. 26,900. 9 Claims. (Cl. 139—262.)



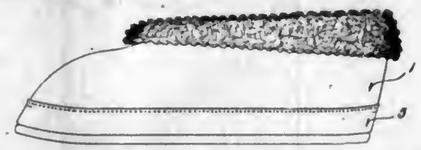
1. The combination with a weft replenishing loom having a frame, a change shaft sleeve, bobbin changing mechanism, a lay beam with a bobbin passage, and a picker stick which enters said passage; of a trap positioned under said bobbin passage comprising a fixed sheet metal jaw extending down from a point on one side of said passage in front of the forward position of the picker stick in said passage; and a movable sheet metal jaw having a padded lower edge cooperating therewith pivoted to the lay beam at the other side of said passage; a spring arm adjustably fixed to the movable jaw; a trap spring adjustably connecting the spring arm with the lay beam frame whereby the padded lower edge of the movable jaw is normally kept in engagement with the fixed jaw; an opening arm extending towards the breast beam, fixed to the movable jaw and pivotal therewith; a bobbin changing lever carried by the change shaft sleeve; a short shaft revolvible in bearings carried by the loom frame; a short arm carried thereby and pivoted to the bobbin changing lever; an arm guide carried by the other end of the short shaft; and a yarn winding member positioned proximate the path of the discharged bobbin.

1,661,725. BATHING GARMENT. NATHAN JENKINS, Chicago, Ill. Filed June 10, 1927. Serial No. 197,803. 5 Claims. (Cl. 2—238.)



2. A garment which consists of a plurality of united fabric sections forming trunks having a vertical opening, a belt adjacent the waist line of the trunks having a continuous connection therewith except in the region immediately adjacent said opening, the sections forming the garment being cut to provide a tab adjacent the waist line which is folded in coincidence therewith to provide a double thickness of the material, a line of stitching extending transversely across the belt for securing the same to the waist line at the point where the belt free ends commence, said stitching passing also through the turned over tabs to secure the same in place, substantially as described.

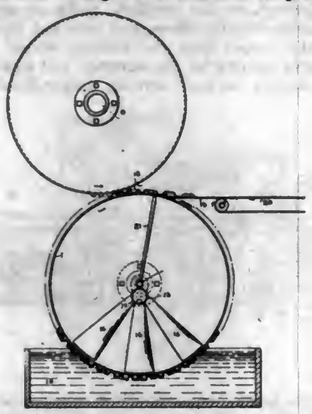
1,661,726. HOUSE SLIPPER. PETER S. B. JENSEN, Berlin, Wis., assignor to Berlin Glove Co., Berlin, Wis. Filed Aug. 25, 1926. Serial No. 131,386. 1 Claim. (Cl. 36—9.)



A slipper comprising a fleece lined upper and inner sole, said upper having an outturned portion secured to the marginal edge of the inner sole by a line of stitching and forming an outturned seam, an outer sole having an inturned portion, a vamp strip having an inturned portion positioned above the inturned portion of the outer sole, a line of stitching joining the inturned portions of the vamp strip and outer sole and forming an inturned seam spaced upwardly from the outer sole, the inner sole and the lower portion of the upper being surrounded by the outer sole and vamp strip with the outwardly projecting seam fitted beneath the inwardly projecting seam, and a line of stitching joining the vamp strip to the upper.

1,661,727. METHOD AND APPARATUS FOR MAKING PACKING FOR FRAGILE ARTICLES. MORRIS KOPPELMAN and SIMON COOPER, Brooklyn, N. Y., assignors, by direct and mesne assignments, to Moulded Pulp Devices, Incorporated, a Corporation of Maryland. Filed Apr. 15, 1922. Serial No. 553,139. 9 Claims. (Cl. 92—42.)

1. The method or process of making packing units for globular fragile articles, comprising flat portions with hollow members projecting therefrom in truncated conical form, with depressed middle portions adapted to receive the globular article at its inner upper edges, which consists in taking a form of foraminous material, producing suction on one side thereof, immersing the form in a liquid having fibrous material floating therein, thereby causing the liquid to be drawn through the foraminous form and to deposit the fibrous material thereon, then removing the form from the liquid with the coating of fibrous material thereon, pressing a die corresponding in contour to the form against the exterior of the said coating, then removing the die and then progressively



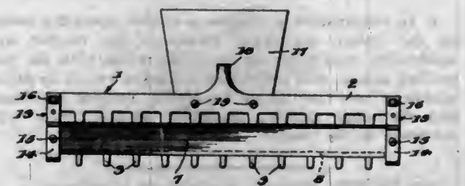
applying jets of air or the like under pressure to the side of the form to which the suction is applied and thereby removing the formed coating therefrom.

1,661,728. BOX OR RECEPTACLE FOR HOLDING SMALL ARTICLES. WILLIAM D. LA RUE, Philadelphia, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed July 11, 1921. Serial No. 483,723. 3 Claims. (Cl. 220—20.)



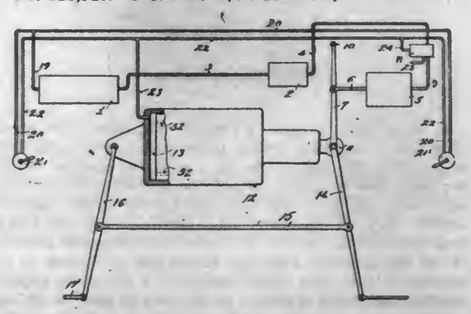
1. A container for small articles comprising a box, a removable tray retained within said box by the friction between the ends thereof and the walls of said box, means to definitely position said tray within said box and to assist in holding it from sliding within said box, a wall of said tray dividing the opening into said box into two equal parts, and a swinging member hinged to the top edge of said wall of said tray and adapted to be swung to cover either part of said opening.

1,661,729. GARDENING IMPLEMENT. ELEFTERIOS S. LEONARDOS, Shreveport, La. Filed May 31, 1927. Serial No. 195,498. 4 Claims. (Cl. 55—10.)



1. An implement including in combination with a rake, spaced brackets on portions of the rake head having the free portions thereof angularly disposed with relation to the rake tines and bent into substantially V-shaped formation, the body portions of said brackets being shaped to correspond to the shaping of said rake tines and disposed coincidentally therewith, and a cutting blade secured to said free portions transversely of said tines and so positioned as to shearingly cut matter engaged thereby with drawing of the rake over a surface.

1,661,730. AIR-BRAKE RELEASE. JOHN S. MCWHIRTER, New York, N. Y. Filed Aug. 4, 1926. Serial No. 126,949. 8 Claims. (Cl. 303—71.)

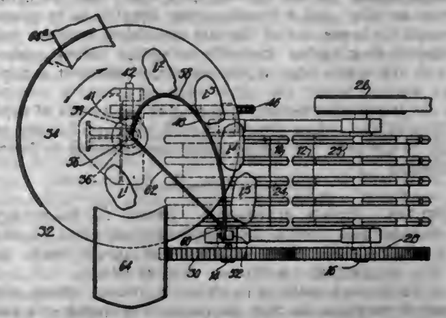


1. In a brake release mechanism the combination with pneumatic air brake applying means including a piston of means interconnected with said brake applying means for releasing the brakes when the brake applying means is deenergized, said interconnected means being mechanically fastened to the piston of said pneumatic means.

1,661,731. PROCESS FOR RECLAIMING USED LUBRICATING AND INSULATING OILS. ARCHIBALD F. MESTON, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 23, 1925. Serial No. 17,801. 5 Claims. (Cl. 196—16.)

4. The process of reclaiming used oil, which comprises heating the oil to a temperature of from 150° F. to 200° F. and mixing with a solution of trisodium phosphate, subjecting the oil to a plurality of operations each of which comprises centrifuging to separate oil from the trisodium phosphate solution and agglomerated impurities, and after one and before another of said separating operations cooling the oil to a temperature of from 120° F. to 140° F., and then mixing the oil with more than one and less than four per cent activated earth and centrifuging the oil to remove suspended earth and impurities that have not been removed in the preceding operations.

1,661,732. FEEDER FOR BREAKERS. FRANK PARDEE, Hazleton, Pa. Original application filed Mar. 21, 1924, Serial No. 700,749. Divided and this application filed Jan. 6, 1925. Serial No. 824. 6 Claims. (Cl. 83—52.)



1. In combination with a breaker a moving carrier above the breaker for feeding lumps thereto and a sta-

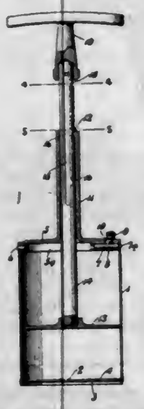
tionary blade in juxtaposition to said carrier for orienting the lumps fed thereby so that each lump falls from said carrier with its greatest length extending in a determined direction.

1,661,733. SWITCH-POINT PROTECTOR. JAMES CLARENCE PATTERSON, East Orange, and JAMES HENRY LYNCH, Jr., Jersey City, N. J. Filed May 23, 1925. Serial No. 32,238. 4 Claims. (Cl. 246—435.)



1. A railway switch structure including the main rails and a movable switch point operatively associated with one of the main rails, of a protector member therefor positioned at the inner side of the other or opposite rail, said protector member having its upper portion formed with an upwardly and longitudinally extending deflecting flange having its outwardly directed surface at its end portions inwardly flared and positioned to be engaged by the inner flange surface of a wheel for deflecting the associated wheel to clear the end portion of the switch point and having its lower portion correspondingly formed to be reversible and means for securing the protector member in position.

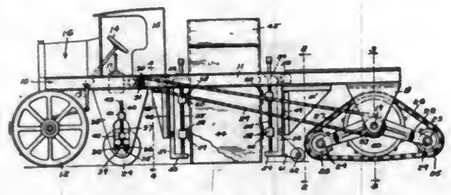
1,661,734. ICE-CREAM DISPENSER. PETER D. PEARCE, Grand Rapids, Mich. Filed Jan. 16, 1926. Serial No. 81,613. 3 Claims. (Cl. 107—48.)



3. A device of the class described comprising, a cylindrical member adapted to be forced into a body of ice cream, means for forcing the ice cream from the cylindrical member, and a coupling ring adapted to be placed around the lower end of the said cylindrical member, said coupling ring having inwardly extending ledges against which the lower edge of the cylindrical member engages and against which the upper edge of a carton engages at the lower side thereof, said ring at the points of separation of the ledges providing vent passages for the escape of air from the carton when the ice cream is forced thereinto.

1,661,735. ROAD MACHINE. CYRUS C. PERSONETT, Muncie, Ind.; Nelle Personett administratrix of said Cyrus C. Personett, deceased. Filed Apr. 7, 1927. Serial No. 181,742. 4 Claims. (Cl. 94—46.)

1. In a road building machine, a frame, wheels supporting the frame so that the frame is arranged at a substantial elevation above the roadway, a hopper having its top and bottom open and positioned within the frame and extending transversely throughout the major portion of the width of the frame, said hopper extending below the frame for a substantial distance so that its outlet end is adjacent to the roadbed, pairs of uprights detachably secured to the frame and arranged upon opposite sides of the hopper near the corners thereof, adjusting screws bodily carried by the uprights and rotatable with relation thereto without moving longitudinally of the

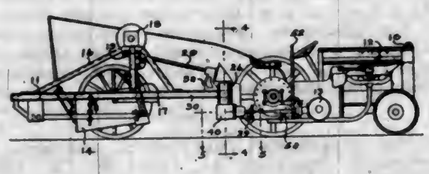


same, blocks having screw-threaded engagement with the adjusting screws, and means connecting the blocks with the hopper near the corners thereof, the adjusting screws being independently rotatable whereby the hopper may be raised or lowered and also angularly adjusted, the uprights, adjusting screws and hopper when assembled as a unit being adapted as such to be removed from within the frame.

1,661,736. PROCESS FOR REDUCING THE VISCOSITY OF NITROCELLULOSIC MATERIALS. CHAUNCEY U. PRACHEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 27, 1925. Serial No. 12,181. 14 Claims. (Cl. 260—148.)

1. The process of treating solid colloidized nitrocellulosic materials, which comprises acting at atmospheric pressure on them with an aqueous mixed mineral acid solution containing nitric acid until the viscosity characteristics of the nitrocellulose are lowered, said solution being of insufficient strength to increase the nitration of the nitrocellulose.

1,661,737. TRACTOR TRAILER CONNECTION. PHILIP RAIMER, Maple Heights, Ohio. Filed Aug. 17, 1925. Serial No. 50,650. 3 Claims. (Cl. 180—53.)

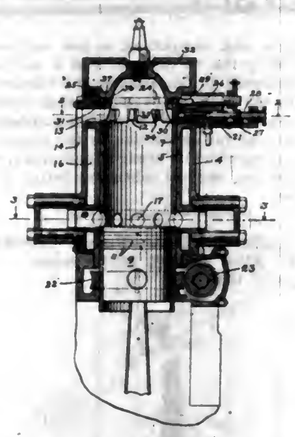


1. In combination, a tractor, a trailer, operating means on the trailer, controlling means on the tractor, and mechanism connecting the operating means with the controlling means, said mechanism including two inter-fitting members, one functioning to permit vertical movement and the other twisting movement of the trailer with reference to the tractor.

1,661,738. INTERNAL-COMBUSTION ENGINE. JOHN A. RYMER, Alameda, Calif. Filed Jan. 29, 1924. Serial No. 689,358. 5 Claims. (Cl. 123—65.)

1. In an internal combustion engine, a cylinder mounted for rotation about its axis and having a bore, a piston

mounted for reciprocation in said bore, an air intake passage adjacent the head end of the cylinder, an exhaust passage adjacent the other end of said cylinder, ports in said cylinder adjacent the head and opposite ends thereof respectively arranged to intermittently and continuously



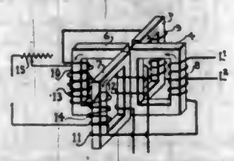
register with said passages during the rotation of said cylinder, means operative to inject fuel into said bore when said head-end ports are not registering with said air inlet passage, and fuel igniting means associated with said cylinder.

1,661,739. BUILDING BLOCK. JOHANNES T. SENTROP, Grand Rapids, Mich. Filed June 10, 1926. Serial No. 115,025. 2 Claims. (Cl. 72—41.)



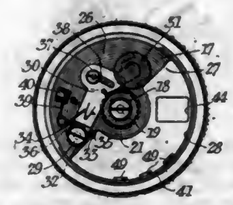
1. An approximately rectangular building block having at its side a longitudinally-extending shoulder spaced below its upper surface and a longitudinally-extending groove spaced inwardly from said shoulder and adapted to receive a reinforcing rod, the block also having at its bottom a longitudinally-extending side flange adapted to seat on such a shoulder of a block beneath.

1,661,740. APPARATUS FOR EFFECTING ENERGIZATION CONTROL OF AN ELECTRIC CIRCUIT. ERWIN R. STOEKLE, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 13, 1921. Serial No. 492,198. 5 Claims. (Cl. 171—119.)



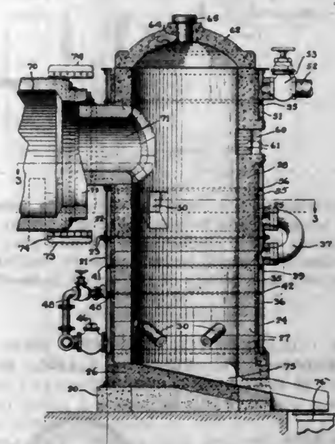
1. A transformer comprising a magnetic structure having primary and secondary coils so associated therewith that the joint inductive effect of the former with reference to the latter is normally substantially zero, and separately excited means inductively related to said coils for imparting a material value to said effect.

1,661,741. SPEED CONTROL FOR MOTION-PICTURE APPARATUS. PHILIP W. TIERNEY, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 3, 1925. Serial No. 425. 12 Claims. (Cl. 88—19.4.)



1. In motion picture apparatus, motor driven mechanism including a rotatable shutter, and a speed operated governor carried by said shutter and operative on said mechanism to control the speed of said mechanism.

1,661,742. REDUCING AND SMELTING FURNACE. ADOLPH W. WAERN, Ontonagon, Mich., assignor to Pine-Waste Products, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 19, 1923. Serial No. 681,592. 4 Claims. (Cl. 263—46.)

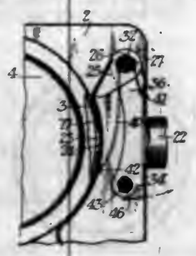


1. A furnace comprising a shell having inner and outer walls, the walls being spaced from each other, air directing baffles between said spaced walls, a lining within the shell and spaced from the inner wall thereof, compressible material between said lining and said inner wall, an air nozzle extending into the furnace and means for forcing air through the space between the walls of the shell, around said baffles and through said air nozzles.

1,661,743. MOTION-PICTURE PROJECTOR. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 20, 1925. Serial No. 10,508. 12 Claims. (Cl. 88—17.)

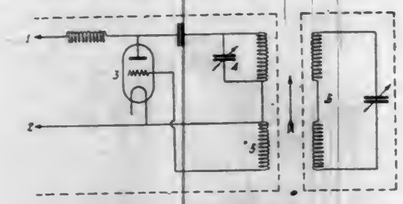
1. In motion picture apparatus, a frame, an exposure gate comprising a guide and a presser member between which film may be drawn, an objective support, a common support upon which both said presser member and objective support are separately pivotally supported and means for adjusting said pivotal support longitudinally of the gate.

3. In motion picture apparatus, an exposure gate comprising correspondingly longitudinally bowed guide and presser members, the presser member being resiliently



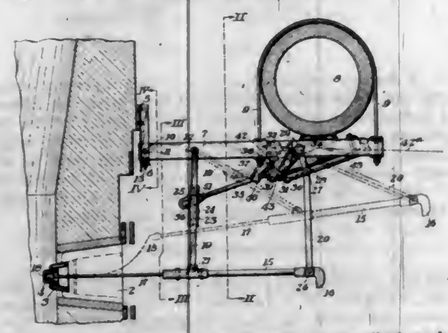
pressed toward said guide member, means for adjusting said presser member longitudinally of said guide and permitting it to follow the curvature thereof when so adjusted.

1,661,744. METHOD AND ARRANGEMENT FOR TRANSFERRING SIGNALS BETWEEN MOVING VEHICLES AND ROADBEDS. WALTER WURST, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Aug. 9, 1924, Serial No. 731,036, and in Germany Sept. 8, 1923. 5 Claims. (Cl. 246—63.)



1. In combination, a regenerative vacuum tube circuit having a loose coupling between input and output circuits, and means for closely coupling said circuits when brought into effective relationship thereto, whereby oscillations are developed and the stability of the circuit is modified.

1,661,745. CINDER-NOTCH STOPPER. EDGAR E. BROSIUS, Pittsburgh, Pa. Filed Dec. 9, 1925. Serial No. 74,385. 22 Claims. (Cl. 266—42.)



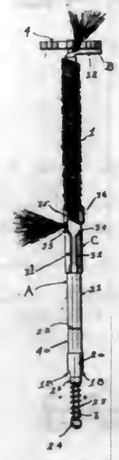
1. In an apparatus of the character described, a botting arm, supporting means for the front end of said arm, a compound link support for the rear end of said arm, and means for changing the relative relationship of the parts of said compound link support about pivotal axes only during backward movement of said arm for changing the path of travel of the rear end of said arm to effect movement of the front end in a substantially horizontal plane.

1,661,746. WRITING PEN. EDWIN CALDWELL, New York, N. Y. Filed Jan. 29, 1923. Serial No. 615,489. 7 Claims. (Cl. 120—48.)



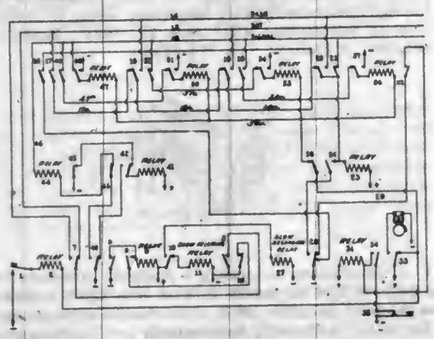
1. A fountain pen comprising a pen support having means for feeding ink to the pen, and a tubular handle detachably connected to the support and adapted to communicate with the said means for feeding contained ink to the pen when it is attached to the support, said handle, at the end adapted for connection to the support, having a self-closing valve which is engaged and operated to open position by the pen support when the latter is attached to the handle.

1,661,747. HAIR CURLER. FRANK CAPDEVILA, New York, N. Y. Filed Feb. 28, 1927. Serial No. 171,495. 5 Claims. (Cl. 132—33.)



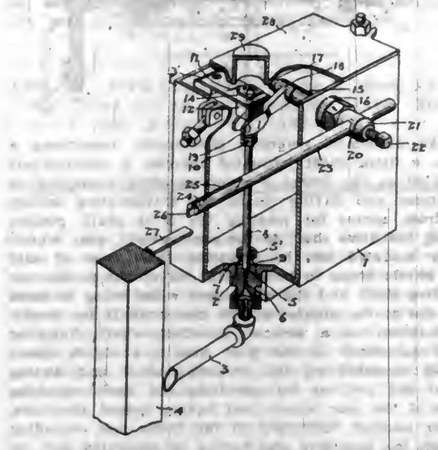
1. A hair curler comprising three concentric shafts, the outer two of which are tubular; a two-part gripper fixed to the distal ends of two of said shafts and operable independently of the other of said shafts; the outermost shaft being positioned between the other shafts and the hair; and a winder clip riding upon the said outermost tubular shaft and being frictionally gripped thereto.

1,661,748. CALL SELECTOR. LOUIS L. CHAUVEAU, Paris, France. Filed Jan. 8, 1923, Serial No. 611,537, and in France Jan. 17, 1922. 12 Claims. (Cl. 177—353.)



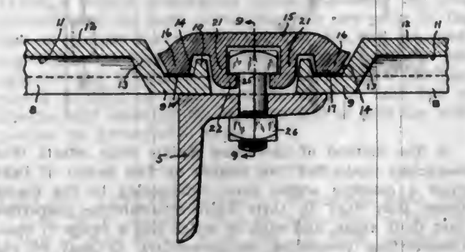
11. In a call selector for indicating the reception of certain desired predetermined signal impulses, in combination, means responsive to received signal impulses, a series of relays associated with the signal responsive means equal in number to the total number of desired signal impulses, means for consecutively energizing each of said relays upon the reception of desired signal impulses in sequence, a call circuit, and means actuated by the last relay for closing the call circuit.

1,661,749. LUBRICATING DEVICE. FRANCIS C. DAVIS, Toronto, Ontario, Canada. Filed Jan. 7, 1926. Serial No. 79,805. 3 Claims. (Cl. 184—21.)



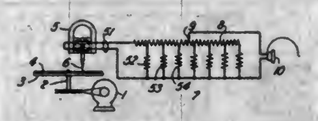
1. A lubricating device, comprising a receptacle having a discharge opening at the bottom and a valve seat in said opening, a valve rod closing against said valve seat and slidably supported in rigid guides and adapted to close said seat against the passage of oil, a pivotal arm within the receptacle operatively connected with said valve, a rod outside of the receptacle connected with said pivotal arm and adapted through the action of gravity thereon to normally effect the closing of said valve, and means adapted to periodically engage said outside rod to tilt the same to actuate said pivotal arm and open the valve connected therewith.

1,661,750. ASH HOPPER. FRANK H. DUNBAR, Cleveland, Ohio. Filed Dec. 8, 1924. Serial No. 754,564. 10 Claims. (Cl. 72—19.)



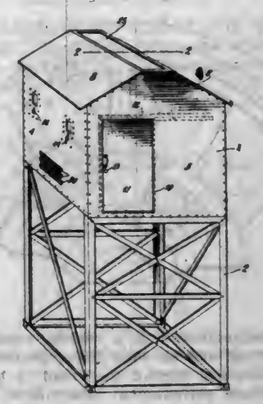
1. The combination of wall plates having recessed side edges, upright supporting bars, clamping bars having projections fitting into the recesses of adjacent wall plates to form liquid tight closures, said clamping bars having imperforated inner surfaces and having on their outer surfaces projections to receive means to secure them adjustably to said supporting bars and having their ends rabbeted so that adjacent clamping bars will cooperate with each other to form substantially liquid-tight joints.

1,661,751. ACOUSTICAL APPARATUS. HARVEY FLETCHER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1924. Serial No 752,323. 15 Claims. (Cl. 179—100.1.)



1. The combination of a phonographic record having recorded thereon a series of separate sounds of substantially uniform intensity, means for translating said sound record into electric currents, means for regulating each current to a definite value which differs from the preceding current by an accurately predetermined amount, and means for translating said regulated currents into sounds of corresponding intensities.

1,661,752. BURGLAR PROTECTION. HARRY FRANK, Brooklyn, N. Y. Filed Nov. 10, 1926. Serial No 147,451. 3 Claims. (Cl. 89—36.)

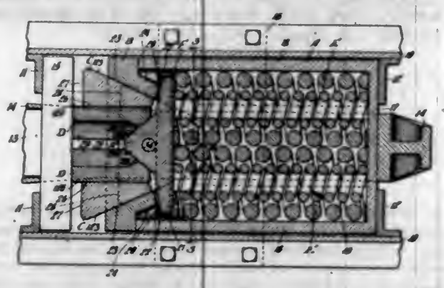


1. An assembly of the character described embodying an enclosure having bullet proof walls provided with openings through which a weapon may be projected, a slide mounted for sliding movement on the interior of the enclosure adjacent each opening and provided with an opening adapted to be moved into registration with the opening of the enclosure, automatic means for normally moving the slide into a position wherein the openings of the enclosure and slide are out of registration, and a transparent bullet proof window positioned above each opening of the enclosure whereby the persons to be fired upon may be observed without exposing the occupant of the enclosure to attack.

1,661,753. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 30, 1926. Serial No. 132,397. 9 Claims. (Cl. 213—26.)

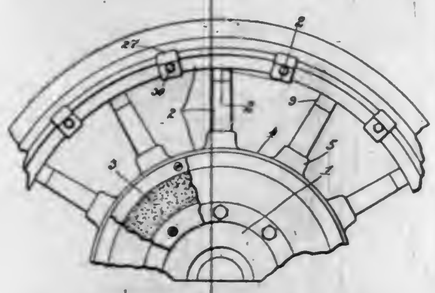
1. In a friction shock absorbing mechanism, the combination with a spring cage having a shell at the forward end thereof provided with opposed interior wedge faces; of wedge shoes co-operating with the shell wedge faces; a spring resistance; pressure transmitting elements between the wedge shoes and co-operating with the spring resistance, said elements normally extending beyond the outer ends of the shoes to initially receive the actuating pressure, said elements being moved relatively to the

shoes longitudinally thereof until the shoes are engaged and moved inwardly of the shell; and means for forcing



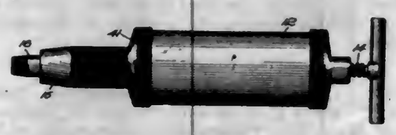
said pressure transmitting elements apart and maintaining the same in engagement with the wedge shoes.

1,661,754. TIRE AND WHEEL. SCHUYLER C. HATFIELD, Baltimore, Md. Filed July 20, 1922. Serial No. 576,360. 3 Claims. (Cl. 295—8.5.)



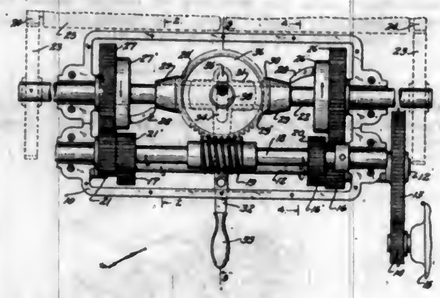
2. In combination with a vehicle wheel, a hard tire having a tread and an edge flange projecting outwardly radially therefrom beyond the tread, a bead projecting from the inner periphery of said tire at each side and a felly having a hook integral therewith at one side for engaging one said bead and removable hooked lugs at the other side engaging the other bead from the opposite side.

1,661,755. LUBRICATING APPARATUS. BENJAMIN F. HUBBELL, Cambridge, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,555. 18 Claims. (Cl. 284—18.)



1. Lubricating apparatus comprising, in combination, a lubricant-receiving nipple and a lubricant-expelling device having a coupling at its discharge end, said coupling axially receiving said nipple while providing axial clearance prior to completion of the coupling operation, a gasket and means held against rotation relative to said nipple during the coupling operation for taking up said clearance by positively moving said gasket toward said nipple thereby providing a tight joint with the lubricant-receiving end of said nipple.

1,661,756. AUTOMATIC REVERSING MECHANISM. ALBERT L. HUNT and JOHN L. NAUJOCK, Milwaukee, Wis. Filed July 23, 1926. Serial No. 124,868. 2 Claims. (Cl. 74—50.)



1. An automatic reversing mechanism, comprising a frame, a drive shaft journaled thereon, a countershaft journaled on the frame, a reversing shaft journaled on the frame and having means for transmitting motion therefrom, means for rotating the drive shaft, pinions gearing the drive shaft to the countershaft, gear wheels loosely mounted on the reversing shaft, one of said gear wheels being in mesh with one of the pinions on the drive shaft and the other gear wheel being in mesh with one of the pinions on the countershaft for receiving rotation in a reverse direction, shaft clutching means connected to the gear wheels, a clutch sleeve slidably mounted on the reversing shaft and having conical end portions for actuating the shaft clutching means of the gear wheels and having spaced shoulders, a lever member fulcrumed on the frame and extending between the shoulders and having an elongated slot, an eccentric shaft journaled on the frame, a worm wheel journaled on the eccentric shaft and having a wrist pin which enters the elongated slot, a worm mounted on the countershaft and in mesh with the worm wheel, and means for turning the eccentric shaft to swing the worm wheel into and out of gear with the worm.

1,661,757. MOBILE COLOR PROJECTOR. LOYD A. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 19, 1924. Serial No. 757,073. 6 Claims. (Cl. 88—24.)

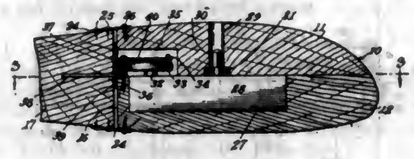


4. The method of producing mobile color effects that comprises projecting two images by two beams of light upon a common screen area, interposing in the beams filters that vary in their light transmitting properties over their areas, and each of which has a range of color transmitting properties complementary to that of the other, moving the filters simultaneously so that colors transmitted by the two beams are always complementary.

1,661,758. ANIMATED FISH TOY. DOUGLAS H. KING, Irvington, N. J. Filed Mar. 12, 1926. Serial No. 94,155. 2 Claims. (Cl. 46—40.)

2. A toy fish comprising a floating head, a plurality of spaced body members and a tail, pivoted in a vertical

plane one to the next adjacent and to said head to permit limited relative lateral movement of each member, a motor in said head, a lever pivoted in said head, means



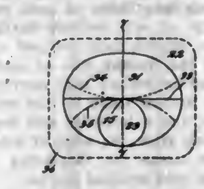
driven by the motor to actuate the lever, and an arm on said lever engaging the member next adjacent to the head to communicate motion thereto.

1,661,759. PIPE CLEANER. FRANK R. KING, Madison, Wis. Filed Apr. 18, 1925, Serial No. 24,153. Renewed Jan. 3, 1928. 3 Claims. (Cl. 137—70.)



1. A pipe cleaner comprising an elongated flexible main member, a cable positioned within said elongated member and adapted to limit the extension of such member, a second elongated member of tubular formation mounted upon said first mentioned elongated member, a handle secured to the rear end of said second elongated member, and a frictional clutch hand grip mounted upon said first elongated member rearwardly of said second elongated member.

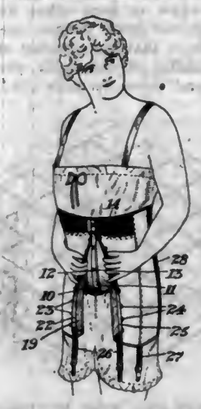
1,661,760. MODIFIED MULTIFOCAL LENS. JACOB P. KOCH, New York, N. Y., assignor of one-half to H. P. Nichols, New York, N. Y. Filed Oct. 10, 1923. Serial No. 667,597. 5 Claims. (Cl. 88—54.)



4. In the art of grinding a bifocal lens blank having a body portion and a reading segment composed of glass of different indices of refraction; the method which consists in grinding one face of the lens blank with a curve having a certain prescription value, regrinding the body portion with the same curvature from one point in the line of jointure between the body portion and the reading segment across the previously ground face to the opposite edge thereby to form on said face two identical curves forming an angle with the apex at said line of jointure and finishing the opposite face to give the body portion its prescription value.

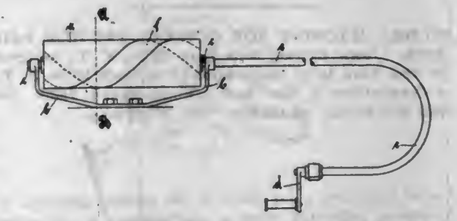
1,661,761. APPAREL CORSET. WALDEMAR KOPS, New York, N. Y., assignor to Kops Bros., Inc., a Corporation of New York. Filed Aug. 14, 1925. Serial No. 50,163. 2 Claims. (Cl. 2—27.)

1. In an apparel corset and in each front portion thereof, an abdominal support member of elastic material extending from the upper edge of the garment downwardly with its lower edge adapted to conform to the groin of the wearer, a front steel member, and a front body member extending from a position appreciably below the upper edge of the elastic abdominal support member to the lower edge of the garment and overlying a portion of the elastic abdominal support member, the upper forward edge of the said body member being connected to the front steel member at substantially the



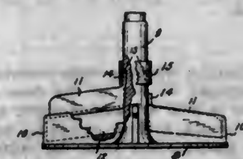
waistline from which point the forward edge of the front steel member normally tapers inwardly from the forward edge of the said body member.

1,661,762. DIRECTION INDICATOR FOR VEHICLES. HANS KREIDEL, Wiesbaden, Germany. Filed Oct. 28, 1927, Serial No. 229,324, and in Germany Jan. 20, 1926. 2 Claims. (Cl. 116—37.)



1. A direction indicator for vehicles, comprising a member provided with an indicating spiral and mounted to rotate about a substantially horizontal axis arranged transversely of said vehicle, and means for rotating said member in either direction, whereby the indicating spiral will be given an apparent travel toward the left or toward the right, according to the direction in which said member is rotated.

1,661,763. WASHING-MACHINE AGITATOR. HENRY S. LABISKY, Seattle, Wash. Filed Sept. 15, 1927. Serial No. 219,618. 7 Claims. (Cl. 259—134.)

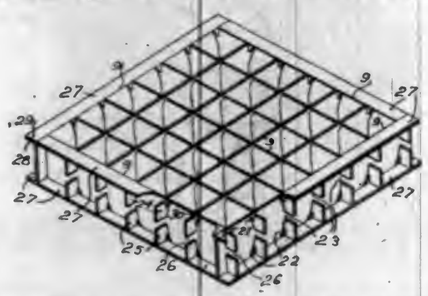


1. The combination with a washing machine agitator having the usual vanes, of a separable auxiliary vane arranged to serve as an extension above the top of one of the usual vanes.

1,661,764. EGG CRATE. BERTHOLD A. LANGE, St. Louis, Mo. Filed Nov. 30, 1923. Serial No. 677,661. 1 Claim. (Cl. 217—34.)

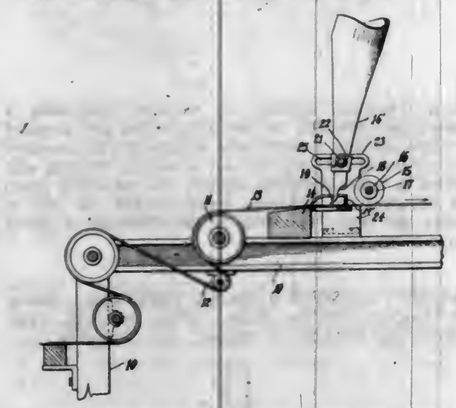
In an egg crate, the combination with a plurality of intersecting strips each having their opposite ends pro-

vided with insertible tongues that are divided into upper and lower sections by intervening notches; of four vertically disposed end strips, adjacent ones of which are arranged at right angles to each other and respectively provided with upper and lower flanges, one of said strips being shorter in length than its adjacent strips, and each strip having a plurality of transverse slits that are divided into upper and lower sections that are separated



by reinforcing intervening webs to receive the divided tongues of said intersecting strips, and when so engaged present an article bounded by a continuous pair of upper and lower flanges extending around the entire edges thereof, there being divided tongues provided at the ends of the shorter end strips for interlocking engagement with the transverse slits of said longer end strips, the top and bottom edges of all of said tongues abutting the inner face of its adjacent flange.

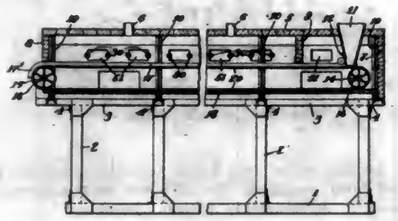
1,661,765. MACHINE FOR CUTTING TEXTILE FABRICS. JOHN LEIPER, New York Mills, N. Y., assignor to New York Mills Corporation, New York Mills, N. Y., a Corporation of New York. Filed Mar. 5, 1926. Serial No. 92,422. 3 Claims. (Cl. 26—12.)



1. The combination with the cloth carrying means and the cutters disposed to act on the face of the cloth while the latter is held flat and straight, of an exhaust pipe having a mouth portion extending entirely across the cloth and spaced apart from the cutters, the back wall of the exhaust mouth lying in close proximity to the fabric and the opening on the side next to the cutters.

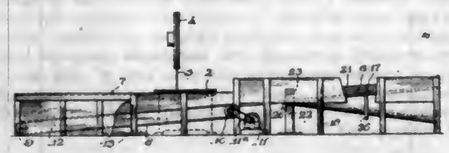
1,661,766. OVEN FOR BAKING BEANS AND THE LIKE. FRANCIS O. LIBBY, Portland, Me., assignor to The Twitchell-Champlin Company, Portland, Me., a Corporation of Maine. Filed Feb. 23, 1924. Serial No. 694,494. 5 Claims. (Cl. 107—57.)

2. In an oven for baking beans or the like, an elongated open bottom chamber, heaters arranged in the upper part thereof, flanged retaining guides extending longitudinally of said chamber, an intake at one end of said chamber, said guides projecting beyond the opposite end of said chamber, an endless conveyor comprising a plu-



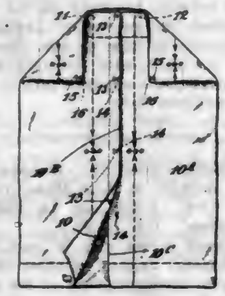
rality of transversely disposed plates each having a close lateral bearing on said guides within the flanges thereof, the return of said conveyor being exposed outside of said oven and means for driving said conveyor at a predetermined speed.

1,661,767. LUMBER-RETURNING DEVICE FOR RIP-SAWS. EMIL C. LOETSCHER, Dubuque, Iowa. Filed May 28, 1927. Serial No. 194,916. 6 Claims. (Cl. 143—17.)



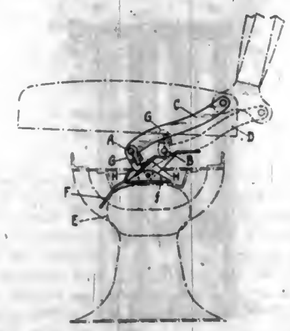
4. In a lumber return, the combination with a saw, a receiving table extending beyond the take-off side of said saw and in line with the path of the material therethrough, said receiving table comprising a laterally and downwardly curved surface terminating in a vertical edge, a conveyor extending longthwise of said receiving table below the lower edge of said inclined surface, said conveyor comprising an endless belt inclined upwardly and terminating beyond the feeding side of said saw, and a delivery table extending beyond said conveyor and comprising a relatively narrow ledge in line with the active surface of said belt, and a laterally and downwardly inclined surface sloping from the edge of said ledge adjacent said saw, and means for displacing the material from said ledge onto said inclined surface.

1,661,768. WRAP. EDITH ERD MARSHALL, Port Huron, Mich. Filed Aug. 14, 1926. Serial No. 129,207. 4 Claims. (Cl. 2—69.)



1. In a wearing apparel, in combination, a blank of textile fabric, a plurality of fastening means along the opposite edges thereof capable of maintaining the said edges in over-lapped position when the device is folded with an open bottom portion and a plurality of fastening means capable of maintaining opposite corners in non-abutting over-lapped approximately right-angled position forming a neck opening at the upper portion of the folder device and between the over-lapped corners.

1,661,769. HEAT DEFLECTOR. CHARLES H. MILLER, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y., a Corporation of New York. Filed Mar. 11, 1926. Serial No. 93,996. 6 Claims. (Cl. 237—28.)



1. A heat deflector for a car seat mounted above the heater and below the seat and provided with a reversing connection to the back of the seat including a spring secured to the deflector, and means movable into engagement with said spring to yieldingly hold the deflector in its reversed position.

1,661,770. SPLIT SHINGLE. GEORGE E. NOBLE, Chehalis, Wash., assignor to Edwin H. Luke, Seattle, Wash. Filed Aug. 1, 1927. Serial No. 209,854. 12 Claims. (Cl. 108—8.)

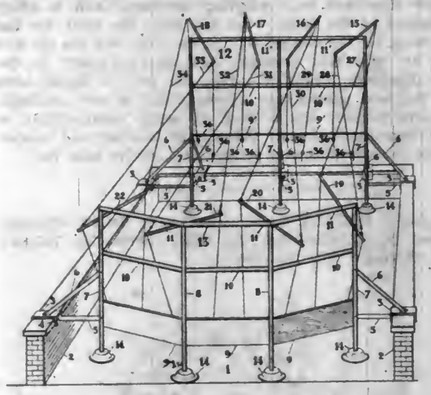


1. A rived shake tapering from a butt to a thinner tip, the butt thickness and the tip thickness being uniform throughout the width of the shake.

9. The method of splitting shakes which consists in splitting successive shakes from opposite ends of the blocks, initially scoring the end of the next shake at one end of the block before reversing the block to split off this shake from the opposite end.

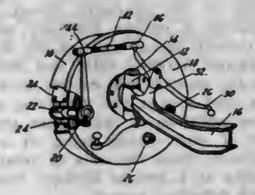
1,661,771. ANTENNA. VINCENT J. REDMOND, New York, N. Y. Filed Mar. 5, 1926. Serial No. 92,400. 7 Claims. (Cl. 250—33.)

1. An antenna structure adapted to provide a comparatively large number of antenna wires in a minimum space, said structure including a pair of supporting frames, a plurality of pivotally mounted bars on each frame, a pair of wires for each two bars whereby the wires are arranged in pairs, and means for fastening said bars to the frames in such a manner that the wires of



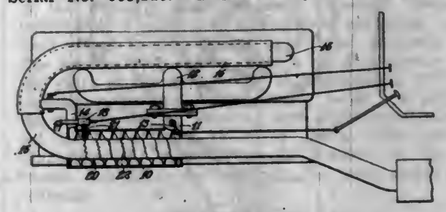
each pair will cross and all of the wires will be so arranged that no two will be parallel.

1,661,772. BRAKE-APPLYING MEANS. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1927. Serial No. 168,065. 4 Claims. (Cl. 188—194.)



1. Applying means for a brake on a swivelled wheel comprising, in combination, a lever extending generally horizontally away from the wheel and having its outer end swinging in an arc generally crosswise of the swivelling axis of the wheel, a brake-applying device at one side of the brake, and means connecting the outer end of the lever with said device which is adjustable to preserve the original position of the outer end of the lever with respect to the swivelling axis as the wear of the brake changes the applied position of said device.

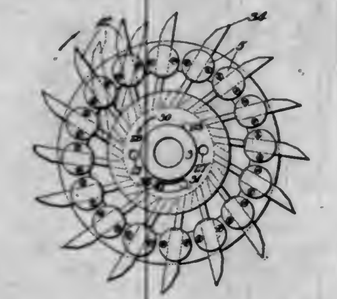
1,661,773. FUEL VAPORIZER AND MIXER. FRANK A. SMITH, Naugatuck, Conn. Filed Dec. 6, 1922. Serial No. 605,145. 4 Claims. (Cl. 261—79.)



1. A vaporizer for liquid fuel for internal combustion engines, comprising a tubular casing forming a chamber and having inlets at one end respectively for air and fuel and an outlet at the other end for a mixture thereof, a helical member disposed in said chamber between the inlet and the outlet thereof to provide with the casing and throughout its entire length a helical passageway of continuous

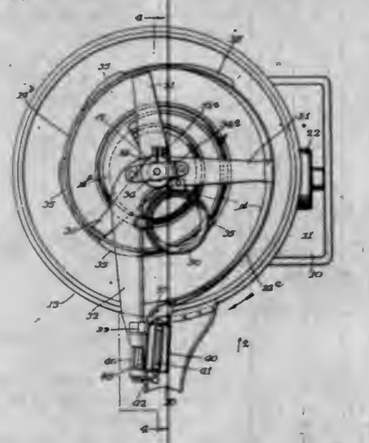
and smooth surface to insure against pocketing thereby of any fuel, said passageway being adapted to direct the air therethru in a whirling movement and to effect a mixture of the same with the fuel, the inlet for the fuel being on the engine side of the inlet for the air and both air and fuel passing thru the vaporizer in the same direction, means to direct the fuel in liquid form into the said passageway substantially in the longitudinal axis thereof, and a band of metal substantially in the longitudinal axis of the helical member and following its convolutions and adapted to receive said fuel.

1,661,774. ROTARY SAW. JOSEPH A. SMITH, Collingswood, N. J. Filed Dec. 15, 1924. Serial No. 755,815. 11 Claims. (Cl. 29—105.)



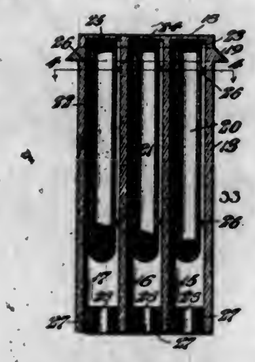
1. In a device of the character stated, a rotatable housing, a plurality of cutters pivotally mounted near the periphery thereof, means limiting the pivotal movement of said cutters between outer and inner positions thereof, means for causing said cutters to assume their outer positions, and means for deflecting said cutters from their outer positions to their inner positions; the pivotal centers of said cutters being at a constantly fixed radial distance from the axis of rotation of said housing and being at a greater distance from said axis than said cutter deflecting means.

1,661,775. BUN AND BREAD ROUNDER. FRANK STREICH, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a Corporation of Illinois. Filed July 7, 1927. Serial No. 203,932. 10 Claims. (Cl. 107—9.)



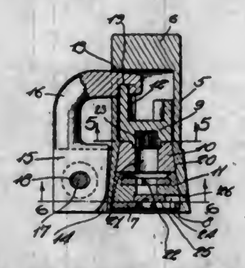
1. The combination with a base and a rotary bowl like carrier mounted thereon, of a spirally arranged mold board, stationarily supported on said base and contacting along its lower edge with the internal face of said carrier, and a series of kneading ribs on said mold board and located on the side thereof adjacent the internal face of the carrier, said kneading ribs being inclined with respect to the mold board and extending in the same general direction.

1,661,776. STORAGE-BATTERY CHARGE INDICATOR. THOMAS J. STROUSE, Pottstown, Pa. Filed Aug. 13, 1926. Serial No. 128,956. 6 Claims. (Cl. 136—182.)



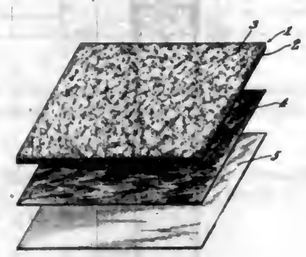
1. In combination with an electric storage battery comprising a container having opaque side and top walls, a liquid electrolyte therein and cathodes and anodes immersed in said electrolyte, of an indicator float adapted to submerge in the electrolyte when the specific gravity of the latter falls below a predetermined point, a generally upright, stationary tubular housing loosely surrounding said float, to guide the latter in a generally vertical direction between an upper and lower limit and to maintain the same constantly immersed in said electrolyte, said housing having an upper transparent terminal wall substantially flush with the upper opaque wall of said battery container and visible from without the same, against which transparent terminal wall, the float is adapted to abut from below in its upper limiting position, thereby to indicate visually from above, if the float is in the raised position.

1,661,777. PADLOCK. PETER SZCZEPCZENSKI, Niagara Falls, N. Y., assignor of one-half to Martin Gill, Niagara Falls, N. Y. Filed May 26, 1927. Serial No. 194,339. 6 Claims. (Cl. 70—105.)



1. In a key hole guard for lock structures wherein the lock structure comprises a casing with tumbler cylinders therein, a key hole guard carried by a tumbler cylinder and movable into engagement with the casing to prevent turning of the tumbler cylinder by the key when shifted to permit passage of the bits of the key, said key hole guard being movable out of engagement with the casing after complete insertion of the key.

1,661,778. POWDER PUFF AND METHOD OF MAKING THE SAME. JOSEPH E. VALENTINE, Plainfield, N. J., assignor to Oxzyn Company, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1926. Serial No. 130,163. 6 Claims. (Cl. 132—78.5.)



3. An article of manufacture of the character described including a body composed of a loose fluffy fibre secured to a fabric backing of comparatively loose weave to permit the passage of a current of powder-laden air therethrough to impregnate said fluffy fibre with powder and an ornamental backing, a layer of gutta percha interposed between said fabric backing and said ornamental backing to cause intimate adherence between said backings.

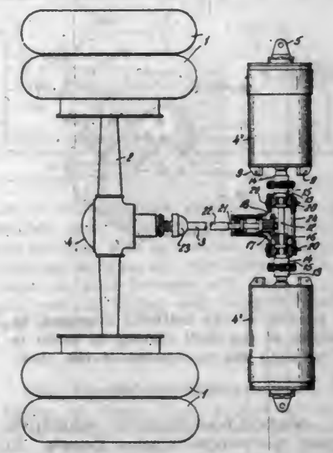
1,661,779. BATTERY CRADLE FOR ELECTRIC TRUCKS. WALTER S. WARD and BENJAMIN H. BRITT, New York, N. Y., assignors, by mesne assignments, to Commercial Truck Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 27, 1923. Serial No. 647,997. 2 Claims. (Cl. 180—68.5.)



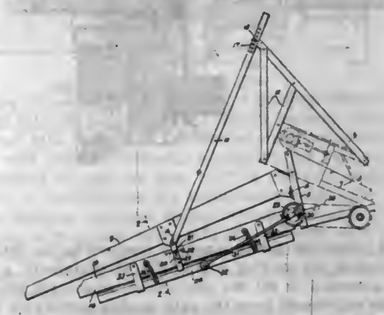
2. In an electric vehicle, a battery support comprising a pair of frame members extending transversely of the vehicle and spaced apart a fixed distance longitudinally of the vehicle, a battery for supplying driving power to said vehicle, supports on said battery, hangers depending from said frame members and cooperating with said supports for holding said battery elevated between said frame members and downwardly extending portions on said frame members lying in close proximity of the battery longitudinally of the vehicle.

1,661,780. PROPELLING AND TRANSMISSION MECHANISM FOR VEHICLES. OLIVER F. WARHUS, Albany, N. Y., assignor to Versare Corporation, a Corporation of New York. Filed Jan. 31, 1925. Serial No. 6,154. 7 Claims. (Cl. 180—65.)

1. Propelling mechanism for the traction wheels of vehicles comprising a driving axle with which the traction wheels are operatively associated, a propeller shaft disposed substantially at right angles with said axle and operatively connected therewith, a driving element disposed substantially parallel with said axle and operatively connected with the propeller shaft, and a motor whose axis of rotation is substantially in alignment with the axis of said driving element and a detachable self-aligning connection between the motor and said driving element to permit removal of the motor and alignment of the element therewith.



1,661,781. COMBINED SHAKER SCREEN AND CONVEYER. JESSE B. WHITNALL, Milwaukee, Wis., assignor to Northern Conveyor & Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 3, 1924. Serial No. 747,533. 2 Claims. (Cl. 209—247.)



1. The combination with a conveyor for elevating material, of a shaker screen therefor, comprising a frame attachable to the conveyer and having members connected to and projecting outwardly therefrom, a longitudinally extending fixed screen connected to some of the members and projecting outwardly therefrom, longitudinally extending side boards connected to the fixed screen and some of the frame members, said side boards being spaced apart a distance greater than the width of the fixed screen, a longitudinally extending movable screen member positioned below the plane of the fixed screen for receiving screened material throughout its length from the fixed screen, links pivotally connecting the movable screen member to the side boards, and means for oscillating the lower screen longitudinally.

1,661,782. CENTRIFUGE. LUDWIG ALTPETER, Trier, Germany. Filed Jan. 26, 1927, Serial No. 163,602, and in Germany July 8, 1925. 4 Claims. (Cl. 233—46.)

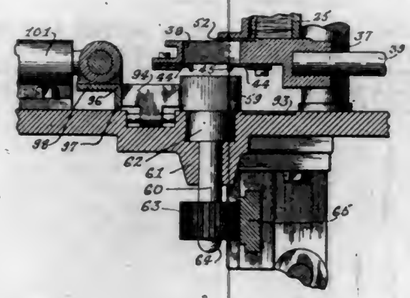
1. A centrifugal machine comprising a shell formed of two parts resting one upon the other, each of said parts having an annular flange extending radially there-

from at its circumference, said flanges being formed to provide between them an annular channel in communication with the interior of the shell and adapted to



receive a portion of the material displaced by the centrifugal action of the shell thereby to assist in caulking the joint between the two parts of the shell.

1,661,783. MATCH-BOX-FILLING MACHINE. KARL BERGSTRÖM, Berthierville, Quebec, Canada. Filed June 10, 1927. Serial No. 197,952. 25 Claims. (Cl. 226—12.)



1. A container filling machine comprising, in combination, means for moving a plurality of containers, a magazine arranged to fill the containers, means for transferring the containers from the said moving means into filling position relative to the magazine, and means for conveying the filled containers to a take-off position.

22. A match-box filling machine comprising, in combination, a support frame, a magazine casing supported on the frame, means for delivering a quantity of matches intermittently from the said magazine, a conveyor adapted to carry a plurality of boxes in intermittent successive series, a plurality of receivers disposed below and adjacent to the magazine adapted to reversibly rotate the boxes and periodically elevate the same for filling, a transferring means adapted to intermittently transfer the boxes in sucessivers series, from the conveyor onto the receivers and simpultaneously eject the filled containers from the receivers, and means for carrying away the filled containers.

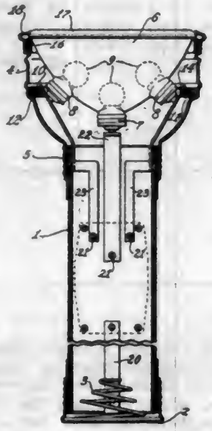
1,661,784. SPOTLIGHT. GEORGE E. BLAKE, Springfield, Mass., and JOHN H. BRUNINGA, St. Louis, Mo., assignors, by mesne assignments, to Henry Hyman, New York, N. Y. Filed Nov. 11, 1922. Serial No. 600,272. 10 Claims. (Cl. 240—10.5.)

4. A battery hand lamp, comprising, a battery receiving casing having a shoulder spaced from the end thereof, an insulated lamp support resting against said shoulder, a lamp in said support, a clamping ring engaging the inside of said casing adapted to clamp said



support against said shoulder, and a circuit connection to said support.

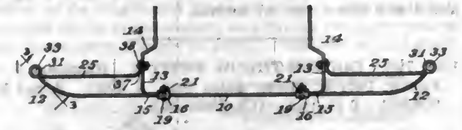
1,661,785. BATTERY HAND LAMP. JOHN H. BRUNINGA and EDWARD P. EVERS, St. Louis, Mo., assignors to Henry Hyman, New York, N. Y. Filed Feb. 12, 1926. Serial No. 87,858. 5 Claims. (Cl. 240—10.5.)



1. A battery hand lamp, comprising, a battery-receiving casing, a head thereon, an insulating ring having a notch seated in said head, a reflector having a plurality of lamp sockets thereon seated in said ring with a socket in the notch thereof, a plurality of switches on said casing, connections from said switches adapted to engage lamps in said sockets, and means cooperating with said insulating ring adapted to aline said sockets with said connections.

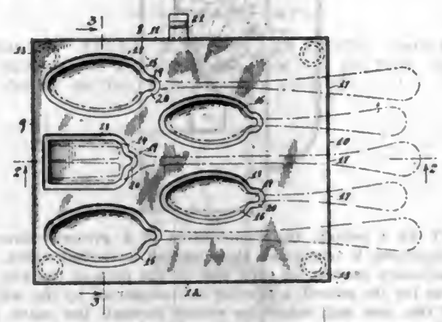
1,661,786. AUTOMOBILE BUMPER. EDWARD P. BULLARD, Jr., Stratford, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 18, 1926. Serial No. 155,630. 5 Claims. (Cl. 293—55.)

1. The combination of two or more bars arranged one above the other, a tubular element embracing the ends of said bars, a bolt extending axially through said tubular element to secure said bar ends therein, and means upon one bar end adapted to interlockingly connect another



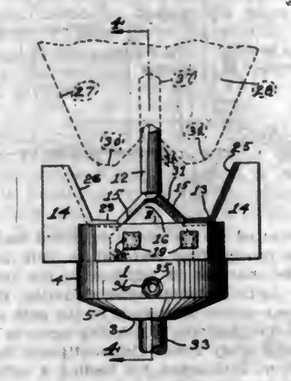
of said bars within said tubular element, whereby relative pivotal movement between said bars is prevented.

1,661,787. SPOON TRAY. ARRON R. CHISHOLM, East Orange, N. J. Filed Apr. 5, 1927. Serial No. 181,021. 3 Claims. (Cl. 65—65.)



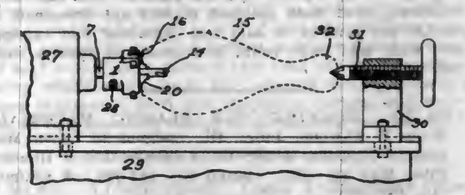
1. The tray described for supporting spoons, ladles, forks and similar utensils, comprising a plate having a plurality of depressions in its upper face each adapted to receive the effective end portion of one of such utensils and receive the drip therefrom, and a ledge on said plate having a plurality of notches adapted to receive and support the handles of such utensils in position to lead the drip from the shanks of said handles to said depressions.

1,661,788. REVOLUBLE FORMING TOOL. JOHN COBION, Richmond Heights, Mo. Filed July 2, 1926. Serial No. 120,043. 9 Claims. (Cl. 144—46.)



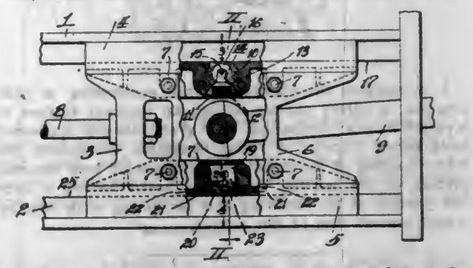
1. A tool for shaping a body to a round cross-section, comprising a head revoluble relatively to the body and having an end face provided with a seat thereon and an axial stem for centering the said body with respect to the said head, and a shaping element engaging the said seat and recessed to engage the said stem for preventing dislocation of the shaping element parallel to the said seat.

1,661,789. REVOLUBLE CUTTER. JOHN COBION, Richmond Heights, Mo. Filed July 2, 1926. Serial No. 120,044. 5 Claims. (Cl. 144—2.)



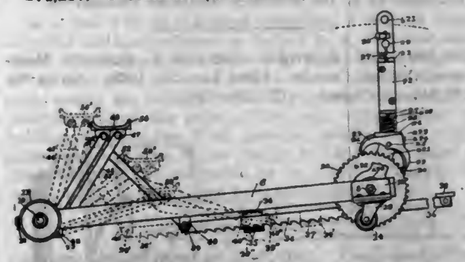
1. A tool of the character described comprising opposing clamping jaws, a centering stem clamped therebetween and provided with sockets on the opposite sides that span the gap between the said jaws, and a pair of cutting blades mounted between said jaws on opposite sides of said stem and having their inner ends projecting into the said sockets.

1,661,790. SELF-OILING-CROSSHEAD GIB. SAMUEL W. CRAWFORD, St. Louis, Mo., assignor, by mesne assignments, to National Bearing Metals Corporation, St. Louis, Mo., a Corporation of New York. Filed June 13, 1925. Serial No. 36,990. 2 Claims. (Cl. 308—5.)



1. In a crosshead, a gib therefor, a guiding element for said gib, said gib having an oil chamber opening onto the surface of said element, a lubricating roller rotatably engaging said guiding element, a support for said roller, said support having its base portion slidably engaging the sides of said chamber for maintaining said roller in a vertical position, resilient means located in said chamber constantly urging said roller into contact with said guiding element, and a boss positioned on the bottom face of said support for preventing lateral movement of said resilient means.

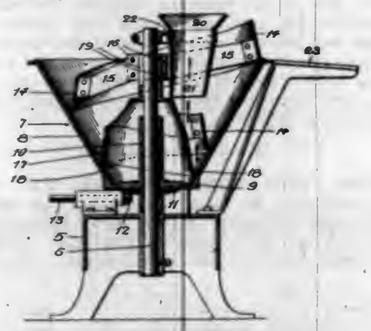
1,661,791. HOISTING JACK. CLYDE A. DUTRO, Bow, Wash., assignor of one-half to Harold T. Morton, Bellingham, Wash. Filed Mar. 10, 1927. Serial No. 174,137. 3 Claims. (Cl. 254—7.)



3. A hoisting jack consisting of a horizontally disposed dolly carriage frame, parallel-motion links pivoted to said frame below and to a jack head block above, a bolt crosshead reciprocal in guides in said frame, pivoted link connection between said bolt crosshead below and said head block above, a jack screw mounted for revolution in

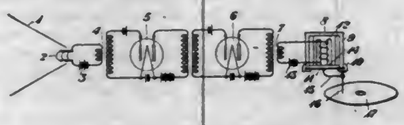
bearings in said frame at right angles with said crosshead, a nut crosshead engaged with said screw slidable in guides in said frame operable parallel with said bolt crosshead, pawl teeth fastened to said nut crosshead, a ratchet bar pivoted to said bolt crosshead and engageable with said pawl teeth, and means to revolve said jack screw.

1,661,792. ROUNDER FOR PLASTIC MATERIAL. WARD P. ELWOOD, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a Corporation of Illinois. Filed May 25, 1927. Serial No. 194,040. 8 Claims. (Cl. 107—9.)



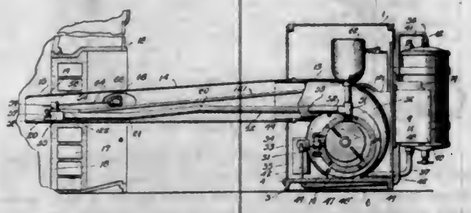
1. A rounder for plastic material comprising in combination, a rotary carrier having an internal surface of inverted conical formation, and a stationarily supported mold board therein, of spiral formation throughout the major portion of its extent contacting with said internal surface of the carrier, said mold board having a cone like portion at its receiving end contacting with said internal conical face of the carrier.

1,661,793. SOUND RECORDING AND REPRODUCING. LLOYD ESPENSCHIED, Kew Gardens, N. Y. Filed July 8, 1920, Serial No. 394,708. Renewed May 6, 1927. 4 Claims. (Cl. 179—100.1.)



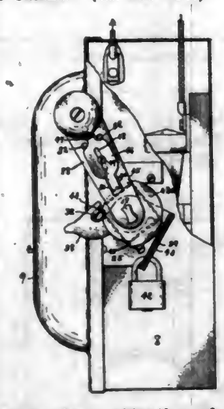
1. The air-electric translating device; this being primarily an element in the electric circuit the resistance of which is controlled directly by the air waves as distinguished from being controlled indirectly by means of a diaphragm as in the ordinary telephone transmitter.

1,661,794. OIL BURNER. ORVILLE A. FOGARTY, Montreal, Quebec, Canada. Filed Dec. 23, 1925. Serial No. 77,345. 3 Claims. (Cl. 158—28.)



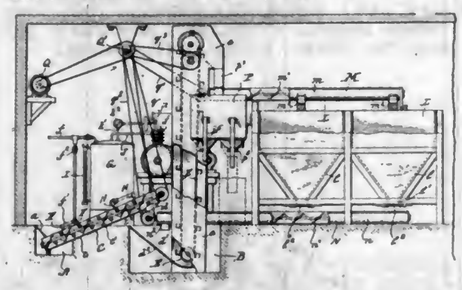
1. In an oil burner, a spout having its upper wall backcut from its lower wall at the outlet end, a nozzle located at the outlet end of the spout and having a forwardly and upwardly directed slot, means for delivering an oil stream from the nozzle slot, and means for delivering air above and below the oil stream.

1,661,795. DOUBLE-THROW SWITCH. HARRISON J. L. FRANK, Detroit, Mich. Filed Sept. 4, 1923. Serial No. 660,673. 6 Claims. (Cl. 200—50.)



1. In a switch, the combination of a pivoted contact comprising a triangular plate having a central notch, a stationary contact on each side of the pivoted contact, a case for the switch, a pivoted ball supported by the walls of the case and extending across through the notch in the stationary contact, a sleeve of insulating material enclosing the ball at said pivoted contact, a metal spool mounted on said sleeve within the notch in the pivoted contact, and means to swing the ball.

1,661,796. APPARATUS FOR TREATING COFFEE. HARRY G. GAMBLE, Detroit, Mich., assignor, by mesne assignments, to Coffee Research Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 3, 1922. Serial No. 526,527. 4 Claims. (Cl. 99—2.)



4. An apparatus of the class described embodying a conveyor for transporting material in bulk and means carried by the conveyor in addition to the transporting elements for agitating said material during the transit thereof, a spray nozzle contiguous to the path of the material, means for supplying a washing agent to the spray nozzle, a second spray nozzle also contiguous to the path of the conveyor, and means for feeding a culture media in solution to the second spray nozzle.

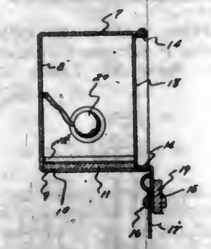
1,661,797. CAN OPENER. HERMAN GARRISON, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,233. 4 Claims. (Cl. 30—3.)

1. A can opener in the form of a lever of the second class, having a guiding fulcrum formed by a recess at the end of a handled stock, and a downwardly offset upper cut knife secured to the stock and extending forward past the fulcrum; said knife being laterally curved in the direction of its length and provided with an additional cutting edge on its lower margin, and having its upper cutting edge rearwardly concave in outline; the heel of said knife



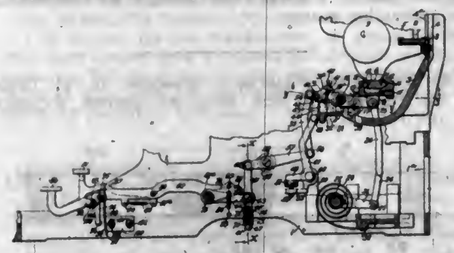
being marked by a line of flexion transverse to the longitudinal direction of the instrument, and that part of said heel which is adjacent to said line of flexion and posterior thereto, being deflected toward the concave side of the directional curve of the knife.

1,661,798. FRONT-LICENSE-PLATE LIGHT. CHARLES GITTERY, Jr., Detroit, Mich. Filed Nov. 18, 1925. Serial No. 68,779. 2 Claims. (Cl. 40—132.)



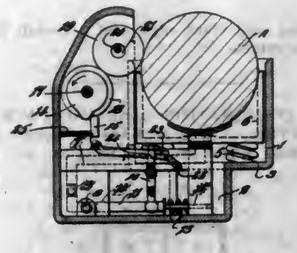
1. A device of the class described comprising a housing having top, front and bottom walls formed integral with each other and side walls, said bottom wall having an elongated opening formed therein; a transparent closure mounted in said housing over said opening; an illuminating means mounted in said housing adapted for projecting rays of light through said closure, a rear wall for said housing, said rear wall engaging between said top and bottom walls and provided at its edges with laterally turned outwardly directed flanges, said flanges lying in engagement with the inner surface of all of the walls of said housing, the lowermost of said flanges extending outwardly beyond the edge of said bottom wall and having a portion extending downwardly below the bottom wall, said downwardly projecting portion being flared outwardly at opposite ends beyond the end of said housing, and a license plate mounted on said downwardly projecting portion.

1,661,799. TYPEWRITING MACHINE. GEORGE GOULD GOINO, Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company, a Corporation of New York. Filed Mar. 9, 1925. Serial No. 14,100. 18 Claims. (Cl. 197—73.)



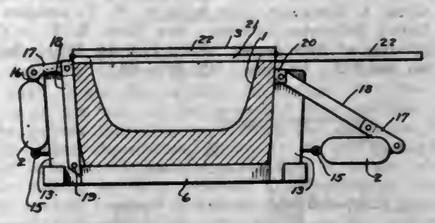
1. In case shift mechanism for typewriting machines, the combination of a shiftable element, two shift key lever members, a train of connections between said lever members and said element comprising yielding devices for affording lost motion between said lever members and said element, locking members mounted on said lever members and each provided with a locking key, and stationary devices engageable by said locking members under control of said locking keys, each of said shift key lever members being effective to release both of said locking members from engagement with said stationary devices, said yielding devices operating during such releasing operations.

1,661,800. LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Oct. 17, 1923. Serial No. 668,995. 9 Claims. (Cl. 308—84.)



1. In combination, a journal, a lubricant reservoir, a lubricant supply pump, a rotatable member for operating said pump, and a floating roller carried solely by said journal and member in frictional contact with said journal and member for actuating said member from said journal.

1,661,801. LIFEBOAT. LAURA HILL, Seattle, Wash. Filed June 22, 1926. Serial No. 117,669. 1 Claim. (Cl. 9—3.)

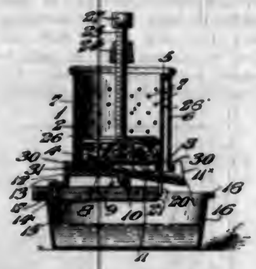


In a life boat of the class described, a boat in which a sealed air compartment is formed in a shell and additional air compartments formed in beams below the ends of the said boat, pontoons hinged to the sides of the said boat, means for holding the said pontoons in an upright position against the sides of the boat, other means for holding the pontoons in an extended position, and a plurality of transverse beams hinged to the upper edges of the said boat and adaptable to be folded in across the center of the boat and also to extend outward.

1,661,802. FRUIT-PRESS SUPPORT. CHARLES R. HITZ, Philadelphia, Pa., assignor of one-half to Hugh G. Doak, Philadelphia, Pa. Filed Dec. 24, 1926. Serial No. 156,860. 3 Claims. (Cl. 100—44.)

3. The combination of a receptacle, a plate of less area than the top of said receptacle having a bottom peripheral groove in which the upper edge of said receptacle is seated, said plate having a hole in the rear thereof, a

front edge, a fruit press having a bottom plate provided with a rear pendant pin seated in said hole and pendant



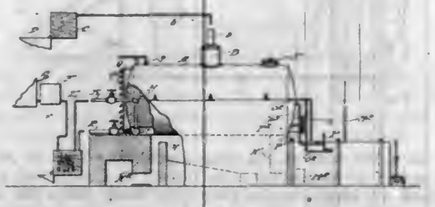
lugs engaging said front edge, and a trough discharging into said receptacle.

1,661,803. COMBINATION CASE AND PACKAGE FOR CIGARETTES. JAMES B. KAVAL, Chicago, Ill. Filed Jan. 7, 1925. Serial No. 983. 1 Claim. (Cl. 206—41.)



A container comprising a pair of box-like sections hingedly connected together, spring elements engaging the sections at their points of connection and normally urging the sections to closed position, a strip extending longitudinally of the sections and overlying and retaining the spring elements in place and latch means carried by the free ends of the sections.

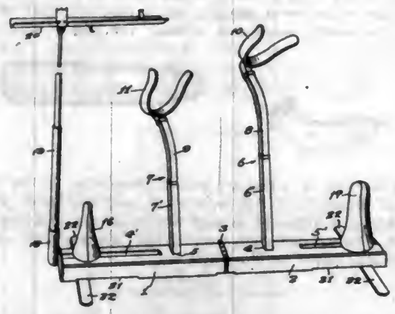
1,661,804. APPARATUS FOR TREATING OIL. FREDERICK A. KORMANN, New Rochelle, N. Y., assignor to United Refineries Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1921. Serial No. 444,745. 1 Claim. (Cl. 196—55.)



A still for converting high boiling point oil into oil of lower boiling point, embodying a still shell, a body of highly absorbent brick held in said shell to leave a vapor dome above and an oil space below the same, means for charging oil into the shell, and steam admission pipes at the bottom and at an intermediate height in the still shell, whereby steam may be charged into the body of absorbent brick at a plurality of levels.

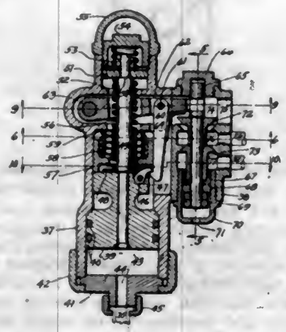
1,661,805. SAXOPHONE-PLAYER'S STAND. AMBROSE LENTATY, Los Angeles, Calif. Filed Nov. 11, 1925. Serial No. 68,304. 1 Claim. (Cl. 248—40.)

A saxophone player's stand comprising base members hinged together to fold upon each other, each provided on the underside with gains, bars pivoted in said gains and flush with the under side of said members and adapted to be extended to support the base from turning



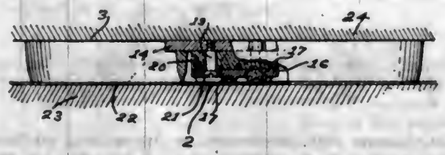
over and adapted to be folded in the gains to make a compact package.

1,661,806. DRIFTING VALVE AND CONTROL MECHANISM. RAYMOND P. LOUGHLIN, Brooklyn, N. Y. Filed Feb. 5, 1925. Serial No. 7,185. 15 Claims. (Cl. 121—137.)



2. In combination with a steam reciprocating locomotive, means for conveying an auxiliary supply of steam from the boiler of the locomotive to the main engines of the locomotive, valve means for controlling said auxiliary supply of steam, a resilient element, means actuated by the opening of the throttle of the locomotive for increasing the potential energy of said resilient element, means actuated by the closing of the throttle of the locomotive for releasing potential energy from said resilient element, interruptable detaining means connecting said valve means and said resilient element whereby the opening of said valve means is effected by the release of potential energy from said resilient element and whereby the closing of said valve means is effected by interrupting said detaining means, and means actuated by variation of the locomotive steam chest pressure for interrupting said detaining means.

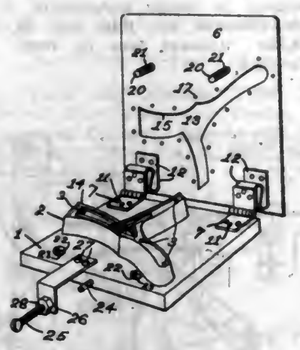
1,661,807. DIE. CHARLES A. MESSMER, Jr., St. Louis, Mo. Filed July 2, 1926. Serial No. 120,003. 9 Claims. (Cl. 101—28.)



1. A device of the character described comprising a pair of dies, one of which is provided with a locating

socket for the other and the other of which presents a projection that is adapted to expand against the sides of the socket to maintain the dies in predetermined positions with relation to one another.

1,661,808. DIE. CHARLES A. MESSMER, Jr., St. Louis, Mo. Filed Sept. 4, 1926. Serial No. 133,546. 9 Claims. (Cl. 164—29.)



1. A die comprising a block member presenting a projecting forming portion adapted to operate on a blank of stock placed thereover, a stripper member for the forming portion and hinged at one end to the block member, and means borne by one of said members for resiliently spacing the other end of the stripper from the block.

1,661,809. PROCESS OF MAKING TETRA-ALKYL LEAD. KENNETH P. MONROE, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 25, 1924. Serial No. 701,641. 19 Claims. (Cl. 260—11.)

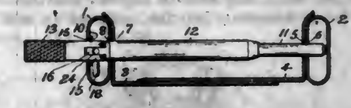
1. The process of producing a tetra-alkyl lead from a lead alloy and an alkyl chloride, which comprises treating one atomic proportion of lead, alloyed with two atomic proportions of a monovalent element capable of liberating hydrogen from water, with an alkyl chloride in the presence of less than 5.1 molecular percentage, based upon said chloride, of a neutral hydroxylic compound soluble in the alkyl chloride.

1,661,810. PROCESS OF PRODUCING TETRA-ALKYL LEAD. KENNETH P. MONROE, Penns Grove, N. J., and KI WILLIAMS, Old Hickory, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 15, 1925. Serial No. 62,594. 14 Claims. (Cl. 260—11.)

1. A process for the manufacture of tetra-alkyl lead from lead alloyed with a monovalent element capable of liberating hydrogen from alcohol which comprises treating such alloy with an alkyl halide and an alcoholic solution of potassium hydroxide.

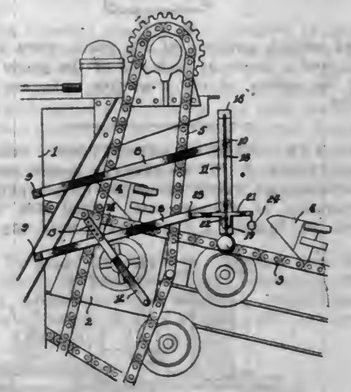
1,661,811. SHEET-RETAINING POST FOR LOOSE-LEAF LEDGERS. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Voluntary Trust Association of Copartnership. Filed Feb. 3, 1927. Serial No. 165,547. 7 Claims. (Cl. 129—13.)

1. In a loose leaf ledger having side cheek pieces, a sheet retaining post having a handle pivoted thereto and provided with a laterally extending locking stud, said handle adapted to be turned whereby said stud will



lock against its adjacent cheek piece and thereafter fold at right angles within a suitable housing.

1,661,812. SIGHTING DEVICE FOR TRENCH DIGGERS. ALBERT A. SMITH, Berkley, Mich. Filed Mar. 3, 1927. Serial No. 172,241. 6 Claims. (Cl. 33—185.)



1. A sighting device for a trench digging machine, comprising a parallelogram having a fixed leg on a stationary part of the machine, a gauge arm connected to said parallelogram and adapted for support from a movable part of the machine, a pendulum carried by said structure, and a sight member articulated with said pendulum and adapted to be moved thereby.

1,661,813. PROCESS OF SINTERING ZINC ORES. HENRY J. STERLI, Cedar Grove, N. J. Filed Oct. 9, 1926. Serial No. 140,681. 10 Claims. (Cl. 75—28.)

1. In the art of desulphurizing zinc sulphide ores the process consisting in roasting the ore down to a point where the residual sulphur in the ore, as sulphide, will be insufficient to carry on sintering of the ore, mixing the roasted ore with sufficient zinc residues to supply the carbon required to furnish the heat and reducing agent to decompose the sulphates in the ore, and causing internal combustion of said sulphur and carbonaceous material contained in the zinc residues by blast roasting in an oxidizing atmosphere to eliminate the sulphates in the ore and sinter the mass.

1,661,814. MEANS FOR CONTROLLING THE SWIVELING ACTION OF RAILWAY TRUCKS. CHARLES W. TODD, Schenectady, N. Y. Filed May 7, 1926. Serial No. 107,312. 1 Claim. (Cl. 308—223.)

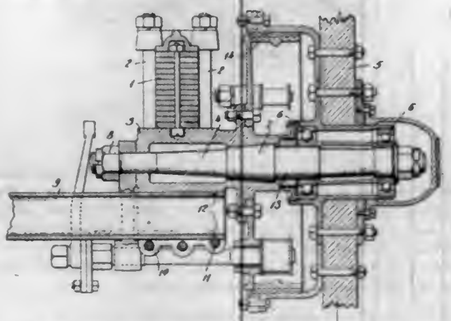
In a centre bearing for railroad vehicles, the combination of an upper bearing plate, for attachment to a body bolster, and a lower bearing plate, for attachment to a truck bolster, one of the plates having an annular groove, and the other plate having an annular flange adapted to fit within the groove, to form a swivel connection between the plates, each plate being provided, at its opposite ends, with a plurality of roller bearing seats, each seat comprising a rack having oppositely inclined portions, and oppositely inclined smooth bearing portions, on each side of the rack; a plurality of rollers,

one for each seat, each roller, having an intermediate portion formed with teeth adapted to mesh with the teeth of the rack, and smooth tapered portions on each side of the intermediate portion, adapted to roll on the



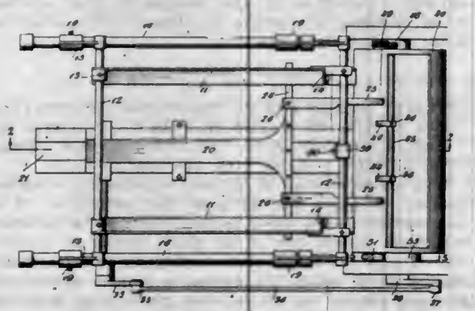
inclined smooth portions of the seats, when the plates swivel; and a frame at each end of the plates in which all of the rollers, at the respective ends, are rotatably mounted.

1,661,815. AXLE CONSTRUCTION. BENJAMIN H. BRITT, Bronx, N. Y., assignor, by mesne assignments, to Commercial Truck Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 20, 1925. Serial No. 10,525. 2 Claims. (Cl. 301—132.)



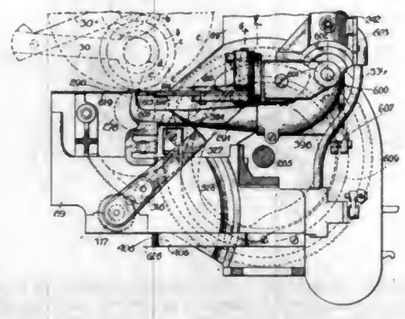
1. In a vehicle of the class described, a member rigidly secured to the vehicle spring suspension and having at least two recesses, a stub shaft removably secured in one of said recesses and extending from one side of said member to receive a vehicle wheel, and a non-driven axle removably secured in another of said recesses and extending from the other side of said member.

1,661,816. ENVELOPE-FEEDING APPARATUS. LUIGI CICCONE, Maspeth, N. Y. Filed May 19, 1926. Serial No. 110,142. 3 Claims. (Cl. 271—2.)



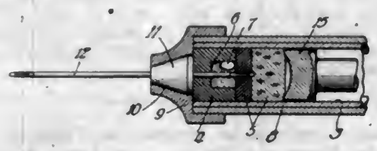
1. An envelope feeding mechanism comprising supporting means for a stack of envelopes, adjustable to accommodate various sizes of envelopes, a reciprocating slide, a supporting member carried by said slide and extending transversely thereof, elastic fingers having an inherent upward resiliency, secured upon said supporting member in spaced relation and arranged to pass between the flap and body of the terminal envelope of said stack for removing it therefrom, over a predetermined path, and a resilient controlling member for maintaining said envelope in said path against the resiliency of said fingers.

1,661,817. WINDER. HOWARD D. COLMAN, Rockford, Ill., assignor, by mesne assignments, to Edgar S. Nethercut, Evanston, Ill. Filed Sept. 15, 1919, Serial No. 323,839. Renewed June 18, 1923. 20 Claims. (Cl. 242—35.6.)



16. The combination of means for rotating a thread mass in the direction to unwind thread therefrom, a movable thread-taking hook, and a suction tube movable to carry a thread of the thread mass into the path of said hook.

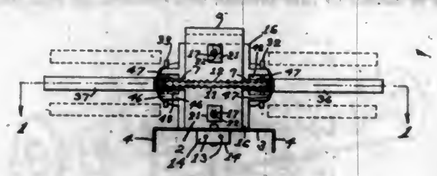
1,661,818. HYPODERMIC SYRINGE AND CARTRIDGE THEREFOR. HARVEY S. COOK, Valparaiso, Ind., assignor to Cook Laboratories, Inc., a Corporation of Delaware. Original application filed Mar. 2, 1922, Serial No. 540,628. Divided and this application filed Nov. 25, 1925. Serial No. 71,320. 6 Claims. (Cl. 128—218.)



1. A hypodermic syringe comprising, in combination, a syringe body having a needle seat at one end; a double ended needle having an enlargement intermediate its ends, said enlargement fitting the seat; a medicament cartridge fitting within the syringe body and having one end thereof sealed by a resilient recessed plug, the other end being closed by a resilient, slidable plug; the inner end of the needle penetrating the recessed plug and projecting beyond said plug so as to enter and be sealed by the slidable plug when the latter reaches the end of its travel through the cartridge.

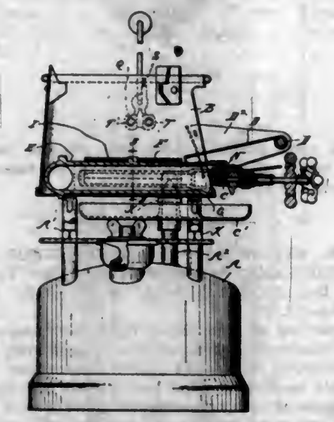
1,661,819. TOASTER. LEE FORREST FISHER, St. Louis, Mo. Filed Aug. 9, 1926. Serial No. 128,108. 6 Claims. (Cl. 53—5.)

4. A toaster comprising a support, heating means borne thereby and presenting opposing radiating faces, a toast holder pivoted to said support and capable of movement in a plane parallel to the latter and resilient



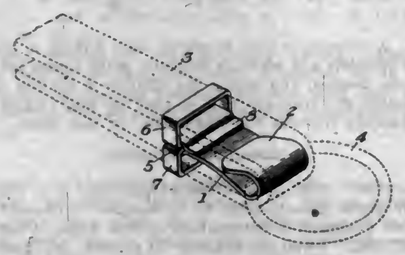
means tending to urge said holder toward said heating means.

1,661,820. FIRE-POT CONSTRUCTION. OTTO J. GROEHN, Detroit, Mich., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 30, 1921. Serial No. 518,881. 9 Claims. (Cl. 158—53.)



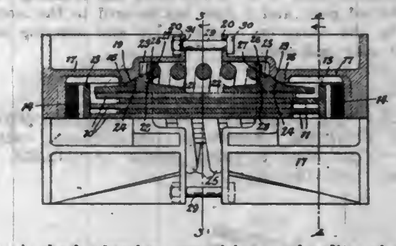
1. In a fire pot construction for plumbers' furnaces or the like, the combination with a burner having flame discharging means, of a generator located adjacent to a portion of said flame discharging means and adapted to deflect a portion of the entire burner flame upwardly, and a plate cooperating with other portions of the flame discharge means for deflecting other portions of the said entire flame.

1,661,821. WEAR PLATE FOR STRAPS. ALFRED B. HAGELIN, Cleveland, Ohio, assignor to The Eberhard Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 23, 1926. Serial No. 137,259. 5 Claims. (Cl. 24—183.)



1. A wear plate curved to fit within the bight of a flexible strap and having a loop-receiving eye, and a strap-receiving loop, a portion of the periphery of which is held within the eye of the wear plate.

1,661,822. SHOCK ABSORBER. JOSEPH M. HALL, Hamilton, Ontario, Canada, assignor to Universal Draft Gear Attachment Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 16, 1927. Serial No. 175,721. 5 Claims. (Cl. 213—36.)



1. A shock absorber comprising a plurality of sets of intercalated friction plates which are adapted to move lengthwise relatively to one another, release followers engaging the outer ends of said sets of plates, main thrust followers movable one toward and from the other, release springs interposed between said release followers and said main thrust followers, lateral pressure creating means for pressing said plates together transversely, and a main spring resistance co-operating with said lateral pressure creating means.

1,661,823. INSULATOR. KENT A. HAWLEY, New York, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed June 4, 1921. Serial No. 475,003. 8 Claims. (Cl. 173—318.)

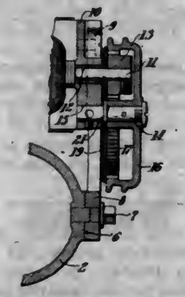


1. Means for insulating and supporting a current carrying conductor from a grounded conductor, comprising a string of insulator units each having a conducting surface of high resistance which forms a continuous and unbroken path for leakage current between the current conductor and the grounded conductor.

6. An insulator unit having its entire surface provided with a glaze embodying a high resistance conducting material.

8. An insulator for high voltage lines comprising a disc of porcelain having a path of resistance material extending over its exposed surface from the central portion of the upper surface to the central portion of the lower surface.

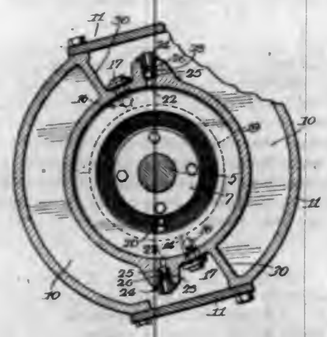
1,661,824. MOTOR-DRIVEN SEWING MACHINE. MARTIN HEMLER, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed May 19, 1925. Serial No. 31,294. 1 Claim. (Cl. 172—36.)



In a motor driving attachment for sewing machines, the combination with an electric motor having a frame and motor-shaft, said frame having a shaft bearing aper-

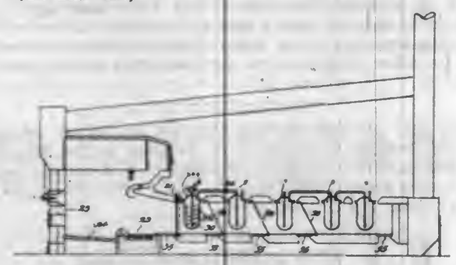
ture and a stud-pin aperture spaced from said shaft bearing aperture, of a stud-pin secured in said stud-pin aperture and formed with a collar between its ends, a driving pulley journaled on said stud-pin and having an internal gear, a pinion fixed to the motor-shaft and meshing with said internal gear, and a dust cap secured to the motor-frame by the collar on said stud-pin and covering said internal gear and pinion.

1,661,825. OIL CLEANER FOR INTERNAL-COMBUSTION ENGINES. ROBERT O. HENDRICKSON, Racine, Wis. Filed June 1, 1926. Serial No. 112,776. 3 Claims. (Cl. 184—6.)



1. In an engine of the class described, a flywheel casting having a circumferentially arranged centrifugal chamber formed therein, a feed channel formed in said casting, inwardly of the centrifugal chamber, inlet passages connecting said channel and chamber, valves in said passages closing towards the axis of the casting, springs pressing said valves toward their seats, and overflow passages for the escape of oil from said chamber.

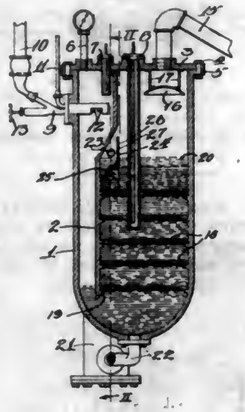
1,661,826. CONTINUOUS PROCESS FOR THE REFINING OF MINERAL OILS. ERIC TH. HESSLE, Lemont, Ill. Filed Dec. 6, 1923. Serial No. 678,924. 2 Claims. (Cl. 196—52.)



1. A process of converting hydrocarbon oils into lower boiling products, which includes the step of directing a stream of oil against a counter current stream of hydrogen gas and steam to form a fog of oil and passing said oil fog through a deep body of molten catalyst adapted to effect decomposition of the oil into products of lower boiling point.

1,661,827. CATALYTIC APPARATUS. ERIC TH. HESSLE and WILLY LELGEMANN, Lemont, Ill. Filed Apr. 26, 1926. Serial No. 104,541. 2 Claims. (Cl. 196—52.)

1. In an apparatus for the catalytic conversion of oils, a reaction vessel for containing a fluid catalyst, a partition in said vessel dividing said vessel into compartments communicating near the bottom, an oil fog producing device in one of said compartments and an oil discharge line leading from said other compartment whereby said oil fog is caused to pass through said catalyst, an equalizing

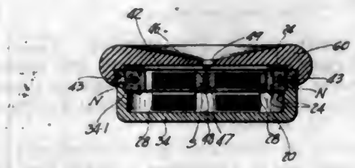


vessel in communication with said reaction vessel and draw-off means on said equalizing vessel for removing material from the surface of said catalyst.

1,661,828. PAVING MATERIAL AND METHOD OF LAYING THE SAME. ERNEST HOPKINSON, New York, N. Y. Filed Dec. 23, 1922. Serial No. 608,745. 1 Claim. (Cl. 94—22.)

That method of surfacing a rigid and immovable load carrying foundation which consists in, separately mingling with a plurality of aqueous rubber compositions vulcanizing agents ineffective alone but effective to vulcanize in the presence of each other, removing water and associating the two compositions in intimate relation on the foundation, and vulcanizing the composition in situ on the foundation.

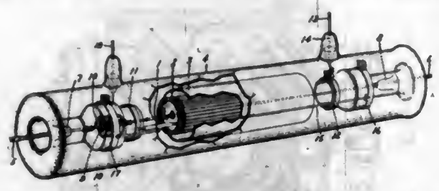
1,661,829. DYNAMO-ELECTRICAL VIBRATING UNIT. THOMAS H. HOWELLS, Salt Lake City, Utah. Filed June 4, 1925. Serial No. 34,830. 15 Claims. (Cl. 179—117.)



1. A dynamo-electric vibrating unit having a magnet, two complete and separate magnetic paths across the poles of the magnet, and means for shifting a portion of the magnetic flux from one path so that the said portion shall completely traverse the other path, or vice versa.

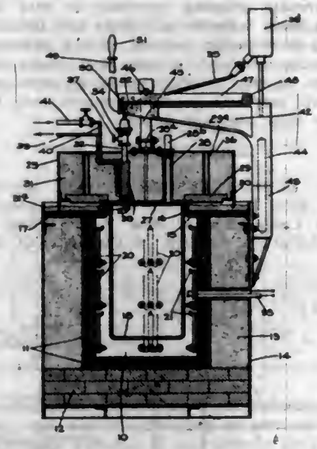
1,661,830. ELECTRON-DISCHARGE DEVICE. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 21, 1922. Serial No. 602,436. 34 Claims. (Cl. 250—27.)

1. An electron discharge device comprising a cathode, an anode and a controlling grid, said electrodes being so spaced and the cathode being of such current carrying capacity that with an anode voltage not exceeding a predetermined value the normal current required to heat the cathode to a given operating temperature will produce in the space surrounding the cathode a magnetic field of such value as to increase substantially over a predeter-



mined operating range the change in anode current per unit change in grid voltage over its change in the absence of such magnetic field.

1,661,831. CARBURIZING APPARATUS. CARL L. IPSEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 28, 1926. Serial No. 125,548. 8 Claims. (Cl. 266—5.)



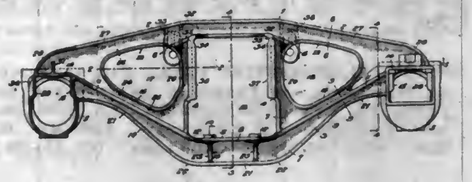
2. Carburizing apparatus comprising an electric furnace having a top opening, a retort set in said opening, a cover for said retort, an inlet nozzle secured to said cover, and a pipe wrapped around said nozzle through which a cooling fluid is passed to prevent deposits of carbon on said nozzle.

1,661,832. PAVING MATERIAL AND PROCESS OF MAKING THE SAME. FRIEDRICH IWANSKI, Berlin-Copenick, Germany. Filed Sept. 27, 1926, Serial No. 138,111, and in Germany June 4, 1925. 6 Claims. (Cl. 18—47.5.)

1. The process of manufacturing paving material, which consists in steam-hardening a mixture of an excess of highly siliceous granular material with lime, and impregnating the resulting product with bituminous substances.

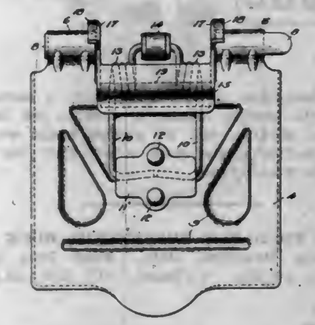
1,661,833. CAST-STEEL SIDE FRAME. BYERS W. KADEL, Baltimore, Md., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed May 5, 1925, Serial No. 28,070. Renewed Aug. 8, 1927. 25 Claims. (Cl. 105—205.)

1. A car truck side frame comprising a compression member, a tension member, bolster guide columns interposed between intermediate portions of said members, said members being generally T-shape in cross-section, journal boxes at the ends of said frame and formed with brass lugs, said tension member being formed at its intermediate portion with an upper flange serving as a spring seat, said flange being continued diagonally



upward to opposite sides of said spring seat as an intermediate main flange of the tension member and joining with the journal box roof in line with the face of the inner brass lug.

1,661,834. JOURNAL-BOX LID. BYERS W. KADEL, Baltimore, Md., assignor to the Symington Company, New York, N. Y., a Corporation of Maryland. Filed Feb. 25, 1926. Serial No. 90,669. 10 Claims. (Cl. 308—47.)



1. In combination with a journal box having a lug with a cam surface, a hinged lid therefor, a spring one end of which is connected to the lid and another end of which engages the cam surface, and retainer means pivotally mounted with respect to the lid and engaging an intermediate portion of said spring for stressing the same and holding it in assembled position, said means being formed with an outward extension preventing incorrect assembly thereof.

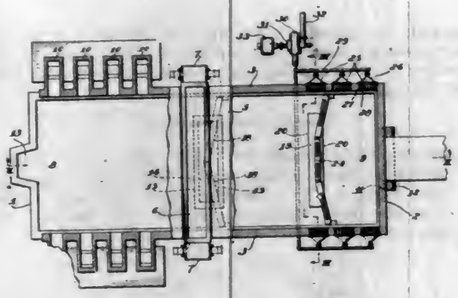
1,661,835. METHOD OF FORMING FLEXIBLE TUBING. HERMANN KELLER, Hilton, N. J., assignor to Forstner Chain Corporation, Irvington, N. J., a Corporation of New Jersey. Filed Apr. 9, 1927. Serial No. 182,325. 7 Claims. (Cl. 113—35.)



1. A method of forming an ornamental tubing, which consists in winding a plurality of channel-shaped strips of metal into helical coils one upon the other with the

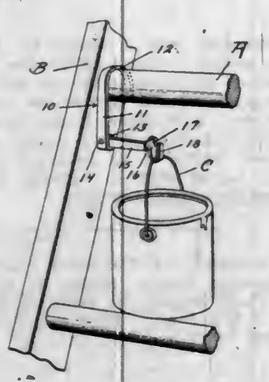
inwardly-extending side flanges of each outer coil extending into the channels between outwardly extending side flanges of adjacent inner coils and at the same time winding into helical form a filling strip of a different material than that of the inner and outer coils and positioned in the channels of one of them, and then removing the filling strip after the coils are formed.

1,661,836. GLASS-MELTING TANK. KARL G. KUTCHKA, Wilkinsburg, and THOMAS H. SWARTZLANDER, Aspinwall, Pa., assignors to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 18, 1926. Serial No. 95,627. 11 Claims. (Cl. 49—54.)



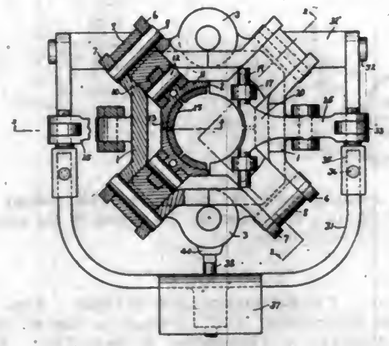
1. In combination in a melting tank, a melting end provided with heating means, a working end having a withdrawing opening, and an arched bridge wall lying below the surface of the glass intermediate the melting end and the working end.

1,661,837. FOLDABLE SUSPENSION HOOK. JOHN W. LITTLE, Hamilton, Ohio. Filed June 7, 1926. Serial No. 114,230. 6 Claims. (Cl. 248—22.)



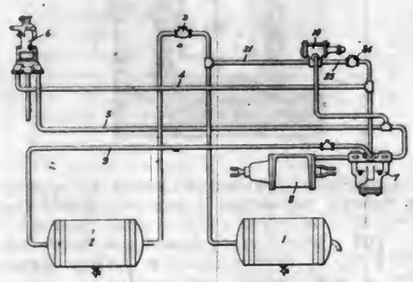
1. A device of the character described comprising a suspension member having a hook at one end thereof, an arm pivoted on the other end and disposable in a position at right angles to a plane passing through said suspension member and the bill of the hook thereon, said arm having a laterally extending free end portion parallel with said plane, and a hook pivoted upon said lateral extension and swingable in the plane thereof.

1,661,838. PIPE-SUPPORTING DEVICE. GERALD R. LIVERGOOD, Houston, Tex. Filed Apr. 5, 1926. Serial No. 99,910. 12 Claims. (Cl. 24—249.)



12. In a pipe-holding device, a tubular housing, jaws therein, arcuate gripping members on said jaws, the contacting faces between said jaws and gripping members being downwardly tapered, means connected with said gripping members to raise and lower said jaws and means on said housing connected with said jaws to move said jaws and gripping members away from said pipe when said jaws are raised.

1,661,839. FLUID-PRESSURE BRAKE. GEORGE MACLOSKIE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed July 26, 1926. Serial No. 124,849. 6 Claims. (Cl. 303—63.)

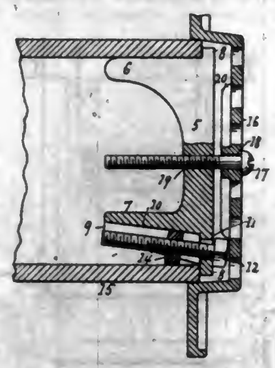


3. In a fluid pressure brake system, a main reservoir, an emergency pipe, a straight air pipe, an emergency valve, and a valve device for controlling a connection between said emergency pipe and said straight air pipe comprising a piston for actuating said device to establish said connection when the pressure in said reservoir decreases below a predetermined value, one side of said piston being subject to the pressure in said main reservoir, and means for exerting a force on said piston in opposition to the force exerted by the pressure in said reservoir.

1,661,840. CONDUIT-COVER CLAMP. JACOB MANNESCHMIDT, Jr., Brooklyn, N. Y. Filed July 9, 1924. Serial No. 724,984. 2 Claims. (Cl. 137—13.)

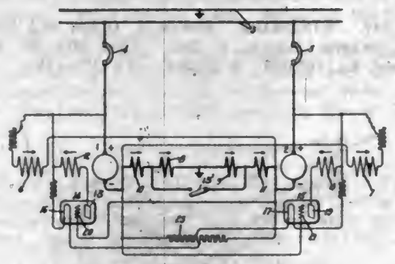
1. In a conduit cover clamp the combination with a shank member having a threaded bore arranged to set on the end of a conduit, adjustable devices for clamping the shank to the conduits of variable interior diameter, of a plate covering the mouth of the conduit adapted to contact with the wall of a building, said plate having

an aperture positioned opposite the bore in the shank, and a screw connected to the aperture engaging the



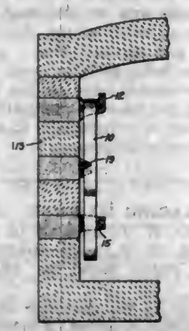
threaded bore for adjusting the plate to or from the shank independent of the clamping means.

1,661,841. REGULATING SYSTEM. GORDON R. MCDONALD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1926. Serial No. 132,370. 8 Claims. (Cl. 171—223.)



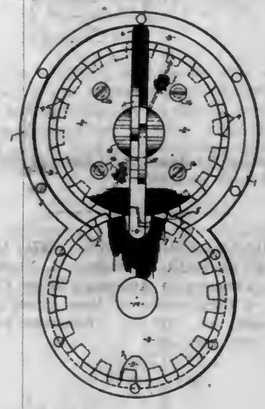
1. In combination, two sources of current connected in parallel, and means comprising an electron discharge device associated with one of said sources for controlling the current supplied by said source in accordance with a predetermined relation between the current outputs of the two sources.

1,661,842. ELECTRIC FURNACE. JAMES L. MCFARLAND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 16, 1927. Serial No. 199,363. 1 Claim. (Cl. 266—1.5.)



An electric furnace comprising a heat refractory wall forming a heating chamber, insulating supports secured to said wall, a ribbon-shaped heating resistor hung from said supports in a series of depending loops, beaded spacing members secured to said wall in alternate spaces between said loops near their lower ends, said heads overhanging the lengths of said resistor adjacent thereto, and wedge-shaped spacing members for said loops having parallel sides and projecting from said wall in the remaining spaces between said loops near the lower ends thereof, the edges of said wedge-shaped members extending horizontally.

1,661,843. HYDRAULIC BRAKE. EDWARD H. MCKINNEY, Salina, Kans. Filed June 1, 1925, Serial No. 34,027. Renewed Aug. 1, 1927. 3 Claims. (Cl. 188—92.)

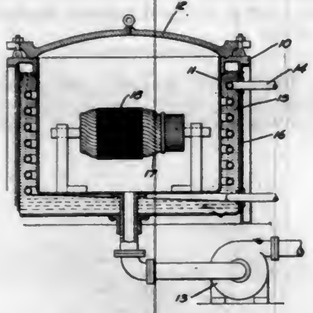


1. In a hydraulic brake for motor driven vehicles, a housing having two rollers rotatably mounted therein, an annular compression chamber about the periphery of one of said rollers, said chamber being filled with oil concentrically positioned within said compression chamber, blades on the diametrical axis of said roller, said blades actuated by a toggle sliding said blades radially in opposite directions so that the ends thereof will cross said compression chamber, a shaft and toggle crosshead carrying said roller, a sprocket rigid on said shaft, said sprocket adapted to engage a sprocket on the drive shaft of the vehicle by means of a chain, a roller adjacent to first said roller so that the periphery of each will contact in their rotations, notches in the face of said roller, said notches being opposite each other and on the diametrical axis, gears on the corresponding sides of said rollers, said gears being in mesh so that the rotations of both rollers will be timed equal for the engagement of said blades and notches, a pushrod engaging with said crosshead, said rod and crosshead actuated by a foot lever all for the purpose described.

1,661,844. METHOD OF TREATING ELECTRICAL WINDINGS. HOWARD MILLER, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed May 16, 1925. Serial No. 30,737. 5 Claims. (Cl. 91—70.)

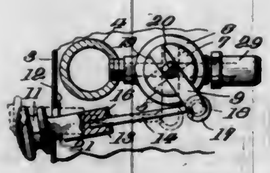
1. The method of treating electrical windings which consists in impregnating said winding with a varnish

thinned with a volatile solvent, driving off said solvent in a rarefied atmosphere at a low temperature such that



the varnish is not hardened, and then drying said winding to harden said varnish.

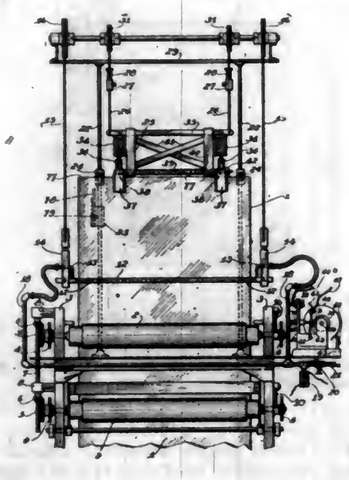
1,661,845. GAS-RANGE VALVE AND OPERATING MEMBER THEREFOR. FREDERIC G. NICOLAUS, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed May 8, 1926, Serial No. 107,672. Renewed Dec. 3, 1927. 3 Claims. (Cl. 126—39.)



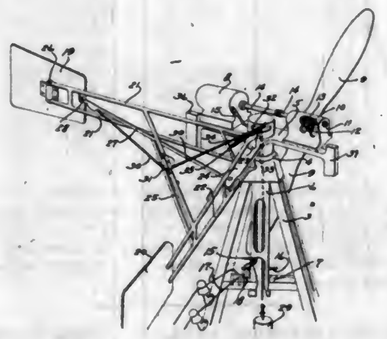
1. A gas stove having a closed structure, a burner and a manifold both embraced within the said structure, the manifold having a valve housing provided with an abrupt taper, a valve correspondingly shaped and fitting the said taper, a lever having its inner end rigidly connected with the valve, said lever projecting through a slot formed in the said housing, the said valve being thus subjected to the heat from the burner, the parts operating as described.

1,661,846. APPARATUS FOR SEVERING GLASS SHEETS. TRAVIS OAKES and ALFRED C. OAKES, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 18, 1926. Serial No. 95,626. 12 Claims. (Cl. 49—50.)

1. An apparatus for separating sections from a continuously formed advancing sheet of glass, comprising electric heating means extending transversely of the sheet, means for clamping the heating means against the sheet so that it moves along with the sheet during the heating operation, and means actuated by the movement of the sheet for causing the clamping means to be actuated.



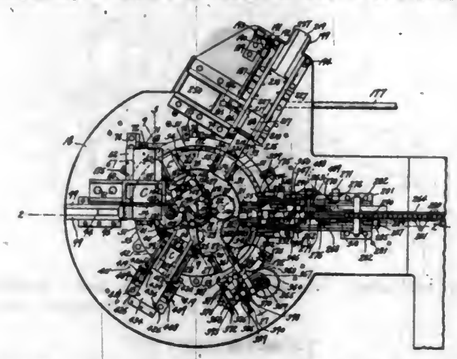
1,661,847. WINDMILL. EDWIN N. OLSON and PHILIP E. SOLBERG, Sharon, N. Dak. Filed May 28, 1927. Serial No. 195,035. 9 Claims. (Cl. 170—49.)



1. In a windmill, a rotatable head, a propeller journaled on the head in a radially and axially offset position in respect to the vertical axis of the head, a yieldingly held swingable arm on the head normally extending substantially parallel to the direction of rotation of the propeller and movable into a position in which it extends substantially radially from the vertical axis of the head, a swingable vane on the arm, and connections for holding the vane substantially parallel to the direction of rotation of the propeller in all of the different positions of the swingable arm.

1,661,848. PACKAGING MACHINE. ROBERT H. PLASS, Upper Montclair, N. J., assignor to Poloris Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 26, 1926. Serial No. 90,921. 33 Claims. (Cl. 93—6.)

1. In a machine of the character described, the combination with a carton-conveyor, of a hopper for collapsed cartons, a reciprocable slide for feeding said cartons one by one from said hopper on to said conveyor, said conveyor being provided with a pair of cooperating gripper jaws, a cam-operated lever for reciprocating said slide, a bumper mounted on said cam-operated lever, a bell crank lever arranged to be engaged by said bumper for imparting a relative movement of one of said gripper

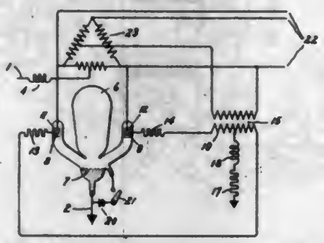


jaws with respect to the other to admit a collapsed carton and compressing said carton laterally, and an anvil movable into and out of position to cooperate with said gripper jaws for opening up said carton.

1,661,849. ABRASIVE COMPOSITION. HENRY R. POWER, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed May 31, 1922. Serial No. 564,959. 4 Claims. (Cl. 51—280.)

1. A paste for metal grinding formed with an inorganic material having a high absorptive power and having a granulated abrasive material incorporated therein, said paste also containing glycerine and being free of silicate of soda.

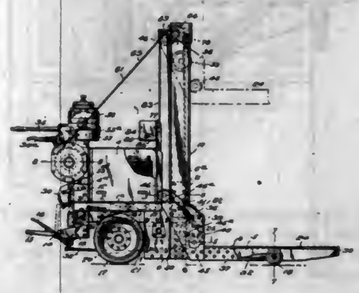
1,661,850. ELECTRICAL SYSTEM. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 18, 1925. Serial No. 30,938. 8 Claims. (Cl. 175—363.)



1. The combination of a polyphase transformer, a vapor electric device provided with anodes connected to the terminals of one phase of said transformer and with a cathode and grids arranged to cooperate with said anodes, a direct current circuit connected to said cathode and to said phase at a point intermediate its terminals, and means connected between one of said terminals and a point intermediate the ends of another phase of said transformer for causing the voltage applied to said grids to differ in phase from the voltage applied to said anodes.

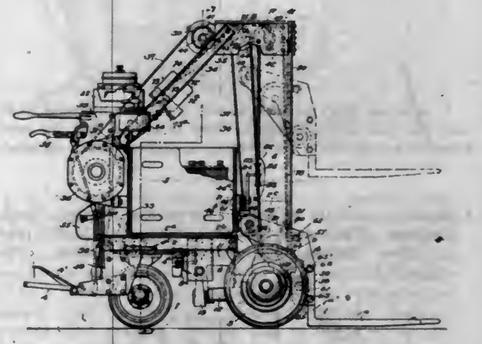
1,661,851. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 22, 1926. Serial No. 117,780. 8 Claims. (Cl. 187—11.)

5. An apparatus of the class described, the combination of a wheel mounted frame, a pair of guide members thereon, an elevating member having a shoe plate disposed in close relation to each said guide member, a pair of shafts extending through said shoe plates and supporting a pair of rollers in engagement with the opposite side walls of said guide members, a shaft supported by said member, a shaft carried by the upper portions of said



elevating guide members, sheaves on said shafts, flexible members operatively engaging said sheaves, means for winding up and unwinding said flexible members to raise and lower said elevating member, and devices between one of said guides and said elevating member to maintain said rollers in engagement with said guide member.

1,661,852. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1927. Serial No. 176,255. 9 Claims. (Cl. 187—11.)

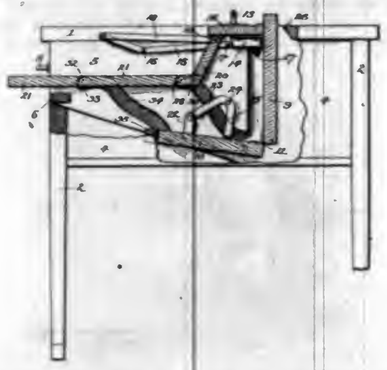


5. In apparatus of the class described, the combination of a frame, spaced guides mounted substantially vertically thereon, wheels for supporting said frame, a load engaging and carrying member having a shoe, comprising portions disposed in spaced relation to permit unobstructed view between and through the guides and each portion having an upper roller and a lower roller movably engaging the adjacent guide, means disposed below the lower roller for connecting the shoe portions together, and means for raising and lowering said member.

1,661,853. TABLE. ERNEST RHODES, Herkimer, N. Y. Filed Aug. 13, 1924. Serial No. 731,813. 10 Claims. (Cl. 312—25.)

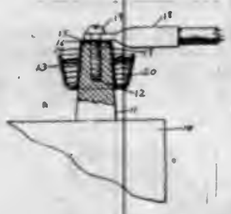
2. A table having a top and provided with a compartment therein; a cover for said compartment consisting of two integral parts pivotally connected together for completely covering said compartment; and connecting means between said cover sections and table, adapted,

upon movement of the cover, to cause said front section to assume an upright position at the rear of the



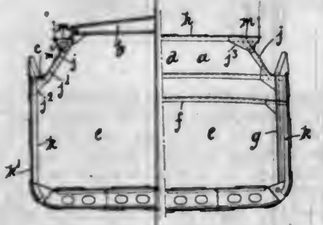
compartment and said rear section to assume a substantially horizontal position beneath the table top.

1,661,854. STORAGE-BATTERY DEVICE. FLORENCE C. RIDGELY, Detroit, Mich. Filed Feb. 20, 1925. Serial No. 10,483. 4 Claims. (Cl. 173—259.)



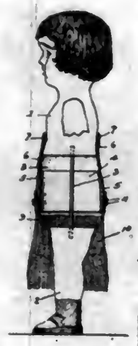
2. A hat shaped member having its crown adapted to fit over the end of a storage battery terminal, and its brim forming a receptacle for holding a non-corrosive element.

1,661,855. CARGO VESSEL. CUTHBERT RITSON, Blyth, England. Filed July 27, 1926, Serial No. 125,230, and in Great Britain Aug. 5, 1925. 6 Claims. (Cl. 114—72.)



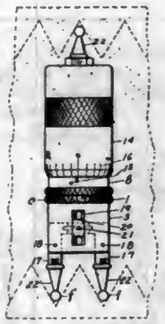
1. In a cargo vessel, a fore-and-aft deck erection rising from the upper deck and having inwardly inclined sides above said deck which confine the portions of the cargo space above the deck in a fore-and-aft direction, hatch coamings supported by said inclined sides whereby the hatchways are elevated substantially above the deck to increase the cargo spaces, inclined beams supporting the plating of said inclined sides separate from but strongly connected to the usual side framing of the vessel and at their upper ends to the outsides of the hatch coamings, and platforms between and at the ends of each set of elevated hatchways.

1,661,856. ORNAMENTAL TOY DOLL. MICHAEL W. ROBICHAUD, Seattle, Wash. Filed Jan. 22, 1927. Serial No. 162,854. 3 Claims. (Cl. 46—40.)



3. A toy or the like comprising a suitable upright figure having supporting leg portions, an abdominal portion and a head and chest portion, the latter rigidly secured to the leg portion, the abdominal portion spaced from both the other portions and suspended from the head and chest portion for swinging movement relatively to both said other portions.

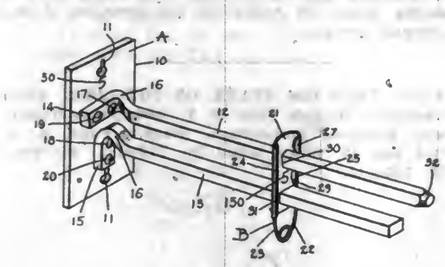
1,661,857. UNIVERSAL THREAD GAUGE. CHARLES J. SCHEN, Detroit, Mich. Filed June 21, 1924. Serial No. 721,428. 6 Claims. (Cl. 33—199.)



1. An inside gauge comprising a cylindrical body, a circumferentially graduated thimble mounted thereon, means whereby said thimble may be moved longitudinally thereon, a single thread engaging member attached to the end of said thimble, and projecting therefrom, two thread engaging members pivotally attached to the body, at the opposite end, and pivot means for allowing adjustment of said two thread engaging members simultaneously to engage consecutive thread grooves.

1,661,858. CLASSIFYING APPARATUS. ASHLEY M. STOKOE, St. Paul, Minn. Filed Mar. 3, 1927. Serial No. 172,430. 6 Claims. (Cl. 40—19.5.)

1. In a classifying device the combination with a plurality of brackets, of a plurality of markers arranged for application thereto, each bracket comprising a support having a pair of spaced parallel bars issuing outwardly therefrom, one of the bars of each pair being non-circular in cross section, the respective bars of each bracket being identical with the corresponding bars of each of the other brackets and differently angularly related, said

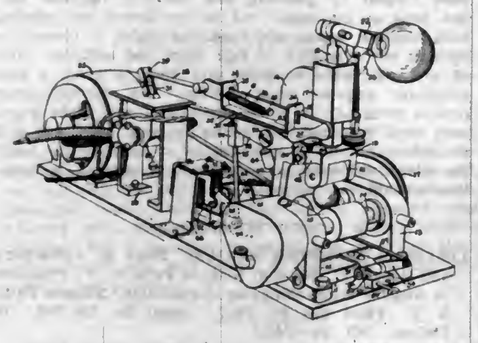


markers being differently apertured for application to their respective brackets.

1,661,859. METHOD OF MAKING FURNACE LINING. GEORGE P. SUPPES, Johnstown, Pa. Filed Mar. 15, 1926. Serial No. 94,988. 2 Claims. (Cl. 25—157.)

1. The method of forming a furnace lining which consists in moulding a refractory composition into blocks, hardening the blocks by baking them in the presence of steam under pressure until the bond has matured, and then laying the blocks in the furnace to form a lining.

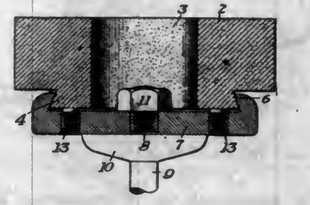
1,661,860. CONTROL MECHANISM FOR GOLF-BALL-WINDING MACHINES. EDWIN G. TEMPLETON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 30, 1926. Serial No. 138,794. 9 Claims. (Cl. 242—3.)



1. A winding machine comprising a frame, a bracket formed with upwardly projecting arms secured to the frame, a control lever slidably mounted in the arms, a spring tending to urge the lever in one direction, a control element for an electric circuit secured to one end of the control lever, a notch formed in the lever, an engaging finger for the notch adapted to hold the lever in operative position, a trip mechanism for the lever, and means to actuate the trip mechanism to free the lever upon the occurrence of thread breakage.

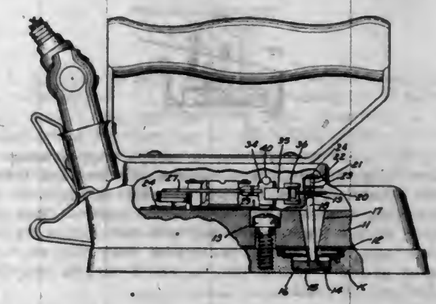
1,661,861. GRINDING WHEEL AND HOLDER THEREFOR. FRANK J. TONE, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed June 23, 1925. Serial No. 39,104. 2 Claims. (Cl. 51—209.)

1. A grinding wheel assembly including an abrasive wheel formed of bonded abrasive grains having an integral hub portion of reduced diameter thereon, a series of lugs disposed around the periphery of the hub portion, the peripheral surface of each lug being undercut, each lug also being outwardly curved from one end toward the other, and a metal holder secured to the hub portion having a central portion with a series of



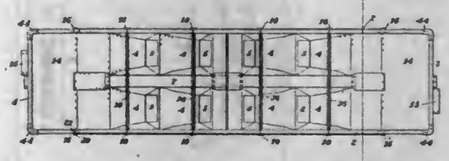
undercut lugs on the face thereof corresponding to the lugs on the said hub portion of the wheel, said lugs on the holder being adapted to embrace and interfit with the lugs of the said hub portion and to be forced into wedging relation therewith.

1,661,862. ELECTRIC HEATER. WILLIS N. VANATTA, Ontario, Calif., assignor to Edison Electric Appliance Company, Inc., Chicago, Ill., a Corporation of New York. Filed Dec. 29, 1924. Serial No. 758,501. 8 Claims. (Cl. 200—124.)



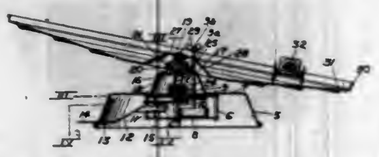
1. A temperature cut-out for electric heaters comprising control means in the circuit of said heater biased to open circuit position, a rotatable member for securing said control means in closed circuit position, a holding member for preventing rotation of said rotatable member having a pivotal off-center connection with said rotatable member, and temperature responsive means normally securing said holding member but releasing it to permit the opening of the heater circuit upon the occurrence of a predetermined temperature.

1,661,863. FREIGHT CAR. WILLIAM E. WINE, Toledo, Ohio, assignor to Wine Railway Appliance Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 3, 1926. Serial No. 91,951. 19 Claims. (Cl. 105—249.)



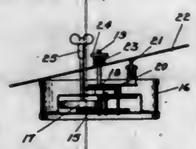
1. A freight car having sides comprising spaced side plates and flanged bar stakes, the flanges of said stakes being secured to the side plates and the webs of the stakes extending within the spaces between the plates.

1,661,864. MECHANICAL TOY OR AMUSEMENT DEVICE. CHARLES ZABEL, Coraopolis, Pa., assignor, by mesne assignments, to McDowell Manufacturing Company, Millvale, Pa., a Corporation of Pennsylvania. Filed Sept. 27, 1923, Serial No. 665,114. Renewed July 28, 1927. 10 Claims. (Cl. 272—35.)



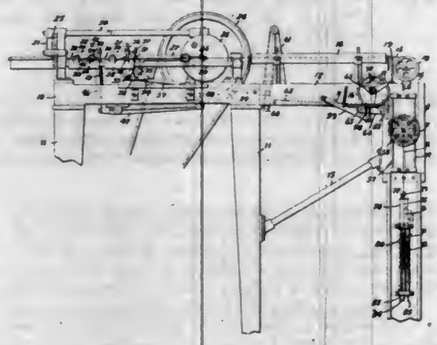
6. In a mechanical toy, a supporting housing, an inclined plate member freely mounted above the housing and provided with a track, a shaft vertically disposed in said housing, means carried by the housing to positively drive said shaft, and means comprising an eccentric element rotatable by said shaft in a substantially horizontal plane and operatively associated with said plate member to impart a gyratory motion thereto.

1,661,865. MECHANICAL RACING TOY. CHARLES ZABEL, Coraopolis, Pa., assignor to McDowell Manufacturing Company, Millvale, Pa., a Corporation of Pennsylvania. Filed June 29, 1925. Serial No. 40,145. 6 Claims. (Cl. 272—35.)



1. In a mechanical toy, a supporting housing, a motor located within the housing, an inclined dished plate member having a track rockably mounted on the supporting housing, revolving means spaced from the center of the plate connected with and driven by the motor and eccentrically contacting with the plate to impart gyratory motion thereto, and a gravity propelled object on the track.

1,661,866. APPARATUS FOR CUTTING WIRE INTO LENGTHS. WILLIAM P. ZABEL, Cleveland Heights, Ohio, assignor to General Electric Company, a Corporation of New York. Filed June 20, 1927. Serial No. 199,898. 7 Claims. (Cl. 140—140.)



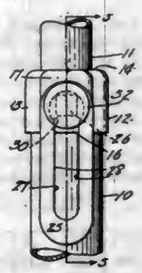
1. In an apparatus for cutting fine wire into lengths, the combination with a wire cutting means of a reel adapted to hold said wire, means for turning said reel to unwind said wire, means for intermittently advancing uniform lengths of said wire, intermediate means for applying a definite tension to the wire engaged by said advancing means, and means controlled by said tensioning means for controlling the operation of said reel turning means.

1,661,867. TENT PIN, STAKE, OR THE LIKE. ELIOT ARMSTRONG, Niagara Falls, N. Y., assignor to Niagara Metal Stamping Corporation, Niagara Falls, N. Y. Filed May 15, 1924. Serial No. 713,477. 4 Claims. (Cl. 135—15.)



4. A sheet metal device of the sort described comprising longitudinal angularly disposed flat side webs connected along one side of each to form a V-shaped body portion having a longitudinal, median ridge, a striking head formed by pressing and securing together said flat webs at the upper end of the device, an integral hook disposed below said head and which is formed by striking out a portion of said ridge and adjacent parts of said side webs whereby said hook is given a substantially angular cross section, and reinforcements formed integrally in those portions of said webs which have been weakened by striking out said hook, and said reinforcements being extended in a direction to resist the blows delivered on said head to prevent deformation of said web portions.

1,661,868. CLAMPING DEVICE. JOHN A. ARMSTRONG and GEORGE O. BENSON, Niagara Falls, N. Y., assignors to Niagara Metal Stamping Corporation, Niagara Falls, N. Y. Filed May 27, 1927. Serial No. 194,703. 10 Claims. (Cl. 24—243.)



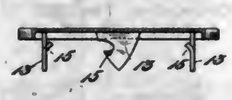
1. In a clamping device for clamping together two relatively movable members, a frame adapted to be secured to one of said members, a locking bolt supported on said frame to move into and out of locking relation to said other member, and a holding nut on said bolt which engages and is held from turning by said frame.

1,661,869. CHAIN. CARL AUGENSTEIN, Cranston, and ROBERT VOGEL, Providence, R. I., assignors to Automatic Gold Chain Company, a Firm composed of Edwin F. M. Speidel and Albert R. Speidel, Edgewood, R. I. Filed Dec. 9, 1926. Serial No. 153,527. 5 Claims. (Cl. 59—79.)



3. A bracelet structure comprising a series of extendible link units, each having a guide link formed of sheet stock folded to provide side walls and portions of a rear wall with their edges spaced apart and turned inwardly forming guiding lips, a band-shaped slide link having a broad plate extending beneath said lips and a narrow plate positioned to complete the rear wall of the guide link between said lips, laterally-extending abutment fingers on said lips, a link closing spring acting between said abument and the fold of said band link, and an integral cross bar on the adjacent end of the guide link detachably engaged by the hook of the slide link, said fingers on the guide link extending beneath the hook tongue to prevent a disengaging action of the hook except when the link parts are in extended position.

1,661,870. STREET MARKER. LEON F. N. BALDWIN, Edgewood, R. I., assignor of one-half to Benjamin S. Clark, Providence, R. I. Filed July 12, 1926. Serial No. 121,903. 3 Claims. (Cl. 94—1.5.)



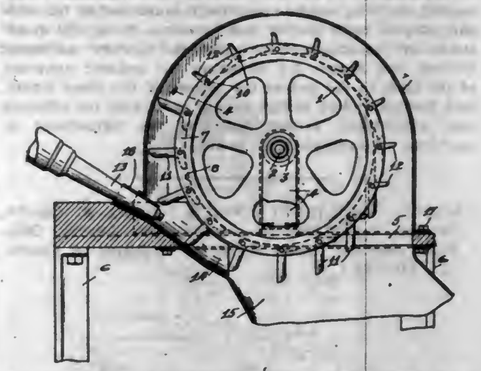
1. A street marker formed of a plate of sheet stock having a plurality of rearwardly extending prongs, the side edges of said prongs being tapered toward its end, one side edge of each prong being notched to render its contacting area less than that of its opposite edge whereby when driven into the material of the roadbed the plate has a tendency to rotate and force the roadbed material into said notch to assist in locking the plate in set position.

1,661,871. PROCESS FOR THE PREPARATION OF HETEROCYCLIC ARSENIC COMPOUNDS. ARTHUR BINZ and CURT RATH, Berlin, Germany. Filed Apr. 2, 1926, Serial No. 99,379, and in Germany Nov. 4, 1925. 7 Claims. (Cl. 260—14.)

1. Process for the preparation of organic arsenic compounds of the type $R—As=As—R_1$, wherein R is a heterocyclic group, and R_1 is a heterocyclic, isocyclic or open chain group, which comprises condensing an arsenic compound of R with an arsenic compound of R_1.

1,661,872. WATER MOTOR. EDWIN O. BRANINGTON, Rochester, N. Y., assignor of one-half to Oscar A. Peters, Rochester, N. Y. Filed Jan. 9, 1925. Serial No. 1,496. 8 Claims. (Cl. 253—136.)

3. In a water motor, the combination of a wheel, a plurality of floats mounted for oscillatory movement on the wheel, each comprising two arms of unequal length at substantially right angles to each other, and a nozzle, both arms of each succeeding float receiving direct impact from the jet from said nozzle as the wheel rotates, the forward part of the under surface of the long arm



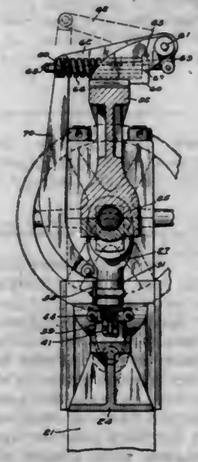
of each float being inclined to permit the end edge of the arm to pass close to the discharge end of the nozzle.

1,661,873. JOINT FOR THE MEMBERS OF BAR STRUCTURES. BERTHOLD BUXBAUM, Berlin-Charlottenburg, Germany. Filed Mar. 8, 1924, Serial No. 697,895. and in Germany Mar. 13, 1923. 5 Claims. (Cl. 287—14.)



1. A joint for members of bar-structures comprising, in combination, a joint-member consisting of a tubular part and a flat lug extending forth therefrom in the longitudinal direction thereof and having a hole; another joint-member consisting of a tubular member, a flat lug extending forth therefrom in the longitudinal direction thereof, and a projection located on this lug and being adapted to engage the hole of the other lug; and a bar adapted to be put through the first-mentioned tubular part and to check said projection in said hole, substantially as set forth.

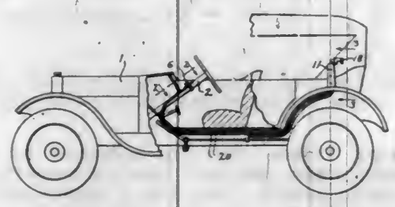
1,661,874. PRESS. ARTHUR A. BYERLEIN, Detroit, Mich. Filed Sept. 20, 1924. Serial No. 738,940. 18 Claims. (Cl. 78—13.)



1. In an apparatus of the character described adapted for working metal, a frame having therein a bed and a reciprocable slide arranged to receive therebetween the

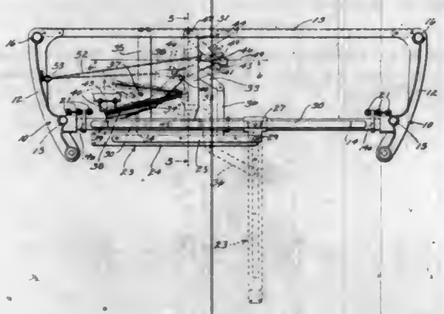
metal to be worked, driving means for sliding said slide downwardly towards the bed and for returning it upwardly, yielding means operatively connected to the slide and adapted to be placed under tension during the downstroke of the slide and to assist the upward movement thereof, and means for adjusting the nearest approach of the slide to the bed at the bottom of the down stroke, said last-mentioned means having provisions for effecting said adjustment without affecting the adjustment or operation of said yielding means.

1,661,875. SIGNALING DEVICE. HARRY A. CAHILL, Newark, and HARRY H. DENNIS, East Liberty, Ohio. Filed July 23, 1927. Serial No. 207,916. 6 Claims. (Cl. 116—51.)



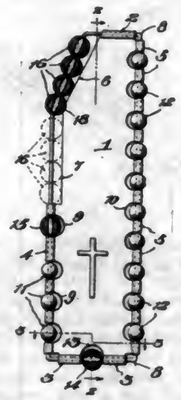
1. In a vehicle signal, a support adapted to display the signal fore and aft of the vehicle, a signal panel normally invisible, and a remote control means for causing said panel to be displayed in visible position both fore and aft of the vehicle, and resilient means for returning said panel to its inoperative position when released.

1,661,876. FOLDING BED. EDGAR COCKS, Los Angeles, Calif., assignor to Los Angeles Wall Bed Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 3, 1925. Serial No. 72,869. 5 Claims. (Cl. 5—168.)



1. A folding bed, comprising a base, a bed frame pivotally mounted on the base to swing vertically thereon and overhang the base when in horizontal position, an auxiliary leg pivotally mounted on the base to swing from folded position, transversely of the bed, to extended position, longitudinally of the bed and beneath the overhanging portion of the bed frame, yielding means to normally hold said leg in extended position, means in connection with the bed frame to effect movement of said leg from extended to folded position, against the action of said yielding means, upon upward movement of the bed frame, and toggle means in connection with said moving means and bed frame to insure full extended movement of the leg.

1,661,877. PRAYER-BEAD DEVICE. JOHN COSTELLO, Providence, R. I. Filed Apr. 30, 1927. Serial No. 187,932. 5 Claims. (Cl. 235—123.)



2. In a prayer device, a plate having a series of cut-outs along one side thereof and having a cut-away part forming an inclined and a straight edge on its opposite side, wire means disposed along said sides of the plate, means to hold the wire means, in position, beads strung on the wire and arranged in the cut-outs, and movable beads strung on the wire means and slidable from the inclined to the straight edge and vice-versa.

1,661,878. GASKET. JOHN C. CROMWELL, Columbus, Ohio, assignor, by mesne assignments, to The Testite Company, a Corporation. Filed Jan. 12, 1923. Serial No. 612,258. 6 Claims. (Cl. 288—1.)



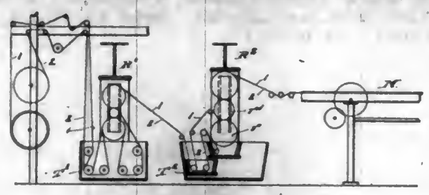
1. As an article of manufacture a hollow endless gasket having seat engaging portions on opposite faces thereof, one of the seat engaging portions having a flange extending beyond the plane of the body of the gasket and arranged to be seated in a groove in one of the elements to be packed, the flange extending substantially parallel with the axis of the gasket, substantially as described.

1,661,879. TREATMENT OF CELLULOSIC MATERIALS. DENIS DE GÖNCZ, North Adams, Mass., assignor to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1924. Serial No. 739,201. 9 Claims. (Cl. 8—20.)

1. Process of treating natural cellulosic material of the character described which comprises applying to such material a solvent activating agent, and thereafter subjecting the material containing the activating agent to the superficial action of a cellulose solvent.

1,661,880. LAMINATED FABRIC AND METHOD OF MAKING IT. DENIS DE GÖNCZ and ALBERT S. JONES, North Adams, Mass., assignors to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1925. Serial No. 10,263. 5 Claims. (Cl. 154—34.)

1. The method of joining preformed cellulosic fiber webs, which comprises preliminarily applying to the webs a caustic alkali, subsequently subjecting the webs thus prepared to the action of cuprammonium solution and bringing the webs together prior to the completion of

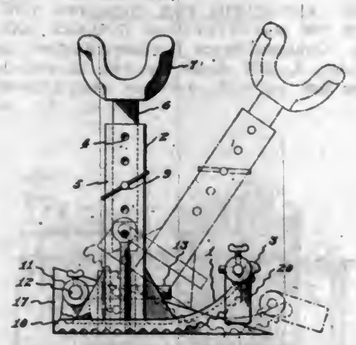


the ensuing action between the caustic alkali, the cuprammonium, and the cellulosic material of the webs.

1,661,881. TREATMENT OF CELLULOSIC FABRICS. DENIS DE GÖNCZ and ALBERT S. JONES, North Adams, Mass., assignors to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed Dec. 9, 1926. Serial No. 153,720. 3 Claims. (Cl. 8—20.)

1. The method of treating natural cellulosic fibrous material of the character described, which comprises impregnating the material with causic solution, allowing the impregnated material to dry with the caustic therein, and subsequently subjecting the material containing the dry caustic to the superficial action of cuprammonium solution.

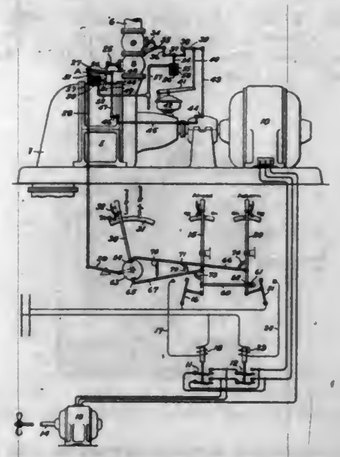
1,661,882. VEHICLE JACK, JAMES W. DERRICK, Philadelphia, Pa. Filed Oct. 30, 1926. Serial No. 145,285. 4 Claims. (Cl. 254—89.)



1. A vehicle jack comprising a standard adapted to support a vehicle including a flanged base having its front end portion curved upwardly, adjustable vehicle wheel traction means pivoted to said flanged base in spaced co-operative relation thereto, and stop means carried by said base and pivoted to the said upwardly curved end thereof and designed to engage with the floor or ground for arresting the rocking movement of said jack at any point between the inclined and normal vertical vehicle supporting position thereof.

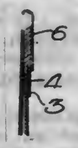
1,661,883. ELECTRIC-SHIP-PROPULSION INSTALLATION. EDGAR D. DICKINSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 19, 1922. Serial No. 576,165. 1 Claim. (Cl. 172—8.)

In a ship propulsion system, the combination of a prime mover, a generator driven thereby, a motor, switch means for connecting the generator to the motor whereby the motor may be connected to operate in either direction, a controlling means for the switch means, valve mechanism for controlling the admission of elastic fluid to said prime mover, a manually controlled means for said valve mechanism, a governor means also connected with said valve mechanism, means connecting said manual controlling means to said governor means for modifying the setting of it in accordance with the position of said manually controlled means, and interlocking means be-



tween said switch controlling means and said manually controlled means whereby the prime mover must be started before said switch means can be closed and said switch means must be closed before the prime mover can be operated above a predetermined low speed.

1,661,884. CONTAINER AND METHOD OF SEALING. JOHN M. DRIVER, Philadelphia, Pa. Filed Sept. 9, 1922. Serial No. 587,151. 2 Claims. (Cl. 229—62.)



1. A bag comprising a tubular blank sealed at one end and having one face extending at the other end beyond the end edge of the other face, and an adhesive on the outside and at the open end of said bag constituting securing means when the aforesaid open end is folded over to close the bag.

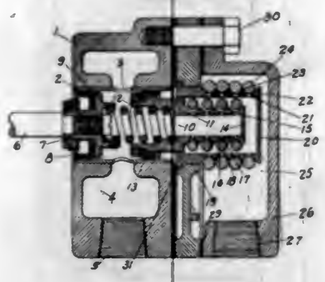
1,661,885. GAME APPARATUS. SHERWOOD E. EDWARDS, New Orleans, La. Filed July 30, 1927. Serial No. 209,489. 3 Claims. (Cl. 273—125.)



1. A game apparatus of the class described including a board constituting a playing field over which marbles are adapted to be rolled, a second board arranged thereunder constituting an inclined marble-returning runway, said boards being pivotally connected together at one end, means for spacing the boards apart at their other end, an easel for elevating the hinged end of the lower board whereby the upper board may be maintained in substantially horizontal position, the upper board at its hinged end terminating short of the lower one, whereby marbles rolling off of the upper board drop on

to the lower one and are returned to the shooter, said easel constituting a stop for blocking the marbles which roll off of the upper board and directing them on to the lower board.

1,661,886. PUMP. CHARLES P. EISENHAUER, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 2, 1927. Serial No. 171,942. 11 Claims. (Cl. 103—178.)



1. In combination, a cylinder having an inlet port and a plurality of radial ports, a sealing ring mounted on the exterior of said cylinder over said ports adapted to regulate the exit of liquid from the interior of the cylinder to the exterior thereof, said cylinder having an annular groove on the exterior thereof associated with the exit ends of said ports for forming a seating surface for said ring to facilitate the sealing of said ports, and a second cylinder having a plurality of radial ports and telescoping within the said cylinder, the two cylinders being relatively movable with respect to each other.

1,661,887. METHOD OF AND MEANS FOR PRESERVING VULCANIZED RUBBER. HANS WERNER FIEDLER, Leipzig, Germany. Filed Sept. 3, 1924. Serial No. 735,630, and in Germany Sept. 13, 1923. 2 Claims. (Cl. 18—53.)

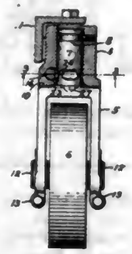
2. The process of producing a paste for preserving vulcanized rubber, consisting in mixing glycerine benzaldehyde and talcum, introducing the mixture into a solution of raw rubber in paraffin oil at about 140° C., and then raising the temperature of the solution to about 180° C.

1,661,888. METHOD OF AND MEANS FOR CONTINUOUSLY VULCANIZING RUBBER STOCK. GEORGE FREDERICK FISHER, Roselle, N. J. Filed Aug. 18, 1926. Serial No. 130,018. 13 Claims. (Cl. 18—53.)



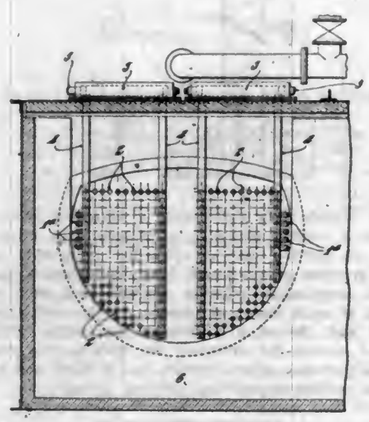
1. A method of continuously vulcanizing rubber stock which includes the step of carrying the stock in a moving liquid stream through a vulcanizing chamber and applying heat to the liquid which carries the stock through the chamber.

1,661,889. SWIVEL WHEEL. HENRY G. FRENCH and EDWARD W. MCSHEEN, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Sept. 27, 1924. Serial No. 740,418. 4 Claims. (Cl. 16—35.)



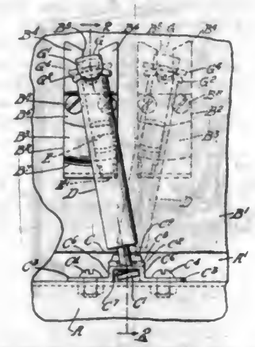
1. A swivel wheel comprising a socket member, a fork having a shank rotatably mounted therein, a wheel carried by said fork, said shank having a transverse recess in the side thereof, a pin mounted in said socket member having an eccentric portion for engaging in said recess whereby a rotative movement of said pin adjusts said fork angularly and clamps the same to said socket member.

1,661,890. APPARATUS FOR CLEANING THE FIRE TUBES OF MULTITUBULAR BOILERS AND THE LIKE. CHARLES BRUCE GARDNER, Stafford, England. Filed Apr. 8, 1927, Serial No. 182,114, and in Great Britain Mar. 10, 1926. 4 Claims. (Cl. 122—391.)



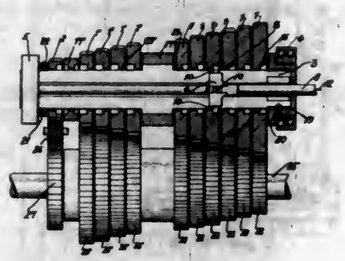
1. An apparatus of the class described, comprising a horizontal header having a fluid inlet, a series of blow pipes depending from the header in two rows, the pipes in one row being staggered in relation to the pipes of the other row, and a series of nozzles projecting horizontally from each blow pipe, the nozzles of one row of pipes being longer than the nozzles of the other row of pipes and extending between the pipes of the last mentioned row, with all the nozzles terminating in a common plane.

1,661,891. HOOD LATCH. CHARLES B. GILMORE, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1926. Serial No. 96,938. 20 Claims. (Cl. 292—114.)



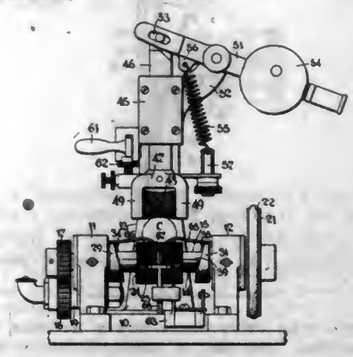
1. In combination with a closure, a latch member, a stem upon which said latch member is slidably mounted, a base upon which said stem is positioned adjacent said closure, yielding means normally thrusting said latch member downwardly toward said base, and a universal rolling connection between the bottom of the stem and said base.

1,661,892. CHANGE-SPEED MECHANISM. IGNACIO VIVES GIRONÉS, Barcelona, Spain. Filed Jan. 2, 1926, Serial No. 78,913, and in Spain Jan. 10, 1925. 2 Claims. (Cl. 74—59.)



1. In change speed gears of the kind in which two series of corresponding graduated gear wheels are disposed upon parallel spindles, the respective gear wheels of the series being constantly in mesh, means by which any one of the series of gear wheels is locked upon its spindle, consisting in combination of a spindle having a co-axial bore, radial slots extending from the periphery of the spindle to the said bore, the said gear wheels having key slots adapted to come into position adjacent the said radial slots in the said spindle, a member adapted to move within the bore of the said spindle, a head carried and rotatable on the end of said member, the said head having parts adapted to slide within the said radial slots, radially disposed keying bolts carried by the said head, means adapted to move the said keying bolts radially outward on the said keying bolts being set in line with the key slots of one of the gear wheels, and means for retracting the said keying bolts, substantially as described.

1,661,893. GOLF-BALL-WINDING MACHINE. JOSEPH P. GRIGGS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 30, 1926. Serial No. 138,714. 10 Claims. (Cl. 242—3.)

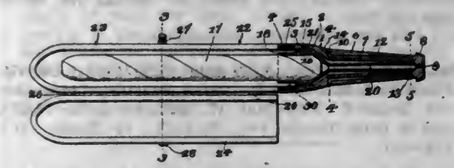


1. A winding machine comprising a plurality of ball supporting rollers, means to rotate the rollers, and means to reciprocate the respective rollers through different amplitudes.

1,661,894. MANUFACTURE OF ANHYDROUS MAGNESIUM CHLORIDE. ROBERT GRIESSBACH, Ludwigshafen-on-the-Rhine, and KURT RÖHRE, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 22, 1926, Serial No. 150,144, and in Germany Dec. 7, 1925. 2 Claims. (Cl. 23—91.)

1. The process of producing anhydrous magnesium chloride which consists in treating crystallized magnesium chloride in a current of a gas mixture containing about between 10 and 25 per cent of hydrogen chloride at a temperature of about between 200° and 350° C., the drying temperature employed being lower within the range specified, the smaller the content of hydrogen chloride in the gases.

1,661,895. CIGAR AND CIGARETTE HOLDER. GEORGE HILSHANSKY, Johnstown, Pa. Filed Oct. 29, 1927. Serial No. 229,717. 2 Claims. (Cl. 131—51.)

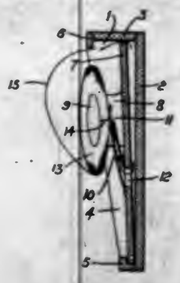


1. A cigar or cigarette holder comprising a tubular mouthpiece having a smoke outlet, a holder member for suspending a cigar or cigarette lengthwise, said member arranged in and connected to the mouthpiece and formed with a smoke conducting tube having one end anchored in the mouthpiece and opening into said outlet, said mouth-piece forming an air passage and formed with intakes communicating with said passage, and a tubular closed ash receptacle detachably connected to the mouthpiece for enclosing in spaced relation the cigar or cigarette suspended by said member.

1,661,896. PERFORATED-PAPER-ROLL HOLDER. WILLIAM V. HUNT, North Vancouver, British Columbia, Canada. Filed June 16, 1926. Serial No. 116,449. 2 Claims. (Cl. 242—55.2.)

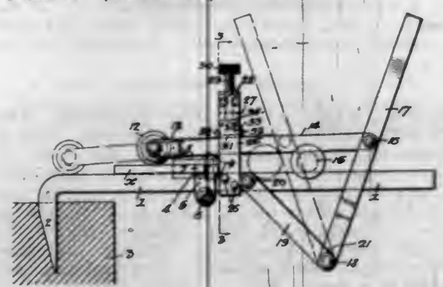
1. In combination, a holder for a roll of material, means for directing a fluid agent toward one portion of

the roll to effect initial dislodgment of the free end of the roll and means for directing a fluid agent toward another



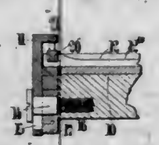
portion of the roll to impinge against the free end of the roll subsequent to the initial dislodgment thereof.

1,661,897. TILE CUTTER. GUSTAVE KOEHLER, Philadelphia, Pa. Filed Mar. 3, 1926. Serial No. 92,021. 3 Claims. (Cl. 125—23.)



1. A tile cutter comprising a frame for supporting a tile in correct position to be cut; an adjustable abutment gage for said tile; a rotary cutting tool adapted to be traversed across, and in engagement with, the face of the tile; a cutter bar for carrying said cutter; a roller bearing for said bar, loosely mounted intermediate said bar and said frame being capable of free movement longitudinally of said frame and said cutter bar; means for applying pressure to the cutter bar intermediate said cutter and said roller bearing; and means for moving the cutter across the tile.

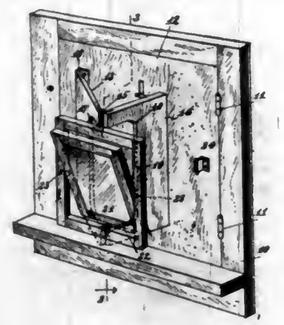
1,661,898. PRINTING BED FOR EMBOSSING OR IMPRINTING MACHINES. ROLLS PERCIVAL LINK, London, England. Filed Mar. 17, 1926. Serial No. 95,371, and in Great Britain Dec. 19, 1925. 10 Claims. (Cl. 101—3.)



1. A printing bed for an embossing press having in combination therewith side plates movable vertically with respect to the bed and type supporting bars movably mounted in the said side plates.

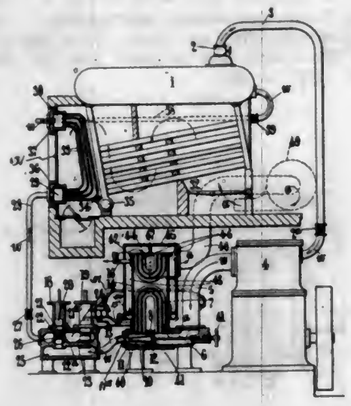
1,661,899. COMBINED DOOR AND MIRROR SUPPORT. DAVID ALONZO MARTENS, New York, N. Y., assignor to Sarah Lynagh Martens, New York, N. Y. Filed Feb. 12, 1927. Serial No. 167,827. 9 Claims. (Cl. 45—97.)

1. An adjustable support for mirrors including a panel having hingedly connected sections, each formed with a medial cut-out portion at the inner hingedly connected edges, and a mirror supporting frame fulcrumed upon the panel sections at the axes of the hinged connection therebetween and adapted when the panel sections are disposed



at an angle to each other, to swing laterally with respect thereto, the cut-out portions affording a clearance space for the swinging movement of the mirror supporting frame.

1,661,900. STEAM-POWER INSTALLATION. JOHN MCCALLUM, Glasgow, and HARRY PERCIVAL HARVEY ANDERSON, Lanarkshire, Scotland. Filed Feb. 3, 1927, Serial No. 165,706, and in Great Britain Feb. 1, 1926. 3 Claims. (Cl. 60—95.)

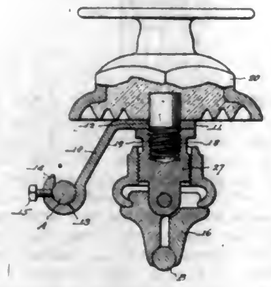


3. A steam power installation comprising a steam generator, a steam power unit, means for subjecting the exhaust steam simultaneously to positive heat abstraction and to the compressive effect of fresh quantities of further exhaust steam, the aforesaid steam being thereby partially condensed to form a mixture of steam and water, said means comprising a chamber into which exhaust steam from the steam power unit passes, a set of U-tubes, a second chamber communicating with the first chamber by means of the said set of U-tubes, a second set of U-tubes, means whereby cool air is drawn through said second set of U-tubes and forced into the combustion space of said steam generator, an auxiliary heater for said mixture comprising a pair of troughs, a plate carrying said troughs and adapted to form part of the back wall of the steam generator furnace, removable covers for said troughs, and C-shaped tubes connecting said troughs in series, and pumping apparatus for passing the said mixture into the water space of said steam generator.

1,661,901. VENEER AND METHOD OF MANUFACTURING. JAMES MCINTOSH, Norristown, Pa., assignor to Diamond State Fibre Company, Bridgeport, Pa., a Corporation of Delaware. Filed May 14, 1926. Serial No. 109,179. 7 Claims. (Cl. 154—2.)

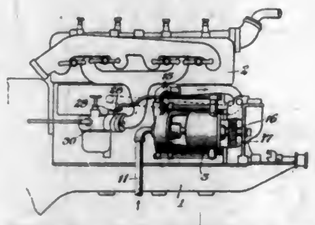
3. The method of manufacturing thin veneer sheets, which consists in treating a fibre sheet with a resinous binder, laying said sheet against a face of a relatively thick body of fibrous material, hardening the binder under conditions such that at least a portion of said fibrous body adheres to the face of the sheet, and thereafter removing the sheet from said body with an adhering portion of the latter forming on one face of the sheet a fibrous surface.

1,661,902. FEED-WIRE SUPPORT. NELSON A. MICHAELSON, Uniontown, Pa. Filed May 27, 1927. Serial No. 194,738. 3 Claims. (Cl. 101—43.)



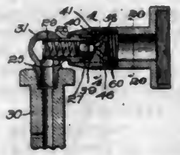
1. The combination with an insulator having a depending stud and hanger means having threaded engagement with said stud, of a feed wire support having a member formed with an opening to fit over said stud, said member of the feed wire support being clamped against the under side of the insulator by the hanger means.

1,661,903. GOVERNOR AND WATER CIRCULATOR. MARTIN JOHN MOHLER, Wyoming, Del. Filed Mar. 29, 1927. Serial No. 179,295. 1 Claim. (Cl. 123—175.)



In an internal combustion engine, in combination a casing, a pump chamber at one end of the casing, a propeller in the pump chamber, a shaft fixed to the propeller and mounted in the casing, means on the shaft for operatively connecting the same to the engine, a ring governor on the shaft, a collar moved by the governor, a shaft projecting through the casing, a crank arm on the shaft operatively engaging the collar, a second crank arm on the shaft, and a rod operatively connecting said second crank arm with the carburetor controlling valve of the engine.

1,661,904. LUBRICATING SYSTEM. HOWARD J. MURPHY, Reading, and MOSES F. CARR, Brookline, Mass., assignors, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,643. 30 Claims. (Cl. 284—19.)



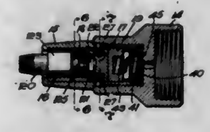
1. A lubricating system comprising a cup or nipple having a lubricant-receiving opening in one end thereof, polygonal lateral projections adjacent said end having said opening, in combination with a lubricant gun having a barrel, a lubricant expelling plunger and a nozzle at one end of the barrel, said nozzle presenting at the end thereof an opening permitting passage of the nozzle over said end of said cup or nipple and over said projections, and presenting portions that underlie said projections when the nozzle is turned relative to the cup or nipple, said nozzle rotatable by partial rotation of the lubricant gun barrel in one direction for quick engagement of said nozzle to said cup or nipple and by partial rotation in the other direction for quick disengagement of said nozzle from said cup or nipple, rotary valve means operatively interposed between the interior of said barrel and said nozzle and valve opening and closing means actuated by rotation of said barrel.

1,661,905. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,648. 5 Claims. (Cl. 284—19.)



1. Lubricating apparatus including a lubricant-delivering nozzle presenting means for engagement beneath projections on a lubricant-receiving nipple, and a sealing part movable relative to said means toward the nipple to seal the joint around a lubricant-receiving opening in the nipple, and cooperating pin and inclined slot means for positively effecting such movement, said sealing part having means for engaging the nipple to prevent rotation of said sealing part relative to the nipple during coupling.

1,661,906. LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,659. 5 Claims. (Cl. 284—19.)



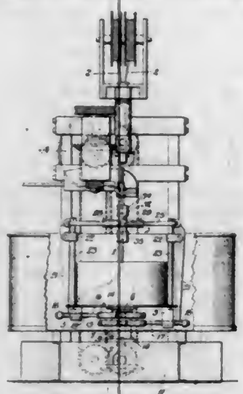
1. Lubricating apparatus comprising a lubricant gun having a discharge nozzle presenting a lubricant-pressed sealing part and a rotary valve cooperating therewith, and a coupling for engagement over a lubricant-receiving nipple presenting coupling projections, said lubricant-pressed sealing part including a gasket holder, a gasket for engagement with a face of the lubricant-receiving

nipple surrounding a lubricant-receiving aperture therein and a piston carried by said gasket holder and urging said gasket forwardly into sealed relation to said face of the nipple.

1,661,907. STEEL ALLOY AND PROCESS OF MAKING THE SAME. EDMUND PAKULLA, Remscheid, Germany, assignor, by mesne assignments, to Deutsche Edelstahlwerke Aktiengesellschaft, Bochum, Germany, a Corporation of Germany. Filed Sept. 18, 1924, Serial No. 738,525, and in Germany June 9, 1923. 2 Claims. (Cl. 148—13.)

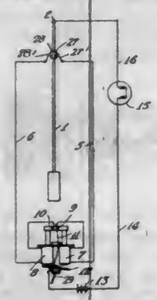
1. The process of manufacturing permanent magnets, which consists in heating high speed steel containing chromium and at least one of the elements tungsten, molybdenum or cobalt at a temperature above lowering temperature, and quenching the same in mild non-aqueous hardening agents.

1,661,908. MACHINE FOR FLATTENING TUBULAR MATERIALS. FREDERICK PALMER, Brooklyn, N. Y., assignor to Triangle Conduit Co., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 9, 1926. Serial No. 153,717. 6 Claims. (Cl. 153—2.)



1. A mechanism of the character described, including a pair of reciprocating members having rotary mounting and between which a turning conduit is adapted to be positioned, and dies on said members adapted to engage opposite sides of the conduit and flatten the same, said dies so shaped as to subject the independent convolutions of the conduit to a step by step pressure operation.

1,661,909. ELECTRIC CLOCK. CHARLES EDMOND PRINCE, Burchetts Green, England. Filed Aug. 6, 1924, Serial No. 730,449, and in Great Britain Aug. 10, 1923. 3 Claims. (Cl. 58—30.)



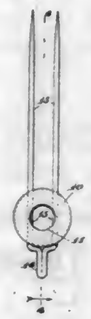
1. An electrically driven clock, comprising a time-indicating mechanism, an oscillating time-keeping element mechanically separate from the time-indicating mechanism, an electromagnetic device included in a circuit controlled by the time-keeping element, a spring external to the oscillating time-keeping element and arranged to be deflected and energized by the latter towards the end of an oscillation, and an element actuated by the said electromagnetic device and operating to deflect and energize said spring prior to its engagement by the oscillating time-keeping element, said electromagnetically actuated element being withdrawn from engagement with said spring during the period of engagement therewith of the oscillating time-keeping element.

1,661,910. ANTISKID DEVICE. SVERRE QUISLING, Madison, Wis. Filed Jan. 24, 1927. Serial No. 163,189. 3 Claims. (Cl. 152—14.)



1. In an anti-skid device for tires a flat rectangular tread element for positioning against the tire tread and of a length to project laterally in both directions with respect to the sides of the tire, said element provided with an opening and a slot arranged in spaced relation, a pair of oppositely extending connecting means for abutting respectively against the inner face of the tread element, rear face of a wheel rim and opposite sides of a felloe, means extending through one of said connecting means and with said opening for securing one end of said element in position, and means extending through the other of said connecting means and with said slot for securing the other end of the element in position, said slot providing for the adjustment of the last mentioned means.

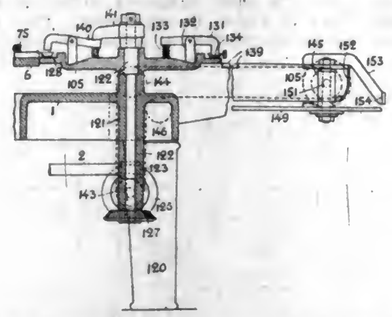
1,661,911. FASTENING DEVICE. DANIEL I. REITER, New York, N. Y. Filed Aug. 12, 1927. Serial No. 212,518. 10 Claims. (Cl. 24—150.)



1. A double pointed pin fastener of the class described including a flanged cap, a pair of generally parallel pins passed through the cap flange, and bent back into substantial parallelism with the plate.

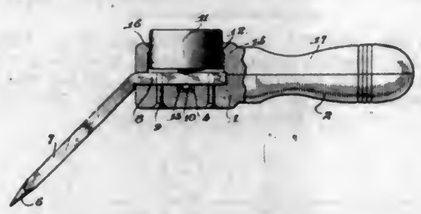
1,661,912. MACHINE FOR MANUFACTURING BOTTLE CAPS, SO CALLED CROWN CAPS. HENRY ARNOLD SKOV, Copenhagen, Denmark, assignor to A/S Dansk Pressefabrik, Copenhagen, Denmark. Filed Dec. 22, 1926, Serial No. 156,473, and in Denmark Jan. 12, 1926. 5 Claims. (Cl. 113—80.)

1. In a continually working machine for providing bottle caps with a lining and a cork disc in which machine the caps are intermittently carried through the machine through two or more parallel guide ways with a rotary pressing table provided with means for pressing down the cork discs in the caps and arranged at the delivery end of each of said guide ways; means intermittently operated from said machine for carrying the



caps from said guide ways to said pressing table, means for leading the caps from said pressing table to a belt conveyor, a rotary controlling table receiving the caps from said belt conveyor, and a turn device which turns the caps over during their passage from the belt conveyor to the controlling table.

1,661,913. BATTERY TESTER. JOHN TAYLOR, Chicago, Ill. Filed Jan. 22, 1927. Serial No. 162,875. 5 Claims. (Cl. 175—183.)



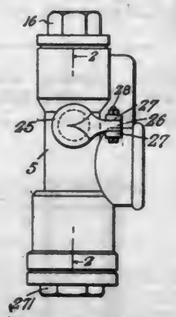
1. A battery tester comprising a body portion having a pair of ways formed in one side thereof, prods having portions of the same engaged in said ways and directly connected to said body portion, portions of said prods extending beyond the body portion, a handle for the body portion, a resistor connected to the prods, a volt meter electrically connected to portion of said rods, cushioning means interposed between such volt meter and said prods, and a protective means arranged about the volt meter and connected to said body portion.

1,661,914. APPARATUS FOR THE CONTINUOUS GRINDING AND POLISHING OF GLASS IN THE FORM OF STRIPS OR PLATES. ROBERT FRANCIS TAYLOR, St. Helens, England, assignor to Pilkington Brothers Limited, Liverpool, Lancaster, England, a British Limited Company. Filed Apr. 17, 1924, Serial No. 707,234, and in Great Britain Feb. 6, 1924. 1 Claim. (Cl. 51—240.)



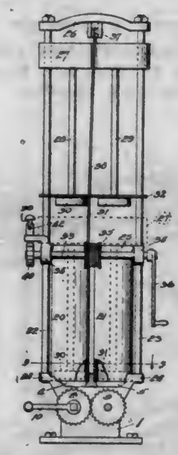
In continuous grinding and polishing apparatus of the type referred to, a series of tables one end surface of each of which abuts against the adjacent end surface of the next adjacent table, a ridge on one such abutting end surface, a recess in the other of said abutting end surfaces, the ridge and recess being in mutual engagement to prevent relative motion between said end surfaces in either direction perpendicular to the plane of the supporting surface of said tables, and means for retaining the end surfaces in abutment.

1,661,915. CYLINDER COCK. ANTISTENE ABBAMONTE, Cheyenne, Wyo. Filed May 2, 1924. Serial No. 710,607. 10 Claims. (Cl. 121—134.)



1. In a cylinder drain valve, in combination, a hollow casing having an internal valve seat near one end, a valve provided with a valve seat adapted to cooperate with the internal valve seat so as to close the opening, means comprising a spring for normally holding the valve away from its seat, said casing having a passageway adapted to be connected to the interior of a steam engine cylinder, said casing having also another opening which communicates with the atmosphere, said last named opening being located on the same side of the valve as the spring and on the side of the valve opposite from the first mentioned opening and a check valve in the last named opening which permits an outward flow but prevents an inward flow.

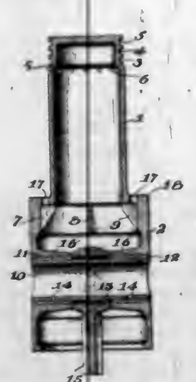
1,661,916. HOT-TAMALE-FORMING MACHINE. SAMUEL ALLEN, Jonesboro, Ill. Filed Apr. 5, 1926. Serial No. 99,774. 6 Claims. (Cl. 107—1.)



5. A hot tamale forming machine comprising a casing having two independent cylinders arranged side by side, a screw conveyor within each cylinder, intermeshing gears for revolving the conveyors at the same speed in direction toward each other, a receiving hopper for each cylinder, a supply hopper for each receiving hopper, one

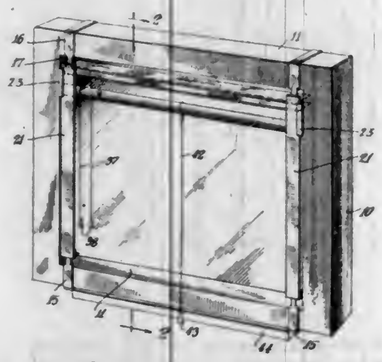
supply hopper adapted to contain meat and the other meal, a discharge nozzle for each casing cylinder and one of said nozzles being disposed within the other nozzle and spaced therefrom to provide a passage therearound, a pair of guide rods supported by the casing, a collar fixed to the upper ends of the supply hoppers through which said rods pass, a cross-bar for uniting the rods at their upper ends, a weight slidably mounted upon said guide rods, a piston for each supply hopper having connection with said weight, means for elevating said weight and the pistons connected therewith and means for locking the weight and pistons in their elevated positions.

1,661,917. PISTON. ALBERT ANDENSON, Marquette, Nebr. Filed Sept. 27, 1926. Serial No. 137,994. 2 Claims. (Cl. 74—108.)



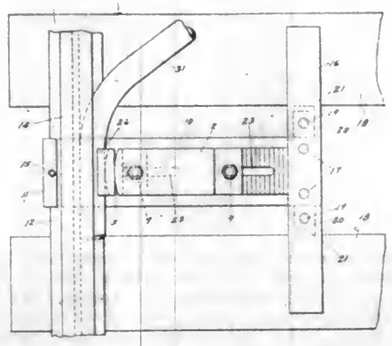
1. A hollow piston comprising a large and small end section, a wrist pin having a diameter approximately one-third that of the large section in the large section for carrying a connecting rod, reinforcing elements within the piston between the large and small sections, suitable openings in the large section for allowing compression to escape and through which the piston may be lubricated.

1,661,918. LARGE-PANE-WINDOW CLEANER. VILMA BENO, Astoria, N. Y. Filed Nov. 2, 1927. Serial No. 230,581. 2 Claims. (Cl. 15—251.)



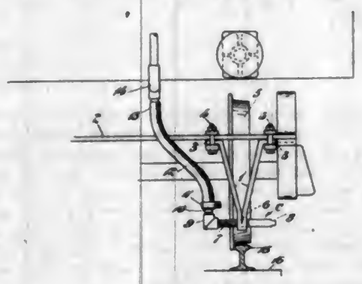
1. A window washing apparatus comprising pairs of upper and lower clamps to engage the top and bottom of a sash, resilient means for drawing the clamps into operative engagement, vertical guide bars carried at the adjacent ends of said clamps, slides operable on said guides, a wiper carried by said slides, and controllable means for spraying liquid, adjacent said wiper.

1,661,919. DEVICE FOR BENDING PIPE OR THE LIKE. JOHN H. CAREY, Portland, Oreg. Filed June 1, 1927. Serial No. 195,787. 4 Claims. (Cl. 153—82.)



1. In a bending device of the kind described, the combination with a fulcrum piece, of a base plate adjustably connected thereto, and means on said base plate for detachably fastening it to a railroad rail when in place in a track.

1,661,920. SAFETY DEVICE FOR RAILWAY VEHICLES. FRANCIS CARLEY, Reid River, Queensland, Australia. Filed Feb. 10, 1927, Serial No. 167,303, and in Australia Feb. 23, 1926. 3 Claims. (Cl. 246—172.)

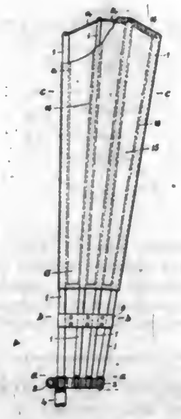


3. A safety device for railway vehicles comprising a bracket depending from the vehicle, a contact member projecting downwardly from the vehicle and terminating above the rail or permanent way level, said member being hollow and plugged at one end and screwed into the bracket, said member being formed at its plugged end and internally with means for rotating same by a spanner.

1,661,921. BLADE FOR PROPELLERS, VENTILATING FANS, AND THE LIKE. ALBERT CERVOL, Barking, England, assignor of one-fifth to John Alexander Fisher, one-fifth to Frederick William Shears, one-fifth to Edward Lumsden, and one-fifth to Charles Raymond, London, England. Filed July 23, 1926, Serial No. 124,497, and in Great Britain July 7, 1926. 3 Claims. (Cl. 170—161.)

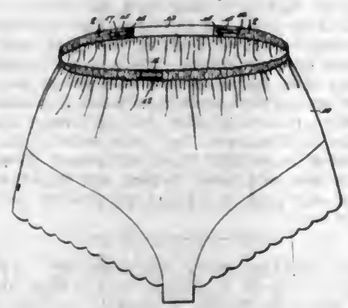
1. A blade for propellers, ventilating fans, and the like; comprising a series of tapered spring rods, a base support secured to the thicker ends of the rods, said rods

being arranged in fan shape, means for connecting the thinner ends of the rods loosely together, a covering consisting of flexible material encasing the rods and se-



cured thereto, and a flexible stiffener embracing all of the rods at a point between the ends of the covering and the support.

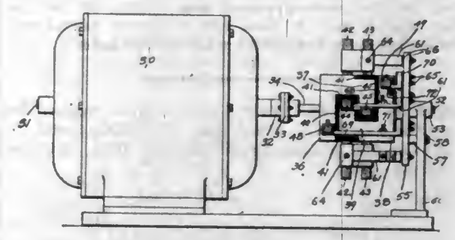
1,661,922. GARMENT. SAMUEL S. CHESNIN, New York, N. Y. Filed July 26, 1926. Serial No. 125,021. 1 Claim. (Cl. 2—237.)



A garment including a body encircling band of tubular formation throughout the major portion of its length, an elastic tape removably mounted in the tubular portion of the band and having its ends projecting through openings in the inner side thereof, hooks carried by the ends of the tape and engageable with eyelets riveted into the band, and patches over the outer face of the eyelets to conceal the ends of the hooks.

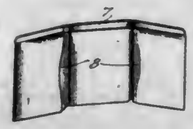
1,661,923. ROTARY RECTIFIER. CASSIUS M. CLAY, Mexico, Mo. Filed June 2, 1923. Serial No. 642,919. 11 Claims. (Cl. 175—364.)

1. A rotary rectifier comprising a commutator formed of two ring sections having circumferentially extending projections, insulating material located between said sections and projections, the insulating material being circumferentially widened at the adjacent edges of said projections, brushes contacting with said ring sections for delivering an alternating electric current thereto, a plurality of brushes adapted to make and break contact consecutively with said projections at the zero point of the alternation of said current for taking a direct current therefrom, said last mentioned brushes being of less thickness than the circumferential width of the insulation



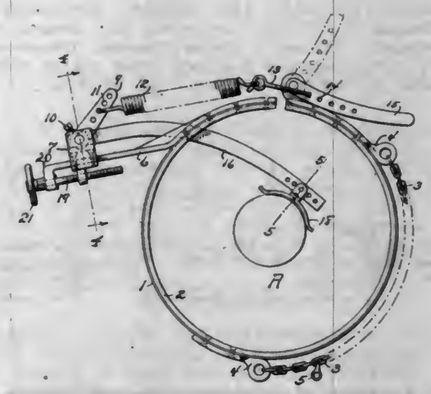
between said projections, and means for rotating said commutator synchronously with the cycles of the alternating current.

1,661,924. MANUFACTURE OF WALLETS AND POCKETBOOKS. CARL B. COOK, Haddonfield, N. J., assignor to Charles K. Cook Company, Incorporated, Camden, N. J., a Corporation of New Jersey. Filed May 13, 1927. Serial No. 191,122. 5 Claims. (Cl. 150—38.)



1. A wallet comprising a body portion having a pocket at each end and having a flap connected along one longitudinal edge with tongues adapted for insertion in said pockets.

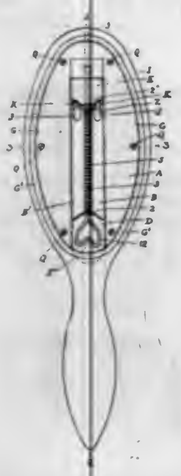
1,661,925. BRAKE-BAND LET-OFF. EMERY CORMIER, Nashua, N. H., assignor of one-half to Frederick Charles Sasse, Nashua, N. H. Filed Dec. 7, 1925. Serial No. 73,852. 3 Claims. (Cl. 139—107.)



1. A brake and let-off for a loom comprising a brake band engaging a part of the warp beam, a bracket arm projecting tangentially from said band, a frame slidably

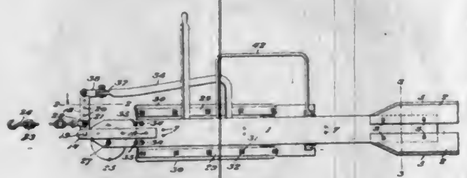
adjustable longitudinally of said arm, means for adjusting said frame toward and away from said band, a rock shaft carried by the frame, an arm projecting from the shaft, a coil spring having one end connected with the last mentioned arm and its other end connected with relation to the band, a second arm carried by the rock shaft, and a pressure plate carried by the second mentioned arm for engaging the warp on the beam.

1,661,926. BRUSH. ERIC LEOPOLD HUGO COSBY, Teddington, England. Filed July 19, 1926, Serial No. 123,456, and in Great Britain July 29, 1925. 3 Claims. (Cl. 15—176.)



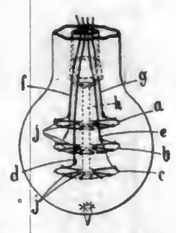
1. The combination with a brush back having a cavity in one face with a longitudinal recess in the center thereof and a bristle carrying plate for detachably mounting therein, of a metal liner for the cavity and recess and for the reception of the bristle carrying plate, said liner fitting within the recess and cavity of the back and being contiguous with the edge of said cavity.

1,661,927. DITCHING AND GRADING MACHINERY. CHARLES W. CUNDIFF, Owensboro, Ky., assignor to Owensboro Ditcher & Grader Company, Owensboro, Ky., a Corporation of Kentucky. Filed Aug. 31, 1923. Serial No. 660,444. 2 Claims. (Cl. 37—173.)



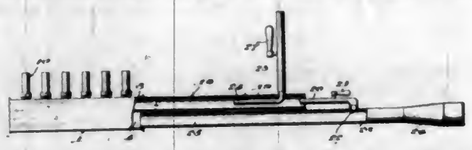
1. A machine of the character described including a moldboard having a concave depression formed adjacent an edge thereof, said depression beginning and terminating approximately in alignment with the main portion of said moldboard, and a cutting blade having a complementary portion fitted in the concave depression.

1,661,928. ELECTRIC LAMP. WILFRED DAWSON, London, England. Filed May 23, 1927, Serial No. 193,587, and in Great Britain June 16, 1926. 8 Claims. (Cl. 176—26.)



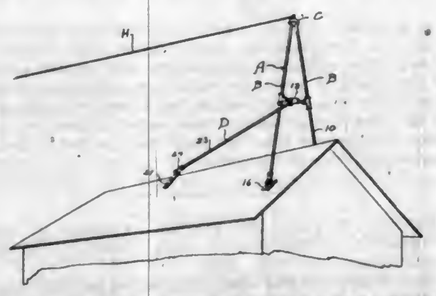
1. A multiple filament electric lamp having in combination a continuous filament divided into a plurality of sections in substantially parallel planes, and leading-in wires connected to each end of the filament and to points at the end of each intermediate section of the filament.

1,661,929. BLOW-BLAST GAS BURNER. HENRY V. DEEMAR, St. Louis, Mo., assignor of one-half to Herbert H. Deemar, Los Angeles, Calif. Filed Jan. 22, 1927. Serial No. 162,889. 2 Claims. (Cl. 158—109.)



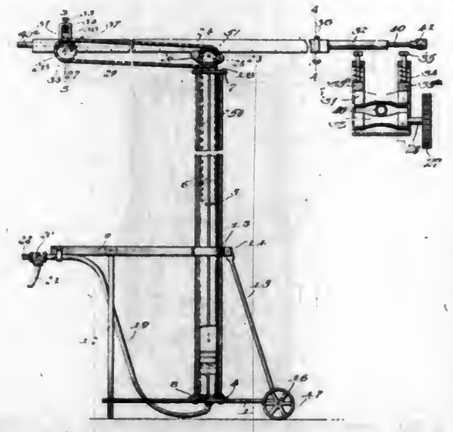
1. A flame tube for a blow blast gas burner comprising an inner, an outer and an intermediate tube arranged concentrically in spaced relation, the outer tube being longer than the intermediate tube, and the intermediate tube longer than the inner tube whereby the fuel is expanded at the end of the tube from which it is discharged and thereby operates to draw fuel up through the tube into which it discharges, the lower ends of the inner tubes having depending flared extensions, means for forcing air into said tubes through said extensions, and means for supplying an air and gas mixture to the intermediate tubes.

1,661,930. AERIAL MAST OR SUPPORT. CYRIL L. DIETRICH, Lookout Mountain, Tenn. Filed Dec. 30, 1925. Serial No. 78,444. 5 Claims. (Cl. 189—22.)



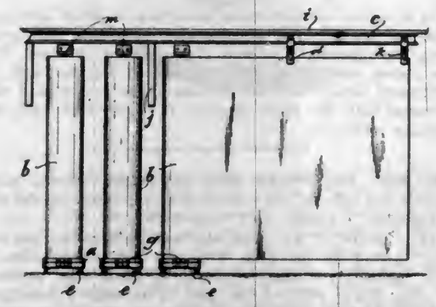
1. An aerial mast comprising a pair of upwardly converging supporting standards joined together at their upper ends, a cross tie connecting the intermediate portions of the standards, bearing plates pivotally connected to the base of each standard, a stay rod pivotally connected at one end to said cross tie, and an anchoring block pivotally connected to the opposite end of said stay rod.

1,661,931. PORTABLE SOOT BLOWER. JOHN JAMES DOLAN, Coshocton, Ohio. Filed Jan. 17, 1923. Serial No. 613,163. 3 Claims. (Cl. 122—390.)



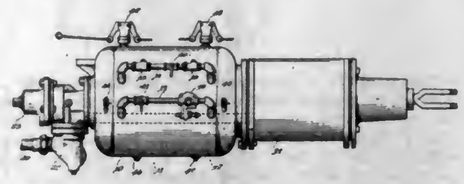
1. In a portable soot blower, a movable carriage, a cylinder mounted on the carriage, means connecting said cylinder with a source of fluid under pressure, a piston movable in said cylinder, a head connected with the piston and projecting outwardly of the cylinder, a track rigidly connected with the head in a horizontal position, a shaft rotatably mounted transversely of the head, a gear rigidly connected with the shaft, a second shaft rotatably mounted at one end of the track, a gear rigidly connected with the second shaft, a chain connecting the two gears, a pressure roller rigidly connected with the second mentioned shaft, a pressure roller spaced above the first roller, a sleeve slidably mounted in the track, means for rotating the first mentioned shaft, a steam pipe slidably mounted within the sleeve and provided with a nozzle at one end and with means for connecting its other end with a source of steam under pressure, said connecting means being in engagement with the pressure rollers for causing reciprocation of the sleeve and pipe.

1,661,932. APPARATUS FOR STORING AND DISPLAYING LINOLEUM AND LIKE MATERIALS. HENRY ELLIOTT, Glasgow, Scotland. Filed Mar. 2, 1925, Serial No. 12,606, and in Great Britain Mar. 11, 1924. 10 Claims. (Cl. 242—55.3.)



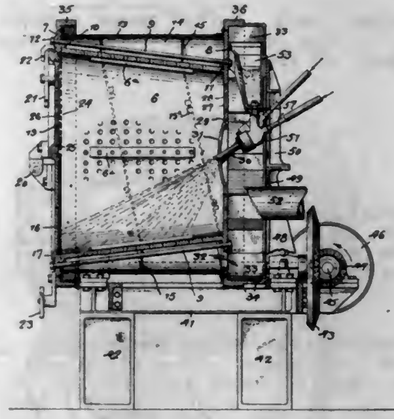
1. A system for storing, handling and displaying stock rolls of linoleum and similar materials, comprising means for individually and rotatably supporting a plurality of such stock rolls in vertical adjacently disposed positions, hand operated clips adapted to be detachably secured to the upper edge of the material of any desired roll after a portion thereof has been unwound from said roll; and means located above said plurality of rolls for supporting said clips and permitting horizontal movement thereof, for supporting any desired length of the material in a vertical plane.

1,661,933. AIR BRAKE. CHETTIE P. FARRELL, Detroit, Mich. Filed May 13, 1927. Serial No. 191,174. 6 Claims. (Cl. 303—85.)



2. An air brake system including an air storage tank, an auxiliary storage tank, conduits connecting said tanks, one of said conduits affording communication in only one direction, the other of said conduits affording regulated communication only in one direction.

1,661,934. SAND-BLAST MACHINE. GEORGE C. FATSCHER and CLARENCE E. BILLINGS, New Haven, Conn., assignors to The New Haven Sand-Blast Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 26, 1923. Serial No. 627,679. 5 Claims. (Cl. 81—8.)



5. In a rotary sand blast barrel, a frusto-conical perforated barrel body, a cylindrical shell surrounding but spaced therefrom, rotary heads at opposite ends of and common to said frusto-conical barrel body and shell, the ends of which bear against the opposed faces of said heads, together with the bolts extending between said heads and located between the shell and frusto conical body and serving to unite the said parts into a rigid barrel unit.

1,661,935. CHUCK FOR EXTENSION BITS. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bros. Mfg. Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 25, 1925. Serial No. 71,445. 3 Claims. (Cl. 279—90.)

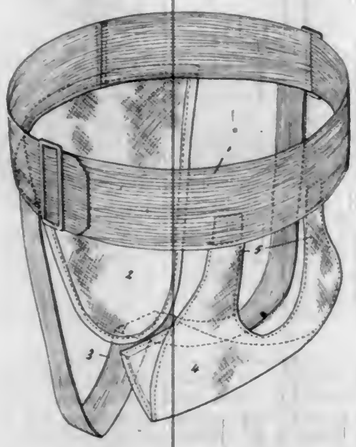
1. The combination in a chuck, of a spindle; a body portion secured to the spindle; a longitudinally movable socket portion arranged to turn with the spindle, said body portion having an abutment extending into the

socket of the socket portion; a casing enclosing the body portion and the socket portion, and having a shoulder beyond the socket portion to engage the head of a bit lo-



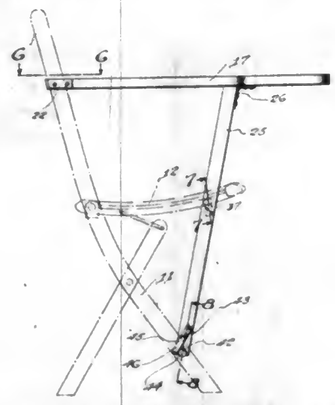
cated in the socket; and means for moving the casing longitudinally to clamp the head of a bit against the abutment on the body portion.

1,661,936. BELT. MAX F. FERATL, Richmond Hill, N. Y. Filed Apr. 18, 1925. Serial No. 24,200. 1 Claim. (Cl. 128—289.)



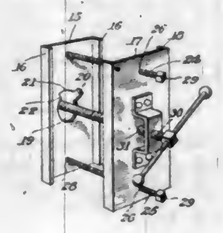
In a catamenial appliance, a supporting belt of elastic material, comprising two sections which are adjustably connected, a pad of water proof material having its edges rounded inwardly to the ends thereof, one of said ends being straight and the other end having strap extensions which are fixed to the back member of the belt at points equidistant from the center, a fabric front of semi-elliptical formation, having its widened edge fixed to the front section of the belt, a strap having its ends fixed to the sides of the front member of the belt and having its central portion lapped upon itself to underlie the outer and confronting ends of the pad and of the front piece, and the edges of the said pad and front piece being stitched to the said portion of the strap.

1,661,937. FOLDABLE CHAIR. GERVASIUS W. FISCHER and WALTER F. SUND, Madison, Wis. Filed June 12, 1926. Serial No. 115,581. 5 Claims. (Cl. 15—125.)



1. The combination with a foldable chair, of a table arm, means detachably connecting an end portion of the table arm to an adjacent side rail of the back frame of the chair, a supporting arm, means hingedly connecting the supporting arm to the table arm, means detachably connecting the supporting arm to an adjacent leg of the chair, and means carried by the supporting arm and engaging the seat member of the chair for forcing the supoprting arm into bearing relation with respect to said adjacent supporting leg when a weight is disposed upon the seat member.

1,661,938. KEY-PULLING DEVICE. HENRY A. FOLLINGSTAD, Chicago, Ill. Filed Apr. 6, 1927. Serial No. 181,521. 1 Claim. (Cl. 29—86.1.)

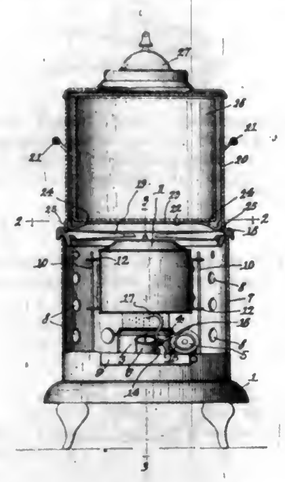


In a device of the class described, a plate provided with an opening and with a slot extending outwardly from the opening, a second plate, screws threaded into the plates, said plates being in spaced relation, and an additional screw mounted between those first named and threaded into the plate opposite that provided with the opening and slot.

1,661,939. OIL STOVE AND HEATER. ANNIE MARY GRAYSON, Macon, Ga. Filed Jan. 29, 1927. Serial No. 164,570. 1 Claim. (Cl. 126—96.)

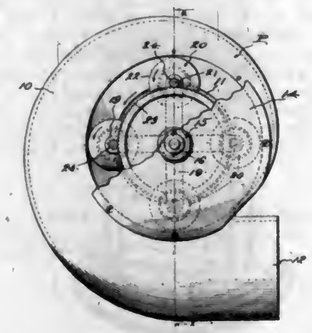
In a device of the class described, a base, an annular font carried by the base, a burner within the annular font, oppositely disposed upstanding guide rods mounted at their lower ends on the font, a chimney surrounding the burner, means for mounting the chimney on the guide rods for vertical sliding movement, a bearing mounted on the font, a shaft mounted to rock in the bearing and provided with inner and outer arms, the inner arm being engageable beneath the chimney to raise and to lower the chimney, the inner arm depending within the annular font when the inner arm is in an inopera-

tive position, the outer arm constituting means for operating the shaft, and a drum on the base and housing the guide rods, the shaft and the arms, the drum having an



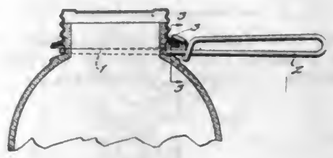
opening which renders the outer arm accessible, and a closure for the opening, the inner arm operating at a point approximately 90° remote from either guide rod.

1,661,940. IMPELLER. MAURICE W. GREEN, Hampton, Va. Filed Nov. 17, 1926. Serial No. 148,901. 10 Claims. (Cl. 170—159.)



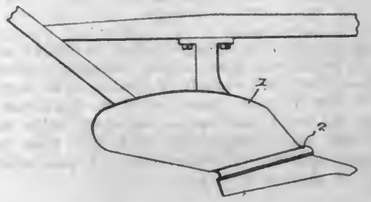
1. In combination, a housing, an impeller including a driving shaft therefor rotatably mounted in the housing, a fluid intake through said housing substantially concentric with the impeller, said impeller embodying a series of cylindrical rotors mounted and supported in spaced relation on and around said shaft with their axes substantially parallel with the shaft axis, means for rotating said rotors around their individual axes as they are moved through a circular path around the impeller axis, and a support on the shaft for the ends of said rotors adjacent the housing intake, said support providing blade members for assisting flow of fluid through the intake, and said housing provided with a fluid discharge disposed substantially tangentially with respect to said impeller.

1,661,941. CAP TOOL. ANDREW HALVORSON, Franklin, Minn. Filed July 29, 1925. Serial No. 46,848. 1 Claim. (Cl. 81—15.1.)



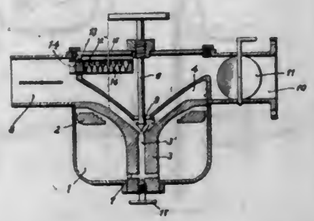
A jar-cap removing tool comprising a strip of heavy wire bent intermediate its ends into U-shape to provide a handle part, an extension on one limb of the U-shaped handle part bent into semicircular form to provide a jaw, the end of the other limb of the U-shaped part being twisted around the first limb at the junction of the jaw part with said first limb, and the extremity of the twisted part being bent into U-shape, with the free limb of this U-shaped part forming a lip, the jaw part being arranged to engage the bottom groove in the neck of a jar with the lip engaging the flange of a cap placed on the jar.

1,661,942. MOLDBOARD. TOM HAWKINS, Hollywood, Calif. Filed Oct. 30, 1925. Serial No. 65,848. 2 Claims. (Cl. 97—115.)



1. A plow having a single rib horizontally arranged on its mold board and formed of semi-circular shape in cross section for causing the soil to move away from the major portion of the board and to pulverize the soil.

1,661,943. AIR-CONTROL DEVICE FOR CARBURETORS. JOHN BOYD HAYES, Jr., Pegram, Tenn. Filed Nov. 27, 1922. Serial No. 603,651. 1 Claim. (Cl. 48—180.)



In a carburetor, a partition separating the air inlet of the carburetor from the mixing chamber thereof, a perforated tube in the top part of the partition and forming a direct connection between the air inlet and the outlet, the end of the tube, toward the air inlet being open and its other end closed, a plug valve closing the open end and adapted to be moved inwardly

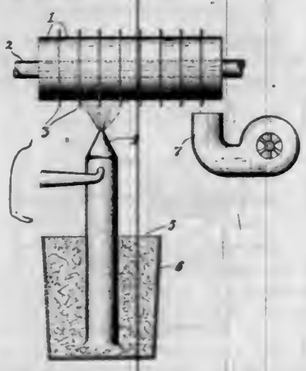
by the suction created by the engine to expose some of the perforations in the tube, a coil spring in the tube and a pin in the open end of the tube and against which the spring holds the valve.

1,661,944. UNIVERSAL SETTING GAUGE. PETER M. HEINZ, Dubuque, Iowa. Filed Feb. 16, 1927. Serial No. 168,734. 6 Claims. (Cl. 33—165.)



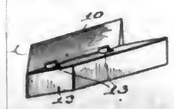
1. A gauge of the class described including a base block, an adjustable block screw threadedly connected to the base block and capable of limited axial movement relatively thereto, said adjustable block displaying scale marks on its upper face and a stationary finger carried by the base block cooperating with said scale marks, said finger limiting axial movement of the adjustable block in an upward direction.

1,661,945. DRY CELL. WILLIAM F. HENDRY, Ossining, N. Y., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 23, 1924. Serial No. 688,057. 2 Claims. (Cl. 136—175.)



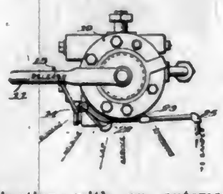
1. The method of making dry cells which consists in compacting the depolarizing mixture in tablets, applying to said tables a coating composed of granulated wood pulp, flour, zinc chlorid and water, drying the coating, pacing the coated tablets in a zinc container electrode, and passing a carbon electrode through said tablets.

1,661,946. BRICK. HARLEY A. W. HOWCOTT, New Orleans, La. Filed Jan. 16, 1926. Serial No. 81,778. 3 Claims. (Cl. 72—38.)



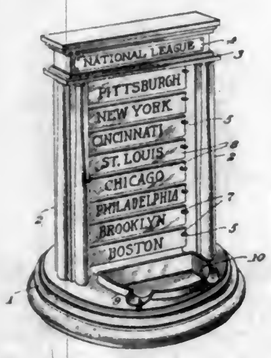
1. A brick comprising a body formed with top and bottom faces upwardly and outwardly inclined in parallel from a central line longitudinally thereof, providing a centering trough on one face and a centering ridge on the opposite face.

1,661,947. AIR BRAKE. WILLIAM R. HOWDON, Anniston, Ala. Filed Apr. 22, 1927. Serial No. 185,829. 10 Claims. (Cl. 303—56.)



2. In combination with an automatic brake valve of the character described, a valve adapted to cause sanding of rails previous to application of brakes by said automatic valve, said second mentioned valve being operable only after said automatic brake valve has been actuated from normally released position.

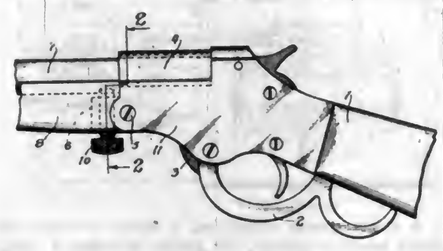
1,661,948. BASEBALL NOVELTY. LAWRENCE INNESS, Freehold, N. J. Filed May 9, 1927. Serial No. 190,064. 2 Claims. (Cl. 40—63.)



1. In a device for the purpose set forth, a base, spaced pillars arising therefrom, a cornice connecting the top of the pillars, equidistantly spaced offset hooks arranged in opposite pairs on the inner faces of the pillars, and said hooks designed for engagement through openings in the corners of data carrying plates.

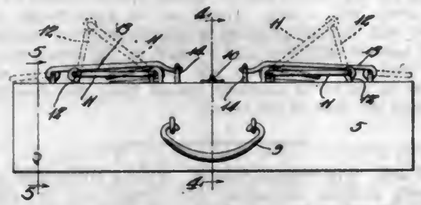
1,661,949. INTERCHANGEABLE RIFLE AND SHOT-GUN BARREL. LOUIS R. KRENEK, Lagrange, Tex. Filed May 18, 1926. Serial No. 108,918. 1 Claim. (Cl. 42—77.)

In a firearm of the type described, a gun stock, a pivotally mounted barrel section carried thereby, rifle and gun shot barrels interchangeably mounted in the barrel section, an extension on the forward end of the barrel section, each of the barrels having a recess in its lower side and a stud screw carried by the barrel section extension to enter the gun barrel recess to retain



the gun barrel in the barrel section, the barrel section, and rifle or gun shot barrel mounted therein being movable as a unit on the pivotal support for the barrel section.

1,661,950. ANIMAL TRAP. JOHN KRČ, Wallis, Tex. Filed May 26, 1927. Serial No. 194,396. 6 Claims. (Cl. 43—86.)



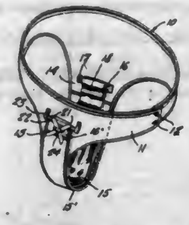
1. An animal trap comprising a tubular body, an obstruction attached to one side of the body and extending partly across the passage of the body intermediate the ends of the latter, a bait holder within the body and attached to the other side of the latter opposite said obstruction, choker-loop trapping mechanisms located at the opposite ends of the body, and laterally swinging trip catches for the respective trapping mechanisms pivoted to and extending through the top of the body at opposite sides of the obstruction.

1,661,951. GLOVE. GUSTAVE A. KURZ, Zanesville, Ohio. Filed Mar. 23, 1927. Serial No. 177,717. 4 Claims. (Cl. 2—167.)



1. In a hand covering a body of relatively non-stretchable material having stalls extending therefrom, the sides of the stalls being closed by fourchettes formed of knitted material having longitudinally extending ribs whereby the fourchettes may be stretched transversely.

1,661,952. SANITARY GARMENT. FLORENCE G. MARK, San Diego, Calif. Filed July 14, 1926. Serial No. 122,420. 1 Claim. (Cl. 128—289.)



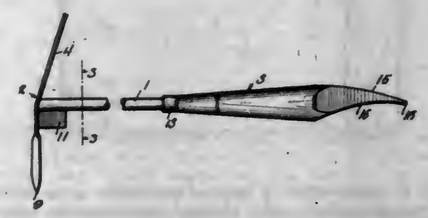
A sanitary napkin holder comprising a waist encircling band having front and rear tabs and a sling co-extensive with the rear tab, spaced horizontally aligned loops provided on said front tab, a front stay removably supported by said front loops a second set of loops provided on said front flap above the first said loops, a clamping stay loosely and removably supported by said second set of loops, flexible elements fixedly connected to said front stays and adapted to pass over said clamping stay for securing the free end of said sling and one end of a sanitary napkin therebetween upon the securing of the free ends of said flexible elements together and means for securing the opposite end of the napkin to the rear tab.

1,661,953. INDUCTIVE REACTOR. JAMES MCINTOSH, Norristown, Pa., assignor to Diamond State Fibre Company, Bridgeport, Pa., a Corporation of Delaware. Filed June 13, 1925. Serial No. 36,057. 2 Claims. (Cl. 175—359.)



1. An inductive reactor comprising a hollow cylindrical form of glass, a coil of wire embedded in said form with its ends projecting therefrom, a second form of glass adapted to fit within the first-mentioned form, and a coil of wire embedded in said second form and having its extremities projecting therefrom.

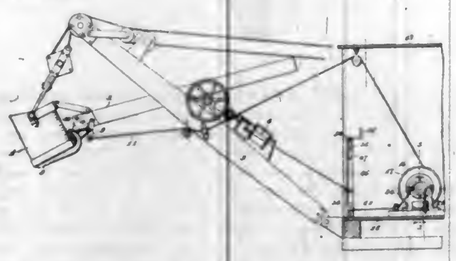
1,661,954. GARDEN TOOL. THEODORE R. MICHAELIS, Marinette, Wis. Filed Feb. 15, 1927. Serial No. 168,430. 1 Claim. (Cl. 97—66.)



A ground working instrument comprising an oblong head portion, a series of tines integral with the outer side thereof, a rectangular blade of a width coextensive with the length of said head portion, said blade having its inner end formed integral with the inner side of the head portion and extending rearwardly at an outward

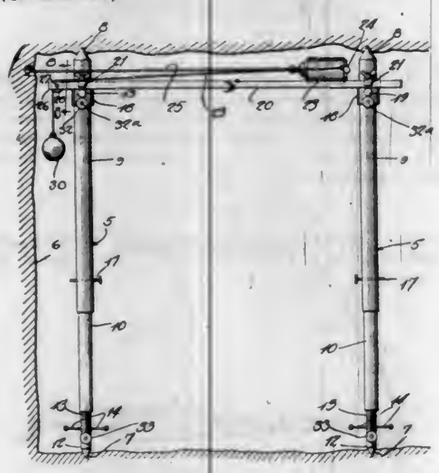
inclination with respect to said head portion, an oblong blade integral with one end of said head portion and of a width substantially the same as such end, said oblong blade extending rearwardly from said head and at an outward inclination, and a handle secured at the juncture of the rectangular blade and head portion.

1,661,955. SEMIAUTOMATIC TRIP FOR POWER SHOVELS. GEORGE G. MOBIN, Holyoke, Mass. Filed Apr. 7, 1926. Serial No. 100,410. 6 Claims. (Cl. 214—146.)



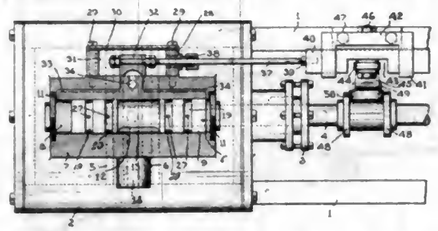
1. In a semi-automatic trip for power shovels a trip cable, a drum for said trip cable, a friction disk connected with said drum, a constantly rotating power member, spring means for normally holding said friction disk out of contact with said power member, manually actuated means for pressing said friction disk against said power member whereby said drum will be rotated and automatically actuated means for reversing the action of said manually actuated means when said manually actuated means have been released.

1,661,956. DRILL SUPPORT. JOHN NAGY, Jessup, Pa. Filed Sept. 30, 1927. Serial No. 222,955. 2 Claims. (Cl. 255—51.)



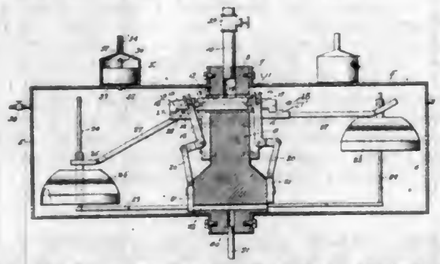
1. In combination, a pair of extensible props having lateral supporting arms adjacent corresponding ends, a drill supporting and guiding platform, means to secure the platform upon either of the corresponding sides of said arms, whereby the drill may be selectively supported adjacent the roof or adjacent the floor of a mine upon inverting the props, and weight operated means for moving the drill on the platform when the drill is supported in either position.

1,661,957. STEAM ENGINE. FRED J. POWELL, Jerome, Ariz. Filed Aug. 13, 1924. Serial No. 731,811. 3 Claims. (Cl. 121—157.)



1. A steam engine comprising a steam cylinder with a piston operable therein, the piston including a piston rod, a steam chamber, a balance valve controlling communication between the steam chamber and the steam cylinder, a casing for the balance valve and having ports of communication with the steam chamber and the steam cylinder, a slide valve in the steam chamber for controlling the steam passing through the ports of communication with the balance valve casing, the balance valve acting to control the steam passing through the ports communicating with the steam cylinder, a rod carried by the slide valve, a slide carried by the slide valve rod with a substantial elongated recess on one side, a guide frame for the slide, a pair of spaced annular shoulders on the piston rod, a lever pivoted on the guide frame, the lower end thereof carrying a wheel operating between said annular shoulders, and a wheel on the upper end of the lever, and a diameter less than the length of said recess so as to be normally spaced from the shoulders defining the ends of the recess.

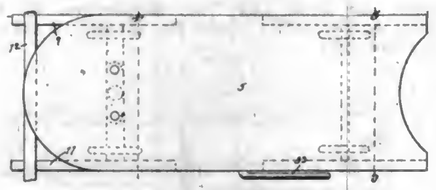
1,661,958. AIR COMPRESSOR. CALVIN OVERDORFF and JOHN JUHASZ, Johnstown, Pa. Filed Feb. 17, 1927. Serial No. 169,096. 3 Claims. (Cl. 230—90.)



1. An air compressor including twin chambers provided with air inlet and outlet openings and equipped with an interposed partition provided with a water inlet opening at the top and a water outlet opening in the bottom, a pressure operated valve slidably mounted in the partition to close communication through the inlet opening and provided with a pair of ducts singly alignable with the inlet opening to establish communication between the latter and one of the chambers, mechanism mounted on each side of the partition and engaged with the opposite ends of the valve including valves alternately slidable across the outlet opening in response to the movement of the first-mentioned valve when a predetermined water level is reached in each chamber.

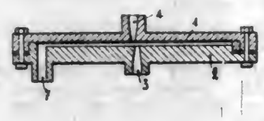
1,661,959. TOY. EARL REEK, Oakland, Calif. Filed Mar. 13, 1926. Serial No. 94,529. 1 Claim. (Cl. 188—5.)

In a toy of the character described, a board, a pair of front runners pivotally secured below said board, a pair of wheels positioned between said runners, a pair of rear runners rigidly secured to said board, a yoke pivotally mounted between said rear runners, an axle secured to said yoke, wheels positioned on said axle, a link connected to said axle and extending forwardly therefrom, a lever pivoted beneath said board, a crank formed on



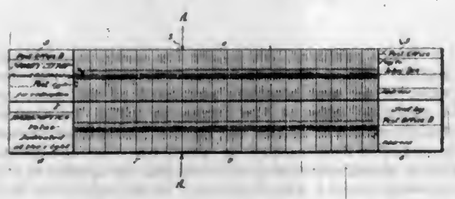
said lever, the end of said crank being engaged by the end of said link in such a manner as to have its end bear against said board and at a point above the pivotal point of said lever.

1,661,960. INJECTOR OR ASPIRATOR. HENRI VICTOR RIEHL, Versailles, France. Filed Apr. 4, 1927, Serial No. 180,984, and in France Apr. 12, 1926. 3 Claims. (Cl. 230—95.)



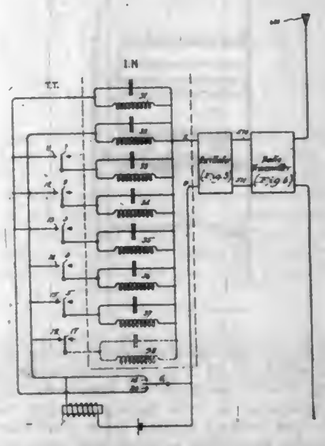
1. An apparatus for entraining and compressing gaseous or liquid fluids, which essentially comprises two walls with parallel surfaces, which are close together and are both pierced with an orifice, the projection of either orifice upon the opposite wall being tangent to the periphery of the other orifice, one of the said orifices serving for the motive fluid and the other for the suction.

1,661,961. CHECK. ALBA B. ROBINSON, Herkimer, N. Y. Filed Aug. 28, 1922. Serial No. 584,862. 1 Claim. (Cl. 283—59.)



A check having on its face a central dividing line and a stub at each end thereof, the stub at the upper left hand corner of the check having imprinted thereon appropriate indicia designating a post office issuing the check and instructions with respect to its redemption at a second post office, the lower left hand corner having imprinted thereon "Redemption value indicated at the right," the upper right hand corner having imprinted thereon the post office at which the check is to be cashed and instructions as to wom it is payable and having at its lower corner appropriately designated space for the name and address of the sender, the body of the check being divided by transverse lines into one hundred blocks, said check having a central longitudinal line which divides the blocks into an upper and a lower series, said upper and lower series of blocks having imprinted therein the consecutive designations therefor from .01 to $1.00 and the said designations being reversely arranged with respect to the upper and lower series of blocks.

1,661,962. SIGNALING SYSTEM. NILS A. ROBINSON, New York, N. Y. Filed Mar. 14, 1927. Serial No. 175,313. 9 Claims. (Cl. 178—51.)



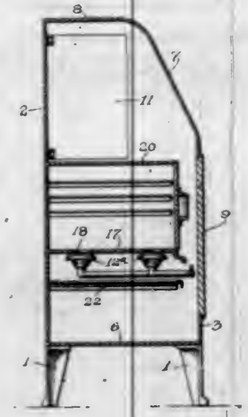
1. In a signaling system for transmitting characters in accordance with a prearranged code, means for recording the characters in succession in codified form, a timing device comprising an interrupter, a circuit including said timing device and a plurality of impedances constituting a network of variable impedance for generating alternating current impulses, the frequency of each impulse varying with each variation in impedance of the network and the duration of each impulse being measured by the timing device, the variations in impedance of the network being in turn controlled by the record code, and a channel into which the impulses are directed.

1,661,963. BRAKE SYSTEM FOR VEHICLES. FREDERICK HENRY ROYCE, West Wittering, near Chichester, England, assignor to Rolls-Royce Limited, Nightingale Road, Derby, England. Filed Feb. 5, 1926, Serial No. 86,159½, and in Great Britain Feb. 5, 1925. 5 Claims. (Cl. 188—204.)



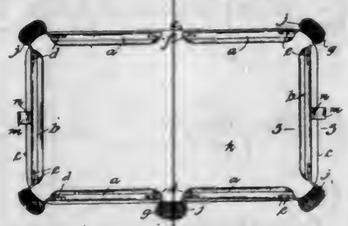
1. In a four wheel brake system, the combination with a frame having wheels journaled thereto at opposite ends thereof, and brakes controlling the rotation of said wheels, of a brake rod pivoted to said frame, a link having one end thereof pivoted to said frame, means for varying the friction between said link and said frame, a lever pivoted intermediate its ends to the free end of said link, an arm extending rigidly from said lever, means operably connecting the opposite ends of said lever to the brakes at opposite ends of said frame, and means connecting said rod to the free end of said arm to control the application of the brakes to all of said wheels.

1,661,964. GAS-RANGE CLOSURE CASING. MARY RUDIC, Philadelphia, Pa. Filed Nov. 12, 1926. Serial No. 147,994. 2 Claims. (Cl. 126—37.)



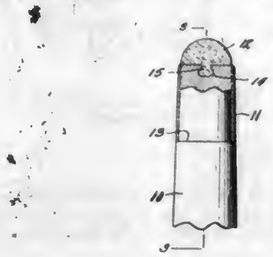
1. A gas range comprising a metallic casing of rectangular form, composed of front and rear walls, and top and bottom plates, mounted on standards above the floor and containing an oven having an open front and hinged door, gas burners located below said oven and a drip pan located below said burners, said casing enclosing all the essential elements of a gas range and forming a gas tight shield therefor, having an outlet for vapor, the rear wall forming the back wall of the oven, and the support for the drip pan, said casing extending above the oven and providing capacious warming spaces above and below the oven and drip pan, said casing having a door in front and an opening in the front wall closed by said door, said compartment being also formed with a door closed opening for access to the space above the oven.

1,661,965. CONVERTIBLE DINING AND BILLIARD TABLE. THOMAS WILLIAM RUSE and ERNEST ARTHUR COX, Perth, Western Australia, Australia, assignors of one-third to Robert Glenn, Mount Hawthorn, near Perth, Australia. Filed Dec. 15, 1926, Serial No. 154,939, and in Australia Sept. 20, 1926. 2 Claims. (Cl. 273—5.)



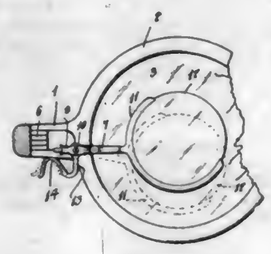
1. A frame for convertible billiard tables comprising two sectional side rails and two end rails, each carrying its respective resilient cushion, the upper face of each rail being provided adjacent each of its ends with two dowel-receiving openings, a plurality of pocket-forming and section and rail connectors, each comprising a net receiving bow having its ends bent into alignment to rest upon the upper surfaces of a pair of adjacent rails and having apertures in said ends to align with the dowel receiving openings of said rails, and removable dowels for insertion in the apertures of the terminals and the openings of the rails to secure said bows and rails together.

1,661,966. BILLIARD-CUE TIP. JOSEPH AUGUST RUZISKA and DAVIS LEE TAPP, Morgantown, W. Va. Filed Apr. 28, 1927. Serial No. 187,357. 3 Claims. (Cl. 273—70.)



1. A billiard cue, a tip therefor, the tip and cue being formed, one with a dove-tailed rib and the other with a dove-tailed slot into which the rib fits, and a collar fitting over the end of the cue and extending across the interlocking slot and rib.

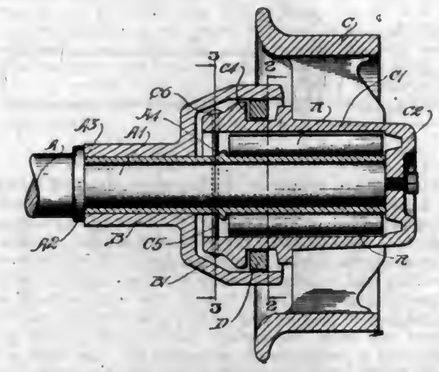
1,661,967. AUXILIARY LENS ATTACHMENT FOR SPECTACLES. JOSEPH SAVOIE, Central Falls, R. I. Filed Feb. 9, 1926. Serial No. 87,048. 3 Claims. (Cl. 88—41.)



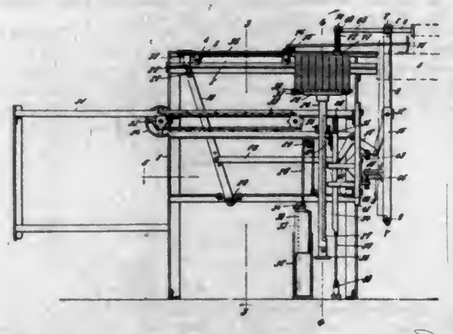
1. In an auxiliary lens holder for spectacles, the combination with a spectacle frame carrying conventional lenses, of an arm pivotally supported at its outer end on an outer side of the frame to swing in a plane parallel with and across one of the conventional lenses, an auxiliary lens carried by the inner free end of the arm, a spring associated with the arm for urging it into frictional contact with the frame at its pivot and holding the same in adjusted positions, and an operating member carried by the outer end of the arm and having a part movable into engagement with the spectacle frame for limiting downward swinging movement of the arm and the auxiliary lens carried thereby, said operating member being bendable relative to the arm to vary the limit of downward movement of the arm and the auxiliary lens carried thereby.

1,661,968. JOURNAL BOX AND AXLE. HUGH W. SANFORD, Knoxville, Tenn. Filed Feb. 16, 1924. Serial No. 693,273. 6 Claims. (Cl. 308—180.)

1. The combination of a journal, a hub having a fixed outer end wall extending across the outer ends of the below-mentioned rollers, a sleeve surrounding the journal within the hub, means independent of the sleeve for holding the hub on the journal, rollers between the sleeve and the hub, and means at the inner end of the hub for making engagement between the hub and the sleeve for the removal of the sleeve from the journal with the hub, substantially as described.



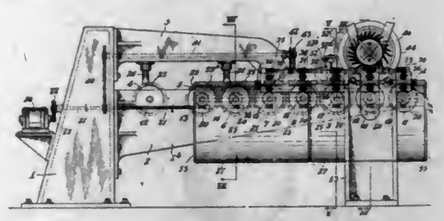
1,661,969. TILE-RECEIVING MACHINE. JOHN J. SEMASHKO, Morrisville, Pa. Filed Aug. 18, 1926. Serial No. 130,088. 2 Claims. (Cl. 214—6.)



1. A machine for the purpose set forth comprising an elevator, a weight for influencing the elevator in an upward direction, a cylinder in which the weight is guided, a valve controlled air port in the weight, a tile receiving tray on the elevator, a carriage movable over the elevator, a guide for the carriage, designed to wipe tile off of said carriage onto the tray, means for imparting a reciprocatory movement to the carriage, means for lowering the elevator a predetermined distance when the carriage is moved to discharge position, and means including an endless conveyor for removing the tray from the carriage when the elevator has been lowered a predetermined distance.

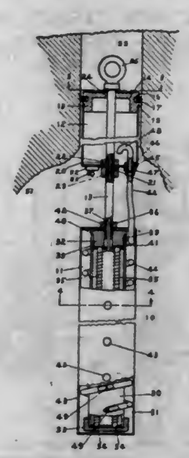
1,661,970. ELECTRIC WELDING MACHINE. FRANK L. SESSIONS, Lakewood, Ohio. Filed Jan. 13, 1923. Serial No. 612,436. 33 Claims. (Cl. 219—6.)

1. In apparatus for welding the contacting surfaces of a longitudinal, open seam in a metal shell, a freely suspended detachable yielding clamp adapted to encompass the shell, said clamp being shorter in length than the circumference of said shell to provide a space between the ends of the clamp, said clamp provided with stiffening flanges substantially the width of the clamp and being adapted to co-act with lateral-pressure devices for causing said clamp to exert circumferential pressure upon the encompassed shell.



30. In apparatus of the class described, a non-attached yielding clamp adapted to encompass a metal shell, a seam-welding device, means for supporting and progressively traversing a metal shell encompassed by said clamp through the welding zone of said seam-welding device, and means adapted to engage said clamp and exert pressure thereon to cause said clamp to circumferentially compress said shell and press the seam surfaces thereof together.

1,661,971. STEAMER FOR OIL WELLS. BURTON W. SEYMOUR, Sr., Jamestown, N. Y. Filed Dec. 3, 1926. Serial No. 152,481. 8 Claims. (Cl. 219—33.)

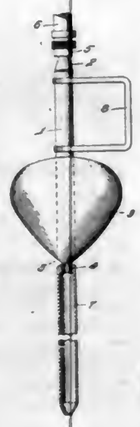


1. A steamer for oil wells and the like, comprising a tank, a cover plate therefor having openings therein, a heating unit, a rod connecting said tank and unit, a coil in said unit having holes therein, and connected to said tak, a source of heat in said unit, an expansion ring on said tank which contacts with the wall of said well and seals the same, whereby water poured into the well will enter said tank through said openings, pass into said coil in said heating unit, and escaping therefrom through said holes, be transformed into steam by said source of heat.

1,661,972. OIL DRAINER AND CLEANER. ELIAS A. SHADID, Mangum, Okla. Filed Oct. 11, 1926. Serial No. 141,014. 1 Claim. (Cl. 137—70.)

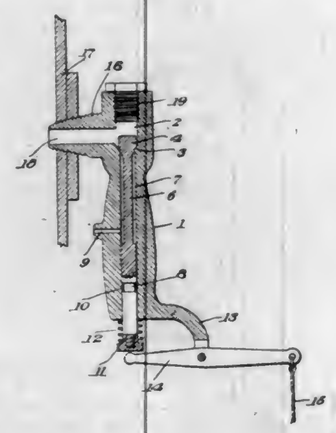
A device of the class described comprising a tube having constricted ends, one extremity of which is externally screw threaded so that an extension nozzle can be attached thereto and the other end being adapted to receive a chuck of an air hose, a U-shaped handle connected

with the upper portion of the tube and a resilient member surrounding the lower portion of the tube but leaving the threaded extremity exposed, the lower portion of



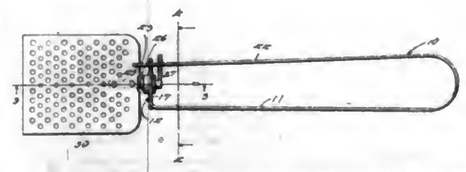
said member being of conical shape so that it will fit in inlets or hollow members of various sizes to close the same.

1,661,973. GAUGE COCK. JOHN C. SHAFFER, Tulsa, and LYNN S. MANKIN, Duncan, Okla. Filed Mar. 6, 1926. Serial No. 92,809. 1 Claim. (Cl. 251—134.)



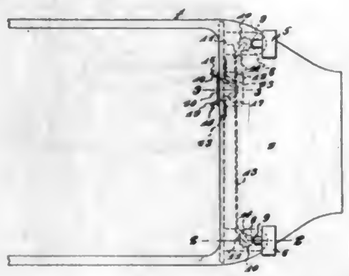
A gauge cock, comprising a body having a rounded bore extending longitudinally therethrough, a valve seat therein and having angle ports communicating with its bore the outer port being surrounded by an offset threaded portion, a valve to engage the seat and having a stem snugly fitting the wall of the bore and extending therethrough, an adjustable head on the outer end of the stem, a spring surrounding the stem and exerting a tension between the head and the outer end of the body, said stem, from the valve end thereof, having spaced longitudinally extending grooves, and having a circumferential depression with which the grooves communicate and which is disposed opposite the port in the body, said stem having a second circumferential depression and a packing ring arranged therein and in contact with the bore of the body, and a plug closing the bore in one end of the body

1,661,974. CULINARY UTENSIL. GEORGE J. SIMON, St. Louis, Mo. Filed Mar. 19, 1927. Serial No. 176,802. 3 Claims. (Cl. 294—8.)



1. A culinary utensil of the character described including a handle comprising a substantially U-shaped resilient element, one of the arms of the handle being shorter than the other and being provided with a head extending transversely of the U, said head having a transversely extending slot, an arm depending from the head, a bearing supported from the lower end of the arm, a shaft rotatable in said bearing and having a blade upon one end thereof and upon the opposite end thereof an arm provided with a longitudinally extending slot, the other arm of the handle being extended through the slot of the head and having a depending arm the lower end of which is engaged in the slot of the arm of the shaft, the last named arm of the blade by its inherent resiliency being normally disposed at the end of the slot remote from the first named arm of the handle, said blade, when the last named arm of the handle is in normal position, being disposed in a plane substantially paralleling the handle.

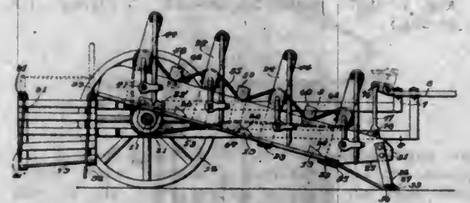
1,661,975. COWL LIGHT FOR AUTOMOBILES. CARL A. SMITH, Defiance, Ohio. Filed June 30, 1924. Serial No. 723,294. 1 Claim. (Cl. 240—61.)



Headlights for motor vehicles including vertical shafts mounted for horizontal rotation, means for rotating the shafts, said rotating means including rods, the free ends of the rods being disposed adjacent to each other, pivoted levers connected with the rods, and movable in horizontal planes, said levers adapted to be operated simultaneously or independently to operate the rods, a plate having a slot through which the levers extend, teeth formed in the plate and against which the levers move, spring members connected with the levers and plates for holding the levers into engagement with the teeth.

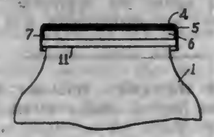
1,661,976. HARVESTING MACHINE. JAMES N. STOVALL, Gorman, Tex., assignor of one-fourth to I. C. Underwood and one-fourth to C. E. Herrington, Gorman, Tex. Filed Feb. 21, 1927. Serial No. 169,968. 5 Claims. (Cl. 55—53.)

1. A peanut harvester comprising a combined vine elevating and sifter element normally inclining upwardly from front to rear, a vine digger means arranged between and depending from the forward ends of said element, revoluble conveyor reels supported from the sides of and operating within said element, and including reciprocatory conveyor bars bodily traveling in an arcuate path and pivoted guides for the bars, a portable body portion including supporting wheels and shiftably supporting said element from the rear of the latter, operating means for said reels driven from one of said supporting wheels, a combined vine collector and dumper supported from the body portion below the rear end of said element, said element including a slotted bottom, and sets of spaced vine retarders projecting upwardly from said bottom, the retarders of said sets arranged between said bars.



2. In a peanut harvester a combined collector and dumping element, said element being of skeleton form and including a pair of side walls, a bottom connected thereto, a rear wall hinged to the side walls and a forward wall hinged to the side walls, said element open at its top for the reception of the vines and said hinged rear wall providing a closure gate and said hinged forward wall providing an ejector for the vines collected, and means common to said hinged walls for synchronously shifting them in one direction to provide for the dumping of the collected vines.

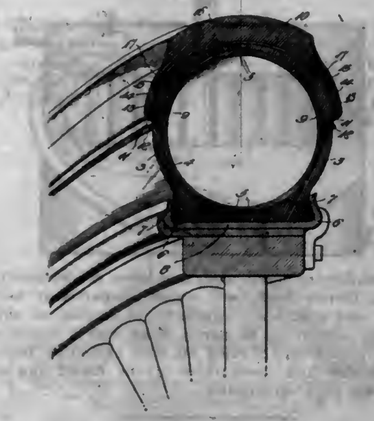
1,661,977. METHOD OF SEALING JARS AND THE LIKE CONTAINERS AND IMPROVED SEALING CAPSULE THEREFOR. JOHN WILLIAM SUTCLIFFE, London, England. Filed Nov. 23, 1925, Serial No. 70,916, and in Great Britain Nov. 29, 1924. 5 Claims. (Cl. 215—95.)



1. A closure for containers comprising an elastic sealing element for the neck of the container, a metal ring embracing said neck, a flange on said ring bearing on the sealing element, and a lower rim on said ring having an unbroken lower edge and weakened peripherally along and above said edge.

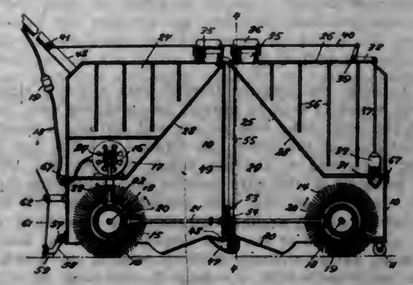
1,661,978. ARMORED PNEUMATIC TIRE. RAYMOND J. TALBOTT, Tulsa, Okla. Filed Sept. 16, 1926. Serial No. 135,903. 1 Claim. (Cl. 152—10.)

A pneumatic tire comprising two duplicate side walls of flexible material transversely curved to jointly form a tube chamber of substantially circular cross section, said walls having feather edges which overlap at both the rim side and the tread side of the tire, said walls being provided with beads at the rim side of the tire for engagement with the flanges of the usual rim and being provided also with external beads between the tread side and rim side of the tire, a transversely curved tread-carrying band around the tread portion of the tire having its edge curved first inwardly and then outwardly to provide rounded hooks, said hooks tenaciously engaging the last named beads but being removable therefrom when the tire is deflated, and a pair of outwardly flaring flanges joined to the outer sides of said band in outwardly spaced relation to said hooks, whereby upon outward springing of the hooked edges of the band said flanges are forced inwardly toward the adjacent body portion of the band and a renewable tread ring surrounding the remaining body portion of the band and having



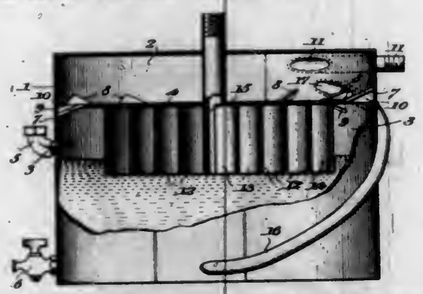
its edge portions disposed between the same and said flanges to be tightly gripped when the flanges move inwardly upon the inflation of the tire.

1,661,979. ELECTRICAL SCRUBBING AND DRYING MACHINE. ALEXANDER UGOLINI, Youngstown, Ohio. Filed Aug. 20, 1924. Serial No. 733,167. 1 Claim. (Cl. 15—50.)



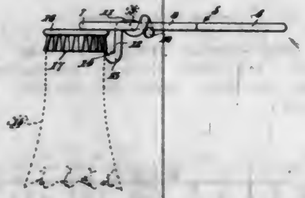
In a scrubbing machine, a wheel supported housing having side walls provided with oppositely located upstanding inverted V-shaped portions spaced from the ends of the housing, waste and fresh water tanks removably mounted upon the housing and having their bottoms and opposed walls shaped to conform to the shape of the side walls of the housing, means connecting the V-shaped portions of the side walls of the housing and the side walls of the tanks to hold the latter in place, a splash partition disposed transversely of the housing and extending downwardly from the apex of the V-shaped portions and dividing the housing into collecting chambers having downwardly and oppositely extending inclined bottoms open at their remote ends, scrubbing and gathering brushes mounted in the open remote portions of the collecting chambers adjacent the lower ends of the inclined bottoms, means to operate the brushes, means for supplying water from the fresh water chamber to the scrubbing brush, a receiving chamber beneath the adjacent ends of the collecting chambers, means adjacent the splash partition to collect and direct the collected water into the receiving chamber and means opratively connected with an element of the brush operating means to lift the water from the receiving chamber and deliver it to the waste water tank.

1,661,980. WHIRLPOOL MUFFLER. ALBERT P. J. VOIGT, Galveston, Tex. Filed Apr. 11, 1925. Serial No. 22,309. 8 Claims. (Cl. 261—79.)



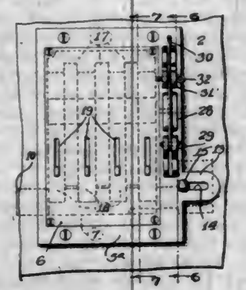
1. A muffler including upper and lower compartments, a partition therebetween, said upper compartment having an inlet and said lower compartment having an outlet, and being adapted to be partly filled with a liquid, and a spiral passageway formed on, and extending between said partition and the surface of the liquid and communicating with said outlet.

1,661,981. BOTTLE-CAP REMOVER. WACLAW WASKEWICZ, Ludlow, Vt. Filed Feb. 9, 1926. Serial No. 87,069. 2 Claims. (Cl. 65—46.)



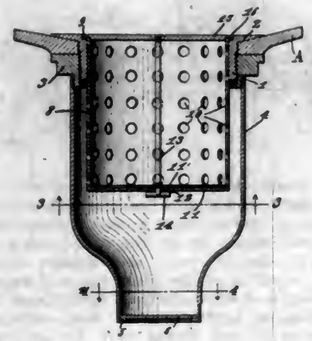
1. A bottle cap remover formed from a single strand of wire which is bent to provide an elongated body having a relatively long loop at one end forming a handle, a short loop at the other end forming a bottle cap engaging heel, and a straight shank between the loops with portions of the wire parallel and contacting each other; the end of the wire extending from the heel loop being twisted around the shank to strengthen the same, and the end of the wire extending from the handle loop being passed through the loop forming the heel and depending from within the loop in the form of a leg and a hook-shaped bottle flange engaging foot at the end of the leg.

1,661,982. GARAGE OR BARN DOOR LOCK. WALENTY WANAT, South Milwaukee, Wis. Filed Apr. 21, 1927. Serial No. 185,571. 6 Claims. (Cl. 70—76.)



1. In a door lock of the type described, a lock casing set into a door, a sliding lock bolt in the casing, operating means for the bolt at the inner and outer sides of the door, sliding tumbler bars cooperating with the bolt, a handle for each tumbler bar exposed at the inner side of the door, the tumbler bars being operable by a key at the outer side of the door, said casing having an opening for the key and means operable from the inner side of the door to control the entrance to said opening.

1,661,983. REFUSE COLLECTOR. RALPH E. WENTZEL and JOHN T. GRIFFITH, Wilkes-Barre, Pa. Filed Aug. 1, 1927. Serial No. 209,937. 3 Claims. (Cl. 4—291.)



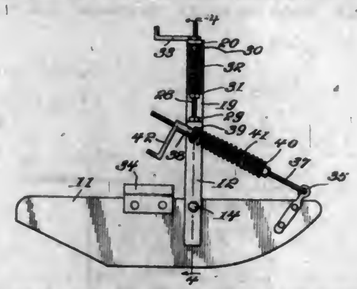
1. A device of the character described comprising a casing adapted to be associated with a plumbing fixture such as a sink and disposed below the drain opening thereof, a perforated receptacle arranged through the sink opening and supported in the casing, a spider including a rim arranged over said casing, means normally lying in the bottom of said receptacle to remove the contents thereof, said means being removable by said spider, and means for detachably securing said spider in operative association with said receptacle.

1,661,984. TIRE HEATER. WILLIAM WILEY, Galveston, Tex. Filed Nov. 4, 1925. Serial No. 66,873. 1 Claim. (Cl. 263—5.)



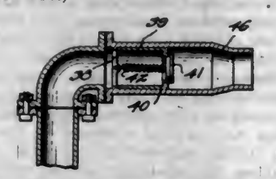
A tire heating apparatus comprising an annular brick wall provided with a hingedly mounted cover adapted to form with the brick wall a heating chamber for tires, said wall being provided with spaced radial passages, a concrete liner formed on the bottom and inner wall of the chamber, a metal ring located on the top of the back wall and having a depending annular flange embracing the outer face of the wall and an annular depending flange embracing the inner face of the wall, the depending flanges and the liners being provided with slots aligned with the radial passages of the wall, vertically disposed metal flanges depending from the ring and secured to the annular flanges and spaced from each other in the radial passages, and a burner disposed in each passage and projecting through the spaced vertical flanges, said burner terminating short of the inner end of the passages, and a flue connected with the cover.

1,661,985. CUTIVATOR ATTACHMENT. CARL WILSON, Chillicothe, Ohio. Filed Nov. 3, 1926. Serial No. 146,020. 3 Claims. (Cl. 97—188.)



1. A plant protector for cultivators comprising companion shields, adapted to be arranged at the opposite sides of the plant row, a standard for each shield adapted to clamp to the adjacent cultivator beam, a substantially U-shaped bracket pivotally supporting each shield and yieldably mounted for sliding movement on said standard, and means for adjusting each shield pivotally with relation to the ground, and yieldably supporting the shield for pivotal movement.

1,661,986. PUMP. AARON E. YETTER, Knoxville, Iowa. Filed July 21, 1926. Serial No. 124,020. 3 Claims. (Cl. 103—100.)



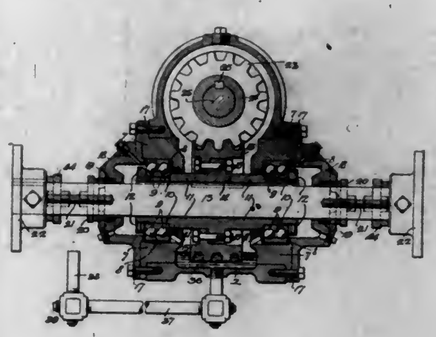
1. A centrifugal pump including a well pipe having its lower portion arranged in a body of fluid and an inwardly opening valve at the bottom of said pipe, a tubular shaft arranged above and in a line with the well pipe, packing between the shaft and pipe, antifrictional bearings supporting the tubular shaft and holding the same from longitudinal movement, a nozzle arranged at an angle on the outer end of the tubular shaft, means for revolving the shaft, a tubular piston in the nozzle, an outwardly movable valve for the piston, a spring fixed at one end of the nozzle connected with the valve and urging the valve in a direction to close the tubular piston and to urge the piston toward the axes of the shaft, and means limiting the sliding movement of the piston in the nozzle.

1,661,987. TABLE PAD. LOUIS M. ARNOPOL, Chicago, Ill. Filed Nov. 21, 1925. Serial No. 70,454. 8 Claims. (Cl. 45—68.4.)



1. In a table pad, pliable in its entirety, the combination of a quilted body portion, a rubberized sheet on one side of said body portion and a plastic mixture of rubber and asbestos vulcanized between and with said rubberized sheet and said quilted body portion.

1,661,988. SPIRAL-GEAR BOX. ELWOOD B. AYRES, Melrose Park, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1925. Serial No. 62,563. 2 Claims. (Cl. 74—36.)



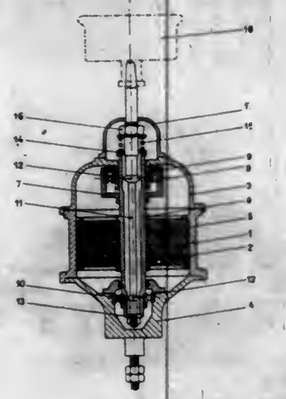
1. The combination in a spiral gear-box, of a casing having two through openings, one at right angles to the other and on different planes; flanged bearing-boxes closing the ends of the openings; ball-bearings in the boxes; two hubs, one hub being located in one through opening and the other hub in the other through opening, each hub extending through the ball-bearings and forming a support for the inner races for said bearings; a cap plate beyond the bearing-boxes and having packing; a shaft extending through each hub and through the packing in the cap plates, said shafts being keyed to the hubs; and bolts securing the cap plates and the flanged bearing-boxes to the casing.

1,661,989. SADDLE HORN. JOSEPH P. BALDWIN, Kingsville, Tex., assignor to The Kingsville Lumber Company, Kingsville, Tex. Filed June 9, 1927. Serial No. 197,600. 2 Claims. (Cl. 54—44.)



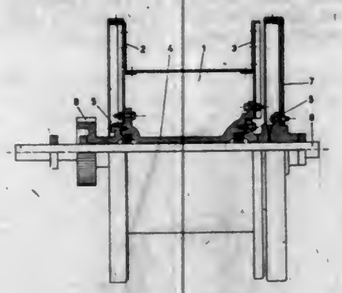
1. In combination, the swell of a saddle-tree, and a horn having a base seated on and secured to the swell and provided with a hook embracing the front edge of the swell.

1,661,990. DRIVING MECHANISM FOR WINDERS FOR ARTIFICIAL SILK. HENRI BÉNIT, Paris, France. Filed July 19, 1924, Serial No. 123,532, and in Germany Feb. 1, 1926. 1 Claim. (Cl. 308—140.)



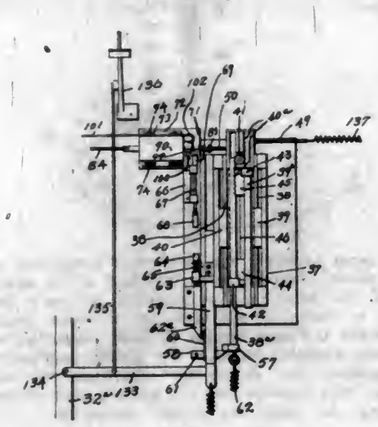
A driving system of the character described comprising an outer and an inner shaft, means for driving said outer shaft, collars formed on said inner shaft and engaging the outer shaft, said inner shaft being reduced in diameter and rendered flexible between said collars whereby the inner shaft is centered automatically at high speed, a housing enclosing the said shafts, and ball bearings between the said outer shaft and housing and disposed in the axes of said collars.

1,661,991. REEL FOR CABLES. HENRI BÉNIT, Paris, France. Filed Apr. 14, 1927, Serial No. 183,803, and in Germany May 3, 1926. 1 Claim. (Cl. 242—94.)



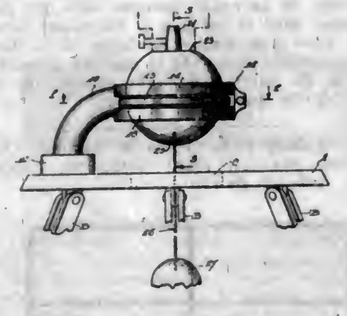
A reel for supporting wires and cables and also for use in the manufacture of such articles as well as for transporting them, having a free wheel independent of the drum which permits of the reel being rotated on this wheel and on the opposite flange of the drum in such manner that said wheel and said flange may rotate at different speeds without slipping.

1,661,992. AUTOMATIC PRESELECTOR AND SHIFTING DEVICE FOR SLIDING GEAR TRANSMISSIONS. JASPER BLACKBURN, Webster Groves, Mo. Filed Sept. 14, 1925. Serial No. 56,252. 14 Claims. (Cl. 74—58.)



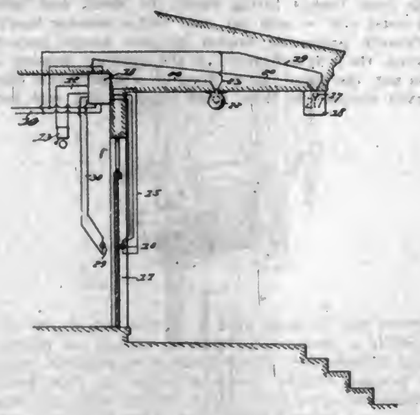
1. An automatic preselector and shifting device for sliding gear transmissions comprising a pair of rotatable and longitudinally sliding preselecting and shifting elements, means for moving said preselecting and shifting elements toward each other simultaneously, means for moving said elements away from each other simultaneously, means for automatically rotating said elements in one direction, hand or foot operated means for rotating said preselecting and shifting elements in the opposite direction, and means included in the last mentioned means for limiting the movement of the automatic rotating means whereby a preselection is automatically made.

1,661,993. LEVELING DEVICE. CARLOS JARAMILLO BORDA, Bogota, Colombia. Filed Dec. 4, 1926. Serial No. 152,640. 3 Claims. (Cl. 248—47.)



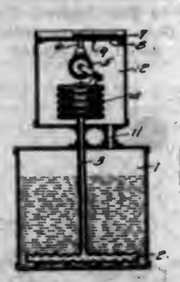
2. A self-leveling device of the character set forth including a weighted spherical supporting element, and a mounting therefor including a member carrying an annulus and upper and lower split ring members within which the spherical supporting element is mounted, the upper and lower split ring members being normally radially expanded to permit of free universal movement of the weighted spherical supporting element and including means for radially contracting the same to lock the element after the leveling operation.

1,661,994. AUTOMATIC PORCH LIGHT. GEORGE H. BROWN, Nevada, Mo. Filed Oct. 22, 1921. Serial No. 509,563. 1 Claim. (Cl. 177—311.)



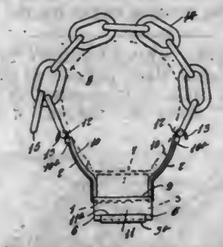
A house service door alarm system having in combination an outside push button switch, an inside alarm device in circuit with said push button switch, an outside house identifying light unit, a door illuminating light unit, a source of electrical supply with which said push button switch and alarm device are in circuit, a switch for selectively and alternately connecting the house identifying light unit and the door illuminating light unit in circuit with said supply, said selective switch being operable in one direction by the push button switch, and a second interior push button switch for actuating said selective switch in the opposite direction.

1,661,995. GAUGE FOR LIQUIDS. KIRK BROWN, Montclair, N. J. Filed Oct. 28, 1924. Serial No. 746,275. 8 Claims. (Cl. 73—54.)



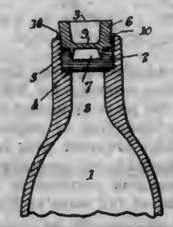
1. In a liquid gauge, a closed gas-containing member comprising a compressible chamber adapted to be positioned in the body to be measured and responsive to variations in the pressure thereof, an expansible chamber adapted to be positioned exterior to said body, and a connection between said two chambers, in combination with a movable pointer, means operable by said expansible chamber to actuate said pointer, a scale co-operating with said pointer and remaining in fixed position while the pointer travels between limits indicating the minimum and maximum of the liquid to be measured, and means intermediate the pointer and scale whereby the scale is repositioned when the pointer reaches either of said limits and continues its movement due to change in temperature.

1,661,996. TRACTION DEVICE. WILLIAM S. CALLERY, Dixon, Calif. Filed Feb. 9, 1926. Serial No. 87,101. 4 Claims. (Cl. 152—14.)



1. In a traction device, a traction chain holder formed of a single blank of material, side and end extensions on the blank, a fabric lining having interlocking engagement with the end of said extensions and means to detachably connect a traction chain to the ends of the side extensions.

1,661,997. CAPSULE OR CONTAINER FOR GASES OR LIQUIDS UNDER PRESSURE. ROBERT HUNTER CAMPBELL, London, England. Filed Jan. 15, 1926, Serial No. 81,511, and in Great Britain Nov. 4, 1925. 1 Claim. (Cl. 220—24.)

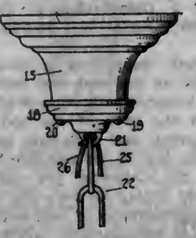


For use with a container designed to confine fluids under pressure having an internally threaded neck with a shoulder projecting inwardly at the base of the threading, a one-piece closing element made wholly of soft metal adapted to spread outward under pressure and effect a tight closure with the threaded neck and lugs upon said closing element adapted to support the same on the open end of the container when the latter is being charged.

1,661,998. METHOD OF PREPARING DITHIAZYL DISULPHIDE. CLARENCE M. CARSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926. Serial No. 134,141. 3 Claims. (Cl. 260—16.)

1. A method of preparing disulphides of mercaptothiazoles that comprises treating the corresponding mercaptothiazole with sulphur chloride.

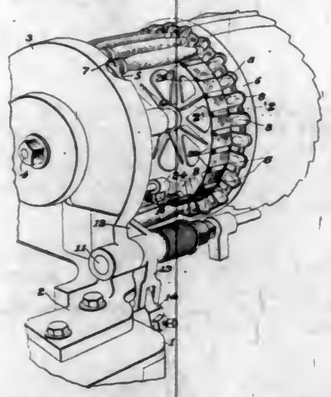
1,661,999. LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 12, 1925. Serial No. 8,682. 4 Claims. (Cl. 240—85.)



2. The combination with a lighting fixture of a junction box, a canopy secured thereto, a cap for said canopy,

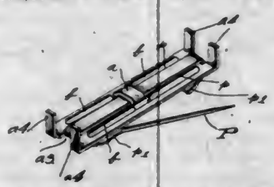
means to secure a chain to said cap, means to secure said cap to said canopy, and means integral with said canopy to engage one of the links of a chain, said means being independent of the securing means for the fixture.

1,662,000. FILLING REPLENISHING LOOM. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 2, 1927. Serial No. 188,245. 7 Claims. (Cl. 139—248.)



1. In a filling replenishing loom, the combination of a rotary hopper having supports for filling carriers, a pad which bears upon the mass of wound filling on the filling carriers to prevent sloughing or displacement of the filling, and pad supports provided with loop portions which loosely support the pad for movement relative thereto that the filling engaging portions of the pad may conform to the contour of the mass of filling engaged by it.

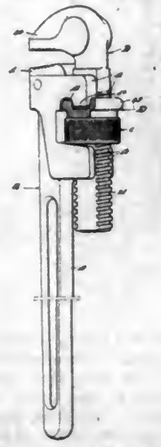
1,662,001. BADGE. CHARLES J. DIEGES, Brooklyn, N. Y., assignor to Dieges & Clust, New York, N. Y., a Corporation of New York. Filed July 7, 1927. Serial No. 204,036. 3 Claims. (Cl. 40—1.5.)



1. The badge described comprising a cross-bar formed with spaced-apart longitudinal ribs, penetrating teeth at the ends of said bar and slots in the cross bar between the teeth, and a safety pin disposed between said ribs and engaged in said slots.

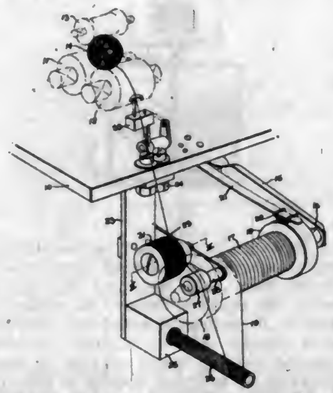
1,662,002. WRENCH. JOHN H. DOWD, Hartford, Conn., assignor to The Billings & Spencer Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 15, 1925. Serial No. 75,565. 1 Claim. (Cl. 81—104.)

A pipe wrench comprising a drop-forged body-part having a handle at one end and provided at its other end with two longitudinally spaced-apart pairs of arms projecting from the back of the body-part and alining transversely thereof, said body-part having a stationary outwardly facing jaw on its opposite end, a pivoted jaw spaced beyond the stationary jaw and provided with a shank detachably fitting between the arms of each pair and disposed longitudinally of said body-part and adapted for adjustment in substantially parallel relation thereto, said shank having flat lateral faces and screw-threads at its opposite edges, a nut disposed between said pairs of arms and in threaded engagement upon the shank for turning on the shank to move the latter longitudinally, said nut engaging the inner pair of arms to limit the inward movement of said shank, and a rocker member of ring form loosely fitting about the shank and against the outer side of said nut, said rocker member having a forwardly projecting beaded annular flange projecting beyond the circumference of the rocking member and said nut, the outer pair of arms of said body-part having curved recesses in their inner edges facing said rocker



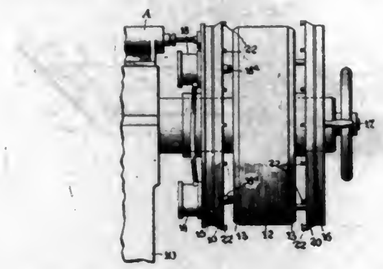
member and adapted to loosely receive therein the adjacent portion of said beaded flange, whereby the rocker member together with the nut and shank and the movable jaw carried thereby may swing as a unit upon the outer pair of arms, said rocking member being freely rotatable on the shank and independent of said nut, whereby when the wrench is laid on a surface the beaded flange spaces the nut from the surface and shifting of the nut is prevented incident to frictional contact between the wrench and the surface.

1,662,003. TENSIONING DEVICE FOR THREAD-WINDING MACHINES. WALTER J. ELDRIDGE, Lenoir, Tenn., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 28, 1926. Serial No. 132,101. 10 Claims. (Cl. 242—3.)



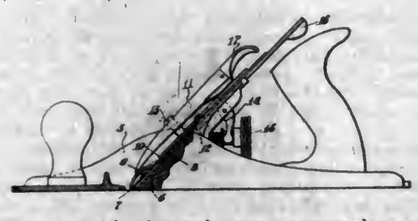
1. A tensioning device for thread winding machines comprising a support, a shaft on the support, a roller disposed in concentric relation to the shaft and supported thereon by means of anti-friction bearings, a lever pivoted on the support, means to move one end of the lever toward the periphery of the roller, and yieldable means on the lever adapted to exert pressure upon the roller.

1,662,004. BEAD-SETTING MECHANISM. ROSS E. JENKINSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 28, 1925. Serial No. 33,453. 9 Claims. (Cl. 154—10.)



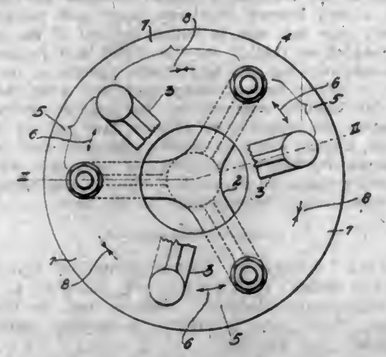
1. A device for setting a bead upon a tire carcass comprising an annular member formed with a plurality of spaced elements projecting laterally, each element being provided with an undercut curved surface adapted to engage the outer periphery of a tire bead for holding the bead in place upon the annular member.

1,662,005. CARPENTER'S PLANE. CHARLES A. JOHNSON, Unionville, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 23, 1926. Serial No. 83,217. 11 Claims. (Cl. 145—17.)



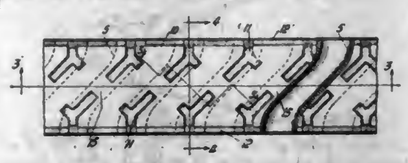
1. As an article of manufacture, a narrow plane cutter having its upper edge portion shaped for hinged engagement with a plane iron.

1,662,006. FLEXIBLE COUPLING. ELMER G. KIMMICH, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 26, 1923. Serial No. 615,162. 3 Claims. (Cl. 64—96.)



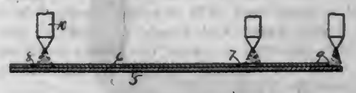
1. A flexible disc for driving connections having a set of holes for connecting the disc to a driving member and a set of holes for connecting the disc to a driven member, the sets of holes being so disposed that radii of the disc passing over the centers of the holes define tension zones and larger intermediate compression zones.

1,662,007. CUSHION TIRE. OTTO J. KUHLKE, Akron, Ohio, assignor to The Kuhlke Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 17, 1927. Serial No. 176,043. 2 Claims. (Cl. 152—1.)



2. A solid tire of the cushion type provided with apertures in the body of the tire below the tread, the said apertures extending diagonally of the tire, the diagonal portions of the apertures being substantially transversely elliptical with the major axis of the ellipse extending radially of the tire and of such dimensions that the aperture in a radial plane transversely of the tire will be substantially circular.

1,662,008. PROCESS OF COATING METALS. WILLIAM HENRY LEGATE, West Hartford, Conn., assignor of one-half to Edwin E. Sage, Hartford, Conn. Filed Apr. 23, 1926. Serial No. 104,219. 3 Claims. (Cl. 91—68.2.)



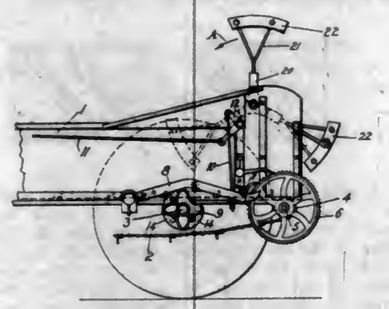
1. In the art of plating, the process for increasing the thickness of a piece of material while in its embryo state and which material when completed assumes a different configuration, said process consisting in applying to the piece of material to be thickened, a shield of a design similar to the embryo material to completely overlie the material with the exception of cut-out and cut away portions of the shield, then spraying a material having an affinity for the thickening material to the exposed portions of the piece of material to be thickened, then applying thickening material to said exposed parts resulting in amalgamation between the material to be thickened and the thickening material, shaping the piece of material into its completed form, and plating the entire article to produce a plain effect.

1,662,009. CIGAR CUTTER. WILLIAM HENRY LEGATE, West Hartford, Conn., assignor of one-half to Edwin E. Sage, Hartford, Conn. Filed June 7, 1927. Serial No. 197,171. 5 Claims. (Cl. 131—38.)



2. A cigar cutter including a support, a receiver movably mounted in the support and having a recess for a cigar tip, a pivotally mounted cutter carrier located within the receiver and having a cutter positioned to pass across said recess, and means on said carrier adapted to be engaged by said receiver to effect cutting movement of said cutter.

1,662,010. CONVERTED MANURE SPREADER. EDGAR C. LITCHFIELD, Cedar Falls, CLARENCE C. HERMANN, Waterloo, and VICTOR SPEER, Cedar Falls, Iowa, assignors to Henry L. Litchfield, Waterloo, Iowa, and Edgar C. Litchfield, Cedar Falls, Iowa. Filed Aug. 18, 1924. Serial No. 732,040. 1 Claim. (Cl. 275—3.)



The combination with a spreader body having a conveyor for slowly moving the contents toward a discharge point, of a rotatable beater wheel arranged in said body adjacent to said discharge point with its axis of rotation lying in a transverse vertical plane intersecting said conveyor, said beater wheel having scraping blades adapted to pass near said conveyor during the rotation of the beater wheel, and means for rotating the beater wheel in a direction to cause the blades to travel downwardly over the advance face of the approaching mass in the spreader body.

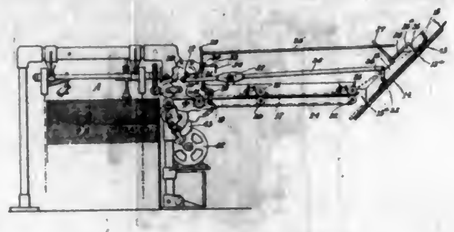
1,662,011. SEALING MEANS AND METHOD FOR WIRE-BOUND BOXES. EDWARD H. LUDLOW, Evanston, Ill., assignor to Wirebounds Patents Company, a Corporation of Maine. Filed Dec. 6, 1922. Serial No. 605,326. 5 Claims. (Cl. 292—325.)



1. Means for sealing a wirebound box comprising a metal plate positioned between a box side and a wire binding and having a metal tongue projecting at approximately a right angle from the plate and intertwisted with the free ends of the wire binding; said tongue being formed of thin, soft metal, whereby if the twist is untwisted and again twisted the tongue will be so mutilated and broken as to leave evidence of tampering.

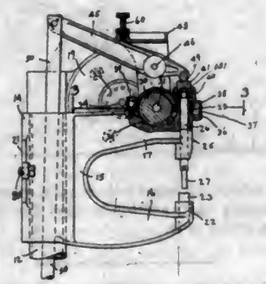
1,662,012. FEEDING MECHANISM FOR STAMP PRESSES. CHARLES E. MCMANUS, New York, N. Y., assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 11, 1926. Serial No. 93,980. 17 Claims. (Cl. 271—18.)

1. A feeding mechanism embodying therein the combination with the feed shelf of a stamp press, means whereby a metal sheet may be moved along said shelf, and means adapted to remove and advance one metal sheet at a time from the top of a pile of sheets, of a support adapted to receive sheets moved from said pile, means for moving sheets along said support and delivering them to said feed shelf in operative relation to the means for moving them along said shelf, and intermittently operative means controlled by a plate



upon said shelf whereby said means for moving the sheets along said support is successively made operative to deliver a sheet to said shelf, and inoperative for an interval to afford a dwell during which a sheet may be fed along said shelf.

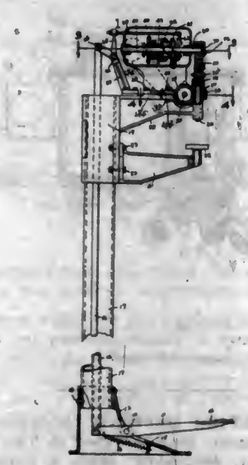
1,662,013. COMBINED METAL-WORKING MACHINE. FRANK RIESS, Indianapolis, Ind., assignor to Riess Manufacturing Company, Kokomo, Ind., a Corporation. Filed July 25, 1925. Serial No. 46,172. 1 Claim. (Cl. 29—26.)



A combined metal working tool of the kind described, including a main frame, a gear case secured to the frame, a tool carrying a spindle mounted in said gear case, a ball bearing race cap above and independent of said gear case and in which the end of the spindle is mounted so that it may be lifted and reciprocated with said race cap and be rotatable therein at the same time, a rocker arm pivotally connected with the race cap for forcibly reciprocating the spindle, means for actuating the rocker arm, a spiral gear splined on the spindle, a spiral wheel for driving said spiral gear, adjusting means for limiting the stroke of the rocker arm, and a housing connected with said frame for said spiral gear and spiral wheel, substantially as set forth.

1,662,014. COMBINED METAL-WORKING MACHINE. FRANK RIESS, Indianapolis, Ind., assignor to Riess Manufacturing Company, Kokomo, Ind., a Corporation. Filed July 25, 1925. Serial No. 46,173. 3 Claims. (Cl. 29—26.)

1. A combined metal working tool of the kind described, including a frame, a plurality of constantly driven shafts, a tool carrying spindle reciprocable in said frame, means for reciprocating said spindle, means for clutching and unclutching the reciprocating means with one of said constantly driven shafts, means for rotating said spindle, and means for operatively con-

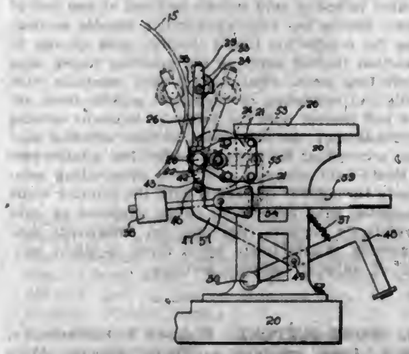


necting said rotating means with the other one of said constantly driven shafts or disconnecting the same, substantially as set forth.

1,662,015. METHOD OF PREPARING THIAZOLES. LORIN B. SEBRELL and JAN TEPPEMA, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed June 17, 1925, Serial No. 37,861. Divided and this application filed Mar. 16, 1927. Serial No. 175,922. 4 Claims. (Cl. 260—44.)

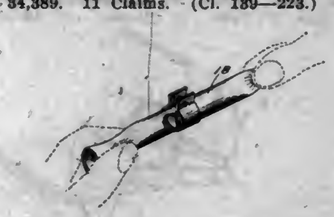
4. A method of manufacturing 2-mercaptobenzothiazole which comprises, causing diortho-dinitro-diphenyl-disulfide to react with a water solution of a basic sulfide in the presence of hydrogen sulfide and carbon bisulfide.

1,662,016. TIRE-BUILDING MACHINE. JESS A. SHIVELY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 20, 1926. Serial No. 123,651. 8 Claims. (Cl. 154—10.)



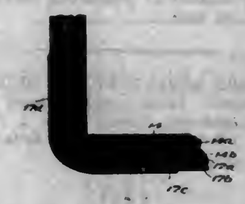
1. A tire building machine comprising a rotatable drum, and a stitcher device including a pair of arms movable along a line parallel to the axis of the drum and pivotable to swing in planes perpendicular to the axis of the drum, and a stitcher having a swivel connection rotatably mounted on each arm.

1,662,017. SHUTTLE. WILLIAM A. TEBO, Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 2, 1925. Serial No. 34,389. 11 Claims. (Cl. 139—223.)



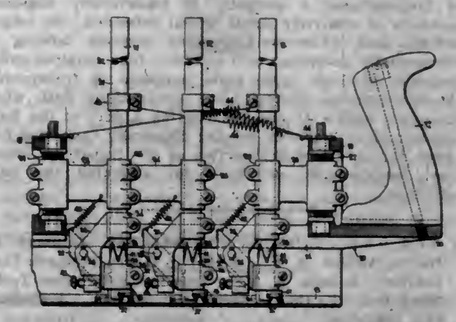
1. In a textile device having an opening therein, a yarn guide eye of infractible material in said opening and compressed elastic material between the walls of said eye and the wall of said opening securing the eye in the opening by the expanding action of said elastic material.

1,662,018. LEAKPROOF TANK COVER. WARD T. VAN ORMAN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 28, 1921. Serial No. 465,164. 8 Claims. (154—46.)



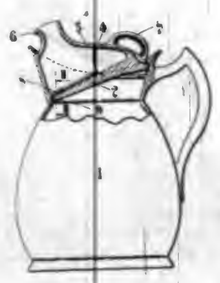
1. A cover for a tank comprising a layer of relatively soft laminated rubber over the lower portion of the tank, a layer of relatively soft rubber over the upper portion of the tank, a strip of fabric joining the upper and lower layers, and an outside layer of fabric covering the entire tank.

1,662,019. METHOD OF AND MEANS FOR DISTRIBUTING WASHERS TO THE PINS OF HEEL MOLDS. LAURENCE WETMORE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 20, 1926. Serial No. 136,388. 11 Claims. (Cl. 18—1.)



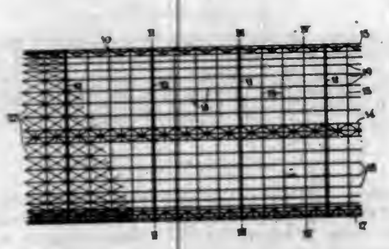
1. A device for applying washers to the pins of heel molds comprising a reservoir for the washers, an escapement device permitting the discharge of the washers to the pins, and magnetic means to control the discharge of the washers.

1,662,020. TEAPOT, COFFEEPOT, AND THE LIKE. EDMUND WILLIAM ABRAM, London, England, assignor to Eugene Ludlow Fondeville, New York, N. Y. Filed Mar. 15, 1927, Serial No. 175,569, and in Great Britain Mar. 17, 1926. 15 Claims. (Cl. 53—3.)



1. In a tea, coffee or like pot having an outlet with a clear throughway at the upper front part of said pot, a removable imperforate shutter formed to extend across the said pot below said outlet and to abut against the wall of the pot, liquid flowing to the outlet when pouring out being strained by percolating between said shutter and the said wall.

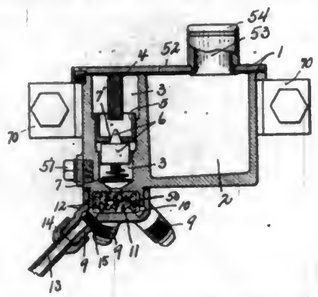
1,662,021. HULL STRUCTURE FOR RIGID AIRSHIPS. KARL ARNSTEIN, Akron, Ohio, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed June 21, 1927. Serial No. 200,475. 4 Claims. (Cl. 244—3.)



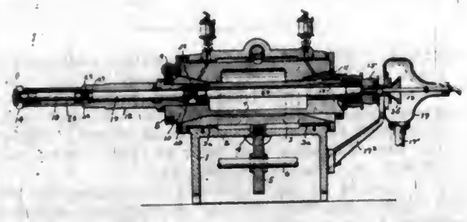
1. A rigid airship comprising a hull having a plurality of longitudinals, a plurality of transversely disposed members of relatively small lateral extension, the longitudinals and transversely disposed members defining a substantially polygonal hull contour, four longitudinally disposed relatively large keels composed of framework, the outer surface thereof being substantially flush with the outer surface of and constituting a part of the hull superstructure and wire bracing diagonally connected between the points of intersection of the transverse members, longitudinals and keels for stiffening the hull structure.

1,662,022. LUBRICATING SYSTEM. CHESTER A. BACON, Auburn, N. Y., assignor to Bowen Products Corporation, Auburn, N. Y., a Corporation of New York. Filed Oct. 17, 1922. Serial No. 595,090. 3 Claims. (Cl. 184—7.)

1. A chassis lubricating apparatus comprising a lubricant supply tank having a lubricant-containing chamber and a lubricant discharging chamber, a wick constituting the sole means of feeding lubricant from the containing chamber to the discharging chamber, means including a spring supported substantially balanced valve for dividing the discharging chamber into two chambers, an absorbent pad in the lower portion of the discharging chamber, and conduits leading from the lower portion of the discharging chamber to chassis bearings and adapted to receive lubricant from said pad.



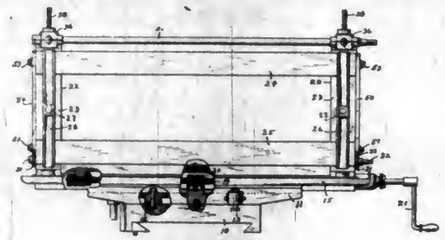
1,662,023. GRINDING MACHINE. WILLIAM J. BAUMBERGER, Davenport, Iowa, assignor to The Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Nov. 20, 1922. Serial No. 602,068. 5 Claims. (Cl. 51—267.)



1. In a grinding machine for use in wet grinding, in combination, a hollow grinding wheel spindle comprising a plurality of longitudinally aligned hollow spindle sections, each said spindle section being rigidly supported in rotatable manner by suitable bearings adjacent each end thereof, operative connections between adjacent spindle sections whereby said sections may be simultaneously rotated by rotation of one spindle section, a grinding wheel secured to one of said spindle sections at one end of said spindle, means for rotating another spindle section, and means for conducting liquid through said spindle to the end section thereof carrying the grinding wheel, said liquid conducting means comprising a tube rotatable with said spindle and extending through said spindle from adjacent one end thereof past the joints of adjacent spindle sections to adjacent the other end of said spindle, said tube being secured at its ends to respective spindle sections in liquid-tight manner, said tube cooperating relatively closely throughout its length with the interior walls of said spindle, said tube being, when disposed in said spindle, relatively rigid in character but sufficiently flexible to function satisfactorily when there is slight misalignment of adjacent spindle sections.

1,662,024. WORK SUPPORT. WILLIAM J. BAUMBERGER, Davenport, Iowa, assignor to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Apr. 6, 1925. Serial No. 21,056. 5 Claims. (Cl. 51—217.)

3. A fixture for supporting work in the path of a tool comprising a frame, a pair of vertically adjustable jaw members, brackets secured to said frame, adjustable means carried by said brackets for suspending said upper jaw member, a means releasably connecting said jaw members, means for preventing lateral displacement of said jaw members from said frame, and means for maintaining said jaw members continuously in parallel relation.

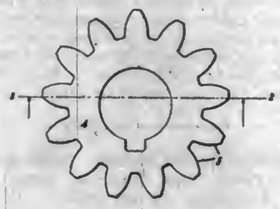


1,662,025. FIREARM. JOHN E. BRENNAN and CRAWFORD C. LOOMIS, Ilion, N. Y., assignors to Remington Arms Company, Inc., a Corporation of Delaware. Filed Apr. 23, 1924, Serial No. 708,414. Renewed Aug. 3, 1927. 11 Claims. (Cl. 42—1.)



1. A gun barrel assembly comprising a breeched piece, a plurality of barrels having threaded connections with said breech piece, and means for retaining said barrels against relative displacement comprising a series of yokes having a rigid center part which extends between said barrels and spring fingers partially encircling said barrels.

1,662,026. METALLIC GEAR AND METHOD OF MAKING THE SAME. GERALD R. BROPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1925. Serial No. 54,150. 6 Claims. (Cl. 74—28.)

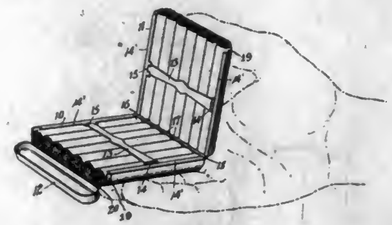


1. A gear comprising laminations of sheet steel, which laminations are united by fused copper.

1,662,027. TUNGSTEN PRODUCT AND ITS MANUFACTURE. ANTONIUS DE GRAAFF, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed Apr. 24, 1924, Serial No. 708,819, and in the Netherlands May 17, 1923. 5 Claims. (Cl. 176—182.)

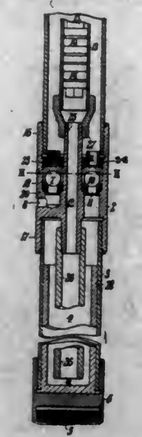
4. A tungsten filament for an incandescent lamp consisting of tungsten with a small per cent of a compound of one of the acid elements located in the periodic table in the righthand half of the third horizontal column, the per cent of the compound being less than 0.1% of the tungsten, said compound operating to modify the tungsten constituent to minimize the tendency of the filament to sag.

1,662,028. CIGARETTE CASE. MORRIS GOLD, Bronx, and AUGUST F. MOST and JOSEPH FOGEL, Brooklyn, N. Y. Filed Sept. 30, 1926. Serial No. 138,685. 1 Claim. (Cl. 206—41.)



A cigarette case, comprising a pair of body sections, a spring hinge connecting said body sections at one end, a closure, a spring hinge connecting said closure to one of the body sections, said closure adapted to fit over the ends of both body sections, coacting means on the closure and one of said body sections serving to releasably hold the closure and body sections together, inwardly projecting flanges respectively on the side portions of both body sections strengthening the body sections and constituting facing abutments, and a retaining member connected with the inner edges of the flanges of both body sections and located within the plane of said flanges.

1,662,029. PUMP. TERENCE SHIELDS HARRINGTON, Hatton, near Wragby, England. Filed July 13, 1927, Serial No. 205,487, and in Great Britain Feb. 11, 1927. 10 Claims. (Cl. 103—165.)

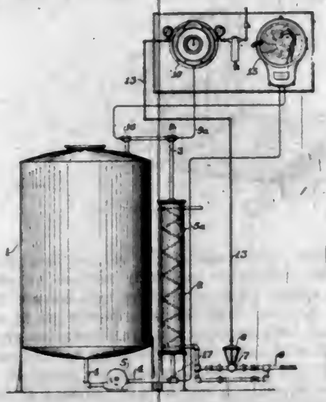


1. A pumping apparatus comprising in combination a tube terminating in a piston barrel, a liquid piston within said barrel, a working barrel within said tube, pulsating means within said working barrel for causing the rise and fall of the piston, a fluid column confined between said pulsating means and liquid piston, a valve controlling the inflow of the liquid to be raised to the piston barrel, and a valve controlling the outflow from said barrel to the space between the working barrel and tube.

1,662,030. APPARATUS FOR CLEANING FIBROUS MATERIAL. THEODORE C. HAZARD, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Dec. 2, 1926. Serial No. 152,290. 13 Claims. (Cl. 8—18.)

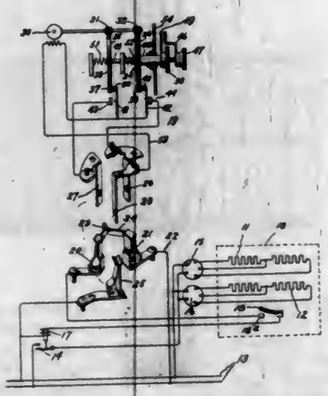
1. In apparatus of the character described, the combination with a closed vessel, of means for circulating a

liquid through the vessel, a supply of steam under superatmospheric pressure connected with the vessel, a valve for controlling the flow of steam to the vessel and means



responsive to temperature conditions in the vessel for periodically actuating the valve to maintain the liquid under a periodically fluctuating vapor pressure.

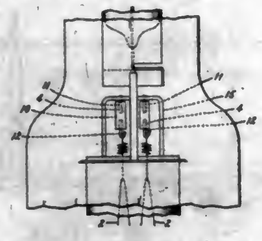
1,662,031. ELECTRICALLY-HEATED DEVICE. FRANCIS H. MCCORMICK, Glen Ellyn, Ill., assignor to Edison Electric Appliance Company, Inc., Chicago, Ill., a Corporation of New York. Filed Sept. 11, 1925. Serial No. 55,822. 8 Claims. (Cl. 219.)



1. The combination with an electrically heated device, of a thermostat arranged to control an electric circuit to regulate the temperature of said device, automatic time control means, connecting means including means normally maintaining said circuit closed, and cooperating means operated to open said circuit by the connection of said time control means whereby said automatic time control means may be connected in said circuit.

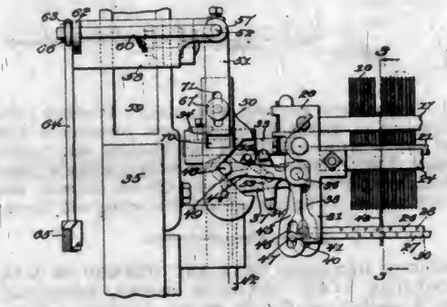
1,662,032. FILAMENT SUPPORT FOR VACUUM TUBES. DUDLEY A. MULLANEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 9, 1924. Serial No. 742,683. 4 Claims. (Cl. 250—27.5.)

1. An insulating support for an incandescent filament comprising a body member of fused quartz and a metallic filament retaining member whose one end is adapted to receive a filament and whose other end is embedded in said fused quartz body member, said other end being



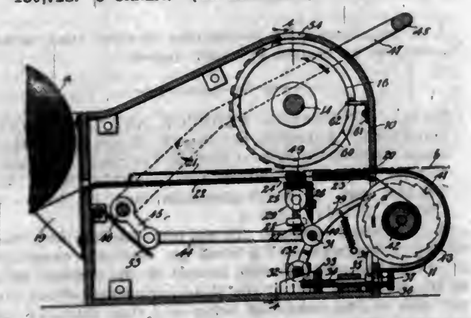
notched so that said member may be retained in position in the quartz when subjected to tension and to the heat of the filament.

1,662,033. WARP STOP MOTION FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 8, 1927. Serial No. 166,701. 8 Claims. (Cl. 139—351.)



1. A warp stop motion for looms having, in combination, a set of drop wires, means for supporting the drop wires, a detector ladder mounted below the drop wires, between the runks of which a fallen drop wire is adapted to pass, a trip ladder mounted below the detector ladder, means for reciprocating the detector ladder, loom stopping means, and connections between the trip ladder and the stopping means acting when a drop wire falls to stop the loom and open the drop wires.

1,662,034. RECEIPT RECORDER. CHARLES H. RICHTER, Trinidad, Colo. Filed Aug. 21, 1926. Serial No. 130,728. 5 Claims. (Cl. 101—100.)



1. A receipt recorder including a casing having a slot for the entrance of a bill to be receipted, means within the casing to hold an entered receipt, a table to sustain

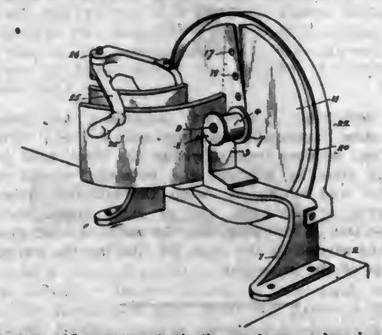
the receipt, a series of printing wheels for stamping the date and amount of the payment, a pad mounted adjacent to the wheels, means to reciprocate said pad to and from the wheel for printing the receipt, a drum adapted to mount a recording strip, means to guide said recording strip over the pad, means to effect printing on the strip as well as on the bill, and means to wind the strip after printing.

1,662,035. RETREAD MOLD FOR TIRES. FRANK L. SMITH, JACOB S. CAULFIELD, and CHARLES J. PETERSON, Sacramento, Calif. Filed June 24, 1926. Serial No. 118,229. 13 Claims. (Cl. 18—18.)



1. A tire retreading mold comprising a pair of matching circular sections arranged to receive a tire to be retreaded; means for securing the sections in closed relation around the tire; means engaging the outer surfaces of the side walls of the tire and arranged to be moved axially toward each other to press said walls together to expand the tread thereof against the inner surface of the mold; and means for circulating steam through the sections.

1,662,036. VEGETABLE CUTTER. ADOLPH STOLTENBERG, New York, N. Y. Filed Sept. 15, 1926. Serial No. 135,608. 1 Claim. (Cl. 146—115.)

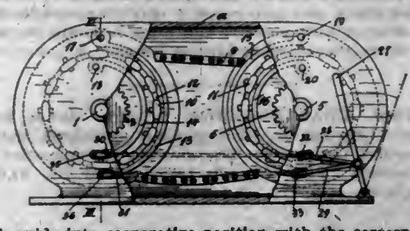


A vegetable cutter, including a base, a bearing on the base, a rotary cutting disk having mounting in the bearing, a vegetable guide fixed to the base having an open top and having concentric vertical walls spaced apart and curved horizontally, an arm projecting laterally from the base, a lever pivotally connected to the arm, and a follower on the lever between the vertical walls of the guide and movable in a horizontal plane concentrically with the curvature of said walls.

1,662,037. VARIABLE CHAIN DRIVE. RUDOLF WICHTENDAHL, Hanover, Germany. Filed May 9, 1927, Serial No. 189,973, and in Germany Jan. 20, 1926. 2 Claims. (Cl. 74—61.)

1. A chain drive comprising two shafts, an ordinary sprocket on each shaft, a disc alongside of said sprocket, a circular row of slides axially displaceable in said disc,

a stationary support, a pair of guides on said stationary support, a pin on each slide adapted to engage a groove defined in each of said guides, and means for placing



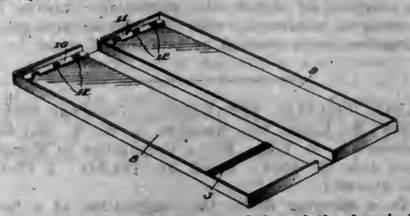
each guide into cooperative position with the corresponding pin, and for moving the other guide out of such position, and vice versa.

1,662,038. WINDOW CLEANER. FANNY BODENHOFER, New York, N. Y. Filed June 24, 1927. Serial No. 201,237. 2 Claims. (Cl. 15—220.)



1. In a window cleaner, a wire frame formed with a handle, looped portions at each end, said looped portions tapering toward the handle, and a substantially V-shaped opening adjacent one end of the handle and spaced from said looped portions, said looped portions being adapted to receive cleaning and drying cloths positioned so that part of the cloths will be pinched by the small ends of the looped portions, said V-shaped opening being adapted to receive one end of the drying cloth carried by one of said looped portions when the cloth is appreciably larger than the last mentioned looped portion.

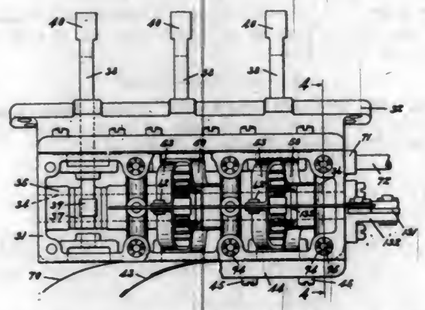
1,662,039. CONTAINER FOR CRAVATS OR NECKTIES. JAN JOSEPH ANTOINE HEYNEN, Nijmegen, Netherlands. Filed May 24, 1927, Serial No. 193,842, and in Germany Mar. 31, 1925. 1 Claim. (Cl. 206—44.)



A container for cravats or neckties of the four-in-hand type comprising an oblong cover, an oblong bottom hinged to the cover at their longer edges to form therewith a

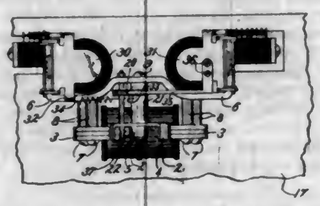
closed container, a cross-strip secured in the cover at one end thereof, a cross-strip secured in the bottom at one end thereof, a dovetailed recess in each cross-strip to hold the narrowed neck portion of a cravat or necktie, and a member extending across said cover to retain the free ends of the cravats or neckties in place.

1,662,040. CHARGE-FORMING DEVICE. ROGER KENNETH LEE, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 6, 1925. Serial No. 21,058. 8 Claims. (Cl. 123—28.)



1. A fuel supply device for a two-cylinder internal-combustion engine, comprising in combination, an engine; a fuel pump including a housing adapted to be secured to the crankcase of the engine; a pair of fuel pumps in said housing; engine-actuated means for operating the pumps; an exhaust port for each pump; a common intake passage for both pumps; a separate intake valve for each pump; and a common means tending to hold both intake valves closed.

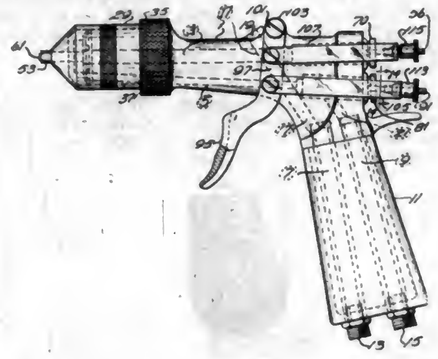
1,662,041. SWITCH-CONTROLLING DEVICE. RUDOLPH F. STEHLIK, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 22, 1926. Serial No. 96,417. 28 Claims. (Cl. 179—16.)



1. In an impulse repeating device, an impulse receiving relay, a restraining spring for the armature of said relay normally under tension, and means for automatically increasing the tension of said spring to any one of a plurality of values, the particular value in any case being in accordance with the current strength of the impulses to be received by said relay.

1,662,042. COATING APPARATUS. THEODORE BIRKENMAIER, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a Corporation of Missouri. Filed July 26, 1924. Serial No. 728,331. 2 Claims. (Cl. 91—45.)

1. In a spraying device the combination of a body; spraying means thereon comprising air ejecting and material ejecting means, valves for controlling fluid flow to said plurality of means; and means for making the air ejecting means operative before the material ejecting means, said means comprising stems reaching rearwardly from said valves, a trigger pivoted to said body, straps



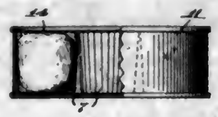
reaching around the rear of the device and pivoted to said trigger and adapted to consecutively cooperate with the air and paint valve stems and adapted to be thrown temporarily out of engagement therewith.

1,662,043. DETACHABLE SPOUT FOR FLUID RECEPTACLES. FRED MILLER OWEN, New York, N. Y. Filed Apr. 30, 1927. Serial No. 187,904. 4 Claims. (Cl. 221—23.)



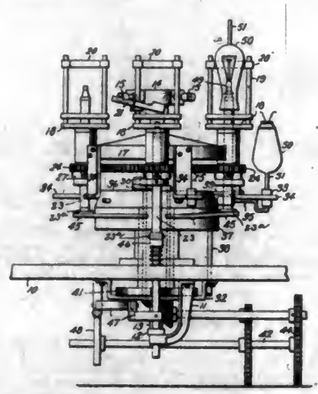
1. A detachable connection comprising an integral tubular stem having side openings near one end thereof, a cross bar member located within the stem, said cross bar being pivotally mounted and normally coaxial with said stem and acting to swing through the openings transversely of the stem and at right angles thereto after insertion of said stem into the walls of a receptacle, and means carried by the stem for limiting the swinging movement of the cross bar.

1,662,044. METHOD OF PACKING BAKED FRUITS AND VEGETABLES. GEORGE O. SANBORN, Los Angeles, Calif. Filed Mar. 9, 1927. Serial No. 173,822. 6 Claims. (Cl. 99—8.)



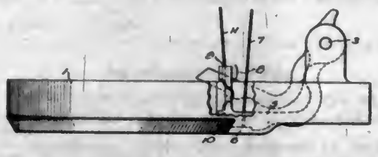
1. The method of canning baked apples and similar articles consisting in first subjecting the articles to a baking action, placing each baked article in an individual receptacle, packing a plurality of the receptacles in a container and hermetically sealing the container.

1,662,045. LAMP-MAKING MACHINE. FRANK W. PATTERSON, Arlington, N. J., assignor to General Electric Company, a Corporation of New York. Filed Apr. 22, 1924. Serial No. 708,240. 5 Claims. (Cl. 176—2.)



1. In a machine of the character described, the combination of a stationary valve seat provided with an exhaust port, a rotatable carrier comprising a valve and mounted to cause said valve to rotate on said valve seat, said valve having a port to cooperate with said exhaust port, an exhaust head mounted on said carrier and connected to said port in said valve, a sealing-in head constructed to hold a mount and a bulb and mounted on said carrier adjacent said exhaust head, sealing-in burners mounted adjacent said carrier to direct a flame across the path of said sealing-in head, and actuating mechanism for rotating said carrier to move said sealing-in head into and out of range of said burners.

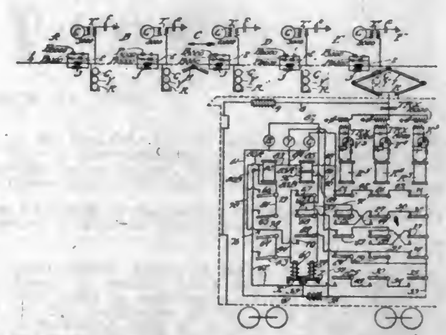
1,662,046. YARN-PLAITING-TENSIONING MEANS FOR KNITTING MACHINES. JAMES MAIR, Philadelphia, Pa., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Jan. 13, 1927. Serial No. 160,860. 9 Claims. (Cl. 66—136.)



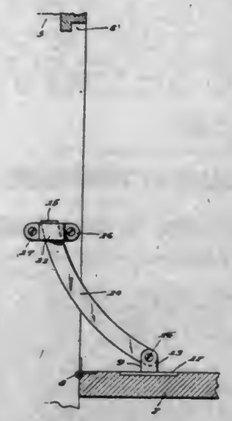
1. In a knitting machine, a member, such as a latch ring, having a throat therein, a yarn guide or finger movably mounted in said throat and having a formation whereby tension may be imparted to the yarn thereof close to the knitting point.

1,662,047. SYSTEM OF RAILWAY SIGNALING AND TRAIN CONTROL. JOHN A. MILLER, Glendale, Calif., assignor, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed June 25, 1920. Serial No. 391,790. Renewed July 19, 1927. 22 Claims. (Cl. 246—61.)

20. A system of the class described, comprising in combination with sections of a trolley wire, means for impressing high frequency currents thereon, and a roadway signal apparatus comprising high frequency detectors connected with said trolley wire sections respectively and adjusted selectively to respond each to a definite frequency impressed thereon, together with a movable unit comprising a high frequency detector adapted to be electrically connected with the trolley wire sections through a series resonant circuit, connection of the series resonant circuit of the vehicle with a trolley wire section intermediate the point of application of the high frequency currents and the roadway signal apparatuses serving to deprive the latter of the high frequency currents aforesaid.



1,662,048. CABINET-DOOR HANGER. MORRIS VICTORSOHN, Brooklyn, N. Y., assignor to Victorson Manufacturing Corporation, New York, N. Y. Filed Sept. 8, 1926. Serial No. 134,231. 1 Claim. (Cl. 45—91.)



In a cabinet, the combination with a hinged door, of an arcuate arm pivotally carried by said door, and a keeper member attached to said cabinet, said member embodying a housing having its bottom portion open, the top portion thereof being disposed in a horizontal plane and presenting a slot communicating only with the interior of said housing and adapted to slidably engage said arm, and a projection on the inner end of said arm and adapted to abut the plane surface of said keeper and support the door in open position.

Patents Nos. 1,662,049 to 1,662,807.

THE

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OF THE

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Prints	2—No.	10,711 to No.	10,712, inclusive.
Reissues	8—No.	16,897 to No.	16,904, inclusive.
Designs	66—No.	74,642 to No.	74,707, inclusive.
Patents	759—No.	1,662,049 to No.	1,662,807, inclusive.
Total	1,204		

Interference Notices.

U. S. Patent Office, *Washington, Feb. 23, 1928.*

Weeber & Don, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Farmer Seed & Nursery Co., 918 Fourth Street west, Faribault, Minn., for registration of a trade-mark and trade-mark registered December 30, 1913, No. 94,778, to Weeber & Don, 114 Chambers Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Weeber & Don at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Weeber & Don, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. Patent Office, *Washington, Feb. 15, 1928.*

Joseph A. Arment, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Pacific Coast Biscuit Company, Central Building, Seattle, Wash., for registration of a trade-mark and trade-mark registered July 1, 1902, No. 38,542, to Joseph A. Arment, No. 9 North Sixth Street, Portland, Oreg., and a notice of such declaration sent by registered mail to said Joseph A. Arment at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Joseph A. Arment, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Notice of Cancellation.

U. S. Patent Office, *Washington, Feb. 15, 1928.*

The Rotor Vacuum Cleaner Company, Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of The Rotor Vacuum Cleaner Company, Inc., of 308 West One hundred and thirty-third Street, New York, N. Y., No. 99,008, dated August 11, 1914, and the notice of such proceeding sent by registered mail to the said The Rotor Vacuum Cleaner Company, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Rotor Vacuum Cleaner Company, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

NOTICE.—AMENDMENT TO RULES OF PRACTICE.

PARAGRAPHING OF SPECIFICATIONS.

Attention is called to the amendment of rule 45, which reads as follows:

"In order to facilitate printing, each paragraph or claim should be completed on the page upon which it is begun and should not be split between two pages except where the length of a paragraph or claim requires more than one full page."

The purpose of this amendment is to facilitate the work of the Printing Office. That Office has found it expedient in printing specifications to divide the work on any one specification among different printers and since the pages of the specification can not be cut and the parts pasted together it necessitates, in cases where a paragraph or a claim is continued from one page to the next, the carrying of the page from one typesetter to another. It will therefore be seen that if the specifications are prepared as indicated in the amended rule, the work of the Printing Office will be very much facilitated with a consequent saving of time and expense.

If typewriting the specification as above outlined should necessitate leaving a considerable blank at the bottom of any one page, a diagonal line may be drawn across this space before the application is executed.

February 8, 1928.

WM. A. KINNAN,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business March 2, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 93,850; Trade-Mark Division, 2,167. Oldest new case, June 8, 1927; oldest amended, June 14, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 18	Aug. 3	1,400
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Sept. 10	Sept. 21	1,244
831	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 25	Sept. 24	1,897
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	June 22	June 20	2,132
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	July 5	July 5	1,421
818	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	July 23	Aug. 24	2,251
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	July 14	July 13	2,138
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Aug. 9	Aug. 31	1,912
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 24	Oct. 27	1,443
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 11	Oct. 14	1,743
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufacture; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 3	Sept. 21	1,436
380	12. PIERCE, P. P., Machine Elements	June 27	June 15	1,875
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 7	July 14	1,893
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	June 27	June 29	1,603
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Aug. 15	Aug. 24	1,887
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Sept. 6	Sept. 27	1,281
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Aug. 6	Sept. 26	1,107
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 4	Aug. 8	1,301
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Apr. 17	Apr. 21	1,370
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Oct. 10	Oct. 15	1,359
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 2	Aug. 24	1,312
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 1	Sept. 6	1,508
317	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	June 22	June 23	1,340
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 20	June 23	1,540
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 22	Sept. 10	1,884
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	June 21	June 28	1,197
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 6	Oct. 1	1,292
225	28. BENSON, A. R., Internal-Combustion Engines	July 14	July 14	1,860
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 22	June 18	1,677
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	July 13	Oct. 19	1,895
812	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Aug. 4	July 23	2,330
219	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 3	Aug. 8	1,745
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Oct. 31	Nov. 3	1,849
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 15	June 17	1,361
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 11	Nov. 7	1,397
105	36. MORTON, O. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Oct. 10	Oct. 6	1,550
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Aug. 4	Aug. 13	1,940
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Aug. 20	Aug. 22	1,590
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 8	June 14	1,458
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	July 18	Aug. 16	2,288
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Sept. 10	Sept. 12	574
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	July 5	July 2	1,905
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Aug. 15	Sept. 26	1,899
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	June 20	July 19	1,832
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 3	Oct. 14	1,250
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 20	Aug. 12	1,557
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	July 30	Aug. 4	2,417
213*	48. ROEPKE, O. B., Electricity, General Applications	Aug. 31	Aug. 31	1,374
230	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 13	Aug. 27	1,332
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Aug. 12	Aug. 17	2,269
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Aug. 11	Aug. 9	1,926
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Sept. 6	Sept. 14	2,151
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Aug. 8	Aug. 22	1,547
241*	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Aug. 3	Aug. 1	2,083
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery	July 10	July 10	852
	{ Designs	†Jan. 20	†Jan. 27	890
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	June 8	June 30	2,220
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND { Trade-Marks	†Feb. 3	†Feb. 17	1,909
	{ Labels and Prints	†Feb. 3	†Feb. 17	258

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Supreme Court of the United States.

THE TEMCO ELECTRIC MOTOR COMPANY *v.* APCO MANUFACTURING COMPANY.

Decided January 3, 1928.

1. PATENTS—INFRINGEMENT—IMPROVEMENT MAY BE.
An improver can not appropriate the basic patent of another, and an improver without a license is an infringer and may be sued as such.

2. PATENTABILITY—INVENTION—COMMERCIAL USE EVIDENCE OF.
The patent in suit can not be held to be without merit when the usefulness of the device had been demonstrated by 10 years' use in very large numbers and a very profitable business.

3. PATENTS—ESTOPPEL.
That in a second application, which was in interference with an application of defendant's assignor, patentee described the device thereof as an improvement "over" the construction of the patent, *Held* not to estop patentee from claiming that the device of the defendant, made in accordance with such interfering application, was an infringement of the patent.

4. PATENTABILITY—VAGUENESS AND INDEFINITENESS.
Claim in suit when read in connection with the specification and drawings, both of which are clear, *Held* not vague and indefinite.

ON WRIT of certiorari to the United States Circuit Court of Appeals of the Fifth Circuit.

Mr. H. A. Toulmin and *Mr. H. A. Toulmin, jr.*, for Temco Electric Motor Co.

Mr. Clifford L. Anderson and *Mr. M. A. Keller* for Apco Mfg. Co.

Mr. Chief Justice TAFT delivered the opinion of the Court.

The Temco Electric Company, a corporation of the State of Ohio, filed this bill in equity against the Apco Manufacturing Company, a corporation of the State of Rhode Island, charging that the Apco Company had wronged the Temco Company by infringement of a patent for a shock absorber fitted for a Ford motor car, issued to Ralph P. and Wm. S. Thompson, assignors of one-third to Oliver P. Edwards, and assigned by them to the Temco Company and owned by it. The Apco Company answered denying the validity of the patent and its infringement, averring that it was inoperative and that the shock absorber which the Apco Company was making was made under a patent to one William Storrie, applied for March 18th, granted September 17, 1918, and numbered 1,279,035. The answer further set out the names of certain patents which were said to be anticipations of the patent upon which the suit was brought.

The district court held that the patent was a very narrow patent, and that claim No. 3 was invalid because it lacked words of description enough to make it operative. Deferring, however, to the decision of the district judges and of the Circuit Court of Appeals of the Sixth Circuit, it sustained the three claims of the patent but declined to grant a preliminary injunction. Though of opinion that the infringement had not been shown, nevertheless it entered a decree in favor of the appellee out of deference to two decisions of the circuit court of appeals, *K-W Ignition Company* v. *Temco Electric Motor Company*, 243 Fed. 588, and the same case reported again in 283 Fed. 873. The Circuit Court of Appeals of the Fifth Circuit declined to follow the two decisions, of the Circuit Court of Appeals of the Sixth Circuit, and reversed the judgment of the district court. There had been a cross appeal brought by the appellee to reverse the district court in its holding that the third claim was invalid and that cross appeal was denied, (11 Fed. (2d) 109). The case has been brought here by certiorari. 271 U. S. 653.

The patent sued on was issued to Ralph P. Thompson and William S. Thompson, of Leipsic, Ohio, assignors of one-third to Oliver P. Edwards, of Leipsic, Ohio. The application was filed October 10, 1912, and the patent was issued September 9, 1913, and numbered 1,072,791, and has since been assigned by the patentees to the Temco Company. The object of the patentees was to provide a shock absorber which would make riding in an automobile easy. They professed to accomplish this by supplying a set of quick-acting coiled springs in connection with the set of slow-acting and friction-retarded leaf springs originally built into the vehicle. The compression and recoil of the two sets of springs occurred at different times, in consequence of which their respective pulsations were not synchronous. The result was said, in the specifications, to be that the shock to the road wheel and axle was first absorbed by the coiled spring, and therefrom was transmitted to the body of the car and to the occupants through the slow-acting leaf spring. As the compression and recoil of the leaf spring were not the same as those of the coiled spring, the recoil of the coiled spring began to take place before the full effect of the shock to the road wheel could be transmitted through the leaf spring. This seesawing action, as it were, between the quick-acting coiled spring and the slow-acting leaf spring, the specifications said, caused a large portion of the effect from vibrations to be nullified by the action of one and reaction of the other of these springs taking place simultaneously, thus absorbing within the spring element the sharper vibrations. The device was intended to be specially adapted for attachment to Ford automobiles. Its availability was claimed to be such that the owner of a Ford car, without the services of a mechanic and without disturbing the operation or construction of the car, might, with slight instruction, remove the usual hanger which supported each end of each leaf spring and insert in its stead the plaintiff's attachment.

The absorber consisted of an upright metal guide, whose lower end was rigidly attached to the car axle, and provided a platform for the lower end of a coiled or torsion spring, inclosed in a cylindrical metal casing or hanger, bearing against and sup-

ported by the upper end of the coiled spring, and so was capable of upward and downward sliding movement on the guides, the stanchions or guides being adapted to maintain the vertical direction of the sliding movement of the absorber or torsional spring, and to limit the end movements of the leaf springs along the axle.

When the patent was issued there was a great demand to purchase the device and use it, and under the patentees, or under the K-W Ignition Company, which had a contract with the patentees, there were made and sold upwards of 134,000 sets of the shock absorbers, and about $2,250,000 was from time to time paid to the patentees for these absorbers, so that from 1912 for 10 years or more a very large business was done in the sale and use of the patented device. There was litigation over it, especially in the districts of the sixth circuit, where the validity of the patent was generally sustained, the first case having been heard by a former Justice of this Court while a district judge of the Northern District of Ohio. His opinion is recorded in the record. The case involved not only the validity of the patent, which after some hesitation he sustained because of its general adoption and success, but also presented a question whether the defendants in that case, the K-W Ignition Company, were not so bound by contract with the patentees as to estop them from defending against the patent. The district judge held, however, that the contract had expired and the obligations growing out of it had also expired, so that the issue tried was that of the validity of the patent. The district court's decree was affirmed by the court of appeals and the case was sent back for an accounting and an accounting was had against the defendant in that case and a judgment given for $292,938, against the K-W Ignition Company, which was a defendant there. In the present suit the bill set up this litigation in Ohio as evidence of the validity of the patent, but a straight issue of validity was also made and all the defenses known were advanced.

The district judge in Ohio in the K-W Ignition case was affected in his decision, that the Thompson patent involved invention, by the way in which the public eagerly took it and its marked success, and so, indeed, was the Circuit Court of Appeals of the Sixth Circuit. So are we.

The attack now made upon the patent is that it has been proved to be ineffective and 10 years' actual use results in some injuries to the shock absorbers by striking of the parts of the motor machine against the metal guides and cylindrical metal hangers in which the torsional spring is moved up and down. It appears that the real owners of the patent, realizing that there were defects in the operation of the absorber that should be remedied, applied to the Patent Office for a patent which should substitute for the stanchions or guides, on which the hanger around the torsional spring moved up and down in a vertical direction, a fixed radius link. The torsional spring of the patent inclosed within the casing or hanger attached to the upright guide did not, in moving or sliding up and down, retain a vertical direction but was sometimes tilted over by the weight of the car and its load. The change proposed, in regard to this, was that while the spring should be placed outside the upright or stanchion at the bottom of the spring the upright stem or guide or stanchion inside the spring should be maintained in a vertical position by the addition of a radius link united to another by a toggle joint which fixed the guide rigidly and would hold the coil spring up permanently in a vertical position. This permitted a widening of the coil spring at the bottom so as to make it conical and gave the spring more stability in its vertical position. The difference between a conical coil spring and one that is not conical does not make the two structures different in any respect but in degree of stability only.

The proposal of the plaintiff patentees to remove a defect by the substitution of the radius link for the metal guide and casing and hanger led to an interference proceeding with one William Storrie who claimed to have hit upon this change first, and in that interference proceeding in the Patent Office, Storrie was given a patent for the absorber with that radius link. Except for the radius link there is no difference in operation and result. The springs in a Ford car equipped with the defendant's device receive the shocks in the same order, operate in the same manner and produce the same results as those in a Ford car on which the springs of the plaintiff's patent are used. The function which the casing of the torsional spring and the hanger perform is exactly the same as that of the torsional spring and the radius link introduced in the Storrie patent under which the answer and the facts show the defendant's device was licensed and operates.

Storrie as patentee said in his specifications that his invention related to means for absorbing the vibrations and shocks in vehicle springs to such an extent as not to cause annoyance to the rider and strain to the springs of the vehicle, which would tend to cause such springs to crack or otherwise become disabled; that the invention provided a shock absorber embodying an expansible helical spring and supporting means therefor of novel formation, one of such supports being secured to the axle and the other being shackled or otherwise attached to the vehicle spring, the parts being arranged to control the vibrations or shocks not taken up quick enough by the main spring and thereby overcome the objectionable features therein mentioned. And then follow twelve different claims, most of which refer to a radius link pivoted to the support between the torsional spring and the main or laminated spring of the vehicle.

The claim made for the invention is that the real gist of it is in the arrangement of the parts, all of which were old, so that the first vibration and shock would be taken up from the axle by the torsional spring, and then having been divided up into vibrations should be communicated through the torsional spring and the absorber to the leaf spring and "dampened down," as the expression is, by its slower action, so as really to take up and absorb and make to disappear the shocks otherwise directly communicated from the road and the axle to the leaf spring. It is argued that, as these were all old parts, there was nothing new in the patent. We have examined the art with a view to considering that particular point. We think that the theory, that the Thompson patent had and has its real value in the function of the torsional spring directly to take up all the vibrations from the road and axle and quickly to divide them for the dampening effect of the slow-moving leaf spring of the car, was a sound one. There have been citations of early patents showing previous attempts of the same kind, but we have not been pointed out to one in which the torsional spring was so arranged as to take all the road vibrations and divide them up before reaching the main car spring, except those which have come after the Thompson original patent. This is true of the Bussing whether German, English and French patents, the Peugeot patent and the Cosset patent. It is true that by taking some of these structures or devices, notably the Bussing English patent, it may be possible to show how, by turning over on its back the specified device, the torsional spring could be made partly and ineffectively to perform this function, but as described in this or other cited patents there is no suggestion or recommendation of the arrangement in Thompsons'. They—all of them—use the main or leaf spring to take directly all or part of the vibrations from the axle and rely on the torsional spring to soften vibrations after they have passed or are passing through the main spring. The leaf spring in the Warner patent not only takes the greater road shocks directly but the entire spring arrangement is primarily built and put in at the factory while the axle is split into two parts and the device is not made a separate or separable part, a feature which is an important and needed advantage to adapt the absorber to use in a Ford car.

We may properly note, as bearing upon the issue whether there was something substantially in the elaborated claim of the Thompson specifications, that the defendants below called as a witness Mr. Storrie and that upon cross-examination he said that the defendant's device was within the Storrie patent and he made it clear that without the torsional spring to divide and neutralize the vibrations from the axle and ground, the good effect of the leaf spring to "dampen out" the vibrations from the road could not be effected.

[1] With respect to the Storrie patent, it is said that the patent in suit is not broad enough to justify an allowance of equivalents which would make the radius link an equivalent to the casing and hanger of the Thompson absorber. It is urged that if it is not an equivalent, it is at least an improvement on the Thompson patent in suit and that this is what Thompson was seeking when the interference proceedings were had. It was upon that theory, that the Storrie patent was an improvement on the Thompson patent, that the Circuit Court of Appeals of the Sixth Circuit in the suit between the Temco Company and the K-W Ignition Company decided that it could allow only recovery for royalties and not for profits, 283 Fed. 873, 876, 877. It is well established that an improver can not appropriate the basic patent of another and that the improver without a license is an infringer and may be sued as such. *Cochrane* v. *Deener*, 94 U. S. 780, 787; *Cantrell* v. *Wallick*, 117 U. S. 689, 694; *Yancey* v. *Enright*, 230 Fed. 641, 647; *Reed* v. *Hughes Tool Company*, 261 Fed. 192, 194.

[2] We can not concur with the district judge in this case or with the Circuit Court of Appeals of the Fifth Circuit in the conclusion that there was no merit in this patent when its usefulness was demonstrated by 10 years' use in such large numbers and by such profitable business. We must consider that the Storrie patent was really an appropriation of the original design of the Thompson patent whether it be, as we think it was, a patentable improvement thereon or the mere equivalent of the casing and hanger.

[3] It is argued that an estoppel works as against the Temco Company by the action of one of the Thompsons and an assignor of its patent because in applying for the second patent in what turned out to be the interference proceeding he had said that the radius-link device which was applied for related to an improvement "over" the construction disclosed in the original patent granted to them. If Thompson had said it was an improvement "upon" it would have been satisfactory, but the word "over" is supposed to indicate that he was making an application for a different patent. This is too fine a turn in language. In attempting to distinguish the new invention which he was seeking to have patented, he had said that the claims of the new patent were "obviously different in mechanical construction and functional results." This is said to estop the plaintiff from claiming that the Storrie radius link, which won in the interference proceeding, is only an improvement on the patent in suit as the basic patent upon which the Storrie patent was an improvement. But it was said in the Thompson application for a second patent in the Patent Office that the invention sought was of the general type disclosed possessing certain advantages not possessed by the construction of the prior patent, and it was specifically stated therein that the radius-link form was an improvement over a construction disclosed in the first Thompson Patent No. 1,072,791.

We have had to depend for knowledge of the contents of the application by Thompson for his second patent on the quotations in the briefs. This record has been so badly prepared and so much has been omitted in the printing that we should really reject the argument by the defendants as to estoppel altogether because the record as printed contains nothing upon which it can be based.

The district court and the circuit court of appeals in this case held that claim No. 3 of the patent in suit was void because inoperative and having no description upon which it could be properly used as a claim. The claim is as follows:

In automobile construction, wherein coiled springs are used auxiliary to leaf springs for absorbing shock to the road wheels, the combination of upright stanchions with the axle of the ground wheels, said stanchions being attached to the outer ends of said axle, leaf springs extending above the axle and between the stanchions, and supporting the chassis frame, the said stanchions being adapted to limit the end motion of the leaf springs and thereby prevent side sway of the chassis frame, hangers for the outer ends of said leaf springs, said hangers having a vertical movement and being guided therein by said stanchions, and coiled springs interposed between said leaf spring hangers and said axle of the ground wheels.

The district court in its opinion said:

For want of any statement as to how the leaf spring and helical spring are to be connected to and guided by the stanchions, I think claim 3 is incomplete and void.

The Circuit Court of Appeals of the Fifth Circuit said of the claim:

Appellee [the petitioner] has filed a cross-appeal and insists that the claim which the district court disallowed is valid. That claim is about as vague as it could be made. As pointed out by the district judge it fails to specify the means by which the leaf and helical springs can be connected to and guided by the stanchion. To sustain a claim as general as this is would be to allow a patent for a "result and not for the mechanism producing it".

[4] Reading the claim with the specifications and the drawings, which are both clear (*Howe Machine Co.* v. *National Needle Co.*, 134 U. S. 388, 394) its addition to the combination of coiled springs interposed between the leaf-spring hangers having vertical movement and guided by stanchions comprehends the link as shown in the drawings or any suitable connection between each leaf spring and its hanger and casing surrounding the coiled spring which is interposed between the leaf spring and the axle and ground wheel. It does not seem to us that the claim is vague; nor do we find nullifying incompleteness in it. *Turril* v. *Railroad Company*, 1 Wall. 491, 510; *Rubber Company* v. *Goodyear*, 9 Wall. 788, 795; *McClain* v. *Ortmayer*, 141 U. S. 419, 425; Walker on Patents (5th ed.) sec. 185. Neither did the Court of Appeals of the Sixth Circuit nor did the district courts of that circuit so find.

Our conclusion requires a reversal of the decree of the circuit court of appeals including its ruling on the cross appeal as to claim No. 3 and a remanding of the case to the district court for further proceedings in accord with this opinion.

Reversed.

Court of Appeals of the District of Columbia.

FESLER *v.* LYMAN.

No. 1,957. Decided December 5, 1927.

1. INTERFERENCE—PRIORITY—TESTIMONY.
Testimony on behalf of L. *Held* to establish conception and reduction to practice of the invention by him prior to any date of invention claimed by F. and priority properly awarded him.

2. SAME—SAME—SAME.
"We see no reason why the consistent testimony of these witnesses should not be accepted at its face value. As stated by the Assistant Commissioner, 'the issue in this case must be decided on the proven facts and not upon suspicion, conjecture or speculation.'"

APPEAL from Patent Office. Affirmed.

Mr. Earl F. Pierce, Mr. C. C. Bradbury, and *Mr. Elwood Hansmann* for Fesler.

Mr. Geo. W. Dorr and *Mr. G. E. Dunstan* for Lyman.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding awarding priority of invention to the junior party, Lyman.

The invention relates to what is known as high-pressure grease gun for lubricating automobiles. Unless the pressure was reduced in the gun of the prior art, when it was detached from the bearing, a certain amount of grease or oil would be forced through the nozzle. It was to overcome this difficulty that the invention in issue was developed. The invention is a comparatively simple one and easily understood by those familiar with the art.

Fesler alleged conception and disclosure of the invention on or about October 1, 1921, and reduction to practice on or about October 21 of that year. Lyman alleged disclosure in July of 1921 and reduction to practice in September of the same year, which it will be observed was prior to the earliest date claimed by Fesler.

The question before the Patent Office, as here, was solely one of fact, namely, whether Lyman's dates were substantiated by proof.

[1] Leon F. Schulze, manager of the Peerless Automatic Machine Co., of Cleveland, Ohio, testified to a disclosure of the invention to him by Lyman in July of 1921; that he, Schulze, made two drawings of the invention for Lyman, those drawings being in evidence as Lyman's Exhibits "D" and "E"; that he instructed his brother, Robert Schulze, foreman of the company's machine shop, to construct a gun in accordance with the drawings, and that such a gun was constructed. Robert Schulze testified that he personally made this gun in September of 1921, and there is evidence that it was immediately and successfully tested. The gun is in evidence and responds to the issue. There was other evidence of a corroborative character.

[2] We see no reason why the consistent testimony of these witnesses should not be accepted at its face value. As stated by the Assistant Commissioner, "the issue in this case must be decided on the proven facts and not upon suspicion, conjecture or speculation."

For the reasons more fully stated by the tribunals of the Patent Office, the decision is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

THE AMERICAN PRINTING INK COMPANY *v.* AMERICAN PRINTING INK COMPANY.

No. 1,967. Decided December 5, 1927.

1. TRADE-MARKS—SIMILARITY.
Two trade-marks including the name "American Printing Ink Co." in connection with certain other features *Held* not deceptively similar.

2. SAME—CORPORATE NAME—REGISTRABILITY OF MARK INCLUDING.
While a party can not be prevented from using its name in conducting its business, it may be prevented from registering it as the dominating feature of its trade-mark if the name is the same as that of another company unless disclaimer of the words forming that name is made.

APPEAL from the Commissioner of Patents. Modified and affirmed.

Mr. Wm. L. Symons for The American Printing Ink Co.

Mr. A. C. Fraser and *Mr. Louis E. Giles* for American Printing Ink Co.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

Appellant, The American Printing Ink Company, opposes the registration by the appellee, American Printing Ink Company, of a trade-mark described in the application as comprised of the following elements:

1. The representation of a corpulent man with long hair and whiskers, in a costume of red, white and blue color, suggestive of the fanciful person known as "Uncle Sam". 2. A background including as a part thereof a conventional representation suggestive of a map of the United States, such representation including lines roughly indicating State boundaries and the location of the city of Chicago. 3. A highly distorted representation of a hemisphere having thereon an outline suggestive of a representation of the North American Continent and islands of the Pacific, so enlarged as to occupy the entire hemisphere. 4. The words "American Printing Ink Co." an abbreviation of applicant's corporate name, American Printing Ink Company.

The mark of the opposer consists of its corporate name used on a label giving the address of the company, and a scroll in which is printed the words "High Grade Printing & Lithographing Inks, Dry Colors, Varnishes."

It is conceded that the goods of the respective parties have the same descriptive properties. Two questions, therefore, arise; whether or not the marks are so nearly identical when used upon goods of the same descriptive properties as to cause confusion in trade; and whether or not the opposition should be sustained because of the use of the corporate name of the opposer by the applicant as a dominating feature of its mark. The tribunals of the Patent Office overruled the opposer on both propositions; and without stopping to discuss the distinctions, we are clearly of the opinion that they were right in holding that the marks are not so nearly identical as to lead to confusion.

The other proposition as to the use of the corporate name is not so clear. The difficulty arises from the fact that both the opposer and the applicant have each the same corporate name, and while the applicant cannot be prevented from using its name in conducting its business, it may be prevented from registering it as the dominating feature of its trade-mark. This can be obviated, however, by applicant filing a disclaimer of the words "American Printing Ink Co." With this modification we see no objection to the registration of the mark.

The decision of the Commissioner is affirmed upon condition that applicant file a disclaimer of the words indicated, otherwise the mark will be held unregisterable.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

885,135, F. P. Barney, Separable cuff link button, appeal filed Jan. 17, 1928, C. C. A., 1st Cir., Doc. 2205, *C. D. Lyons* v. *The Baer & Wilde Co.*

887,997, E. B. Cadwell, Vehicle tire, C. C. A., 2d Cir., Doc. 9522, *E. B. Cadwell et al.* v. *Firestone Tire & Rubber Co.* Decree affirmed (notice dated Jan. 20, 1928).

891,956, W. C. Schmidt, Indicating bottle, D. C., W. D. N. Y., Doc. 444–C, *W. C. Schmidt* v. *Todd Protectograph Co., Inc.* Dismissed Jan. 10, 1928.

918,388, R. C. Stubbs, Process of solidifying mortar and concrete formations, D. C., N. D. Ga. (Atlanta), Doc. 383, *R. C. Stubbs* v. *Driveway Co. et al.* Dismissed without prejudice Jan. 26, 1928.

923,557, F. Milliken, Pole, D. C., W. D. N. Y., Doc. E 972. *F. Milliken* v. *Lackawanna Steel Construction Corp.* Dismissed Jan. 10, 1928. Doc. E 973, *F. Milliken* v. *Bancroft-Jones Corp.* Decree as above.

1,007,647, C. R. Darnall, Process of purifying water and sewage, D. C. N. J. (Trenton), Doc E 2834, *Wallace & Tiernan Co., Inc.*, v. *Paradon Mfg. Co. et al.* Final decree Dec. 12, 1927.

1,031,789, F. W. Harris, Circuit interrupter, filed Dec. 10, 1927, D. C., S. D. Calif. (Los Angeles), Doc. E N–14–H, *Westinghouse Electric & Mfg. Co.* v. *Kelman Electric & Mfg. Co.*

1,156,122, J. C. Woodley, Fibrous composition and process of manufacture, D. C., W. D. N. Y., Doc. E 947, *The Richardson Co. et al.* v. *The Gould Storage Battery Co.* Dismissed Jan. 10, 1928.

1,206,780, F. H. Scantlebury, Method of sand-blast carving, D. C., W. D. N. Y., Doc. 547–C, *Phoenix Machine Co., Inc.*, v. *F. J. Hart.* Dismissed Jan. 10, 1928.

1,218,314, C. P. Read, Machine for placing springs in casings, filed in D. C., W. D. Mich. (S. Div.), *Simmons Co.* v. *National Spring & Wire Co. et al.*

1,220,150, O. J. Williams, Thermometer for cooling systems of internal-combustion engines, filed Jan. 23, 1928, D. C. E. D. Mich. (S. Div.), Doc. 2423, *The Moto Meter Co., Inc., et al.* v. *Cadillac Motor Car Co.*

1,227,139, G. Hoepner, Labeling machine, filed Nov. 4, 1927, D. C. N. J. (Trenton), Doc. E 2943, *Pneumatic Scale Corp., Ltd.*, v. *Armour Grain Co.*

1,240,826, G. L. Davis, Agitator for washing machine, D. C., W. D. N. Y., Doc. E 894, *The Nineteen Hundred Washer Co.* v. *Automatic Distributing Corp.* Dismissed Jan. 10, 1928.

1,271,529, M. C. Hopkins, Acoustic device, filed Nov. 3, 1927, D. C. N. J. (Trenton), Doc. E 2941, *Lektophone Corp.* v. *Splitdorf Radio Corp.* Same, filed Dec. 30, 1927, D. C. N. J. (Trenton), Doc. E 3024, *Lektophone Corp.* v. *M. Schlein et al.*

1,280,921, J. Whitaker, Printing device, D. C., W. D. N. Y., Doc. 457–C, *Save Guard Check Writer Co.* v. *Hall-Welter Co., Inc.* Dismissed Jan. 10, 1928.

1,283,082, S. M. Colburn, Vehicle tank indicator, D. C., W. D. N. Y., Doc. 536–C, *The Grolan Mfg. Co.* v. *Rochester Mfg. Co., Inc., et al.* Dismissed Jan. 10, 1928.

1,315,749, R. C. Stubbs, Paving for street and the like, D. C., N. D. Ga. (Atlanta), Doc. 441, *R. C. Stubbs* v. *F. W. Sampson et al.* Dismissed without prejudice Jan. 26, 1928.

1,319,491, J. F. Rowley, Artificial feet, D. C., N. D. Ohio (E. Div.), Doc. 2316, *The J. F. Rowley Co.* v. *A. T. Rowley.* Dismissed (notice dated Jan. 23, 1928).

1,343,600, West & West, Printer's table, appeal filed Dec. 14, 1927, C. C. A., 1st Cir., Doc. 2195, *J. West et al.* v. *Premier Register Table Co.*

1,365,896, T. I. Duffy, Disk wheel for vehicles, filed Jan. 30, 1928, D. C., E. D. Mich. (S. Div.), Doc. 2444. *G. H. Forsyth* v. *Motor Wheel Corp.*

1,366,768, S. J. Clulee, Construction for eyeglass, filed Jan. 16, 1928, D. C., W. D. N. Y., Doc. 1228–F, *American Optical Co.* v. *Design Mfg. Co., Inc.*

1,438,560, E. F. Slattery, Repair link for chains, D. C., W. D. N. Y., Doc. 1036–F, *Johnson Motor Products Co., Inc.*, v. *Flower City Specialty Co. et al.* Dismissed Jan. 10, 1928.

1,450,717, O. E. Cote, Winding mandrel, D. C., W. D. N. Y., Doc. 548–C, *Electrical Products Mfg. Co.* v. *C. A. Branston, Inc.* Dismissed Jan. 10, 1928.

1,474,246, F. L. Donovan, Display device, filed Jan. 17, 1928, D. C. Mass., Doc. E 2912, *F. L. Donovan* v. *City of Combridge.*

1,493,687, W. Lowell, Golfing tee, filed Jan. 16, 1928, D. C. Vt. (Burlington), Doc. E 102, *Nieblo Mfg. Co., Inc.*, v. *The Standard Co., Inc.*

1,520,865, B. F. Heyer, Apparatus and meter for testing batteries, filed June 9, 1927, D. C. N. J., (Trenton), Doc. E 2722, *Heyer Products Co.* v. *Forest Electric Co. et al.* Dismissed Dec. 16, 1927.

1,553,198, H. Stern, Jewelry, D. C., S. D. N. Y., Doc. E 42/42, *H. Stern* v. *M. Alpern.* Dismissed Jan. 30, 1928.

1,560,248, H. E. Kerr, Gas burner, filed Jan. 26, 1928, D. C., S. D. Ohio (W. Div.), Doc. 563, *The Cleveland Gas Burner & Appliance Co.* v. *Midget Gas Stove Co.*

1,564,810, R. F. Angulo, Method of making handmade mission roof tiles, filed Jan. 6, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–22–J, *W. H. Angulo* v. *E. H. Whitaker.*

1,570,382, A. S. Lyhne, Vanity box, filed Jan. 21, 1928, D. C., S. D. N. Y., Doc. E 44/133, *A. S. Lyhne* v. *Sagamor Metal Goods Corp.*

1,572,610, Lacks & Newman, Bracket holder for junction box, D. C. N. J. (Trenton), Doc. E 1893, *W. Lacks et al.* v. *S. Forster (Star Electric Supply Co.).* Interlocutory decree Dec. 23, 1927.

1,578,607, Levy & Wander, Watch, D. C., S. D. N. Y., Doc. E 37/19, *M. H. Levy et al.* v. *Edison Watch Co., Inc., et al.* Patent sustained Jan. 30, 1928.

1,578,908, J. W. Neff, Safety paper, filed Jan. 25, 1928, D. C., W. D. N. Y., Doc. 1234–G, *J. W. Neff* v. *The Todd Co.*

1,593,406, V. Himmer, Loud speaker, filed Jan. 28, 1928, D. C., S. D. N. Y., Doc. E 44/166, *V. Himmer* v. *B. B. L. Speaker, Inc.*

1,594,047, E. F. Clark, Pocket cigar lighter, filed Jan. 25, 1928, D. C., S. D. N. Y., Doc. E 44/151, *W. G. Clark & Co., Inc.*, v. *L. K. Liggett Co.*

1,597,233, R. V. Heuser, Vulcanization of rubber, filed Nov. 23, 1927, D. C. N. J. (Trenton), Doc. E 2959, *A. C. Burrage et al.* v. *Roessler & Hasslacher Chemical Co.*

1,601,575, L. C. Marshall, Piston packing, D. C. Mass., Doc. E 2759, *The Simplex Piston Ring Co. of America, Inc.*, v. *L. & M. Standard Parts Co.* Injunction Jan. 21, 1928.

1,605,445, F. L. Killian, Machine for manufacturing thin rubber articles, filed Jan. 25, 1928, D. C., N. D. Ohio (E. Div.), Doc. 2507, *P. H. Stevens* v. *The Perfection Rubber Co.* Doc. 2508, *P. H. Stevens* v. *The Stardant Rubber Co.*

1,630,085, Humphreys & McCarthy, Linoleum floor covering and process of manufacture, D. C. N. J. (Trenton), Doc. E 2767, *Armstrong Cork Co.* v. *W. & J. Sloane Mfg. Co.* Dismissed Jan. 17, 1928.

1,639,468, Rosenberg & Joha, Cap, D. C., E. D. Wis. (Milwaukee), Doc. 2144, *Reliable Knitting Works* v. *Lucknit Sweater Mills, Inc.* Patent held valid and infringed Jan. 19, 1928.

Re. 14,101, H. E. White, Method of manufacturing expanded-metal structures, D. C., N. D. Ohio (E. Div.), Doc. 847, *General Fireproofing Co,* v. *The Central Steel Co.* Dismissed without prejudice Nov. 9, 1927.

Des. 63,351, E. P. Benois, Bottle, filed Nov. 17, 1927, D. C. N. J. (Trenton), Doc. E 2954, *Coty, Inc.*, v. *T. C. Wheaton Co.*

Des. 64,419, S. Robert, Ash tray, D. C., S. D. N. Y., Doc. E 37/61, *S. Robert* v. *L. Barth & Co., Inc.* Patent held valid and infringed Jan. 30, 1928.

Des. 65,066, M. Klein, Dining-room lighting fixture, filed Nov. 26, 1927, D. C. N. J. (Trenton), Doc. E 2960, *Shapiro & Aronson, Inc.*, v. *S. Pearl (Newark Lighting & Fixture Co.)*

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,439,495, H. M. Williamson, Radio receiving apparatus, decided January 31, 1928, claims 1, 2, 3, 5, 9, 10, and 12.

Pat. 1,544,636, G. E. Stewart, Control system for electric switches, decided February 3, 1928, claims 1 and 5.

Pat. 1,565,550, C. M. Crews, Typewriting machine, decided January 30, 1928, claims 3, 5, 6, and 7.

Pat. 1,629,015, D. F. Axelson, Spare-tire lock, decided February 24, 1928, claim 2.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 185,972, Powdered cocoa, powdered chocolate and cocoa, Royal Cocoa Co., Jersey City, N. J. Registered July 1, 1924. Decided February 3, 1928.

T. M. 225,462, Lubricating oils, Pierce Petroleum Corporation, Wilmington, Del., and St. Louis, Mo. Registered March 22, 1927. Decided February 1, 1928.

Adjudicated Patents.

(C. C. A. Ohio.) The Hammond patent, No. 1,296,182, for single glass for instrument board in automobiles, *Held* invalid, and, if valid, not infringed. *Hammond* v. *Paige-Ohio Co.*, 23 F. (2d) 320.

(C. C. A. Mass.) The Bellis patent, No. 1,491,510, for fused eutectic salt bath, *Held* invalid. *Bellis Heat Treating Co.* v. *Heatbath Corporation*, 23 F. (2d) 239.

(C. C. A. Mass.) The Bellis patent, No. 1,520,744, for bath for heat-treating metals, *Held* invalid. *Id.*

Disclaimer.

1,483,872.—*Albert A. Densmore*, Brookline, Mass. POWER-TRANSMISSION MECHANISM. Patent dated February 19, 1924. Disclaimer filed February 24, 1928, by the patentee.

It is hereby stated that the words "means for positively transmitting motion of rotation from the abutment member to the pinion" as found in lines 10, 11, and 12 of claim 10, and the words "positively to rotate with the driving shaft" as found in lines 10 and 11 of claim 11 means a construction in which the transmission of motion *from the abutment member* to *the pinion* is independent of the function of springs or equivalent yieldable devices; and that the word "positively" as used in line 10 of claim 10 and in line 10 of claim 11 has the meaning, without possibility of substantial relative rotational (angular) slip of the abutment and pinion, and is exclusive of springs or like yieldable elements for transmitting the driving force from the abutment to the pinion; and any broader meaning or interpretation of such words or terms is hereby disclaimed.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 13, 1928.

[VOL. 368. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 251,559. JEDDO-HIGHLAND COAL COMPANY, Jeddo, Pa. Filed July 6, 1927. Under 10-year proviso.

JEDDO

Particular description of goods.—Coal.
Claims use since 1892.

Ser. No. 257,204. TEXAS FARM BUREAU COTTON ASSOCIATION, Dallas, Tex. Filed Nov. 7, 1927.

BURO

Particular description of goods.—Bales of Cotton.
Claims use since Jan. 1, 1922.

Ser. No. 257,466. C. M. COMPANY OF AMERICA, INC., Chicago, Ill. Filed Nov. 12, 1927.

RUBBER FOAM

Applicant disclaims the word "Foam" apart from the mark shown in the drawing.
Particular description of goods.—Cellular Rubber.
Claims use since Nov. 4, 1922.

Ser. No. 258,697. THE S. OBERMAYER CO., Chicago, Ill. Filed Dec. 9, 1927.

PLUM

Particular description of goods.—Parting Compound for Molds.
Claims use since Dec. 19, 1925.

Ser. No. 258,755. MENDEL LAZOW, New York, N. Y. Filed Dec. 10, 1927.

Queen

Particular description of goods.—Chemically-Prepared Skins of Lambs, Calves, Ponies, Kangaroos, Marmots, and Rabbits, Natural, Dressed, and Dyed for Use in Fashioning Coats and Like Wearing Apparel.
Claims use since Dec. 1, 1927.

Ser. No. 258,958. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa. Filed Dec. 15, 1927.

FAMOUS READING ANTHRACITE

The drawing is lined to indicate the color red. Applicant disclaims exclusive use of the words "Famous," "Reading," and "Anthracite."
Particular description of goods.—Coal.
Claims use since Oct. 25, 1927.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 261,137. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Feb. 3, 1928.

Star

Particular description of goods.—Bits, Spurs, Stirrups, Buckles, Spur Straps, Pad Screws, and Metal Harness Trimmings.
Claims use since 1902.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 245,800. FRANK NAPOLI, doing business as Joliet Cleanser Company, Joliet, Ill. Filed Mar. 15, 1927.



No claim is made to the words "Joliet Cleanser" apart from the mark as shown.
Particular description of goods.—Washing Compound.
Claims use since Nov. 1, 1926.

Ser. No. 259,098. SOLOMON D. BENOLIEL, doing business as International Chemical Company, Philadelphia, Pa. Filed Dec. 19, 1927.

John Bright

The trade-mark consists of the name of a deceased celebrity, John Bright, the distinguished English statesman and orator.
Particular description of goods.—Automobile Wash, General Cleanser Consisting of a Dry White Powder Soluble in Water and Used for General Household Cleaning and in Industry, Metal Polish, Floor Cleanser, and Parts Cleanser.
Claims use since Oct. 11, 1927.

Ser. No. 259,237. DAVID & BLUM, INC., New York, N. Y. Filed Dec. 22, 1927.

BUDASOAP
PARIS
NEW-YORK

Applicant makes no claim to the words "Paris" and "New York."
Particular description of goods.—Glove Laundry Soap.
Claims use since Oct. 1, 1927.

Ser. No. 259,582. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

DIAMOND-D-SOLVENT

Applicant disclaims the word "Solvent" appearing in the drawing.
Particular description of goods.—Cleaning Fluids for Removing Paints, Varnish, Etc., from Textile Fabrics.
Claims use since Aug. 23, 1915.

Ser. No. 259,584. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

SOLUENE

Particular description of goods.—Alcohol Soap.
Claims use since Jan. 1, 1926.

Ser. No. 259,585. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

EZANOLE

Particular description of goods.—Dry-Cleaning Soaps.
Claims use since Aug. 23, 1915.

Ser. No. 259,586. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

HEXITE

Particular description of goods.—Neutral Wet-Cleaning Soap.
Claims use since Dec. 1, 1927.

Ser. No. 259,587. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

ZOLVIT

Particular description of goods.—Liquid Soap Compounds.
Claims use since Aug. 23, 1915.

Ser. No. 259,589. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

TERGIT

Particular description of goods.—Detergent and Solvent Compounds.
Claims use since Dec. 1, 1927.

Ser. No. 259,590. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.

ZEETONE

Particular description of goods.—Cleaning Fluids.
Claims use since Jan. 1, 1923.

Ser. No. 260,936. CHARLES W. CLARK, Westfield, Mass. Filed Jan. 31, 1928.

No. 17332

Particular description of goods.—Hand Soap.
Claims use since Sept. 12, 1927.

CLASS 5.

Adhesives.

Ser. No. 258,980. SCRIPTEX INK AND PASTE CO., Philadelphia, Pa. Filed Dec. 15, 1927. Under 10-year proviso.

WILLSTICK

Particular description of goods.—Mucilage.
Claims use since 1864.

Ser. No. 260,805. CONSOLIDATED RENDERING COMPANY, doing business as Atlantic Packing Company, Boston, Mass. Filed Jan. 28, 1928.

ATLANTIC PACKING COMPANY

Particular description of goods.—Glue.
Claims use since about February, 1906.

CLASS 6.

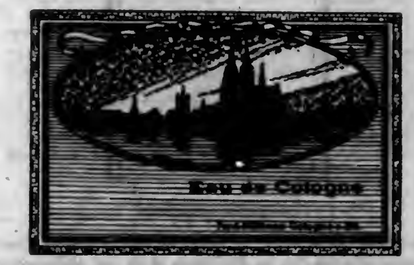
Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 240,300. CHARLES E. FROSST & COMPANY, Montreal, Canada. Filed Nov. 19, 1926.

"TABLETS NUMBER 217"

No claim is made to the words "Tablets Number" apart from the mark as shown in the drawing.
Particular description of goods.—Pharmaceutical Preparation Consisting of Combinations Containing Acetylsalicylic Acid in Tablet Form Used for Headaches, Colds, Neuralgia, and Rheumatism.
Claims use since 1910.

Ser. No. 242,101. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



The words appearing in the drawing, with the exception of applicant's name, are disclaimed apart from the mark as shown. The drawing is lined for the colors black, greenish blue, gold, and silver.
Particular description of goods.—Eau de Cologne Water, Perfumery, Hair Tonic, Shampoo, Pomade, Brilliantine, Cold Cream, Vanishing Cream, Rouge, Face Powder, Baby Powder, Shaving Lotion, Tooth Paste, Mouth Wash, Head Tonics, and Ethereal Oils for Perfumes.
Claims use since March, 1926.

Ser. No. 243,885. RHODIA CHEMICAL COMPANY, New York, N. Y. Filed Feb. 5, 1927.

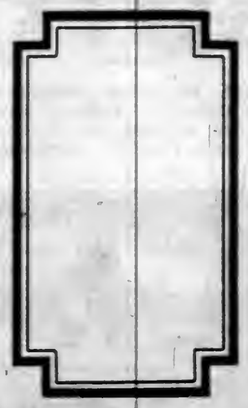
R
CO
C

Particular description of goods.—Natural or Synthetic Aromatic Oils for Use as Perfumes or in the Manufacture of Perfumes or for Perfuming Soaps, Photographic Chemi-

cals; Medical Chemicals—Namely, Antipyrine, Pyramidon, Piperazine Hydrate, Resorcinol, Ethylchloride (for Anesthesia), Guaiacol Carbonate, Saccharin (Soluble and Insoluble); Technical Chemicals—Namely, Dimethylsulphate, Cellulose Acetate, Benzyl Alcohol, Hydrogen Peroxide, Formic Acid, Glauber Salts, Potash Alum, Ammonium Alum, Barium Chloride, Aluminum Sulphate, Dibasic Sodium Phosphate, Tribasic Sodium Phosphate, Yellow Prussiate of Soda, Yellow Prussiate of Potash, Pyridine, Aldehol, Triphenyl Phosphate.

Claims use since June 1, 1926.

Ser. No. 243,886. RHODIA CHEMICAL COMPANY, New York, N. Y. Filed Feb. 5, 1927.



Particular description of goods.—Natural or Synthetic Aromatic Oils for Use as Perfumes or in the Manufacture of Perfumes or for Perfuming Soaps, Photographic Chemicals; Medical Chemicals—Namely, Antipyrine, Pyramidon, Piperazine Hydrate, Resorcinol, Ethylchloride (for Anesthesia), Guaiacol Carbonate, Saccharin (Soluble and Insoluble); Technical Chemicals—Namely, Dimethylsulphate, Cellulose Acetate, Benzyl Alcohol, Hydrogen Peroxide, Formic Acid, Glauber Salts, Potash Alum, Ammonium Alum, Barium Chloride, Aluminum Sulphate, Dibasic Sodium Phosphate, Tribasic Sodium Phosphate, Yellow Prussiate of Soda, Yellow Prussiate of Potash, Pyridine, Aldehol, Triphenyl Phosphate.

Claims use since June 1, 1926.

Ser. No. 251,635. C. DE WITT THOMAS, doing business as The Menthopine Co., Gardena, Calif. Filed July 7, 1927.

MENTHOPINE-RUB



The signature forming a feature of the mark is that of applicant. The words "Menthopine-Rub" are hereby disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Ointment and Liniment for Use as an Aid in Inflammation and Congestion, Such as Asthma, Bronchitis, Catarrh, Chest Colds, Croup, Head Colds, Pneumonia, Sore Throat, Whooping Cough, Headache, Neuralgia, and Rheumatic Pains.

Claims use since Feb. 1, 1927.

Ser. No. 253,945. THE HELENE CO., Chicago, Ill. Filed Aug. 25, 1927.

Chek-it

Particular description of goods.—Material to Prevent the Continuation of Runs in Hosiery, Silks, Lingerie, and Other Garments.

Claims use since June, 1927.

Ser. No. 254,250. NOVADEL PROCESS CORPORATION, Buffalo, N. Y. Filed Sept. 1, 1927.

LUCIDOL

Particular description of goods.—Benzoil Peroxide and Other Solid Organic Peroxides Soluble in Oil and Suitable for Use in Bleaching of Oils, Fats, Waxes, and Similar Products.

Claims use since about August, 1924.

Ser. No. 255,704. EAGLE CHEMICAL COMPANY, Milwaukee, Wis. Filed Oct. 6, 1927.

Swurlit

Particular description of goods.—Stain and Incrustation Solvent and Disinfectant for Use with Closet Bowls and Traps.

Claims use since on or about Sept. 20, 1927.

Ser. No. 256,087. THE RADIUM EMANATION CORPORATION, New York, N. Y. Filed Oct. 14, 1927.

PLATRADON

Particular description of goods.—Radium, Including Radium Emanation.

Claims use-since Feb. 1, 1926.

Ser. No. 256,489. HERMAN SMITHLINE, doing business as Charmozol Chemical Co., New York, N. Y. Filed Oct. 22, 1927.

CHARMOZOL



Particular description of goods.—Tissue Builder—Namely, Preparation for Building Tissue; Cold Cream, Vanishing Cream, Bleach Cream, Lemon Cream, Brilliantine; Correct Tabs—Namely, Preparation for Purifying the Blood.

Claims use since Sept. 2, 1926.

Ser. No. 257,856. CHARLES JOHN CLARKE, Aberdeen, Wash. Filed Nov. 21, 1927.

Bio-Chem

Particular description of goods.—Dental Cream, Emulsion Made from Colloidal Natural Minerals for Internal Use in Indigestion and Other Troubles, Mineral Powder Which with the Addition of Water Becomes a Cream or Emulsion for Both External and Internal Use in Inflamed and Other Abnormal Conditions, Ointment for External Use for Abrasions, Skin and Scalp Troubles, Pile Suppositories, Pyorrhea Powder, Soapless Shampoo Powder, Toilet Cream, and Toilet Lotion.

Claims use since Nov. 1, 1926.

Ser. No. 257,955. Dr. M. ALBERSHEIM, Frankfort-on-the-Main, Germany. Filed Nov. 23, 1927.

DULMIN

Particular description of goods.—Perfumery, Hair Tonic, Mouth Wash, Rouge, Face Powder, Lip Sticks, Face Creams, and Depilatories.

Claims use since 1911.

Ser. No. 258,030. CHARLES T. JOHNSTONE, doing business as The Kapex Company, New York, N. Y. Filed Nov. 25, 1927.

KAPEX

The drawing is lined for the color blue.

Particular description of goods.—Preparation for Colds, Catarrh, Simple Sore Throat, and Asthma.

Claims use since Feb. 15, 1927.

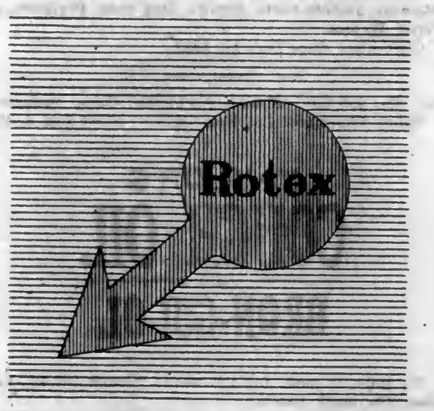
Ser. No. 258,336. MRS. MARTIN REGENSBURGER, doing business as La Diva Products Company, San Francisco, Calif. Filed Dec. 2, 1927.



Particular description of goods.—Preparations for the Treatment and Care of the Human Skin—Namely, Hand Lotions and Skin Cream.

Claims use since Feb. 10, 1927.

Ser. No. 259,461. ROTEX SURGICAL APPLIANCE CO., Detroit, Mich. Filed Dec. 29, 1927.



In the drawing the arrow is lined to indicate the color red, and this arrow is upon a background lined to indicate the color blue.

Particular description of goods.—Antiseptic Powder.

Claims use since Nov. 1, 1927.

Ser. No. 259,486. FELTON CHEMICAL COMPANY, INC., Brooklyn, N. Y. Filed Dec. 30, 1927.

Aquarome

Particular description of goods.—Aldehydes Suitable for Perfuming Purposes, Alcohols Suitable for Perfuming Purposes, Natural and Synthetic Essential Oils Suitable for Perfuming Purposes, Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Nov. 9, 1925.

Ser. No. 259,487. FELTON CHEMICAL COMPANY, INC., New York, N. Y. Filed Dec. 30, 1927.

Colorome

Particular description of goods.—Aldehydes Suitable for Perfuming Purposes, Alcohols Suitable for Perfuming Purposes, Natural and Synthetic Essential Oils Suitable for Perfuming Purposes, Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams,

Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Dec. 17, 1927.

Ser. No. 259,700. NORMA W. TATEM, doing business as Tatem Pharmacal Co., Norfolk, Va. Filed Jan. 4, 1928.

TAYLOR'S
COUGH OIL
OR
BRON-GUI-OL

No claim is made for the words "Cough Oil or" apart from the mark shown.

Particular description of goods.—Medicine for Use in the Treatment of Coughs, Colds, Grippe, Bronchial Irritation, Consumption, and Pneumonia.

Claims use since July 21, 1926.

Ser. No. 259,734. JAMES J. LARMOUR, doing business as Larmour Products, East Orange, N. J. Filed Jan. 5, 1928.

Cornpatch

Particular description of goods.—Medicated Plasters for Treatment of Corns.

Claims use since Dec. 9, 1926.

Ser. No. 259,821. REDUC-O-TAB CO., New York, N. Y. Filed Jan. 7, 1928.

REDUC-O-TAB

Particular description of goods.—Pharmaceutical Preparation for the Gradual Reduction in the Weight of the Body of Corpulent or Obese Persons.

Claims use since Jan. 1, 1927.

Ser. No. 259,827. SYRUP PRODUCTS COMPANY, INC., New York, N. Y. Filed Jan. 7, 1928.

AUNTY FREEZ



The portrait appearing on the drawing is fanciful.

Particular description of goods.—Denatured Alcohol.

Claims use since Dec. 10, 1927.

Ser. No. 259,969. RENWICK T. SENIOR, doing business as Senex Chemical Company, Montgomery, N. Y. Filed Jan. 11, 1928.

SENEX

Particular description of goods.—Disinfectants and Insecticides.

Claims use since on or about Oct. 1, 1926.

Ser. No. 259,989. BELL CHEMICAL CO., INC., Chicago, Ill. Filed Jan. 12, 1928.

BEL-LITE

Particular description of goods.—Liquid Fluid for Filling Cigar and Cigarette Lighters.

Claims use since July 1, 1927.

Ser. No. 260,033. SALOL CHEMICAL CO., Chicago, Ill. Filed Jan. 12, 1928.

Protecto Spray

The word "Spray" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.

Particular description of goods.—Vaginal Douche.

Claims use since Sept. 1, 1927.

Ser. No. 260,034. THE SCHRATZ CHEMICAL COMPANY, Detroit, Mich. Filed Jan. 12, 1928.



Particular description of goods.—Dry Crystalline Carbonate of Soda Known as Bath Flakes to be Dissolved in the Bath Water.

Claims use since Apr. 25, 1927.

Ser. No. 260,273. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Jan. 18, 1928.

RUBAD

Particular description of goods.—Corn and Bunion Plasters.

Claims use since about February, 1919.

Ser. No. 260,286. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Jan. 18, 1928.

HEMATACOL

Particular description of goods.—Medicinal Preparation for Treating Cases of Malnutrition, Anemia, and General Debility.

Claims use since Nov. 16, 1927.

Ser. No. 260,320. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Jan. 19, 1928.

Entodon

Particular description of goods.—Preparation for the Treatment of Secondary and Tertiary Syphilis, Angina Pectoris, Bronchial Asthma, and Arteriosclerosis.

Claims use since about March, 1924.

Ser. No. 260,483. THEODORE ANNELIUS, New York, N. Y. Filed Jan. 23, 1928.

ASAIS

Particular description of goods.—Cold Cream.

Claims use since September, 1927.

Ser. No. 260,627. COTY, INC., New York, N. Y. Filed Filed Jan. 25, 1928.

L'AIMANT
(MAGNET)



Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Dusting Powder, Face Creams, Sachet, Brilliantine, Lotions for the Skin and Hair, Rouge, Lip Sticks, Bath Salts, and Eau Vegetal.

Claims use since Oct. 20, 1927.

Ser. No. 260,663. WORLD'S DISPENSARY MEDICAL ASSOCIATION, Buffalo, N. Y. Filed Jan. 25, 1928.



No claim is made herein to the word "Anuric" except in association with the other features of the mark. The trade-mark is lined to indicate the color lavender or purple.

Particular description of goods.—Stimulant Diuretic in Tablet Form for the Kidneys.

Claims use since Jan. 12, 1928.

Ser. No. 260,668. AMERICAN BLUING COMPANY, Buffalo, N. Y. Filed Jan. 26, 1928.

BEAR



Particular description of goods.—Ammonia.

Claims use since Jan. 1, 1928.

Ser. No. 260,674. COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y. Filed Jan. 26, 1928.

Seventeen

Particular description of goods.—Perfume, Toilet Water, Brilliantine, and Face Powder.

Claims use since Jan. 9, 1928.

Ser. No. 260,689. LUYTIES PHARMACAL COMPANY, St. Louis, Mo. Filed Jan. 26, 1928.

NINETY "99" NINE

Particular description of goods.—Preparation for the Relief of Coughs, Colds, Grip, and Acute Fevers.
Claims use since Apr. 20, 1927.

Ser. No. 260,745. CHARLES NESSLER, doing business as C. Nestle Co., New York, N. Y. Filed Jan. 27, 1928.

Nesteen

Particular description of goods.—Hair Dyes.
Claims use since about May, 1926.

Ser. No. 260,746. CHARLES NESSLER, doing business as C. Nestle Co., New York, N. Y. Filed Jan. 27, 1928.

NEXIDE

Particular description of goods.—Lotions for Bleaching and Softening the Hair.
Claims use since about September, 1926.

Ser. No. 260,830. G. U. MATTHEWS, Centralia, Wash. Filed Jan. 28, 1928.

RE-O-LIN

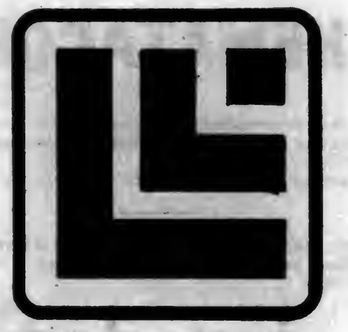
Particular description of goods.—Healing Ointment.
Claims use since Nov. 30, 1927.

Ser. No. 260,873. GEORGE W. CARNAICK, doing business as Krinogen Company, New York, N. Y. Filed Jan. 30, 1928.

KRINOGEN

Particular description of goods.—Medicinal Product to Stimulate the Growth of the Hair.
Claims use since Jan. 16, 1928.

Ser. No. 261,068. LUCIEN LELONG, INC., New York, N. Y. Filed Feb. 2, 1928.



The figure shown consists of the letters "L. L."
Particular description of goods.—Toilet Waters, Hair Lotions, Complexion Powders, Creams for the Skin, Stringent Lotions for the Skin, Eau de Cologne, Liquids for Softening and Nourishing the Skin, Rice Powder, Compacts, Beauty Cream, Massage Cream, Rouge, Lip Paste and Lip Sticks, Eyebrow Pencils, Oil for Removing Make-Up Preparations, Solid or Liquid Substances for Imparting a Gloss to the Hair, and Bath Salts.
Claims use since May 1, 1927.

Ser. No. 261,079. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Feb. 2, 1928.

POLYTEX

Particular description of goods.—Coal-Tar Colors.
Claims use since Mar. 3, 1927.

Ser. No. 261,080. SOLARINE COMPANY, Baltimore, Md. Filed Feb. 2, 1928.

it

Particular description of goods.—Chemical Preparation for Softening or Neutralizing the Alkaline Content of Water and for Removing Grease, Rust, and Other Stains from Fabrics and Other Substances.
Claims use since Jan. 18, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 254,644. NITEDALS TÆNDSTIKFABRIK, Gronvold, near Oslo, Norway. Filed Sept. 12, 1927.

Running Horse

Particular description of goods.—Matches.
Claims use since June, 1927.

CLASS 11.

Inks and Inking Materials.

Ser. No. 259,810. WILHELM KORESKA, Vienna, Austria. Filed Jan. 7, 1928.



Particular description of goods.—Carbon Papers, Typewriter Ribbons, Inks for Rubber or Metal Stamp Pads, Inks for Telegraph Apparatus, Duplicating Inks, Hectographing Inks, and Indian Inks.
Claims use since Oct. 22, 1927.

CLASS 12.

Construction Materials.

Ser. No. 257,574. BROOKLYN TILE SUPPLY CORP., Brooklyn, N. Y. Filed Nov. 15, 1927.

BROOKLYN TILE SUPPLY CORP.

Particular description of goods.—Floor and Wall Tiles, Marble Base, Marble Slabs, and Thresholds for Doors.
Claims use since December, 1925.

Ser. No. 258,840. THE STANDARD LIME & STONE COMPANY, Martinsburg, W. Va., and Baltimore, Md. Filed Dec. 12, 1927.



No claim is made for the words "Portland Cement."
Particular description of goods.—Portland Cement.
Claims use since Nov. 8, 1927.

Ser. No. 259,063. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Dec. 17, 1927.

ASBESTIC



No claim is made to the word "Asbestic" apart from the mark as shown in the drawing.
Particular description of goods.—Wall Plaster Composed of a Mixture of Crushed Serpentine Rock and Short-Fibered Asbestos.
Claims use since Dec. 2, 1927.

Ser. No. 259,448. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Dec. 29, 1927.

Asbestile

Particular description of goods.—Asbestos Wood Composed of Cement and Asbestos.
Claims use since July 29, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 259,798. DIAMOND MOTOR PARTS COMPANY, St. Cloud, Minn. Filed Jan. 7, 1928.

DIAMOND MOTOR PARTS COMPANY

No claim is made to the representation of a bolt apart from the mark shown.

Particular description of goods.—Axle and Spring Bolts.

Claims use since February, 1923.

CLASS 15.

Oils and Greases.

Ser. No. 248,652. HERRING-WISSLER COMPANY, Des Moines, Iowa. Filed Feb. 1, 1927.

Hermoline

Particular description of goods.—Lubricating Oils and Greases.

Claims use since 1912.

Ser. No. 259,618. CALUMET REFINING COMPANY, Chicago, Ill. Filed Jan. 3, 1928.

PRACTICOL
THE PRACTICAL MOTOR OIL

No claim is made to the words "The Practical Motor Oil" apart from the mark shown.

Particular description of goods.—Lubricating Oils.

Claims use since June 10, 1927.

Ser. No. 260,553. BRUCE LUBRICATING COMPANY, Providence, R. I. Filed Jan. 24, 1928.

BRULUCO

Particular description of goods.—Lubricating Oils and Greases.

Claims use since Jan. 3, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 231,981. CONSOLIDATED PAINT CO., Los Angeles, Calif. Filed May 21, 1926.

CONCO

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Paint Enamels, Varnishes, Paint Oils, Oil Stains, and Oil Colors.

Claims use since June, 1923.

Ser. No. 244,204. GUSTEN A. ANDERSON, doing business as Anderson Products Co., New York, N. Y. Filed Feb. 11, 1927.

Polish Master

No claim is made for the word "Polish" apart from the mark as shown in the drawing.

Particular description of goods.—Automobile and Furniture Polishes.

Claims use since May, 1926.

Ser. No. 245,231. SOCIETE DES OCRES DE FRANCE, Auxerre, France. Filed Mar. 4, 1927.

S.O.F.

Particular description of goods.—Ocres (Ochres) in the Nature of Paint Pigments.

Claims use since 1903.

Ser. No. 255,450. LEHMAN BROS., INC., Jersey City, N. J. Filed Sept. 30, 1927.

USA-COTE

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Paint Enamels, Varnishes, Prepared Shellacs, and Waterproofing Paints.

Claims use since Sept. 16, 1927.

Ser. No. 257,104. HENRY LEDERER AND COMPANY, Chicago, Ill. Filed Nov. 5, 1927.

H-L

The lining on the drawing is for shading purposes only.

Particular description of goods.—Paint and Prepared Paint for Varnish of Floors, Woodwork, and All Interiors.

Claims use since July 1, 1925.

Ser. No. 259,528. B-C POLISH COMPANY, Atlanta, Ga. Filed Dec. 31, 1927.

EVER-GLOSS

Particular description of goods.—Polish for Automobiles, Pianos, Furniture, and All Painted and Varnished Surfaces.

Claims use since Jan. 3, 1927.

Ser. No. 260,223. GOHEEN CORPORATION OF NEW JERSEY, Newark, N. J. Filed Jan. 17, 1928.

BRITENOL

Particular description of goods.—Ready-Mixed Paint, Specifically Paint for Interior Use.

Claims use since on or about Jan. 3, 1927.

Ser. No. 260,524. TONY JOHN PETERSON, doing business as Tamms Silica Company, Chicago, Ill. Filed Jan. 23, 1928.

TAMTEX

Particular description of goods.—Powdered Cement Paint.

Claims use since Oct. 7, 1927.

CLASS 17.

Tobacco Products.

Ser. No. 260,531. ROSEDOR CIGARETTE CO., New York, N. Y. Filed Jan. 23, 1928.

Menthorets

Particular description of goods.—Cigars, Cigarettes, and Smoking Tobacco.

Claims use since Aug. 1, 1927.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 248,923. THE PERFECTION MANUFACTURING COMPANY, St. Louis, Mo. Filed May 12, 1927.

Rock-A-Bye

Particular description of goods.—Baby Surreys, Baby Roadsters, Baby Carriages, Baby Toddlers with Detachable Tongues for Use as Vehicles.

Claims use since July, 1918.

Ser. No. 258,455. OTTO BRINKMANN, Astoria, N. Y. Filed Dec. 5, 1927.

SKI-ADS

Particular description of goods.—Aerial Advertising Devices—Namely, Captive Balloons and Blimps.

Claims use since Oct. 1, 1927.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 260,163. CONOOLEUM-NAIRN, INC., Philadelphia, Pa. Filed Jan. 16, 1928.

BONDOLEUM

Particular description of goods.—Prepared Floor Coverings of the Oiled-Cloth Type.

Claims use since Jan. 12, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 242,837. THE KODEL RADIO CORPORATION, Cincinnati, Ohio. Filed Jan. 14, 1927.

Transifier

Particular description of goods.—Power-Current-Supply Units for Radio Apparatus.
Claims use since Dec. 1, 1925.

Ser. No. 245,941. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 17, 1927.

CONSOLE

Particular description of goods.—Electric Cooking Stoves.
Claims use since Mar. 30, 1926.

Ser. No. 251,736. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y. Filed July 9, 1927.

GraybaR

The lines in the bar above the word "Graybar" indicate shading only.
Particular description of goods.—Telephone Annunciators, Residence Annunciators, Burglar-Alarm Annunciators, Hotel Annunciators, Hospital Annunciators, and Annunciators Used in Connection with Interphones; Autotransformers, Electric Batteries and Electric-Battery Holders, Battery Lamps and Lanterns, Electric Bells, Bell-Ringing Transformers, Buzzers, Circuit Breakers, Electric Conduits, Duct Logs for Electrical Conductors, Conduits and Fittings, Electric Dishwashers, Electric Fans, Electric-Lighting Fixtures, Electric Floor Polishers, Electric Hammers; Reflector Heaters, Air Heaters, and Water Heaters; Electric Incandescent Lamps, Insulating Compound, Electric Insulators and Supports, Interphones, Electric-Arc Lamps, Line Poles, Loud-Speaking Telephone Systems and Apparatus, Power Boards, Electric Power and Light Outfits, Electric Power Switches, Electric Pumps, Electric Ranges, Battery Charging Rectifiers, Electric Sewing Machines, Code Calling Systems for Industrial Plants and the Like, Sockets, Electric Lamp Sockets, Electric Stoves, Electric Tape, Telephone Transmitter Arms and Brackets, Toasters, Electric Transformers, Electric Utility Motors, Wall Plates for Switches and Electrical Appliances, Electric Warming Pads, Electrical Water Pumping Systems, and Water Heaters.
Claims use since January, 1926.

Ser. No. 253,669. SOCIÉTÉ DES MAGNÉTOS R. B., Paris, France. Filed Aug. 18, 1927.

VOLTEX

Particular description of goods.—Magnetos and Electric Ignition Systems or Units.
Claims use since Oct. 15, 1926.

Ser. No. 258,781. WIRELESS RADIO CORPORATION, Brooklyn, N. Y. Filed Dec. 10, 1927.

GLO-DIAL

No claim is made to the exclusive use of the word "Dial" apart from the mark shown in the drawing.
Particular description of goods.—Dials and Controls for Radiopanels.
Claims use since about Sept. 1, 1926.

Ser. No. 259,632. PAUL KOHLOFF, Marmaroneck, N. Y. Filed Jan. 3, 1928.

TRADE MARK SPRING-O-STRIP CONNECTOR

No claim is made to the words "Trade-Mark," "Spring-Strip," "Connector," and "Patented Dec. 15, 1925" and to the representation of the goods apart from the mark shown on the drawing.
Particular description of goods.—Spark-Plug Connectors.
Claims use since Dec. 18, 1925.

Ser. No. 259,649. SARVAS ELECTRIC COMPANY, INC., New York, N. Y. Filed Jan. 3, 1928.

TRITOX

Particular description of goods.—Automatic Trickle Charger for Storage Batteries.
Claims use since February, 1927.

Ser. No. 259,717. ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio. Filed Jan. 5, 1928.

Premier Pic-up

Particular description of goods.—Electric Vacuum Cleaners and Parts Thereof.
Claims use since Sept. 7, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 247,237. S. M. WOOD, Jr., San Francisco, Calif. Filed Apr. 9, 1927.

SIL GUT LYNE

Particular description of goods.—Fishing Lines.
Claims use since Dec. 27, 1926.

Ser. No. 255,664. JOHN C. MEAD, Palmyra, Mo. Filed Oct. 5, 1927.

LUCKY LONE STAR LINDY

Particular description of goods.—Card Game.
Claims use since Sept. 8, 1927.

Ser. No. 259,840. THE BURKE GOLF COMPANY, Newark, Ohio. Filed Jan. 9, 1928.

"PROGO"

Particular description of goods.—Golf Clubs.
Claims use since Nov. 1, 1927.

Ser. No. 259,920. MARY LOUISE MANCILL, Philadelphia, Pa. Filed Jan. 10, 1928.

WHIPPET

Particular description of goods.—Table Game Played with Pieces.
Claims use since Dec. 27, 1927.

Ser. No. 260,037. JOHN F. TOOHEY, doing business as Toohey Mfg. Co., Troy, N. Y. Filed Jan. 12, 1928.

ARCHERY GAME

No claim is made to the words "Archery" and "Game" apart from the mark as shown.
Particular description of goods.—Archery Games.
Claims use since Nov. 10, 1927.

Ser. No. 260,418. ANDREW ALBRIGHT, Jr., Newark, N. J. Filed Jan. 21, 1928.

FLYING FOOL

Particular description of goods.—Golf Balls.
Claims use since May, 1927.

Ser. No. 260,419. ANDREW ALBRIGHT, Jr., Newark, N. J. Filed Jan. 21, 1928.

RUBBERSET

Particular description of goods.—Golf Balls.
Claims use since May, 1927.

Ser. No. 260,691. JOHN F. MEYER, doing business as The Exhibit Supply Company, Chicago, Ill. Filed Jan. 26, 1928.

BATTER-UP

Particular description of goods.—Coin-Operated Amusement Machines.
Claims use since Jan. 14, 1928.

Ser. No. 261,071. JOHN F. MEYER, doing business as The Exhibit Supply Company, Chicago, Ill. Filed Feb. 2, 1928.

KNOCKOUT

Particular description of goods.—Coin-Operated Amusement Machines.
Claims use since Jan. 12, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 235,488. LIMITED COMPANY FORMERLY THE ŠKODA-WORKS, PLZEŇ, Prague-Smichov, Czechoslovakia. Filed Aug. 2, 1926.



Particular description of goods.—Steam Accumulators, Steam Engines, Steam Hammers, Explosion Motors of All Designs, Machine Plants for River Steamers and Seagoing Vessels, Steam Turbines, Water Turbines, Steam Condensers, Piston Compressors for Compressing Steam, Air, or Other Liquid; Rotary Compressors for Compressing Steam, Air, or Other Liquid; Road Rollers, Lifting and Transporting Machinery, Excavators, Hydraulic Presses and Hydraulic Plants, Printing Presses, Beet Dryers Utilizing the Smoke Gases of the Boilers, Plants for Fast Drying of Sugar Loaves and Cubes with Hot-Air Circulation, Drying Machines in the Textile Industry, Drying Apparatus with Drums for Industrial Distilleries, Drying Plants for Coal and Drying Apparatus in Pulverized Coal Equipment, Drying Plants for Hops; Transmission Parts—Namely, Gears for All Purposes, Spur Wheels and Bevel Wheels with Straight, Helical, or Double-Helical Teeth, Gears with Internal Teeth, Racks, Chain Wheels, Gear Boxes; Cream Separators; Apparatus and Plants Necessary for the Manufacture and Working of Grease—Namely, Bone Crushers, Grease Collectors, Coolers, Grease-Refining Apparatus, Plants for Lixiviating Solutions of Glue, Vacuum Apparatus for Glue, Refining Apparatus for Glue, Cooling Tables for Slabs of Glue and Drying Chambers for the Same, Copper Autoclaves, Iron Autoclaves with Copper Liners and Rotating Autoclaves for Fat Splitting, Separators and Washing Machines for Fatty Acids, Refining and Mixing Apparatus, Mixing Apparatus for Fatty Acids, Vacuum Distillation Apparatus for Stearin, Melting and Mixing Apparatus for Pure Stearin, Hydraulic Presses for Cold and Hot Stearin, Evaporating Plants for Glycerine with Precipitation and Recovery of Sodium Chloride, Distilling Apparatus for Pure Glycerine, Extraction Apparatus for Stearin, Boiling Vessels, Cooling Machines, Cutting Machines, Drying Chambers, Machines for Producing Soap Shavings, Mixing Apparatus and Stamping Machines for Toilet Soap, Melting Pans and Presses for Fat Residues, Machines for Making Margarine and Butter, Machines for Producing Lubricants; Apparatus for Manufacturing and Working Vegetable and Mineral Oils—Namely, Cleaning and Sorting Devices for Seeds, Machines for Removing Husks and the Like, Rolling Mills for Seeds, Roasting Apparatus for the Same, Hydraulic Presses for Oil, Machines for Moulding Fodder, Cutting Machines for Fodder, Mills for Fodder, Filter Presses for Oil, Distilling and Refining Apparatus for Oil, Solidifying Apparatus for Oil, Refining Apparatus for Edible Oil, Extraction Apparatus for Seeds and Fodder, Distilling Apparatus for Crude Oil, Refining Apparatus for Benzine, Filter Presses for Paraffin and Ceresine, Mixing Apparatus for Paraffin, Autoclaves for the Distillation of Petroleum Under High Pressure, Hydraulic Presses for Paraffin and Ceresine, Chambers for Separating Oil from Paraffin, Melting Pans for Paraffin and Ceresine, Distilling Apparatus for Tar Residues for the Production of Asphalt; Apparatus Necessary for Working Resin, Rubber, and Inorganic Colors—Namely, Melting Apparatus for Resin, Boilers for Resin, Turpentine Coolers, Varnish Boilers, Portable Storage Receptacles, Filter Presses for Turpentine, Vulcanizing Boilers, Grinding Machines for Paints, Kneading Machines for Enamel Paints, Disinfecting Devices for Hospitals, Municipal Disinfecting Stations, Disinfecting Apparatus for Railway Vehicles; Apparatus Necessary for the Chemical Treatment of Wood—Namely, Copper Pickling Apparatus for Wood in the Production of Paper, Iron Pickling Apparatus with Copper Liners, Cellulose Boilers, Plants for Impregnating the Wood of Railway Sleepers, Telephone and Telegraph Poles with Tar Oils and Cyanogen Compounds, Distilling Vessels, Coolers, Vacuum Apparatus for Extracting Acetic Acid, Distilling and Refining Apparatus for Pure Acetic Acid, Mixing Devices for Calcium Acetate, Machines for Manufacturing Sulphuric Acid, Vacuum Plants for Utilising the Waste Liquor from Paper and Cellulose Factories, Vacuum Apparatus for Potash Lye; Apparatus Necessary for Manufacturing Explosives—Namely, Autoclaves, Nitration Centrifuges, Mixing Apparatus, Vacuum Drying Drums, Graphiting Cylinders, Arrangements for Removing the Water from Nitrocellulose; Apparatus and Machines for Evaporating Brine and for Ammonium-Carbonate Works—Namely, Boiling Vessels, Refining Plants, Filtering Apparatus, Vacuum Stations with Separating Apparatus for Salt Crystals, Refining and Sorting Apparatus, Vacuum Apparatus for Concentrating Soda Lye, Ammonia Coolers, Apparatus for Leaching Out Salts, Mixing Apparatus, and Cast-Iron Distilling Columns for Soda Solutions; Apparatus and Machines for Manufacturing Artificial Manure—Namely, Sorting Drums, Dissolving Apparatus for Phosphates, Grinding and Sorting Drums for Bone Meal, Drying Chambers for Lixiviated Bones; Apparatus Necessary for Manufacturing Pasteboard—Namely, Impregnating Pans Heated by Steam or Directly Heated by Coal, Distilling Vessels for Tar, Refining Apparatus for Light and Heavy Oils; All Plants for Tanneries—Namely, Sorting Drums for Wood Cut in Pieces, Bark, and Acorns, Copper Vacuum Apparatus for Concentrating Tannin Solutions, Copper Drying Drums for Tannin Powder, Vacuum Drying Chambers for Tannin Powder; All Machinery for Breweries, Distilleries, Sugar Factories, for Coal and Other Mines, Gearing Rolls for Rolling-Mill Drive of Cast or Forged Steel with Double Helical Teeth, Large Gear Wheel Drives for Rolling Mills; Toothed Rings and Pinions for Steering Gears for Trucks, Automobiles, and Coaches; Complete Change and Differential Gears for Automobiles and Lorries, Reduction Gears for Marine Turbines, Bevel Wheels with Citroën Teeth for Water Turbines, Gear Wheels with Hardened and Ground Pinions Cut According to the System Employed for Tramway Motors, Complete Gear-Wheel Drives for Electric Locomotives; Ground and Hardened Driving Wheels for Lathes, Planing Machines, and Milling Machines; Transmission Gear for Navigable Balloons and Large Aircraft; Reduction Gearing for Textile Machinery, Tractors, and Motor Ploughs; Gas Cooling and Washing Apparatus, Gas Cleaners, and Gas Blowers (Compressors); Finished Castings, Being Parts for General Machine Construction—Namely, Rotors, Rolls, Levers, Riveting-Machine Frames, Eccentrics, Frames, Template Pipes, Hammer Monkeys, Anvil Blocks, Hammer Rests, Hammer Faces, Anvil Tables, Spindle Couplings, Claw Couplings, Roll-Housing Bearers, Cam Rollers with Cast Double Helical Teeth, Tables, Flywheels, Gear Wheels, Grooved Rollers, Calibrated Rolls, Cylinder Frames, Charges, Clay Cutters, Conveying-Worm Accessories, Conveying Worms, Edge-Mill Dishes, Milling Rings in High Percentage Very Tough and Resistant Manganese Steel or Chrome Steel, Breaking Jaws and Side Wedges in Manganese Steel, Crusher Beds, Trays, Rocker Arms, Crushing Cylinders and Cones, Smooth and Ribbed Cylinder Casings in Manganese Steel, Mixing Rolls, Kneading Rolls, Wing Rolls in Manganese Steel, Conveying Worms, Shaft Quadrants, Component Parts for Steam Turbines in Cast Steel, Rotors with Cast-In Blades, Riveting-Machine Bows and Uprights, Press Columns, Press Cylinders, Pilger Rolls in Special Steel for the Rolling of Seamless Tubes, Gear Wheels with Cast Teeth, Switches, Parts of Dredgers, Plough Bodies and Sundry Castings for Agricultural Machinery, Rope Forks and Rope-Fork Bearings, Component Parts of Electric Steel for Motor-Plough Building, Diesel-Motor Columns, Frames, Steam Cylinders, Valves for Steam-Engine Construction, Supports, Hammer Columns, Anvil Beds, Frames, Cylinders for Gas Engines, Steam Cylinders, All Cast-Iron Locomotive Parts, Automobile Cylinders, Chill Moulds of Every Kind up to 85 Tons in Weight, Connecting Rods, Crossheads, Complete Shaftings, Crank Shafts, Transmission Shafts, Propeller Shafts, Crossheadings, Connecting Rods, Piston Rods for Ships' Engines, Crank Shafts and Connecting Rods for Compressors and Diesel Engines, Turbine Wheels, Drums, and Rings up to the Largest Dimensions, Turbine Discs, Turbine Shafts, Rotors, Rotor Shafts, Flywheel Shafts; Small Forge and Spindle Pressing Plant—Namely, Buffers, Buffer Rods, Couplings, Balls for Cement Mills, Cramps, Striking Cramps, Spanners, Forged Vices, Styrian Type, Aluminum Brass and Bronze Alloy Castings for Driving-Gear Boxes, Pistons for Explosion Motors, and Component Parts for Water Turbines in Cast Steel.

Claims use since Mar. 26, 1925.

Ser. No. 255,807. GOTTHARD ALLWEILER PUMPEN FABRIK AKT.-GES., Radolfzell, and Baden, Germany. Filed Oct. 8, 1927.



The words "Schutzmarke" and "Pumpe" appearing in the drawing of the mark are disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Pumps for Household and Agricultural Uses and for Use in Horticulture and the Arts, and Parts of Pumps and Accessories for Pumps as Follows—viz, Pump Casings, Pump Lids, Pump Receptacles, Pump Boxes, Pump Levers, Pump Cylinders, Pump Pistons, Pump-Piston Rods, Pump Discharging Means, Pump Valves, Pump Handles, Pump Air Chambers, Pump Wheels, Pump Plungers, Agitators, Particularly for Sewage Pumps.

Claims use since June 10, 1886.

Ser. No. 256,533. THE NASH ENGINEERING COMPANY, South Norwalk, Conn. Filed Oct. 24, 1927.



Particular description of goods.—Air Compressors, Vacuum Pumps, Vacuum Heating Pumps, Boiler-Feed Pumps, Turbines and Turbine Engines, Centrifugal Pumps, Flat Box Pumps, Sewage Ejectors, Bilge Pumps, and Sump Pumps, Gas Compressors, Pump Strainers, Check Valves Used as a Part of the Pump Unit.

Claims use since Mar. 31, 1919.

Ser. No. 257,444. SERVICE PRODUCT CO., Willimansett, Mass. Filed Nov. 11, 1927.



No claim is made to the word "Rapid" apart from the mark shown in the drawing.

Particular description of goods.—Portable Hand Fire Extinguishers.

Claims use since July 9, 1927.

Ser. No. 259,116. HUGHES & HUGHES, New York, N. Y. Filed Dec. 19, 1927.

INIT

Particular description of goods.—Golf-Ball Markers.

Claims use since on or about Jan. 5, 1927.

Ser. No. 259,140. JUSTUS P. SEEBURG, Chicago, Ill. Filed Dec. 19, 1927.

Morning Dew

Particular description of goods.—Sprayers.
Claims use since Oct. 19, 1927.

Ser. No. 259,291. THE A. A. WOOD & SONS COMPANY, Atlanta, Ga. Filed Dec. 23, 1927.

"DUPLEX"

Particular description of goods.—Files.
Claims use since 1881.

Ser. No. 259,449. KENSINGTON STEEL COMPANY, Chicago, Ill. Filed Dec. 29, 1927.

KENSINITE

Particular description of goods.—Parts for Trench-Excavating Machines, Concaves for Gyratory Crushers, Jaw Plates for Jaw Crushers, Conveying Chains, Elevator Buckets, Pulverizer Hammers, Gears, Pinions, Sprockets, Rollers, Steam-Shovel Parts, Dipper Teeth, Traction Devices for Steam Shovels, Links for the Trackways for Self-Laying-Track Tractors.
Claims use since Jan. 5, 1927.

Ser. No. 259,799. DIAMOND MOTOR PARTS COMPANY, St. Cloud, Minn. Filed Jan. 7, 1928.

DIAMOND MOTOR PARTS CO ST CLOUD

No claim is made to the word "St. Cloud" and the representation of the goods apart from the mark as shown.
Particular description of goods.—Piston Pins, Bronze and Steel Bearing Bushings for Automobiles, and Water Pumps and Parts Thereof.
Claims use since February, 1923.

Ser. No. 259,876. RELAY MOTORS CORPORATION, Lima, Ohio. Filed Jan. 9, 1928.

RELAY

Particular description of goods.—Power-Transmission Mechanism for Motor Vehicles, Including Axle Assemblies.
Claims use since Feb. 1, 1926.

Ser. No. 259,881. SEVERINO SAFETY RAZOR CO., INC., New York, N. Y. Filed Jan. 9, 1928.

PERFECT FOUR EDGE TRADE MADE IN U.S.A. Patented Nov. 16, 26 MARK SEVERINO SAFETY RAZOR CO. INC.

No claim is made to the words appearing on the drawing except to the name of applicant corporation. The portrait is that of Ralph Severino, president of applicant corporation.
Particular description of goods.—Safety Razors and Blades Thereof.
Claims use since Dec. 1, 1927.

Ser. No. 260,070. ROBERT B. MINOR, San Antonio, Tex. Filed Jan. 13, 1928.

TANGO

Particular description of goods.—Can Openers.
Claims use since Dec. 14, 1927.

Ser. No. 260,158. ALLEN ELECTRIC AND EQUIPMENT COMPANY, Kalamazoo, Mich. Filed Jan. 13, 1928.

GENERAL EQUIPMENT CORP.

Particular description of goods.—Brush Sanders, Pole Screw Drivers, Pole-Piece Spreaders, Bench Plates, Bendix Pullers, Wheel Pinions, Bearing Pullers, Shaft Pullers, Transmission-Clutch Disc Pullers, Axle-Sleeve Pullers, Drills and Reamers, Metal-Working Lathes, Battery Handlers, Shaft Couplings, Bearing-Scraping Tools, Facing Tools and Cutters, Jigs, Vises, Work Clamps and Stands, Rivet Setters, Shop Dollies and Hoists and Lifting Hooks, Tow Bars, Emergency Axles, Straightening Presses and Mandrel Presses.
Claims use since Aug. 1, 1926.

Ser. No. 260,616. THE AMERICAN IMPORT COMPANY, San Francisco, Calif. Filed Jan. 25, 1928.

LAWNVAC

Particular description of goods.—Lawn Rakes.
Claims use since July 15, 1922.

Ser. No. 260,814. THE ECLIPSE LAWN MOWER CO., Prophetstown, Ill. Filed Jan. 28, 1928.

ELMCO

Particular description of goods.—Lawn Mowers.
Claims use since Oct. 1, 1927.

CLASS 25.

Locks and Safes.

Ser. No. 259,492. HAINES MANUFACTURING CORPORATION, Rochester, N. Y. Filed Dec. 30, 1927.

MEM-O-BUDGET

Particular description of goods.—Locks and Safes—Namely, Portable Savings Banks.
Claims use since Aug. 21, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 252,196. HERMAN FOWLER, doing business as The Fowler Studios, Hollywood, Calif. Filed July 18, 1927.

KNOW YOUR OWN COUNTRY

Particular description of goods.—Motion-Picture Films.
Claims use since Oct. 15, 1926.

Ser. No. 259,335. PATRICK A. POWERS, Los Angeles, Calif., and New York, N. Y. Filed Dec. 24, 1927.

CINEPHONE

Particular description of goods.—Talking-Motion-Picture Films.
Claims use since Dec. 1, 1927.

Ser. No. 259,793. S. F. BOWSER & COMPANY, INC., doing business as Gasoline Register Company, Fort Wayne, Ind. Filed Jan. 7, 1928.

Meas-ur-chek

Particular description of goods.—Quantity-Recording and Receipt-Issuing Machines Used in the Sale of Gasoline.
Claims use since June 23, 1926.

Ser. No. 259,972. STANDARD GAGE COMPANY, INC., Poughkeepsie, N. Y. Filed Jan. 11, 1928.

"SUREMIKE"

Particular description of goods.—Micrometers.
Claims use since Dec. 1, 1927.

Ser. No. 260,429. DREM PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 21, 1928.

CINOPHOT

Particular description of goods.—Automatic Exposure Meters for Photographic Purposes.
Claims use since Apr. 12, 1926.

Ser. No. 260,929. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y. Filed Jan. 31, 1928.

MEMOSCOPE

Particular description of goods.—Photographic Projectors.
Claims use since Jan. 1, 1928

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 255,046. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y. Filed Sept. 21, 1927.



Particular description of goods.—Jewelry for Personal Use or Adornment Consisting of Finger Rings, Earrings, Bracelets, Pendants, Necklaces, Watch Bracelets, Bags, Brooches, Buckles, Bar Pins, Cuff Links, Lorgnettes, Studs, Scarf Pins, Hatpins, Vest Buttons and Handy Pins, All Made of or Plated with Precious Metal.
Claims use since Nov. 1, 1926.

Ser. No. 259,127. SAHATIEL G. MANDALIAN, doing business as Mandalian Manufacturing Company, North Attleboro, Mass. Filed Dec. 19, 1927.

LUSTRO-PEARL

No claim is made to the word "Pearl" except as herein associated.

Particular description of goods.—Mesh Bags and Purses and the Constituent Parts of the Same, All Made of or Plated with Precious Metal.

Claims use since Nov. 30, 1927.

Ser. No. 259,381. S. WECHTER COMPANY, Chicago, Ill. Filed Dec. 27, 1927.



Particular description of goods.—Manufactured Jewelry for Personal Wear Other Than Watches.

Claims use since 1908.

Ser. No. 259,833. AMERICAN JEWELRY CO., New York, N. Y. Filed Jan. 9, 1928.

D'ENCHANT

Particular description of goods.—Earrings, Collar Pins, Scarf Pins, Necklaces, Cases of Precious Metal for Face Powder or Rouge, Bar Pins, Brooch Pins, Cuff Links, and Bracelets.

Claims use since about Apr. 1, 1927.

Ser. No. 259,869. PARFUMS EDOUARDO, A CORPORATION, New York, N. Y. Filed Jan. 9, 1928.

Foursome

Particular description of goods.—Vanity Case or Compact Case Made of or Plated with Precious Metal.

Claims use since July 1, 1927.

Ser. No. 260,066. MADIER & MILENKO, New York, N. Y. Filed Jan. 18, 1928.

MM

Particular description of goods.—Finger Rings.

Claims use since Jan. 1, 1928.

Ser. No. 260,333. JOSEPH L. HERZOG & CO., New York, N. Y. Filed Jan. 19, 1928.

JLH

Particular description of goods.—Finger Rings.

Claims use since about Jan. 1, 1913.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 259,674. COMMERCIAL PRESS, INC., Southbridge, Mass. Filed Jan. 4, 1928.

WONDER

Particular description of goods.—Cloths for Wiping and Polishing the Lenses of Eyeglasses and Spectacles.

Claims use since July, 1917.

CLASS 31.

Filters and Refrigerators.

Ser. No. 260,004. DOMESTIC ELECTRIC REFRIGERATOR CORPORATION, New York, N. Y. Filed Jan. 12, 1928.

The ALLISON

The drawing is lined to indicate blue.

Particular description of goods.—Electric Refrigerators.

Claims use since Nov. 10, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 260,862. UNITED STATES CABINET BED CO., New York, N. Y. Filed Jan. 28, 1928.

SUPEREST

Particular description of goods.—Mattresses.

Claims use since July 8, 1927.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 259,111. GENERAL WATER HEATER CORPORATION, Los Angeles, Calif. Filed Dec. 19, 1927.

BIG 4

Particular description of goods.—Gas-Heated Hot-Water Systems and Hot-Water Heaters.

Claims use since Oct. 13, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 259,075. RAMSEY ACCESSORIES MANUFACTURING CORPORATION, St. Louis, Mo. Filed Dec. 17, 1927.

RAMCO Sealflex

For the purposes of this registration only no exclusive claim is made to the representation of the piston ring and the inner ring apart from the mark as shown.

Particular description of goods.—Piston Rings.

Claims use since Oct. 15, 1927.

Ser. No. 259,076. RAMSEY ACCESSORIES MANUFACTURING CORPORATION, St. Louis, Mo. Filed Dec. 17, 1927.

RAMCO

Particular description of goods.—Piston Rings and Inner Ring for Piston Rings.

Claims use since Oct. 15, 1927, on piston rings, and since June 15, 1923, on inner rings.

Ser. No. 259,679. GOODALL RUBBER CO., INC., Philadelphia, Pa. Filed Jan. 4, 1928.

R-B

Particular description of goods.—Conducting Hose Composed of Rubber or Rubber and Fiber.

Claims use since Nov. 20, 1924.

Ser. No. 260,620. THE BADGER RUBBER WORKS, Milwaukee, Wis. Filed Jan. 25, 1928.



Particular description of goods.—Pneumatic Tires and Tubes Made Wholly or Partly of Rubber.

Claims use since Dec. 20, 1927.

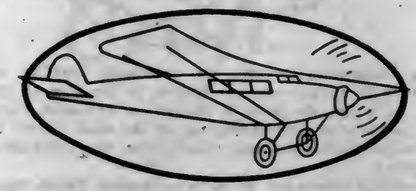
Ser. No. 260,621. THE BADGER RUBBER WORKS, Milwaukee, Wis. Filed Jan. 25, 1928.

AIRPORT

Particular description of goods.—Pneumatic Tires and Tubes Made Wholly or Partly of Rubber.

Claims use since Dec. 20, 1927.

Ser. No. 260,622. THE BADGER RUBBER WORKS, Milwaukee, Wis. Filed Jan. 25, 1928.



Particular description of goods.—Pneumatic Tires and Tubes Made Wholly or Partly of Rubber.

Claims use since Dec. 20, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 258,434. STANDARD PAPER MANUFACTURING CO., Richmond, Va. Filed Dec. 3, 1927.

AIR LINE

Particular description of goods.—Coated, Enameled, and Plain Blotting Paper and Coated Paper, Printing and Writing Paper.
Claims use since Nov. 10, 1927.

Ser. No. 258,607. THE UNION PAPER & TWINE COMPANY, Cleveland, Ohio. Filed Dec. 7, 1927.

Firmfold

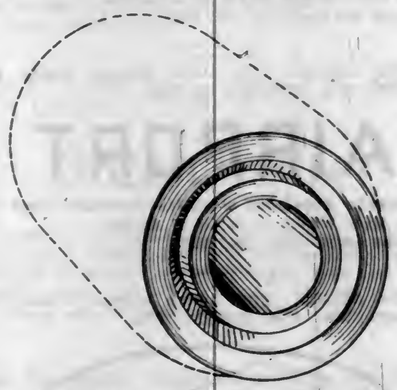
Particular description of goods.—Printing, Writing, and Book Papers.
Claims use since Jan. 1, 1927.

Ser. No. 259,204. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Dec. 21, 1927.

Nancy Lee

Particular description of goods.—Toilet Paper, Paper Towels, Paper Napkins, Paper Doilies, Paper Tablecloths, and Tissue Paper.
Claims use since June 27, 1927.

Ser. No. 259,730. THE GUMMED PRODUCTS COMPANY, Troy, Ohio. Filed Jan. 5, 1928.



The trade-mark consists of arbitrarily cutting or otherwise forming a circular groove in the face of the spool on which the tape is wound, no exclusive claim being made to the representation of the spool shown in the accompanying drawing apart from the trade-mark illustrated.

Particular description of goods.—Gummed Paper Tape, Ungummed Paper Tape, Gummed Cloth Tape, and Ungummed Cloth Tape.
Claims use since on or about July 1, 1914.

Ser. No. 259,811. WILHELM KORESKA, Vienna, Austria. Filed Jan. 7, 1928.

KORES

Particular description of goods.—Writing Paper, Typewriter Paper, Stencil Sheets, Addressing Stencil Cards, Tracing Paper, Copying Sheets, Rolls of Copying Paper for Duplicating Apparatus, Duplicating Papers for Hectographs and Copying Apparatus, Sketching Paper, Drawing Paper, Paper Graduated by Millimeter, Quadrats, Paper Rolls for Adding Machines, Wrapping Paper, Rubber Erasers, Pencils, and Pens.
Claims use since Oct. 22, 1927.

Ser. No. 259,888. VENDEX, INC., New York, N. Y. Filed Jan. 9, 1928.

NAMAD

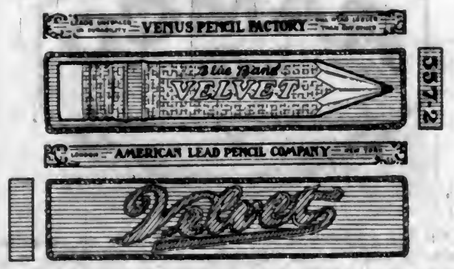
Particular description of goods.—Pencils.
Claims use since Dec. 1, 1927.

Ser. No. 260,661. WM. G. WILLMANN PAPER CO. INC., New York, N. Y. Filed Jan. 25, 1928.

TRIBRO

Particular description of goods.—Printing and Writing Paper.
Claims use since Jan. 3, 1928.

Ser. No. 260,787. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 28, 1928.



The carton as such, together with all the reading matter, is disclaimed apart from the mark shown on the drawing, with the exception of the words "Blue Band, Velvet, Venus, American Lead Pencil Company" and the numerals "557—2," the representation of a pencil being disclaimed apart from the mark shown on the drawing. The lining of the drawing indicates the colors blue, yellow, and brown.

Particular description of goods.—Pencils.
Claims use since December, 1924.

Ser. No. 260,788. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 28, 1928.



The carton as such, together with all reading matter, is disclaimed apart from the mark shown in the drawing, with the exception of the words "Venus" and "American Pencil Co." The picture forming part of trade-mark is the goddess Venus.

Particular description of goods.—Pencils.
Claims use since January, 1906.

CLASS 38.

Prints and Publications.

Ser. No. 234,557. THE BUZZA COMPANY, Minneapolis, Minn. Filed July 15, 1926.

CRAFTACRES

Particular description of goods.—Gift Mottoes.
Claims use since June 1, 1923.

Ser. No. 255,870. THOMAS E. PICKERILL, doing business as The Thos. E. Pickerill Service, Placentia, Calif. Filed Oct. 10, 1927.



The portrait is that of applicant.

Particular description of goods.—Heading for a Newspaper Column.
Claims use since Sept. 23, 1927.

Ser. No. 257,616. THE CHAIN STORE PUBLISHING CORPORATION, New York, N. Y. Filed Nov. 16, 1927.

Chain Store Druggist

Particular description of goods.—Section of a Periodical Publication.
Claims use since Aug. 27, 1927.

Ser. No. 259,167. FRANK J. HALE, Washington, D. C. Filed Dec. 20, 1927.

THE NATIONAL POLITICAL WEEKLY
POLITICS
INDEPENDENT, NON-PARTISAN - NEWS AND COMMENT

Particular description of goods.—Weekly Newspaper.
Claims use since Dec. 19, 1927.

Ser. No. 259,186. SWETLAND PUBLICATIONS, INC., Los Angeles, Calif. Filed Dec. 20, 1927.

Beauty Craft
PICTORIAL

Particular description of goods.—Publication Issued Monthly.
Claims use since May 20, 1926.

Ser. No. 259,261. SWETLAND PUBLICATIONS, INC., Los Angeles, Calif. Filed Dec. 22, 1927.

Beauty Craft

Particular description of goods.—Publication Issued Monthly.
Claims use since Sept. 20, 1926.

Ser. No. 259,395. DAILY REVIEW CORPORATION, Rockville Center, N. Y. Filed Dec. 28, 1927.

'BUY-O-GRAPH'

Particular description of goods.—Newspaper Sections.
Claims use since Nov. 15, 1927.

Ser. No. 260,215. EDWARD DANFORTH, Atlanta, Ga. Filed Jan. 17, 1928.



The drawing is lined for shading only and to represent an imaginary character.
Particular description of goods.—Newspaper Column Published Periodically.
Claims use since January, 1925.

Ser. No. 260,275. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 18, 1928.

RIGHT ANGLES

The lining on the drawing represents shading and not color.
Particular description of goods.—Newspaper Articles.
Claims use since Jan. 3, 1927.

Ser. No. 260,642. MACNAIR-DORLAND COMPANY, INC., New York, N. Y. Filed Jan. 25, 1928.

SOAP.

Particular description of goods.—Monthly Magazine.
Claims use since September, 1925.

Ser. No. 260,643. MACNAIR-DORLAND COMPANY, INC., New York, N. Y. Filed Jan. 25, 1928.

The AMERICAN INK-MAKER

Particular description of goods.—Monthly Magazine.
Claims use since January, 1926.

Ser. No. 260,988. EDWARD CHARLES DEWOLFE, doing business as Electrical Mining Publishing Company, Chicago, Ill. Filed Feb. 1, 1928.

ELECTRICAL MINING

Particular description of goods.—Illustrated Magazine.
Claims use since March, 1904.

Ser. No. 261,098. CAROLINA RETAILER PUBLISHING COMPANY, Winston-Salem, N. C. Filed Feb. 3, 1928.

THE CAROLINA-VIRGINIA RETAILER

Particular description of goods.—Monthly Periodical.
Claims use since September. 1927.

CLASS 39.

Clothing.

Ser. No. 222,565. FALK MERCANTILE COMPANY LIMITED, Boise, Idaho. Filed Oct. 30, 1925.

"LET'ER BUCK"

Particular description of goods.—Workingmen's Clothes—Namely, Overalls, Pants, and Work Shirts.
Claims use since May 1, 1925.

Ser. No. 224,629. THE STANDARD CORSET COMPANY, New York, N. Y. Filed Dec. 12, 1925.

UNIT SUIT

Applicant disclaims exclusive right to the use of the words "Unit Suit" apart from the mark as shown.
Particular description of goods.—Combination Garments for Ladies' Underwear of Textile Fabric—Namely, Corsetlets, Corset Waists, Girdles, Brassières and Bandeaux in Combination with Step-Ins, Bloomers, Knickers, Slips, and Petticoats.
Claims use since Sept. 4, 1925.

Ser. No. 233,779. HERMAN L. KASHMAN, doing business as United Manufacturing Co., Worcester, Mass. Filed June 26, 1926.

WOOSTERCRAFT

Particular description of goods.—Men's and Boy's Clothing—Namely, Coats, Pants, and Vests, and Overcoats.
Claims use since June 7, 1926.

Ser. No. 251,431. CHIC MANUFACTURING CO., Peoria, Ill. Filed July 2, 1927.

Sunny Summers

Particular description of goods.—Ladies' and Children's Pajamas, Aprons, and House Frocks.
Claims use since about June 15, 1927.

Ser. No. 251,922. MARSHALL, MEADOWS & STEWART, INC., Auburn, N. Y. Filed July 12, 1927.

MARSHALAISE

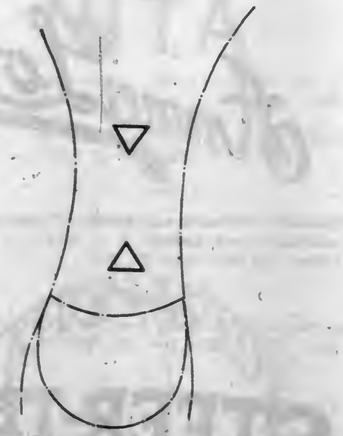
Particular description of goods.—Shoes Composed Wholly or in Part of Leather.
Claims use since May 10, 1927.

Ser. No. 254,301. PHELPS-TERKEL COLLEGE SHOPS, Los Angeles, Calif. Filed Sept. 2, 1927.

John College

Particular description of goods.—Men's Clothing and Haberdashery—Namely, Suits Comprising Coats, Vests, and Trousers, Overcoats, Scarfs, Neckties, Hosiery, Underwear of Knitted and Textile Fabrics, Pajamas, Hats, Shoes of Leather, Cloth, Rubber and Combinations of Same, and Caps.
Claims use since June 1, 1925.

Ser. No. 254,700. THE C. W. ARCHER SHOE CO., Cincinnati, Ohio. Filed Sept. 14, 1927.



The mark consists of two triangular-shaped copper rivet heads arbitrarily located within the shank portion of the outer sole of the shoe, as shown on the drawing. No claim is made to the exclusive use of the pictorial representation of the portion of the shoe sole per se, as the same is not a part of the mark, but merely illustrative of the bottom side of the shank portion of a shoe sole to which mark is applied.
Particular description of goods.—Ladies' Leather Shoes.
Claims use since Sept. 9, 1924.

Ser. No. 257,551. KATZ & BURKIN, New York, N. Y. Filed Nov. 14, 1927.

TARR-E-TOWN

Particular description of goods.—Hosiery and Men's Underwear in One and Two Piece Garments Made from Knitted and Textile Fabric, and Undershirts.
Claims use since Jan. 1, 1925.

Ser. No. 257,672. GOODALL WORSTED CO., Sanford, Me. Filed Nov. 17, 1927.

NUROTEX

Particular description of goods.—Men's and Boys' Outer Wearing Apparel Consisting of Coats, Pants, Knickerbockers, and Vests.
Claims use since Oct. 24, 1927.

Ser. No. 258,767. ROGGEN BROS. & CO., INC., New York, N. Y. Filed Dec. 10, 1927.

Biltmore

Particular description of goods.—Dress and Negligee Shirts.
Claims use since 1915.

Ser. No. 258,936. BUTLER BROTHERS, Chicago, Ill. Filed Dec. 15, 1927.

Anna Lou

Particular description of goods.—Women's and Misses' Frocks and Apron Dresses.
Claims use since Sept. 27, 1927.

Ser. No. 258,990. LOUIS BASKIND & COMPANY, INC., New York, N. Y. Filed Dec. 16, 1927.

STEER-TEX



STRONG AS A STEER

The words "Strong as a Steer" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Suede Shirts and Jackets, Flannel Shirts and Jackets, and Dress Shirts of All Descriptions.
Claims use since Oct. 1, 1927.

Ser. No. 259,165. GOVERNICK HAT COMPANY, St. Louis, Mo. Filed Dec. 20, 1927.

OVERBROOK
DISTINCTIVE
HATS
ST. LOUIS
NEW YORK

Exclusive right to the use of the words "Distinctive Hats" and the geographical terms "St. Louis," and "New York" is disclaimed.
Particular description of goods.—Women's Trimmed Hats.
Claims use since Sept. 1, 1926.

Ser. No. 259,216. PARAMOUNT CRAVAT CO., New York, N. Y. Filed Dec. 21, 1927.

Paramount

Particular description of goods.—Neckties.
Claims use since Dec. 28, 1925.

Ser. No. 259,316. ARENJAY HAT CO. INC., New York, N. Y. Filed Dec. 24, 1927.

FLEX-SO-LITE

Particular description of goods.—Men's Hats.
Claims use since August, 1927.

Ser. No. 259,572. NATIONAL TEXTILE DISTRIBUTORS CORPORATION, New York, N. Y. Filed Dec. 31, 1927.

Husky

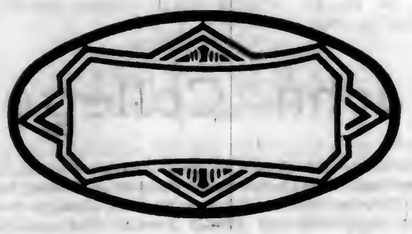
Particular description of goods.—Hosiery.
Claims use since Mar. 10, 1927.

Ser. No. 259,800. FASHION CRAFT DRESS CO., St. Louis, Mo. Filed Jan. 7, 1928.

Silhouette

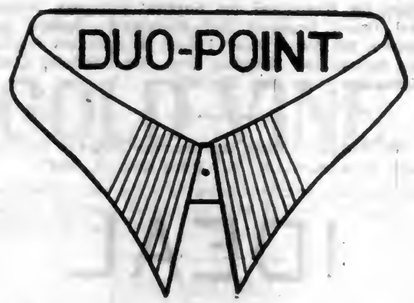
Particular description of goods.—Frocks and Dresses for Women and Girls.
Claims use since Dec. 1, 1927.

Ser. No. 259,872. PROPPER SILK HOSIERY MILLS, INC., New York, N. Y. Filed Jan. 9, 1928.



Particular description of goods.—Silk Hosiery.
Claims use since September, 1919.

Ser. No. 259,948. COLUMBIA SHIRT COMPANY, New York, N. Y. Filed Jan. 11, 1928.



No claim is made to the exclusive use of the representation of the collar apart from the mark shown in the drawing.
Particular description of goods.—Collars.
Claims use since Oct. 1, 1927.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 253,562. AMBERG, SCHWAB & CO., INC., New York, N. Y. Filed Aug. 17, 1927.

Buntal-Puntaline

Applicant owns registration number 232,538. Applicant disclaims the exclusive right to the use of the word "Buntal" except as the same is used in connection with the other features of the trade-mark shown on the drawing.
Particular description of goods.—Braids.
Claims use since June 1, 1927.

Ser. No. 257,758. KRANISH BROS., INC., New York, N. Y. Filed Nov. 18, 1927.



Particular description of goods.—Dressmakers' Small Wares—Namely, Brass Safety Pins, Brass Pins, Snap Fasteners, Hooks and Eyes, and Hand Sewing Needles.
Claims use since Oct. 1, 1926.

Ser. No. 259,339. D. F. TAYLER & COMPANY LIMITED, Birmingham, England. Filed Dec. 24, 1927.

NITA

Particular description of goods.—Pins, Safety Pins, Hairpins, Hatpins, Hand Sewing Needles Not Made of Precious Metal.
Claims use since July 1, 1925, on hand sewing needles, and on the remaining goods since Jan. 1, 1907.

Ser. No. 260,239. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Jan. 17, 1928.

NATION-WIDE

Particular description of goods.—Narrow Elastic.
Claims use since Apr. 7, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 249,776. BOOTT MILLS, Lowell, Mass. Filed May 31, 1927.

Belle-Vue

Particular description of goods.—Curtains Made from Cotton, Rayon, or Lace or Combinations Thereof.
Claims use since May 19, 1927.

Ser. No. 249,777. BOOTT MILLS, Lowell, Mass. Filed May 31, 1927.

Belle-Vue

Particular description of goods.—Cotton or Cotton and Rayon Scrim for Curtains in the Piece.
Claims use since May 19, 1927.

Ser. No. 254,225. BENNETT & GODING, INCORPORATED, Boston, Mass. Filed Sept. 1, 1927.

B&G

Particular description of goods.—Cotton Goods—Namely, Ducks, Drills, and Twills Converted in the Piece for Linings, Stiffenings, Buckrams, and Box-Toe Materials Intended for Use in the Making of Boots, Shoes, and Slippers.
Claims use since Apr. 18, 1925.

Ser. No. 256,406. HEBERLEIN & Co., A. G., Wattwil, Switzerland. Filed Oct. 21, 1927.

PERMANDY

Particular description of goods.—Cotton Fabrics.
Claims use since about July 23, 1925.

Ser. No. 257,588. LONG HANDKERCHIEF CO. INC., Passaic, N. J., and New York, N. Y. Filed Nov. 15, 1927.

86

Particular description of goods.—Handkerchiefs.
Claims use since 1912.

Ser. No. 258,073. FEINSTEIN FABRICS CORPORATION, New York, N. Y. Filed Nov. 26, 1927.

"Pal-O-Mine"

Particular description of goods.—Silk and Silk and Cotton Piece Goods Used Expressly in Connection with Crepe Chiffon, a Sheer Fabric.
Claims use since Jan. 2, 1927.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 254,450. J. J. GENTIL G. M. B. H., Berlin, Germany. Filed Sept. 7, 1927.

GENTILA

Particular description of goods.—Belts, Straps, Girdles, and Supporters for Hygienical, Surgical, or Curative Purposes—Namely, Abdominal Supporters, Belts, Braces, and Girdles, Body Braces, Thigh Girdles, Pelvic Straps, Body Supports, Body Carriers; Thigh, Leg, Ankle, Foot and Back Bandages; Back Supporters; Arm, Neck, Chin, and Head Bandages; Face Masks, Catamenial Bandages and Straps, Navel Rupture Bands; Breast Forms, Brassières, Corset Brassières, and Girdle Brassières for Surgical and Curative Purposes; Reducing Corsets, Reducing Hose, Orthopedic Shoes, Arch Supporters, Orthopedic Heel, and Foot Pads; Joint Supports, Leg Supports, Rubber Gloves for Surgical Uses, Orthopedic Shoes of Rubber Used for Therapeutic and Surgical Purposes, Elastic Stockings, Rubber Stockings for Orthopedic Purposes, Bandage Material and Plasters for Hygienical and Surgical Purposes, Bougies, Sexual Organ Supports and Protectors; Rubber Bulb Atomizers for Ears, Nose, Throat, and Sexual Organs; Piston Sprays for Medicinal Use, and Artificial Limbs.
Claims use since Dec. 20, 1912.

Ser. No. 255,551. EAST RUTHERFORD SYRINGE CO. INC., East Rutherford, N. J. Filed Oct. 8, 1927.

IDEAL

Particular description of goods.—Syringes Having Glass Barrels and Glass Pistons and Used for Medical, Pharmaceutical, and Laboratory Purposes.
Claims use since February, 1920.

Ser. No. 259,300. EUGENE LTD., New York, N. Y. Filed Dec. 23, 1927.

EUGÈNE

Particular description of goods.—Chandelier-Model Permanent-Waving Machines, Floor-Model Permanent-Waving Machines, and Parts and Accessories of Permanent-Waving Equipment; Two-Sectional Heaters, Curlers; Safety-First Clips, Pads, Rubber Discs, Solution Testers, Test Tubes, and Wire-Gauge Tubing.
Claims use since May, 1922.

Ser. No. 259,546. MAURICE FRÈRE, Paris, France. Filed Dec. 31, 1927.

VIBRIS

Particular description of goods.—Massage Apparatus.
Claims use since July 25, 1927.

Ser. No. 259,883. EDO STACKELBECK, New York, N. Y. Filed Jan. 9, 1928.

ORIGINAL SPRANZBAND German Patent TRADE MARK No. 302291 DRP

No claim is made to the words "Trade-Mark, German Patent No. 302,291" and to the representation of the goods apart from the mark shown on the drawing.
Particular description of goods.—Surgical Trusses.
Claims use since October, 1927.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 260,821. JOHN GRAF COMPANY, Milwaukee, Wis. Filed Jan. 28, 1928.

GOLD VINE

Particular description of goods.—Ginger Ale and Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Dec. 1, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 224,247. HEINTZ, MERKLE & COMPANY, Philadelphia, PA. Filed Dec. 4, 1925.

Taste-Tells

Particular description of goods.—Mayonnaise, Mincemeat, Salted Peanuts, Horse-Radish, Mustard, India Relish, and a Condiment Comprising Pickles, Onions, Peppers, and Spiced Vinegar; Chowchow, Potato Chips, Mustard Chow, Vegetable Relish, and a Condiment Comprising Mayonnaise, Pickles, Peppers, and Spiced Vinegar.
Claims use since about Oct. 16, 1920, to Mayonnaise, Mincemeat, and Salted Peanuts and to the remainder of goods since about June 1, 1921.

Ser. No. 225,186. HENRY HEIDE, INCORPORATED, New York, N. Y. Filed Dec. 26, 1925. Under 10-year proviso.

HEIDE'S

Particular description of goods.—Candies of All Kinds; Candied Nut Products—Namely, Chocolate-Covered Nuts, Chocolate Roasted Almonds, Powdered Almond Paste, Confectioners' and Bakers' Pastes, Cake Fillers, Cocoa, Chocolate, and Icing.
Claims use since February, 1876.

Ser. No. 235,895. NATIONAL TEA CO., Chicago, Ill. Filed Aug. 12, 1926.

DISTRIBUTED BY NATIONAL TEA CO. QUALITY GROCERS

The words "Quality," "Groceries," and "Distributed By" are disclaimed apart from the arrangement as shown in the drawing.
Particular description of goods.—Canned Fruits, Canned Vegetables, and Canned Milk.
Claims use since Aug. 1, 1926.

Ser. No. 240,053. THE AGMEL CORPORATION, Los Angeles, Calif. Filed Nov. 15, 1926.



Particular description of goods.—Health Food, a Liquid Ration Prepared from Vegetable Juices.
Claims use since January, 1918.

Ser. No. 242,896. KENNEL FOOD SUPPLY CO., Fairfield, Conn. Filed Jan. 15, 1927.

CERO MEATO

Particular description of goods.—Food for Dogs and Foxes.
Claims use since Jan. 1, 1909.

Ser. No. 243,281. CHARLES TREAT PAINE, Redlands, Calif. Filed Jan. 24, 1927.

CADDIE

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges.
Claims use since Feb. 8, 1926.

Ser. No. 245,827. BERRY, DODGE COMPANY, Boston, Mass. Filed Mar. 16, 1927.

MAY QUEEN CEYLON PEKOE TEA

The mark consists of the essential words "May Queen" and as used by applicant includes the features shown in the drawing, but applicant does not assert any exclusive right to the other words except in connection with the mark as shown.
Particular description of goods.—Tea.
Claims use since Dec. 1, 1888.

Ser. No. 248,098. DAVID J. GOLDSMITH, doing business as Hagen Trading Company, Philadelphia, Pa. Filed Apr. 28, 1927.



The drawing is lined for red and gold. The words "Reines Maltz" are disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Malt Syrup.

Claims use since Feb. 6, 1919.

Ser. No. 253,714. SOCIETE ANONYME DES FROMAGERIES CH. GERVAIS, Paris, France. Filed Aug. 19, 1927. Under 10-year proviso.



Particular description of goods.—Cheese.

Claims use since Mar. 12, 1852.

Ser. No. 253,755. HIRSCH BROS. & CO. INC., Louisville, Ky. Filed Aug. 20, 1927.

PARAMOUNT

Particular description of goods.—Ketchup and Chili Sauce.

Claims use since Aug. 2, 1920.

Ser. No. 254,261. AMERICAN JERSEY CATTLE CLUB, New York, N. Y. Filed Sept. 2, 1927.



No claim is made herein to the words "Jersey" and "Products" apart from the mark shown in the drawing.

Particular description of goods.—Milk, Cream, Butter, and Ice Cream.

Claims use since Aug. 29, 1927.

Ser. No. 254,684. THE ROSEDALE MILLING CO., Rosedale Station, Kansas City, Kans. Filed Sept. 13, 1927.

Jayhawk

Particular description of goods.—Hard-Wheat Flour, Soft-Wheat Flour, Scratch Feed, Corn Meal, and Pancake Flour.

Claims use since Apr. 5, 1927.

Ser. No. 254,931. THE NUCKOLLS PACKING COMPANY, Pueblo, Colo. Filed Sept. 19, 1927.

PIKES PEAK BRAND

No claim is made to the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Lard.

Claims use since 1907.

Ser. No. 257,560. RUMFORD CHEMICAL WORKS, Providence, R. I. Filed Nov. 14, 1927.

RYFO

Particular description of goods.—Dough Assistant Consisting of a Preparation Designed to Improve the Quality of Leavened Bread by Increasing Its Lightness and Fineness of Texture and by Acting as a Yeast Food and Stimulant.

Claims use since Oct. 28, 1927.

Ser. No. 257,622. FLORA MIR CANDY SHOP, Brooklyn, N. Y. Filed Nov. 16, 1927.

Flora Mir

Particular description of goods.—Confectionery—Namely, Candies, Glazed Fruits; Sweet Meats—Namely, Fruit Preserves, Jellies; Candied, Salted, and Natural Nuts; Cake; Ice Cream; Sherbet; Sandwiches; and Steamer Baskets of Fresh Fruits, Nuts, and Candies.

Claims use since Sept. 6, 1927.

Ser. No. 257,931. J. LAVAGNE & CIE., Marseille, France. Filed Nov. 22, 1927.



No claim is made to the exclusive use of the notations "Finest Tunis Dates" and "Marseille."

Particular description of goods.—Preserved Dates.

Claims use since Apr. 24, 1924.

Ser. No. 258,547. WHITES FRUIT AGENCY, INCORPORATED, Seattle, Wash. Filed Dec. 6, 1927.

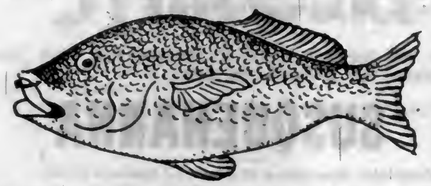
"VIKING"

Particular description of goods.—Fresh Deciduous Fruits.

Claims use since Nov. 4, 1927.

Ser. No. 258,608. MATTHEW B. SHAW, Lewisville, Ark. Filed Dec. 9, 1927.

RED SNAPPER



Particular description of goods.—Vegetable Sauce for Foods Made of Pepper, Vinegar, and Spices.

Claims use since about Nov. 25, 1927.

Ser. No. 258,770. SCHARF BROTHERS COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 10, 1927.

LAUGHING RABBIT

Particular description of goods.—Chocolate Candy.

Claims use since Oct. 18, 1926.

Ser. No. 258,974. Mrs. M. F. COMPSTEIN, doing business as Caledonia Hatchery, Caledonia, Minn. Filed Dec. 15, 1927.

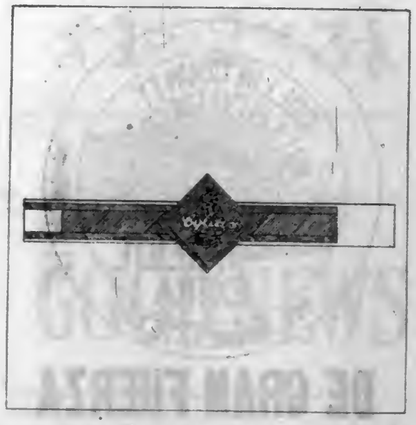


The words "Quality Chicks," "Northern Bred," "Caledonia, Minn.," "Caledonia," and the pictorial representation of a chick are disclaimed.

Particular description of goods.—Baby Chicks.

Claims use since Jan. 15, 1927.

Ser. No. 259,136. SCHARF BROTHERS COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 19, 1927.

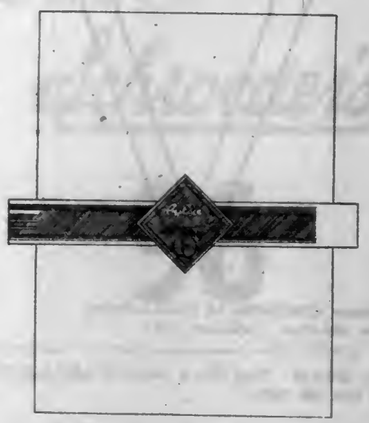


The trade-mark consists of the word "Cyliax" with the representation of an orange-colored pineapple on a brown and green square arranged upon a panel of brown bordered with green, the whole appearing upon a silver rectangular-shaped figure. No claim is made to the representation of the label per se.

Particular description of goods.—Chocolate Candy, Sugar Candy, Marzipan, Chocolates, Almond Paste, Chocolate-Covered Fruits, Chocolate-Covered Nuts, Sweetmeats, and Candy.

Claims use since Oct. 23, 1927.

Ser. No. 259,137. SCHARF BROTHERS COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 19, 1927.



The trade-mark consists of the word "Cyliax" with the representation of two blue plums on a brown and blue square arranged upon a panel of brown bordered with blue, the whole appearing upon a bright bordered blue, rectangular-shaped figure. No claim is made to the representation of the label per se.

Particular description of goods.—Chocolate Candy, Sugar Candy, Marzipan, Chocolates, Almond Paste, Chocolate-Covered Fruits, Chocolate-Covered Nuts, Sweetmeats, and Candy.

Claims use since Oct. 23, 1927.

Ser. No. 259,159. COLLIN COUNTY MILL & ELEVATOR CO., McKinney, Tex. Filed Dec. 20, 1927.

COLLIN COUNTY MILL & ELEVATOR CO. INCOMPARABLE PATENTE EXTRA Mc KINNEY, TEXAS.

DE GRAN FUERZA

Applicant disclaims the right to the exclusive use of the word "Incomparable" apart from the mark shown. No rights are asserted to the exclusive use of the words "Patente," "Extra," "McKinney," "Texas," "De Gran Fuerza" apart from the mark as shown in the drawing. The lining shown in the drawing is for shading only.

Particular description of goods.—Wheat Flour.
Claims use since May 1, 1926.

Ser. No. 259,227. FRÉJUS VENATIÉ, Paris, France. Filed Dec. 21, 1927.

V

Particular description of goods.—Dates.
Claims use since December, 1911.

Ser. No. 259,468. THE SHAW FAMILY, San Jose, Calif. Filed Dec. 29, 1927.

FRUIT GRENADIERS

No claim is made to the word "Fruit" apart from the mark shown in the drawing.

Particular description of goods.—Bottled Fruits in Syrup, Artificially Colored and Flavored.
Claims use since Aug. 30, 1927.

Ser. No. 259,536. DEGRAFF HAY & GRAIN CO., Degraff, Ohio. Filed Dec. 31, 1927.

KINNAN'S LA$UM MOR-EGG'S

Particular description of goods.—Egg Mash.
Claims use since Sept. 15, 1927.

Ser. No. 259,540. JOHN W. ESHELMAN & SONS, Lancaster, Pa. Filed Dec. 31, 1927.

SUSQUEHANNA

Particular description of goods.—Livestock Foods.
Claims use since January, 1923.

Ser. No. 259,542. JOHN W. ESHELMAN & SONS, Lancaster, Pa. Filed Dec. 31, 1927.

RED ROSE

Particular description of goods.—Livestock Foods.
Claims use since January, 1917.

Ser. No. 259,543. JOHN W. ESHELMAN & SONS, Lancaster, Pa. Filed Dec. 31, 1927.

CONESTOGA

Particular description of goods.—Livestock Foods.
Claims use since January, 1917.

Ser. No. 259,544. JOHN W. ESHELMAN & SONS, Lancaster, Pa. Filed Dec. 31, 1927.

PENNSY

Particular description of goods.—Poultry Foods and Livestock Foods.
Claims use since January, 1922, on poultry foods and January, 1924, on livestock foods.

Ser. No. 259,594. SCARAMELLI-BIANCO-CAPOLINO CORPORATION, New York, N. Y. Filed Dec. 31, 1927.

AVE

Particular description of goods.—Cheese.
Claims use since Mar. 10, 1921.

Ser. No. 259,595. SCARAMELLI-BIANCO-CAPOLINO CORPORATION, New York, N. Y. Filed Dec. 31, 1927.

SCABICA

Particular description of goods.—Cheese.
Claims use since Apr. 3, 1925.

Ser. No. 259,671. BREYER ICE CREAM COMPANY, Philadelphia, Pa. Filed Jan. 4, 1928.

Frozen Fruit Cake

No claim is made to the word "Frozen" apart from the mark as shown.

Particular description of goods.—Ice-Cream Confection.
Claims use since Nov. 19, 1927.

Ser. No. 259,752. ALEXANDER-BALART COMPANY, San Francisco, Calif. Filed Jan. 6, 1928.

MILLION DOLLAR

Particular description of goods.—Coffee.
Claims use since Oct. 20, 1927.

Ser. No. 259,982. WABASHA ROLLER MILL COMPANY, Wabasha, Minn. Filed Jan. 11, 1928.

LAUREL

Particular description of goods.—Wheat Flour.
Claims use since about Jan. 1, 1887.

Ser. No. 260,196. ROBERT E. SPLINE, doing business as Tonic Products Company, Syracuse, N. Y. Filed Jan. 16, 1928.

Vitakraut

Particular description of goods.—Canned and Bottled Sauerkraut Juice for Food Purposes.
Claims use since Dec. 30, 1927.

Ser. No. 260,270. INTERNATIONAL GUM CO., INC., Long Island City, N. Y. Filed Jan. 18, 1928.

1 2 3

Particular description of goods.—Chewing Gum.
Claims use since about Jan. 9, 1928.

Ser. No. 260,324. EUCLID CANDY COMPANY, Brooklyn, N. Y. Filed Jan. 19, 1928.

GOOD NEWS

Particular description of goods.—Candy.
Claims use since Jan. 1, 1928.

Ser. No. 260,347. PABST CORPORATION, Milwaukee, Wis. Filed Jan. 19, 1928.

Barley Bloom

Particular description of goods.—Malt Syrup.
Claims use since Dec. 31, 1927.

Ser. No. 260,362. TABLE QUEEN PRODUCTS CO., St. Louis, Mo. Filed Jan. 19, 1928.

Schroeder's

96

Particular description of goods.—Malt Syrup.
Claims use since Aug. 1, 1925.

Ser. No. 260,397. MAURY-COLE COMPANY, Memphis, Tenn. Filed Jan. 20, 1928.

PO LO

Particular description of goods.—Peanut Butter, Prepared Mustard, and Mustard Bran, and Pepper Sauce.
Claims use since Oct. 1, 1927.

Ser. No. 260,452. RUDOLPH LISKA, doing business as R. Liska & Son, Chicago, Ill. Filed Jan. 21, 1928.

EDELWEISS

Particular description of goods.—Malt Syrup for Food Purposes.
Claims use since Nov. 1, 1919.

Ser. No. 260,493. DIRECT DISTRIBUTORS, INC., Chicago, Ill. Filed Jan. 23, 1928.

DIRECT LINE

Particular description of goods.—Canned Spaghetti, Canned Pork and Beans, Canned Fruits, Canned Vegetables, Canned Berries, and Canned Sauerkraut.
Claims use since Oct. 10, 1927.

Ser. No. 260,652. ORIENTAL TEA & COFFEE CO., Boston, Mass. Filed Jan. 25, 1928.

GOLDKETTLE



Particular description of goods.—Coffee.
Claims use since 1875.

Ser. No. 260,844. JOSEPH C. PAVETT, doing business as Porto Rico Coffee Co., Chicago, Ill. Filed Jan. 28, 1928.

LA TOSCA

Particular description of goods.—Coffee.
Claims use since Jan. 28, 1927.

Ser. No. 261,101. EARL FRUIT COMPANY, San Francisco, Calif. Filed Feb. 3, 1928.

LIGHTNING

Particular description of goods.—Fresh Deciduous Fruits.
Claims use since July 5, 1926.

CLASS 48.

Malt Beverages and Liquors.

Ser. No. 257,905. TACOMA BREWING CO., San Francisco, Calif. Filed Nov. 21, 1927.

Pacific

Particular description of goods.—Cereal Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol by Volume.
Claims use since 1920.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 258,775. TOTEM STUDIOS, Chicago, Ill. Filed Dec. 10, 1927.

TOTEM STUDIOS

Particular description of goods.—Metal, Concrete, and Wood Ornaments in the Form of Bird and Animal Reproductions Painted in Life-like Colors for House and Garden Decoration.
Claims use since Sept. 3, 1927.

Ser. No. 259,066. ERNST KATZ, doing business as Katz & Reich, Vienna, Austria. Filed Dec. 17, 1927.

KALIKANTIK

Particular description of goods.—Leather Imitations Made Particularly of Linen.
Claims use since Oct. 28, 1927.

Ser. No. 259,177. LANCASTER MILLS, Clinton, Mass. Filed Dec. 20, 1927.

Lancrma

Particular description of goods.—Waterproofed Textile Fabrics.
Claims use since Oct 17, 1927.

Ser. No. 259,178. LANCASTER MILLS, Clinton, Mass. Filed Dec. 20, 1927.

STAYSO

Particular description of goods.—Waterproofed Textile Fabrics.
Claims use since Oct 17, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MARCH 13, 1928.

239,714. SEWING-MACHINE THREADS. SUMMIT THREAD COMPANY, East Hampton, Conn., and Boston, Mass.
Filed November 28, 1927. Serial No. 258,145. PUBLISHED JANUARY 3, 1928. Class 43.

239,715. THREAD. THE GARDINER HALL JR. COMPANY, South Willington, Conn., and New York, N. Y.
Filed November 28, 1927. Serial No. 258,122. PUBLISHED JANUARY 3, 1928. Class 43.

239,716. THREAD. THE GARDINER HALL JR. COMPANY, South Willington, Conn., and New York, N. Y.
Filed November 28, 1927. Serial No. 258,120. PUBLISHED JANUARY 3, 1928. Class 43.

239,717. CERTAIN WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed November 26, 1927. Serial No. 258,066. PUBLISHED JANUARY 3, 1928. Class 42.

239,718. TEXTILE RUGS. CASTELLI BROS., INC., New York, N. Y.
Filed November 26, 1927. Serial No. 258,065. PUBLISHED JANUARY 3, 1928. Class 42.

239,719. PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAMS, ROUGE, LIP STICKS, BRILLIANTINE, BATH SALTS, AND SACHET. PARFUMS EMILIENNE MANASSE SOCIETE A RESPONSABILITE LIMITEE, Paris, France.
Filed November 16, 1927. Serial No. 257,633. PUBLISHED DECEMBER 27, 1927. Class 6.

239,720. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. THE FRIES & FRIES CO., doing business as Fate Products Co., Cincinnati, Ohio.
Filed November 16, 1927. Serial No. 257,623. PUBLISHED DECEMBER 27, 1927. Class 6.

239,721. SALVE FOR COUGHS, COLDS, CROUP, PAINS, SPRAINS, AND BRUISES. OWEN C. BRUCE, Kelsey City, Fla.
Filed November 16, 1927. Serial No. 257,615. PUBLISHED DECEMBER 27, 1927. Class 6.

239,722. COMPOUND FOR WETTING OUT, BOILING OUT, BLEACHING, SCOURING, SOFTENING, THROWING, DEGUMMING, DYEING, FINISHING, WEIGHTING, LUBRICATING, CLEANING, AND RENDERING HYGROSCOPIC ALL FIBRES, YARNS, AND FABRICS CONSISTING OF AND MADE FROM COTTON, WOOL, SILK, ART SILK, RAYON, CELANESE, TUSSAH, JUTE, HEMP, SISAL, CHINA GRASS, AND OTHER FIBRES OF A VEGETABLE OR CHEMICAL NATURE. JOHN CAMPBELL & CO., New York, N. Y.
Filed November 15, 1927. Serial No. 257,588. PUBLISHED DECEMBER 27, 1927. Class 6.

239,723. COLD CREAM, VANISHING CREAM, SHAMPOO, LEMON CREAM, PERFUMES, AND TOILET WATER. GEORG SCHICHT A. G., Aussig, Czechoslovakia.
Filed September 24, 1927. Serial No. 255,205. PUBLISHED JANUARY 3, 1928. Class 6.

239,724. SOAP. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed September 22, 1927. Serial No. 255,072. PUBLISHED JANUARY 3, 1928. Class 4.

239,725. SOAP. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed September 22, 1927. Serial No. 255,071. PUBLISHED JANUARY 3, 1928. Class 4.

239,726. TALCUM POWDER. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed September 19, 1927. Serial No. 254,929. PUBLISHED JANUARY 3, 1928. Class 6.

239,727. ANTISEPTIC AND DISINFECTANT. THE OAKLAND CHEMICAL COMPANY, New York, N. Y.
Filed September 16, 1927. Serial No. 254,815. PUBLISHED JANUARY 3, 1928. Class 6.

239,728. CERTAIN NAMED PENS AND PAPER. ABRAHAM ROSENBERG, doing business as Apt Pen Co., Brooklyn, N. Y.
Filed September 12, 1927. Serial No. 254,650. PUBLISHED JANUARY 3, 1928. Class 37.

239,729. PERIODICAL. E. HOFER & SONS, Salem, Oreg.
Filed September 12, 1927. Serial No. 254,633. PUBLISHED NOVEMBER 29, 1927. Class 38.

239,730. WEEKLY PUBLICATION. THE ALADDIN PUBLISHERS, Rodgers Forge and Baltimore, Md.
Filed September 3, 1927. Serial No. 254,339. PUBLISHED JANUARY 3, 1928. Class 38.

239,731. SOAP. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed August 24, 1927. Serial No. 253,908. PUBLISHED JANUARY 3, 1928. Class 4.

239,732. COMPOUND USED TO KEEP THE INTERIOR OF BOILERS IN A SCALE AND RUST PROOF CONDITION. GEORGE HENRY WERFELMAN, doing business as Industrial Gasket and Packing Co., Los Angeles, Calif.
Filed August 16, 1927. Serial No. 253,521. PUBLISHED DECEMBER 27, 1927. Class 6.

239,733. ARTIFICIAL AND SYNTHETIC PERFUMES AND ESSENTIAL OILS. M. NAEF & CO., Geneva, Switzerland.
Filed August 15, 1927. Serial No. 253,476. PUBLISHED JANUARY 3, 1928. Class 6.

239,734. PERFUMED AND TOILET SOAPS. PARFUMS EMILIENNE MANASSE, SOCIETE A RESPONSABILITE LIMITEE, Paris, France.
Filed November 16, 1927. Serial No. 257,634. PUBLISHED JANUARY 3, 1928. Class 4.

239,735. SOAPS. SOCIETE EN NOM COLLECTIF M. & L. BIETTE FRERES, Nantes, France.
Filed November 15, 1927. Serial No. 257,601. PUBLISHED JANUARY 3, 1928. Class 4.

239,736. TOBACCO-LEAF-STRIPPING MACHINES AND MACHINERY USED IN CONNECTION WITH THE MANUFACTURE OF TOBACCO. MORRIS GODFREY PHILIP PHILLIPS, London, England.
Filed November 12, 1927. Serial No. 257,511. PUBLISHED JANUARY 3, 1928. Class 23.

239,737. COMPOUND FOR WETTING OUT, BOILING OUT, BLEACHING, SCOURING, SOFTENING, THROWING, DEGUMMING, DYEING, FINISHING, WEIGHTING, LUBRICATING, CLEANING, AND RENDERING HYDROSCOPIC ALL FIBRES, YARNS, AND FABRICS CONSISTING OF AND MADE FROM COTTON, WOOL, SILK, ART SILK, RAYON, TUSSAH, JUTE, HEMP, SISAL, CHINA GRASS, AND OTHER FIBRES OF A VEGETABLE OR CHEMICAL NATURE. JOHN CAMPBELL & CO., New York, N. Y.
Filed November 7, 1927. Serial No. 257,161. PUBLISHED DECEMBER 13, 1927. Class 6.

239,738. MACHINE KNIVES INCLUDING PAPER-CUTTING, LUMBER, METAL-SHEARING, TANNING, AND PAPER-MILL MACHINERY. R. J. DOWD KNIFE WORKS, Beloit, Wis.
Filed November 7, 1927. Serial No. 257,153. PUBLISHED JANUARY 3, 1928. Class 23.

239,739. PREPARED CLAY FOR USE IN MODELING AND ART WORK. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed October 29, 1927. Serial No. 256,768. PUBLISHED DECEMBER 20, 1927. Class 1.

239,740. REFRACTORY CEMENT OR MORTAR. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed October 29, 1927. Serial No. 256,767. PUBLISHED DECEMBER 27, 1927. Class 12.

239,741. HAIR-TRIMMING ATTACHMENT FOR RAZORS, TRIMETTE COMPANY, New York, N. Y.
Filed October 26, 1927. Serial No. 256,643. PUBLISHED JANUARY 3, 1928. Class 23.

239,742. CLOSURE CAPS. ANCHOR CAP & CLOSURE CORPORATION, Long Island City, N. Y.
Filed October 25, 1927. Serial No. 256,558. PUBLISHED DECEMBER 20, 1927. Class 50.

239,743. BRICK. ACME BRICK COMPANY, Fort Worth, Tex.
Filed October 24, 1927. Serial No. 256,506. PUBLISHED DECEMBER 27, 1927. Class 12.

239,744. BRICK. ACME BRICK COMPANY, Fort Worth, Tex.
Filed October 24, 1927. Serial No. 256,505. PUBLISHED DECEMBER 20, 1927. Class 12.

239,745. COAL. NEW YORK COAL COMPANY, Columbus, Ohio.
Filed October 22, 1927. Serial No. 256,478. PUBLISHED DECEMBER 13, 1927. Class 1.

239,746. LIME. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio.
Filed October 10, 1927. Serial No. 255,865. PUBLISHED DECEMBER 27, 1927. Class 12.

239,747. LIME. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio.
Filed October 10, 1927. Serial No. 255,864. PUBLISHED DECEMBER 27, 1927. Class 12.

239,748. LIME. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio.
Filed October 10, 1927. Serial No. 255,863. PUBLISHED DECEMBER 27, 1927. Class 12.

239,749. CIGARS. CORRAL, WODISKA Y CA., Tampa, Fla.
Filed October 1, 1927. Serial No. 255,485. PUBLISHED JANUARY 3, 1928. Class 17.

239,750. TIRE SPREADERS. SHAPIRO MANUFACTURING COMPANY, Philadelphia, Pa.
Filed September 22, 1927. Serial No. 255,087. PUBLISHED JANUARY 3, 1928. Class 23.

239,751. MILLING MACHINES; CYLINDRICAL, SURFACE, TOOL, AND CUTTER GRINDING MACHINES; GEAR-CUTTING MACHINES, AND PARTS THEREOF. BROWN & SHARPE MFG. CO., Providence, R. I.
Filed September 22, 1927. Serial No. 255,052. PUBISHED JANUARY 3, 1928. Class 23.

239,752. STORAGE BATTERIES. DIXIE BATTERY MANUFACTURING CO., Bessemer, Ala.
Filed September 12, 1927. Serial No. 254,656. PUBLISHED DECEMBER 27, 1927. Class 21.

239,753. PERIODICAL. THE WILLIAMS INSTITUTE, INC., Glendale, Calif.
Filed November 17, 1927. Serial No. 257,719. PUBLISHED JANUARY 3, 1928. Class 38.

239,754. LENSES FOR VEHICLE LAMPS. INDIANA LAMP CORPORATION, Connersville, Ind.
Filed March 2, 1927. Serial No. 245,095. PUBLISHED JANUARY 3, 1928. Class 33.

239,755. REMEDY FOR PULMONARY DISEASES. DR. ERNST LAVES, Hanover, Germany.
Filed March 22, 1927. Serial No. 246,165. PUBLISHED DECEMBER 27, 1927. Class 6.

239,756. REMEDY FOR RHEUMATISM. DR. ERNST LAVES, Hanover, Germany.
Filed March 22, 1927. Serial No. 246,166. PUBLISHED DECEMBER 27, 1927. Class 6.

239,757. MEDICINE OR PREPARATION FOR BRONCHITIS, BRONCHIAL ASTHMA, AND CHRONIC COUGH. HARRY KARASICK, Chicago, Ill.
Filed March 31, 1927. Serial No. 246,689. PUBLISHED JUNE 21, 1927. Class 6.

239,758. FURNITURE, PARTICULARLY TABLES, TOPS FOR TABLES, KITCHEN CABINETS, TOPS FOR KITCHEN CABINETS, AND STOOLS. THE PORCELAIN ENAMEL AND MANUFACTURING COMPANY OF BALTIMORE, Baltimore, Md.
Filed March 31, 1927. Serial No. 246,706. PUBLISHED JANUARY 3, 1928. Class 32.

239,759. ACETATE OF ALUMINA, CITRATE OF ALUMINA, ETC. JACQUES WOLF & Co., Passaic, N. J.
Filed April 1, 1927. Serial No. 246,752. PUBLISHED DECEMBER 27, 1927. Class 6.

239,760. ELECTROTYPES. ROYAL ELECTROTYPE COMPANY, Philadelphia, Pa.
Filed April 13, 1927. Serial No. 247,391. PUBLISHED DECEMBER 27, 1927. Class 50.

239,761. COD-LIVER OIL. ALBERT MOHN, Bergen, Norway.
Filed April 16, 1927. Serial No. 247,555. PUBLISHED JUNE 14, 1927. Class 6.

239,762. TEXTILE GOODS—NAMELY, STEAMER ROBES, LAP ROBES, RUGS, AND BED BLANKETS. NEWICHAWANICK COMPANY, South Berwick, Me.
Filed April 19, 1927. Serial No. 247,700. PUBLISHED JANUARY 3, 1928. Class 42.

239,763. PRETZELS AND BISCUITS. SARAH A. ESTERLY, doing business as Reading Biscuit Co., Reading, Pa.
Filed April 20, 1927. Serial No. 247,753. PUBLISHED DECEMBER 27, 1927. Class 46.

239,764. PRETZELS. SARAH A. ESTERLY, doing business as Reading Biscuit Co., Reading, Pa.
Filed April 20, 1927. Serial No. 247,754. PUBLISHED DECEMBER 27, 1927. Class 46.

239,765. BRASS AND MALLEABLE-METAL VALVES AND COCKS. DETROIT BRASS & MALLEABLE WORKS, Detroit, Mich.
Filed May 2, 1927. Serial No. 248,287. PUBLISHED JANUARY 3, 1928. Class 13.

239,766. CANNED FRUITS, CANNED VEGETABLES, FRUIT PRESERVES, KETCHUP, AND CHILI SAUCE. NEW YORK CANNERS INC., Rochester, N. Y.
Filed May 2, 1927. Serial No. 248,340. PUBLISHED DECEMBER 27, 1927. Class 46.

239,767. GINGER ALE. YUKON CLUB COMPANY, East Orange, N. J.
Filed May 4, 1927. Serial No. 248,455. PUBLISHED JANUARY 3, 1928. Class 45.

239,768. CANNED VEGETABLES—NAMELY, CANNED PIMIENTOS. GARNEAU & DE BRUYN, INC., doing business as Bico Distributing Company, New York, N. Y.
Filed May 11, 1927. Serial No. 248,830. PUBLISHED JANUARY 3, 1928. Class 46.

239,769. SOAPS AND WASHING COMPOUNDS. FRIEDLEY-VOSHARDT CO., Chicago, Ill.
Filed May 16, 1927. Serial No. 249,056. PUBLISHED JANUARY 3, 1928. Class 4.

239,770. AUTOMOBILE ACCESSORIES—NAMELY, WATER-CIRCULATING PUMPS FOR AUTOMOBILES HAVING WATER-COOLED ENGINES—AND HAND EMERY GRINDERS. JAMBOR TOOL & STAMPING COMPANY, Milwaukee, Wis.
Filed May 19, 1927. Serial No. 249,226. PUBLISHED JANUARY 3, 1928. Class 23.

239,771. CANNED VEGETABLES, CANNED FRUITS, CANNED BERRIES, CHILI SAUCE, TOMATO KETCHUP, AND FRUIT PRESERVES. NEW YORK CANNERS INC., Rochester, N. Y.
Filed May 21, 1927. Serial No. 249,370. PUBLISHED DECEMBER 27, 1927. Class 46.

239,772. COLD CREAM. DAGGETT & RAMSDELL, New York, N. Y.
Filed June 3, 1927. Serial No. 249,950. PUBLISHED DECEMBER 27, 1927. Class 6.

239,773. CANDY. WILLIAM J. MCGRATH, Little Rock, Ark.
Filed June 3, 1927. Serial No. 249,979. PUBLISHED JANUARY 3, 1928. Class 46.

239,774. PERIODICALS. MARK C. HANNA, doing business as Hanna Publishing Company, Milwaukee, Wis.
Filed November 18, 1927. Serial No. 257,728. PUBLISHED JANUARY 3, 1928. Class 38.

239,775. DAILY PERIODICAL. RACING INTELLIGENCE CORPORATION, New York, N. Y.
Filed November 19, 1927. Serial No. 257,814. PUBLISHED JANUARY 3, 1928. Class 38.

239,776. DAILY PERIODICAL. RACING INTELLIGENCE CORPORATION, New York, N. Y.
Filed November 19, 1927. Serial No. 257,815. PUBLISHED JANUARY 3, 1928. Class 38.

239,777. ANNUAL MAGAZINE. JAMES H. BROWN, doing business as Michigan Automobile Tours, Battle Creek, Mich.
Filed November 22, 1927. Serial No. 257,915. PUBLISHED JANUARY 3, 1928. Class 38.

239,778. MUSIC BOOKS, MUSICAL COMPOSITIONS, SHEET MUSIC, AND MUSIC INSTRUCTION CHARTS. WONDERKODE, INC., New York, N. Y.
Filed November 22, 1927. Serial No. 257,950. PUBLISHED JANUARY 3, 1928. Class 38.

239,779. MONTHLY MAGAZINE. NATIONAL EMPLOYMENT EXCHANGE, New York, N. Y.
Filed November 23, 1927. Serial No. 257,989. PUBLISHED JANUARY 3, 1928. Class 38.

239,780. CARAMEL-SUGAR COLOR. WALLERSTEIN COMPANY, INC., New York, N. Y.
Filed November 23, 1927. Serial No. 258,005. PUBLISHED JANUARY 3, 1928. Class 6.

239,781. SANDWICHES. GUS MYERS, Fargo, N. Dak.
Filed November 18, 1927. Serial No. 257,759. PUBLISHED JANUARY 3, 1928. Class 46.

239,782. EXTRACT OF GLAND TISSUE FOR USE IN THE TREATMENT OF VARIOUS TYPES OF OVARIAN DISFUNCTION. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed August 18, 1927. Serial No. 253,489. PUBLISHED NOVEMBER 22, 1927. Class 6.

239,783. POCKET FRICTION CIGAR LIGHTERS. M. E. BERNHARDT COMPANY, INC., New York, N. Y.
Filed August 20, 1927. Serial No. 253,734. PUBLISHED JANUARY 3, 1928. Class 34.

239,784. MALT SYRUP. LUCKY LIFE DISTRIBUTING CO., Philadelphia, Pa.
Filed September 7, 1927. Serial No. 254,464. PUBLISHED DECEMBER 27, 1927. Class 46.

239,785. BILLIARD-TABLE REFLECTORS MADE OF METAL. SILVEROLO LAMPS, INC., Baltimore, Md.
Filed September 28, 1927. Serial No. 255,356. PUBLISHED JANUARY 3, 1928. Class 34.

239,786. DEVICE USED AS AN AID TO HEARING. E. B. MEYROWITZ, INC., New York, N. Y.
Filed September 29, 1927. Serial No. 255,387. PUBLISHED DECEMBER 27, 1927. Class 44.

239,787. MALT EXTRACT. SAMUEL KUNIN & SONS, doing business as The Pilzenbrau Co., Chicago, Ill.
Filed September 30, 1927. Serial No. 255,449. PUBLISHED DECEMBER 27, 1927. Class 46.

239,788. VEGETABLE SALAD OIL. D. F. DEBERNARDI & Co., San Francisco, Calif.
Filed October 1, 1927. Serial No. 255,488. PUBLISHED DECEMBER 27, 1927. Class 46.

239,789. MALT EXTRACTS FOR FOOD PURPOSES. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed October 6, 1927. Serial No. 255,697. PUBLISHED DECEMBER 27, 1927. Class 46.

239,790. BOXES, BASKETS, ETC. ALFRED L. SIMON & COMPANY, New York, N. Y.
Filed October 11, 1927. Serial No. 255,939. PUBLISHED JANUARY 3, 1928. Class 2.

239,791. EVAPORATED MILK AND CONDENSED MILK. CARNATION MILK PRODUCTS COMPANY, Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash.
Filed October 12, 1927. Serial No. 255,960. PUBLISHED DECEMBER 27, 1927. Class 46.

239,792. FRESH LEMONS. CHULA VISTA MUTUAL LEMON ASSOCIATION, INC., Chula Vista, Calif.
Filed November 19, 1927. Serial No. 257,785. PUBLISHED JANUARY 3, 1928. Class 46.

239,793. FRESH CITRUS FRUITS. DUARTE-MONROVIA CITRUS ASSOCIATION, Duarte, Calif.
Filed November 19, 1927. Serial No. 257,790. PUBLISHED JANUARY 3, 1928. Class 46.

239,794. WHEAT FLOUR. MONTANA FLOUR MILLS COMPANY, Lewistown, Mont.
Filed November 21, 1927. Serial No. 257,844. PUBLISHED JANUARY 3, 1928. Class 46.

239,795. BUTTER. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed November 21, 1927. Serial No. 257,853. PUBLISHED JANUARY 3, 1928. Class 46.

239,796. TOASTED SANDWICHES. C. V. CHAMPION & COMPANY, Danville, Ill.
Filed November 23, 1927. Serial No. 257,967. PUBLISHED JANUARY 3, 1928. Class 46.

239,797. BREAD. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 25, 1927. Serial No. 258,019. PUBLISHED JANUARY 3, 1928. Class 46.

239,798. BREAD. VIETMEYER BROS., INC., Jersey City, N. J.
Filed November 25, 1927. Serial No. 258,050. PUBLISHED JANUARY 3, 1928. Class 46.

239,799. WHEAT FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed November 26, 1927. Serial No. 258,074. PUBLISHED JANUARY 3, 1928. Class 46.

239,800. BREAD. VIETMEYER BROS., INC., Jersey City, N. J.
Filed November 25, 1927. Serial No. 258,051. PUBLISHED JANUARY 3, 1928. Class 46.

239,801. A CARAMEL-SUGAR COLOR. WALLERSTEIN COMPANY, INC., New York, N. Y.
Filed November 23, 1927. Serial No. 258,006. PUBLISHED JANUARY 3, 1928. Class 6.

239,802. RIGID ELECTRICAL CONDUIT. MOHAWK CONDUIT CO., INC., Cohoes, N. Y.
Filed June 29, 1926. Serial No. 233,891. PUBLISHED AUGUST 3, 1926. Class 21.

239,803. RIGID ELECTRICAL CONDUIT. MOHAWK CONDUIT CO., INC., Cohoes, N. Y.
Filed June 29, 1926. Serial No. 233,890. PUBLISHED AUGUST 3, 1926. Class 21.

239,804. RIGID ELECTRICAL CONDUIT. MOHAWK CONDUIT CO., INC., Cohoes, N. Y.
Filed June 29, 1926. Serial No. 233,889. PUBLISHED AUGUST 3, 1926. Class 21.

239,805. TABLE SALT. SCHWABACHER BROS. & CO. INC., Seattle, Wash.
Filed May 29, 1926. Serial No. 232,521. PUBLISHED JULY 13, 1926. Class 6.

239,806. BIMONTHLY MAGAZINE. ZOOLOGICAL SOCIETY OF SAN DIEGO, San Diego, Calif.
Filed May 15, 1926. Serial No. 231,714. PUBLISHED JANUARY 3, 1928. Class 38.

239,807. SPIRIT VARNISH. LASCO SHELLAC AND LACQUER COMPANY, Baltimore, Md.
Filed April 20, 1926. Serial No. 230,455. PUBLISHED DECEMBER 27, 1927. Class 16.

239,808. ASBESTOS ROOF CEMENT. CHICAGO PAINT WORKS, Chicago, Ill.
Filed March 25, 1926. Serial No. 229,157. PUBLISHED MAY 24, 1927. Class 12.

239,809. MALT SYRUP AND MALT EXTRACTS FOR FOOD PURPOSES. PEORIA MALT FOOD PRODUCTS COMPANY, Peoria, Ill.
Filed February 1, 1926. Serial No. 226,737. PUBLISHED JUNE 29, 1926. Class 46.

239,810. LEATHER. LUCIUS BEEBE AND SONS, INC., Boston, Mass.
Filed November 20, 1925. Serial No. 223,571. PUBLISHED DECEMBER 13, 1927. Class 1.

239,811. GLASS GLOBES FOR LIGHTING FIXTURES. GRACE E. MATHIEU, New York, N. Y.
Filed October 31, 1925. Serial No. 222,625. PUBLISHED MARCH 23, 1926. Class 33.

239,812. COFFEE. NICHOLAS CASSINO, doing business as Cassino Coffee Company, Vicksburg, Miss.
Filed January 5, 1926. Serial No. 225,504. PUBLISHED DECEMBER 27, 1927. Class 46.

239,813. HAIR NETS. THE B. FRANKEL CO. INC., New York, N. Y.
Filed October 24, 1925. Serial No. 222,232. PUBLISHED DECEMBER 8, 1925. Class 42.

239,814. RADIO BATTERY CONSOLES AND CABINETS. WILLIAM H. KITTO, doing business as Cadillac Radio Mfg. Co., Detroit, Mich.
Filed October 21, 1925. Serial No. 222,075. PUBLISHED JANUARY 18, 1927. Class 32.

239,815. ALTERATIVES, ANTACIDS, ANTIRHEUMATICS, ETC. DR. ERNST KRAFT VORM. BOXBERGER'S HOFAPOTHEKE, Bad Kissingen, Germany.
Filed October 20, 1925. Serial No. 222,036. PUBLISHED JANUARY 3, 1928. Class 6.

239,816. ALTERATIVES, ANTACIDS, ANTIRHEUMATICS, ETC. DR. ERNST KRAFT VORM. BOXBERGER'S HOFAPOTHEKE, Bad Kissingen, Germany.
Filed October 20, 1925. Serial No. 222,035. PUBLISHED JANUARY 3, 1928. Class 6.

239,817. FERTILIZER. PIEDMONT-MT. AIRY GUANO CO., Baltimore, Md.
Filed August 9, 1926. Serial No. 235,751. PUBLISHED JANUARY 3, 1928. Class 10.

239,818. LIQUID DETERGENT FOR LAUNDRIES AND DRY-CLEANING PLANTS ADAPTED TO MINGLE WITH WASHING SUDS. PINE-O-PINE COMPANY, Houston, Tex.
Filed August 17, 1926. Serial No. 236,092. PUBLISHED NOVEMBER 30, 1926. Class 4.

239,819. DOUGHNUTS. TRANO CORPORATION, New York, N. Y.
Filed July 31, 1926. Serial No. 235,440. PUBLISHED JANUARY 3, 1928. Class 46.

239,820. GOLD-PLATED AND GOLD-FILLED CUFF BUTTONS. ART WIRE AND STAMPING COMPANY, Arlington, N. J.
Filed January 25, 1924. Serial No. 191,250. PUBLISHED APRIL 21, 1925. Class 28.

239,821. CANNED FISH. M. A. REX, doing business as California Sea Food Co., also doing business as Pacific Marine Products Co., Los Angeles and East San Pedro, Calif.
Filed November 20, 1924. Serial No. 205,622. PUBLISHED JANUARY 3, 1928. Class 46.

239,822. HOT-WATER BOTTLES, ICE BAGS, AND FOUNTAIN SYRINGES. THE LOBL MANUFACTURING COMPANY, Middleboro, Mass.
Filed December 13, 1924. Serial No. 206,674. PUBLISHED FEBRUARY 10, 1925. Class 44.

239,823. BOILER RELIEF VALVES. BOSTON BRASS COMPANY, Waltham, Mass.
Filed July 30, 1925. Serial No. 218,099. PUBLISHED OCTOBER 20, 1925. Class 13.

239,824. BOILER RELIEF VALVES. BOSTON BRASS COMPANY, Waltham, Mass.
Filed July 30, 1925. Serial No. 218,100. PUBLISHED OCTOBER 20, 1925. Class 13.

239,825. PANCAKE FLOUR, OATS PREPARED FOR HUMAN FOOD, TABLE SYRUP, AND COFFEE. THE FISHBACK COMPANY, Indianapolis, Ind.
Filed October 2, 1925. Serial No. 221,101. PUBLISHED DECEMBER 27, 1927. Class 46.

239,826. HORN OR LOUD-SPEAKING UNITS FOR RADIO RECEIVING SETS. FRISCH BROTHERS, Wilmington, Del.
Filed October 12, 1925. Serial No. 221,605. PUBLISHED SEPTEMBER 20, 1927. Class 21.

239,827. CERTAIN NAMED SOAPS, POWDERS, AND POLISHES. LEONARD L. DORSCHLER, Chicago, Ill.
Filed July 21, 1926. Serial No. 234,826. PUBLISHED JANUARY 3, 1928. Class 4.

239,828. LENS CLEANER. ADOLPH G. BECHTOLD, Brooklyn, N. Y.
Filed September 8, 1926. Serial No. 236,981. PUBLISHED JANUARY 3, 1928. Class 4.

239,829. MEN'S NEGLIGEE SHIRTS. JOEL ISAACS SHIRT CO., INC., New York, N. Y.
Filed August 30, 1926. Serial No. 236,647. PUBLISHED JANUARY 4, 1927. Class 39.

239,830. LIQUID-FUEL-BURNING DEVICES. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill.
Filed November 2, 1927. Serial No. 256,984. PUBLISHED JANUARY 3, 1928. Class 34.

239,831. READY-MIXED PAINTS, PAINT ENAMELS, AND VARNISHES. ARTHUR SOIBERG, doing business as Catskill Paint & Varnish Co., Chicago, Ill.
Filed November 2, 1927. Serial No. 256,979. PUBLISHED DECEMBER 27, 1927. Class 16.

239,832. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,928. PUBLISHED DECEMBER 13, 1927. Class 42.

239,833. PERFUMES AND LIP STICKS. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed November 1, 1927. Serial No. 256,862. PUBLISHED DECEMBER 27, 1927. Class 6.

239,834. DOUBLE SALT SODIUM CARBONATE SULFATE USUALLY HAVING THE FORMULA $Na_2CO_3.2Na_2SO_4$. BURNHAM CHEMICAL COMPANY, Westend, Calif.
Filed November 1, 1927. Serial No. 256,857. PUBLISHED DECEMBER 27, 1927. Class 6.

239,835. WATER HEATERS USING OIL OR GAS. EVERHOT HEATER COMPANY, Detroit, Mich.
Filed October 31, 1927. Serial No. 256,814. PUBLISHED JANUARY 3, 1928. Class 34.

239,836. BRICK. ACME BRICK COMPANY, Fort Worth, Tex.
Filed October 24, 1927. Serial No. 256,507. PUBLISHED DECEMBER 13, 1927. Class 12.

239,837. BRICK. ACME BRICK COMPANY, Fort Worth, Tex.
Filed October 24, 1927. Serial No. 256,504. PUBLISHED DECEMBER 20, 1927. Class 12.

239,838. BRICK. ACME BRICK COMPANY, Fort Worth, Tex.
Filed October 24, 1927. Serial No. 256,503. PUBLISHED DECEMBER 13, 1927. Class 12.

239,839. BISCUIT, CAKE, AND CRACKERS. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed October 21, 1927. Serial No. 256,416. PUBLISHED DECEMBER 27, 1927. Class 46.

239,840. TRAVELING BAGS, HAND BAGS, TRUNKS, POCKETBOOKS, SUITCASES, BILL FOLDS, PORTFOLIOS, AND TRAVELING KITS—NAMELY, BAGS OR ROLLS FOR HOLDING TOILET OR OTHER ARTICLES FOR TRAVELING. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed October 20, 1927. Serial No. 256,362. PUBLISHED DECEMBER 27, 1927. Class 3.

239,841. CRUDE RUBBER AND RUBBER CREPE. CHARLES E. WOOD, INCORPORATED, New York, N. Y.
Filed October 19, 1927. Serial No. 256,320. PUBLISHED DECEMBER 20, 1927. Class 1.

239,842. SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed October 19, 1927. Serial No. 256,291. PUBLISHED DECEMBER 13, 1927. Class 12.

239,843. WINDOWS, SASHES, AND WINDOW FRAMES. BLISS STEEL PRODUCTS CORPORATION, East Syracuse, N. Y.
Filed October 19, 1927. Serial No. 256,278. PUBLISHED DECEMBER 27, 1927. Class 12.

239,844. ROQUEFORT CHEESE. SOCIÉTÉ DES ETABLISSEMENTS LOUIS RIGAL, Roquefort, France.
Filed October 18, 1927. Serial No. 256,269. PUBLISHED DECEMBER 27, 1927. Class 46.

239,845. RED-CEDAR SHINGLES. BASIL JOHN JAYNE, Vancouver, British Columbia, Canada.
Filed September 2, 1927. Serial No. 254,289. PUBLISHED DECEMBER 13, 1927. Class 12.

239,846. CERTAIN-NAMED CONSTRUCTION MATERIALS. THE BERGER MANUFACTURING COMPANY, Canton, Ohio.
Filed September 1, 1927. Serial No. 254,226. PUBLISHED DECEMBER 13, 1927. Class 12.

239,847. HARD OR SEMIHARD CRACKERS, WAFERS, BISCUITS, AND JUMBLES. KEEBLER WEYL BAKING COMPANY, Philadelphia, Pa.
Filed August 29, 1927. Serial No. 254,109. PUBLISHED DECEMBER 27, 1927. Class 46.

239,848. PORTLAND CEMENT. PHOENIX PORTLAND CEMENT COMPANY, Nazareth, Pa.
Filed August 25, 1927. Serial No. 253,954. PUBLISHED DECEMBER 20, 1927. Class 12.

239,849. PLYWOOD, STEEL, AND PYROXYLIN VENEERS. AMERICAN TARSO COMPANY, Boston, Mass.
Filed August 22, 1927. Serial No. 253,786. PUBLISHED DECEMBER 20, 1927. Class 12.

239,850. COAL. THE MASTELLER COAL COMPANY, Keyser, W. Va.
Filed August 18, 1927. Serial No. 253,680. PUBLISHED NOVEMBER 1, 1927. Class 1.

239,851. FRESH DECIDUOUS FRUITS. CALIFORNIA ORCHARD PRODUCTS CO., San Francisco, Calif.
Filed August 17, 1927. Serial No. 253,571. PUBLISHED DECEMBER 27, 1927. Class 46.

239,852. COFFEE. BOLLINGER-HANCOCK COFFEE CO., INC., Louisville, Ky.
Filed August 12, 1927. Serial No. 253,354. PUBLISHED JANUARY 3, 1928. Class 46.

239,853. COFFEE. BOLLINGER-HANCOCK COFFEE CO., INC., Louisville, Ky.
Filed August 12, 1927. Serial No. 253,353. PUBLISHED JANUARY 3, 1928. Class 46.

239,854. PLYWOOD. AMERICAN EXPORT DOOR CORPORATION, Tacoma, Wash.
Filed October 1, 1927. Serial No. 255,477. PUBLISHED DECEMBER 20, 1927. Class 12.

239,855. ELECTRIC HAIR DRYERS, ELECTRIC VIBRATORS, ELECTRIC MASSAGE APPARATUS, VIOLET-RAY APPARATUS. BRETTY & BECKHEM, New York, N. Y.
Filed October 17, 1927. Serial No. 256,169. PUBLISHED DECEMBER 27, 1927. Class 44.

239,856. MEDICINAL WINE FOR USE AS A GENERAL TONIC. JACOB PINKINSON, doing business as La Ray Pharmacal Laboratory, Los Angeles, Calif.
Filed October 15, 1927. Serial No. 256,139. PUBLISHED DECEMBER 27, 1927. Class 6.

239,857. ASTRINGENTS, BATH SALTS, BLEACHING LOTION, BRILLIANTINE, COMPACTS, TOILET CREAMS, DEODORANT, HONEY AND ALMOND LOTION, LIP STICKS, NAIL POLISH, NAIL WHITE, LIQUID PERFUMES, SOLID PERFUMES, FACE POWDERS, ROUGE, SHAMPOO, SKIN TONIC, TALCUM POWDER, AND TOILET WATERS. JEAN STUART COSMETICS, INC., New Haven, Conn.
Filed October 15, 1927. Serial No. 256,125. PUBLISHED DECEMBER 27, 1927. Class 6.

239,858. AUTOMOBILES AND THEIR STRUCTURAL PARTS. CHRYSLER SALES CORPORATION, Detroit, Mich.
Filed October 14, 1927. Serial No. 256,075. PUBLISHED JANUARY 3, 1928. Class 19.

239,859. PAINTS AND CERTAIN NAMED PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed October 12, 1927. Serial No. 255,974. PUBLISHED DECEMBER 27, 1927. Class 16.

239,860. SEMOLINA, A PRODUCT MADE FROM WHEAT FOR THE MANUFACTURE OF MACARONI. THE FRANK R. PRINA CORPORATION, New York, N. Y.
Filed November 17, 1927. Serial No. 257,703. PUBLISHED JANUARY 3, 1928. Class 46.

239,861. CEREAL BREAKFAST FOODS AND WHEAT FLOUR. THE MALTED CEREALS COMPANY, Burlington, Vt.
Filed November 17, 1927. Serial No. 257,688. PUBLISHED JANUARY 3, 1928. Class 46.

239,862. WHEAT FLOUR. SCHULTZ, BAUJAN & COMPANY, Beardstown, Ill.
Filed November 16, 1927. Serial No. 257,637. PUBLISHED DECEMBER 27, 1927. Class 46.

239,863. CHOCOLATES. ROCKWOOD & CO., New York, N. Y.
Filed November 15, 1927. Serial No. 257,600. PUBLISHED JANUARY 3, 1928. Class 46.

239,864. WHEAT FLOUR. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed November 11, 1927. Serial No. 257,439. PUBLISHED DECEMBER 27, 1927. Class 46.

239,865. CANNED CRANBERRY SAUCE. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed November 8, 1927. Serial No. 257,284. PUBLISHED JANUARY 3, 1928. Class 46.

239,866. SHOPPING BAGS OF PAPER, FABRIC, OR LEATHER. LUCY COTTON AMENT, New York, N. Y.
Filed November 5, 1927. Serial No. 257,088. PUBLISHED JANUARY 3, 1928. Class 3.

239,867. NATURAL POP CORN. REID, MURDOCH & Co., Chicago, Ill.
Filed November 4, 1927. Serial No. 257,081. PUBLISHED JANUARY 3, 1928. Class 46.

239,868. BIRD AND AQUARIUM SUPPLIES—NAMELY, BIRDSEED, BIRD LIFE BALL, MOULTING FOOD, SONG RESTORER, CUTTLE BONE, BIRD NESTING, EGG BREAD, NESTLING FOOD, HEMP AND PEPPERS, AND COLOR FOOD. AMERICAN SEED AND FOOD PRODUCTS, Chicago, Ill.
Filed November 3, 1927. Serial No. 256,988. PUBLISHED JANUARY 3, 1928. Class 46.

239,869. FRESH DECIDUOUS FRUITS, FRESH GRAPES, AND FRESH CITRUS FRUITS. MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif.
Filed November 2, 1927. Serial No. 256,963. PUBLISHED JANUARY 3, 1928. Class 46.

239,870. FRESH DECIDUOUS FRUITS, FRESH GRAPES, AND FRESH CITRUS FRUITS. MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif.
Filed November 2, 1927. Serial No. 256,962. PUBLISHED JANUARY 3, 1928. Class 46.

239,871. FRESH CITRUS FRUITS. L. MAXCY INC., Frostproof, Fla.
Filed November 2, 1927. Serial No. 256,959. PUBLISHED JANUARY 3, 1928. Class 46.

239,872. PACKAGED SOLID-FORM FOOD PRODUCTS COMPOSED ESSENTIALLY OF CHILE CON CARNE IN SOLID FORM. AMERICAN CHILE HOT DOG COMPANY, Cleveland, Ohio.
Filed October 31, 1927. Serial No. 256,804. PUBLISHED JANUARY 3, 1928. Class 46.

239,873. CANNED VEGETABLES. THE J. M. PAVER COMPANY, Chicago, Ill.
Filed October 28, 1927. Serial No. 256,742. PUBLISHED JANUARY 3, 1928. Class 46.

239,874. LEATHER IN THE PIECE. KEYSTONE LEATHER Co., Philadelphia, Pa.
Filed October 26, 1927. Serial No. 256,629. PUBLISHED DECEMBER 27, 1927. Class 1.

239,875. CANNED SHRIMP AND CANNED OYSTERS. JOHNSON CANNING COMPANY, Biloxi, Miss.
Filed October 26, 1927. Serial No. 256,628. PUBLISHED JANUARY 3, 1928. Class 46.

239,876. SELF-RISING WHEAT FLOUR. THE DUNLOP MILLING COMPANY, Clarksville, Tenn.
Filed October 25, 1927. Serial No. 256,567. PUBLISHED DECEMBER 27, 1927. Class 46.

239,877. WHEAT FLOUR. THE DUNLOP MILLING COMPANY, Clarksville, Tenn.
Filed October 25, 1927. Serial No. 256,566. PUBLISHED DECEMBER 27, 1927. Class 46.

239,878. CANDY. NUTRINE CANDY COMPANY, Chicago, Ill.
Filed October 24, 1927. Serial No. 256,536. PUBLISHED JANUARY 3, 1928. Class 46.

239,879. BRICK. ACME BRICK COMPANY, Fort Worth, Tex.
Filed October 24, 1927. Serial No. 256,508. PUBLISHED DECEMBER 13, 1927. Class 12.

239,880. MONTHLY PHARMACEUTICAL PUBLICATION. INTERNATIONAL TRADE PAPERS, INC., New York, N. Y.
Filed November 16, 1927. Serial No. 257,629. PUBLISHED JANUARY 3, 1928. Class 38.

239,881. MONTHLY PUBLICATION. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn.
Filed November 15, 1927. Serial No. 257,575. PUBLISHED JANUARY 3, 1928. Class 38.

239,882. TOILET SOAPS. LENTHERIC, INC., New York, N. Y.
Filed November 12, 1927. Serial No. 257,481. PUBLISHED JANUARY 3, 1928. Class 4.

239,883. VITELLUM COMPOUND EMPLOYED AS A LAXATIVE, LIVER, KIDNEY, AND STOMACH TONIC AND AN ALBUMEN OINTMENT EMPLOYED AS AN ANTISEPTIC HEALING SALVE. JOHN G. CHAMBERS, M. D., doing business as Dr. J. G. Chambers & Sons, Birmingham, Ala.
Filed November 10, 1927. Serial No. 257,344. PUBLISHED JANUARY 3, 1928. Class 6.

239,884. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed November 9, 1927. Serial No. 257,284. PUBLISHED JANUARY 3, 1928. Class 37.

239,885. MAGAZINE PUBLISHED MONTHLY. ALBERT PUBLISHING COMPANY, New York, N. Y.
Filed November 8, 1927. Serial No. 257,263. PUBLISHED JANUARY 3, 1928. Class 38.

239,886. WEEKLY PUBLICATIONS. NEW ENGLAND ROAD BUILDERS ASSOCIATION, Boston, Mass.
Filed November 4, 1927. Serial No. 257,077. PUBLISHED JANUARY 3, 1928. Class 38.

239,887. HOUSE AND HAND PASTE SOAP. LEO VAN GOODSNOVER, doing business as Van Goodsnover Bros. & Co., Chicago, Ill.
Filed November 3, 1927. Serial No. 257,041. PUBLISHED JANUARY 3, 1928. Class 4.

239,888. HAIR TONIC. FRIEND & BEUMER, Vici, Okla.
Filed November 3, 1927. Serial No. 257,007. PUBLISHED JANUARY 3, 1928. Class 6.

239,889. NEWSPAPER COLUMNS. LOUIS S. GRIGSBY, Washington, D. C.
Filed November 2, 1927. Serial No. 256,930. PUBLISHED JANUARY 3, 1928. Class 38.

239,890. PENS, FOUNTAIN PENS, AND PEN POINTS. THE SAGER PEN CORPORATION, Chicago, Ill., and New York, N. Y.
Filed October 21, 1927. Serial No. 256,426. PUBLISHED JANUARY 3, 1928. Class 37.

239,891. PENS, FOUNTAIN PENS, AND PEN POINTS. THE SAGER PEN CORPORATION, Chicago, Ill., and New York, N. Y.
Filed October 21, 1927. Serial No. 256,425. PUBLISHED JANUARY 3, 1928. Class 37.

239,892. PENS, FOUNTAIN PENS, AND PEN POINTS. THE SAGER PEN CORPORATION, Chicago, Ill., and New York, N. Y.
Filed October 21, 1927. Serial No. 256,424. PUBLISHED JANUARY 3, 1928. Class 37.

239,893. WRITING TABLETS. I. L. LYONS & COMPANY, LIMITED, New Orleans, La.
Filed October 18, 1927. Serial No. 256,257. PUBLISHED JANUARY 3, 1928. Class 37.

239,894. GENERAL CLEANING COMPOUND. HERBERT F. BRAITHWAITE, doing business as Sanlo Manufacturing Company, Brooklyn, N. Y.
Filed October 17, 1927. Serial No. 256,168. PUBLISHED JANUARY 3, 1928. Class 4.

239,895. SAPONACEOUS PASTE COMMONLY KNOWN AS SHAVING CREAM. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed October 15, 1927. Serial No. 256,126. PUBLISHED NOVEMBER 29, 1927. Class 4.

239,896. CORRESPONDENCE ENVELOPES. COAST ENVELOPE COMPANY, Los Angeles, Calif.
Filed October 12, 1927. Serial No. 255,966. PUBLISHED JANUARY 3, 1928. Class 37.

239,897. EASELS CONSTRUCTED OF CARDBOARD OR OTHER FIBROUS MATERIAL. FREEDMAN CUT-OUTS, INC., New York, N. Y.
Filed October 11, 1927. Serial No. 255,911. PUBLISHED JANUARY 3, 1928. Class 37.

239,898. METAL POLISH. THE FULLER BRUSH COMPANY, Hartford, Conn.
Filed October 5, 1927. Serial No. 255,656. PUBLISHED NOVEMBER 22, 1927. Class 4.

239,899. SALVES FOR THE SKIN AND BODY FOR RELIEVING PAIN AND A REMEDY FOR BURNS, BRUISES, WOUNDS, CONTUSIONS, ABRASIONS, ULCERS, AND INFLAMED CONDITIONS OF SKIN AND MUCOUS MEMBRANE. THE KIP CORPORATION, Los Angeles, Calif.
Filed October 3, 1927. Serial No. 255,561. PUBLISHED JANUARY 3, 1928. Class 6.

239,900. DRIED-PRUNE CANDY BARS. EUGENE FRUIT GROWERS ASSOCIATION, Eugene, Oreg.
Filed September 30, 1927. Serial No. 255,440. PUBLISHED DECEMBER 27, 1927. Class 46.

239,901. FACE CREAM, FACE POWDER, TOILET WATER, ASTRINGENT, LIP STICK, FACE ROUGE, HAIR DYE, WATER CREAM, BRILLIANTINE, HAND LOTION, TALCUM POWDER, NAIL POLISH, BANDOLINE, CURLING FLUID, CUTICLE REMOVER, EYEBROW PENCIL, AND HAIR WHITENER. J. NOTOVITZ, INC., doing business as The Mina Company, Chicago, Ill.
Filed November 4, 1927. Serial No. 257,079. PUBLISHED DECEMBER 27, 1927. Class 6.

239,902. SOLDER. RICHARDS COMPANY, INC., Boston, Mass.
Filed November 7, 1927. Serial No. 257,197. PUBLISHED DECEMBER 27, 1927. Class 14.

239,903. CARDBOARD CANS. IOWA CAN COMPANY, Keokuk, Iowa.
Filed November 8, 1927. Serial No. 257,289. PUBLISHED JANUARY 3, 1928. Class 2.

239,904. FIBRE ROPE. AJAX ROPE COMPANY, INC., New York, N. Y.
Filed November 9, 1927. Serial No. 257,266. PUBLISHED JANUARY 3, 1928. Class 7.

239,905. RUSTPROOFING MATERIAL. AMERICAN LANOLIN CORPORATION, Lawrence, Mass.
Filed November 9, 1927. Serial No. 257,269. PUBLISHED DECEMBER 27, 1927. Class 6.

239,906. POWDER FOR THE RELIEF OF HEADACHE OR OTHER ACHES OR PAINS. H. & J. LABORATORIES, Parkersburg, W. Va.
Filed November 10, 1927. Serial No. 257,360. PUBLISHED DECEMBER 27, 1927. Class 6.

239,907. SANITARY NAPKINS. S. H. KRESS & Co., New York, N. Y.
Filed November 10, 1927. Serial No. 257,367. PUBLISHED DECEMBER 27, 1927. Class 44.

239,908. SANITARY NAPKINS. S. H. KRESS & Co., New York, N. Y.
Filed November 10, 1927. Serial No. 257,368. PUBLISHED DECEMBER 27, 1927. Class 44.

239,909. SANITARY NAPKINS. S. H. KRESS & Co., New York, N. Y.
Filed November 10, 1927. Serial No. 257,369. PUBLISHED DECEMBER 27, 1927. Class 44.

239,910. SANITARY NAPKINS. S. H. KRESS & Co., New York, N. Y.
Filed November 10, 1927. Serial No. 257,370. PUBLISHED DECEMBER 27, 1927. Class 44.

239,911. LIQUID MEDICINE FOR THE TREATMENT OF RHEUMATISM. W. H. HOBBS, doing business as Hi Ski Medicine Co., Atlanta, Ga.
Filed November 11, 1927. Serial No. 257,415. PUBLISHED DECEMBER 27, 1927. Class 6.

239,912. LIQUID EXPECTORANT AND SEDATIVE FOR COUGHS, COLDS, BRONCHIAL IRRITATION, HUSKY VOICE, SORE THROAT, AND THE LIKE. VALENTINE H. SMITH & Co., INCORPORATED, Philadelphia, Pa.
Filed November 12, 1927. Serial No. 257,514. PUBLISHED DECEMBER 27, 1927. Class 6.

239,913. DEODORANT, DISINFECTANT, AND BLEACH. CONTINENTAL PRODUCTS CORPORATION, Los Angeles, Calif.
Filed November 14, 1927. Serial No. 257,528. PUBLISHED DECEMBER 27, 1927. Class 6.

239,914. CALCIUM CHLORIDE. SALINE PRODUCTS, INC., Los Angeles, Calif.
Filed November 14, 1927. Serial No. 257,561. PUBLISHED DECEMBER 27, 1927. Class 6.

239,915. PERFUMES. MAURICE LOEWE, Paris, France, assignor, by mesne assignments, to Isabey Paris Incorporated, New York, N. Y.
Filed January 12, 1927. Serial No. 242,781. PUBLISHED MAY 31, 1927. Class 6.

239,916. SEEDS, PLANTS, AND BULBS. THE J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio.
Filed January 18, 1927. Serial No. 243,008. PUBLISHED APRIL 5, 1927. Class 1.

239,917. COAL. MEADOR AND YOUNG, INCORPORATED, Nashville, Tenn.
Filed January 20, 1927. Serial No. 243,101. PUBLISHED APRIL 5, 1927. Class 1.

239,918. SALAD DRESSING—NAMELY, MAYONNAISE. ROYAL FOOD COMPANY, Berkeley, Calif.
Filed February 9, 1927. Serial No. 244,109. PUBLISHED DECEMBER 27, 1927. Class 46.

239,919. VARNISHES, PAINT ENAMELS, DRY, PASTE, AND READY-MIXED PAINTS, AND LACQUERS. NATIONAL AUTO VARNISPAR CO., INC., Louisville, Ky.
Filed February 14, 1927. Serial No. 244,363. PUBLISHED MAY 3, 1927. Class 16.

239,920. MALT CEREAL BEVERAGES, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL BY VOLUME. VALENTIN BLATZ BREWING COMPANY, Milwaukee, Wis.
Filed September 8, 1926. Serial No. 236,982. PUBLISHED NOVEMBER 8, 1927. Class 48.

239,921. MILK AND CHOCOLATE BEVERAGE. JOE LOWE CO. INC., Brooklyn, N. Y.
Filed October 26, 1926. Serial No. 239,256. PUBLISHED DECEMBER 27, 1927. Class 46.

239,922. HAIR PREPARATION—NAMELY, GROWER AND DRESSING. M-&-W CHEMICAL COMPANY, Chicago, Ill.
Filed October 27, 1926. Serial No. 239,308. PUBLISHED JANUARY 4, 1927. Class 6.

239,923. HAIR REFINER. MARY E. RICHARDSON, Washington, D. C.
Filed November 2, 1926. Serial No. 239,593. PUBLISHED FEBRUARY 8, 1927. Class 6.

239,924. COMBINATION BRASSIÈRE AND DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed November 10, 1926. Serial No. 239,886. PUBLISHED JANUARY 11, 1927. Class 39.

239,925. TRAYLIKE RECEPTACLES. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y.
Filed December 23, 1926. Serial No. 241,895. PUBLISHED JANUARY 3, 1928. Class 2.

239,926. DEODORANT AND DISINFECTANT. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo.
Filed October 28, 1927. Serial No. 256,726. PUBLISHED DECEMBER 27, 1927. Class 6.

239,927. CHEMICAL PREPARATION FOR PRESERVING NATURAL FLOWERS. GIOVANNI FIORE, New York, N. Y.
Filed October 27, 1927. Serial No. 256,667. PUBLISHED DECEMBER 27, 1927. Class 6.

239,928. NATURAL VANILLA, ARTIFICIAL VANILLA, AND COMPOUNDS OF THE SAME FOR FOOD-FLAVORING PURPOSES. FELTON CHEMICAL COMPANY, INC., Brooklyn, N. Y.
Filed October 27, 1927. Serial No. 256,605. PUBLISHED DECEMBER 27, 1927. Class 46.

239,929. THERAPEUTIC ELECTRIC LAMPS. YVETTE Co., New York, N. Y.
Filed October 26, 1927. Serial No. 256,645. PUBLISHED DECEMBER 27, 1927. Class 44.

239,930. TOMATO CHILI SAUCE. H. G. PRINCE & Co., Fruitvale, Calif.
Filed October 22, 1927. Serial No. 256,484. PUBLISHED DECEMBER 27, 1927. Class 46.

239,931. ANTISEPTIC TOILET POWDERS. PHILIP LEVIN, doing business as The Kathex Company, New York, N. Y.
Filed October 22, 1927. Serial No. 256,467. PUBLISHED DECEMBER 27, 1927. Class 6.

239,932. OIL-BURNING SYSTEMS COMPRISING LIQUID-FUEL CONVEYING, CONDUCTING, AND CONSUMING APPARATUS. LIQUO-GAS COMPANY, Erie, Pa.
Filed October 21, 1927. Serial No. 256,412. PUBLISHED JANUARY 3, 1928. Class 34.

239,933. CHEMICAL PREPARATIONS FOR REMOVING THE SHINE FROM WORN GARMENTS AND RENEWING THE TEXTURE THEREOF. THE CINO CHEMICAL PRODUCTS CO., doing business as Vani-Shine Manufacturing Co., Cincinnati, Ohio.
Filed October 21, 1927. Serial No. 256,397. PUBLISHED DECEMBER 27, 1927. Class 6.

239,934. FERTILIZERS. BONE DRY FERTILIZER COMPANY, Richmond, Va.
Filed October 20, 1927. Serial No. 256,329. PUBLISHED JANUARY 3, 1928. Class 10.

239,935. FLAT FOLDING PAPER CONTAINERS FOR MERCHANDISE. L. KEHLMANN CO., New York, N. Y.
Filed October 19, 1927. Serial No. 256,297. PUBLISHED JANUARY 3, 1928. Class 2.

239,936. SOIL TREATMENT AND CONDITIONING MATERIALS. ALBERT WIDDIS, Harrisville, Mich.
Filed October 17, 1927. Serial No. 256,233. PUBLISHED JANUARY 3, 1928. Class 10.

239,937. SOIL TREATMENT AND CONDITIONING MATERIALS. ALBERT WIDDIS, Harrisville, Mich.
Filed October 17, 1927. Serial No. 256,232. PUBLISHED JANUARY 3, 1928. Class 10.

239,938. SOIL TREATMENT AND CONDITIONING MATERIALS. ALBERT WIDDIS, Harrisville, Mich.
Filed October 17, 1927. Serial No. 256,231. PUBLISHED JANUARY 3, 1928. Class 10.

239,939. SOIL TREATMENT AND CONDITIONING MATERIALS. ALBERT WIDDIS, Harrisville, Mich.
Filed October 17, 1927. Serial No. 256,230. PUBLISHED JANUARY 3, 1928. Class 10.

239,940. OLIVE OIL, DRIED AND CANNED TUNA FISH, CANNED SARDINES, MACARONI, AND CHEESE. PAUL TODARO & Co., New York, N. Y.
Filed October 17, 1927. Serial No. 256,227. PUBLISHED DECEMBER 27, 1927. Class 46.

239,941. TOOL STEEL. KNUD ENGELSTED, New York, N. Y.
Filed June 10, 1927. Serial No. 250,304. PUBLISHED DECEMBER 27, 1927. Class 14.

239,942. PLASTER. GRAND RAPIDS PLASTER COMPANY, Grand Rapids, Mich.
Filed June 10, 1927. Serial No. 250,341. PUBLISHED DECEMBER 27, 1927. Class 12.

239,943. FRESH GRAPES, FRESH DECIDUOUS FRUITS, FRESH CITRUS FRUITS, AND FRESH MELONS. FRANCES CITRUS ASSOCIATION, Tustin, Calif.
Filed June 15, 1927. Serial No. 250,532. PUBLISHED JANUARY 3, 1928. Class 46.

239,944. CERTAIN NAMED CONSTRUCTION MATERIALS. CAPILANO TIMBER CO. LIMITED, North Vancouver, British Columbia, Canada.
Filed June 23, 1927. Serial No. 250,974. PUBLISHED DECEMBER 27, 1927. Class 12.

239,945. CANNED GREEN-PEA SOUP, CONSOMMÉ SOUP, VEGETABLE BEEF SOUP, MOCK-TURTLE SOUP, CELERY SOUP, OXTAIL SOUP, CANNED CAULIFLOWER, CANNED SALMON, CANNED CHICKEN, PASTRY FLOUR, AND CORN FLAKES. THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass.
Filed June 29, 1927. Serial No. 251,311. PUBLISHED DECEMBER 27, 1927. Class 46.

239,946. CAPS FOR BOTTLES AND BOTTLE STOPPERS. SAMUEL KASSER, Philadelphia, Pa.
Filed July 1, 1927. Serial No. 251,397. PUBLISHED NOVEMBER 29, 1927. Class 50.

239,947. SHOCK ABSORBERS FOR AUTOMOBILES AND OTHER SELF-PROPELLED VEHICLES. DELCO-REMY CORPORATION, Anderson, Ind., and Dayton, Ohio.
Filed July 8, 1927. Serial No. 251,656. PUBLISHED JANUARY 3, 1928. Class 19.

239,948. MEDICATED CHEWING GUM FOR THE RELIEF OF COLDS. VEE-BEE PRODUCTS COMPANY, Newark, N. J.
Filed July 8, 1927. Serial No. 251,697. PUBLISHED DECEMBER 27, 1927. Class 6.

239,949. EGGS. THE JOBBING ASSOCIATION—FARMERS EDUCATIONAL AND COOPERATIVE UNION OF AMERICA—KANSAS BRANCH, Kansas City, Mo.
Filed July 14, 1927. Serial No. 252,047. PUBLISHED JANUARY 3, 1928. Class 46.

239,950. CERTAIN NAMED SAFETY SIGNALS. THOS. E. COLLINS & Co., St. Louis, Mo.
Filed July 15, 1927. Serial No. 252,089. PUBLISHED DECEMBER 13, 1927. Class 50.

239,951. SELF-RISING FLOUR. STATESVILLE FLOUR MILLS Co., Statesville, N. C.
Filed July 18, 1927. Serial No. 252,253. PUBLISHED DECEMBER 27, 1927. Class 46.

239,952. PERIODICAL. FARMSTEAD, STOCK & HOME COMPANY, Minneapolis, Minn.
Filed July 23, 1927. Serial No. 252,468. PUBLISHED NOVEMBER 22, 1927. Class 38.

239,953. REGENERATIVE TONIC FOR THE NERVOUS SYSTEM. M. R. DABOIN, Caracas, Venezuela, and Courbevoie, Paris, France.
Filed July 26, 1927. Serial No. 252,552. PUBLISHED JANUARY 3, 1928. Class 6.

239,954. A PYORRHEA TREATMENT AND PYORRHEA PREVENTIVE AND DENTIFRICES. KENNETH M. JOHNSON, doing business as Guardent Laboratories, Winnipeg, Manitoba, Canada.
Filed July 26, 1927. Serial No. 252,556. PUBLISHED JANUARY 3, 1928. Class 6.

239,955. MEN'S AND BOYS' ONE-PIECE SUITS FOR OUTER WEAR. SMITH BROS. MFG. CO., Carthage, Mo.
Filed July 29, 1927. Serial No. 252,739. PUBLISHED NOVEMBER 15, 1927. Class 39.

239,956. DOORS. AMERICAN EXPORT DOOR CORPORATION, Tacoma, Wash.
Filed August 1, 1927. Serial No. 252,805. PUBLISHED DECEMBER 13, 1927. Class 12.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

239,957. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SER-ATT BURK FIELD, doing business as The Field Laboratories, Erie, Pa. Filed May 12, 1926. Serial No. 231,474.

FIELD'S
KLEENALL

Particular description of goods.—A Washing Powder and Cleaner.
Claims use since November, 1925.

239,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Oct. 19, 1926. Serial No. 238,869.

Pillsbury's
EXCEL

Particular description of goods.—Wheat Flour.
Claims use since on or about Mar. 30, 1923.

239,959. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOOTT MILLS, Lowell, Mass. Filed Feb. 4, 1927. Serial No. 243,800.

DRAPEWELL

Particular description of goods.—Scrims and Marquisettes in the Piece Composed of Cotton, Rayon, Lace, or Combinations Thereof and Curtains and Draperies Composed of Cotton, Rayon, Lace, or Combinations Thereof.
Claims use since Jan. 22, 1927.

239,960. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ISIDOR TANNENBAUM, doing business as I. Tannenbaum Co., New York, N. Y. Filed Feb. 5, 1927. Serial No. 243,895.

"HARTFORD"

Particular description of goods.—Watches, Watchcases, Watch Movements, and Parts Thereof.
Claims use since September, 1926.

239,961. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN ALESI EXTERMINATING COMPANY, Chicago, Ill. Filed Feb. 7, 1927. Serial No. 243,916.

Venice

Particular description of goods.—A Preparation Used as an Automobile Polish.
Claims use since Jan. 31, 1927.

239,962. (CLASS 27. HOROLOGICAL INSTRUMENTS.) KATZ & OGUSH, INC., New York, N. Y. Filed Feb. 12, 1927. Serial No. 244,307.

PLYMOUTH

Particular description of goods.—Watches, Watchcases, and Watch Movements.
Claims use since Feb. 1, 1927.

239,963. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE BAY COMPANY, Bridgeport, Conn. Filed Mar. 18, 1927. Serial No. 245,953.

BAY'S

Particular description of goods.—Surgical Dressings, Gauze Products, Adhesive Products, and Absorbent Cotton—Namely, Surgical Gauze, Bandages, and Adhesive Plaster.
Claims use since Jan. 3, 1927.

239,964. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATLANTIC COMMISSION CO., INC., New York, N. Y. Filed Mar. 23, 1927. Serial No. 246,191.

STERLING

Particular description of goods.—Potatoes in Their Natural State.
Claims use since Feb. 1, 1927.

239,965. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS COMPANY, Kansas City, Mo. Filed Apr. 12, 1927. Serial No. 247,331.

Hy-Glut'n

Particular description of goods.—Wheat Flour.
Claims use since January, 1927.

239,966. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 6, 1927. Serial No. 250,054.

CASTILIAN

Particular description of goods.—Brick.
Claims use since January, 1927.

239,967. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 6, 1927. Serial No. 250,055.

LOMBARDI

Particular description of goods.—Brick.
Claims use since January, 1927.

239,968. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 17, 1927. Serial No. 250,684.

FLORENTINE

Particular description of goods.—Brick.
Claims use since January, 1927.

239,969. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 17, 1927. Serial No. 250,668.

VENETIAN

Particular description of goods.—Brick.
Claims use since January, 1927.

239,970. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,884.

CAMPANELI

Particular description of goods.—Brick.
Claims use since January, 1927.

239,971. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,887.

PLYMOUTH

Particular description of goods.—Brick.
Claims use since January, 1927.

239,972. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,888.

MARLBOROUGH

Particular description of goods.—Brick.
Claims use since January, 1927.

239,973. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,890.

DEVONSHIRE

Particular description of goods.—Bricks.
Claims use since January, 1927.

239,974. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,891.

OLDE ENGLISH

Particular description of goods.—Brick.
Claims use since January, 1927.

239,975. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRO-MOTIVE ENGINEERING CORPORATION, New York, N. Y. Filed June 29, 1927. Serial No. 251,263.

HY-WATT

Particular description of goods.—Resistance Units and Grid Leaks.
Claims use since about January, 1927.

239,976. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FAIRFIELD ENGINEERING COMPANY, Marion, Ohio. Filed Aug. 2, 1927. Serial No. 252,895.

FAIRFIELD

Particular description of goods.—Conveyor apparatus for Unloading, Elevating, and Conveying Material, Such as Coal, Broken Stone, Cinders, Etc.
Claims use since about Feb. 1, 1927.

239,977. (CLASS 12. CONSTRUCTION MATERIALS.) MASON FIBRE COMPANY, Laurel, Miss. Filed Oct. 27, 1926. Serial No. 239,309.

PRESDWOOD

Particular description of goods.—Fibre Board, Thermal Insulating Board, Composite Board, Construction Board, Synthetic Lumber or Artificial Lumber, and Hard Board.
Claims use since Oct. 6, 1926.

239,978. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR J. NORRIS, Greenwich, Conn. Filed May 18, 1927. Serial No. 249,187.

REDIFIT

Particular description of goods.—Cotton, Silk, Artificial Silk, and Wool Curtains, Portières, and Draperies.
Claims use since Jan. 1, 1927.

239,979. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. H. BRYANT, doing business as E. H. Bryant Tool Company, Cleveland, Ohio. Filed Feb. 28, 1927. Serial No. 244,979.



Particular description of goods.—Milling Cutters.
Claims use since prior to Jan. 8, 1927.

239,980. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBINSON & GOLLUBER, New York, N. Y. Filed Oct. 4, 1927. Serial No. 255,609.

KANT KLING

Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 2, 1925.

239,981. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE CRUSH COMPANY, Chicago, Ill. Filed Oct. 13, 1927. Serial No. 256,053.

Mandalay PUNCH

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages and Compounds for Making the Same.
Claims use since Oct. 1, 1926.

239,982. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SOLO-HORTON BRUSH COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 11, 1927. Serial No. 257,446.

WALES

Particular description of goods.—Artist and Sign Writers' Brushes, Paint and Varnish Brushes, Brushes for Applying Liquids, and Kitchen Brushes.
Claims use since Nov. 1, 1921.

239,983. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FRANK G. DELBON, Brooklyn, N. Y. Filed Dec. 8, 1927. Serial No. 258,623.

HYGIENIC

Particular description of goods.—Metal Shanks for Shoes.
Claims use since about January, 1907.

239,984. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 8, 1927. Serial No. 258,656.

STA-SHARP

Particular description of goods.—Scissors.
Claims use since January, 1927.

239,985. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ST. LOUIS CRYSTAL WATER AND SODA CO., St. Louis, Mo. Filed Dec. 22, 1927. Serial No. 259,257.

"PLAIN DRY"

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups, Extracts, and Concentrates for Making the Same.
Claims use since June 1, 1923.

239,965. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS COMPANY, Kansas City, Mo. Filed Apr. 12, 1927. Serial No. 247,331.

Hy-Glut'n

Particular description of goods.—Wheat Flour.
Claims use since January, 1927.

239,966. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 6, 1927. Serial No. 250,054.

CASTILIAN

Particular description of goods.—Brick.
Claims use since January, 1927.

239,967. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 6, 1927. Serial No. 250,055.

LOMBARDI

Particular description of goods.—Brick.
Claims use since January, 1927.

239,968. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 17, 1927. Serial No. 250,064.

FLORENTINE

Particular description of goods.—Brick.
Claims use since January, 1927.

239,969. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 17, 1927. Serial No. 250,068.

VENETIAN

Particular description of goods.—Brick.
Claims use since January, 1927.

239,970. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,884.

CAMPANELI

Particular description of goods.—Brick.
Claims use since January, 1927.

239,971. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,887.

PLYMOUTH

Particular description of goods.—Brick.
Claims use since January, 1927.

239,972. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,888.

MARLBOROUGH

Particular description of goods.—Brick.
Claims use since January, 1927.

239,973. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,890.

DEVONSHIRE

Particular description of goods.—Bricks.
Claims use since January, 1927.

239,974. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed June 22, 1927. Serial No. 250,891.

OLDE ENGLISH

Particular description of goods.—Brick.
Claims use since January, 1927.

239,975. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRO-MOTIVE ENGINEERING CORPORATION, New York, N. Y. Filed June 29, 1927. Serial No. 251,263.

HY-WATT

Particular description of goods.—Resistance Units and Grid Leaks.
Claims use since about January, 1927.

239,976. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FAIRFIELD ENGINEERING COMPANY, Marion, Ohio. Filed Aug. 2, 1927. Serial No. 252,895.

FAIRFIELD

Particular description of goods.—Conveyor apparatus for Unloading, Elevating, and Conveying Material, Such as Coal, Broken Stone, Cinders, Etc.
Claims use since about Feb. 1, 1927.

239,977. (CLASS 12. CONSTRUCTION MATERIALS.) MASON FIBRE COMPANY, Laurel, Miss. Filed Oct. 27, 1926. Serial No. 239,809.

PRESDWOOD

Particular description of goods.—Fibre Board, Thermal Insulating Board, Composite Board, Construction Board, Synthetic Lumber or Artificial Lumber, and Hard Board.
Claims use since Oct. 6, 1926.

239,978. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR J. NORRIS, Greenwich, Conn. Filed May 18, 1927. Serial No. 249,187.

REDIFIT

Particular description of goods.—Cotton, Silk, Artificial Silk, and Wool Curtains, Portières, and Draperies.
Claims use since Jan. 1, 1927.

239,979. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. H. BRYANT, doing business as E. H. Bryant Tool Company, Cleveland, Ohio. Filed Feb. 28, 1927. Serial No. 244,979.



Particular description of goods.—Milling Cutters.
Claims use since prior to Jan. 8, 1927.

239,980. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBINSON & GOLLUBER, New York, N. Y. Filed Oct. 4, 1927. Serial No. 255,609.

KANT KLING

Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 2, 1925.

239,981. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE CRUSH COMPANY, Chicago, Ill. Filed Oct. 18, 1927. Serial No. 256,053.

Mandalay PUNCH

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages and Compounds for Making the Same.
Claims use since Oct. 1, 1926.

239,982. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SOLO-HORTON BRUSH COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 11, 1927. Serial No. 257,446.

WALES

Particular description of goods.—Artist and Sign Writers' Brushes, Paint and Varnish Brushes, Brushes for Applying Liquids, and Kitchen Brushes.
Claims use since Nov. 1, 1921.

239,983. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FRANK G. DELBON, Brooklyn, N. Y. Filed Dec. 8, 1927. Serial No. 258,623.

HYGIENIC

Particular description of goods.—Metal Shanks for Shoes.
Claims use since about January, 1907.

239,984. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 8, 1927. Serial No. 258,656.

STA-SHARP

Particular description of goods.—Scissors.
Claims use since January, 1927.

239,985. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ST. LOUIS CRYSTAL WATER AND SODA CO., St. Louis, Mo. Filed Dec. 22, 1927. Serial No. 259,257.

"PLAIN DRY"

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups, Extracts, and Concentrates for Making the Same.
Claims use since June 1, 1923.

239,986. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AARON HOLTZ, doing business as The French-Lustre Company, Portland, Oreg. Filed Dec. 29, 1927. Serial No. 259,445.

"French-Lustre"

Particular description of goods.—A Cleaning and Polishing Compound Particularly Adapted for the Cleaning and Polishing of Automobiles.
Claims use since Jan. 1, 1915.

239,987. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HENDEY MACHINE COMPANY, Torrington, Conn. Filed Jan. 4, 1928. Serial No. 259,680.

HENDEY

Particular description of goods.—Lathes, Shapers, Milling Machines, and Centering Machines.
Claims use since 1914.

239,988. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER'S SONS CO., INC., Philadelphia, Pa. Filed Jan. 18, 1928. Serial No. 260,284.

FLEMISH FLANNEL

Particular description of goods.—Cotton Goods, Silk Goods, and Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk in the Piece.
Claims use since Sept. 20, 1920.

239,989. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NO KLANK CHAIN COMPANY, Providence, R. I. Filed Jan. 23, 1928. Serial No. 260,523.

NO-KLANK TIRE CHAINS
WITH THE EASY CHANGE
CROSS LINKS

Particular description of goods.—Tire Chains.
Claims use since Nov. 26, 1926.

239,990. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN TYPE FOUNDERS COMPANY, Jersey City, N. J. Filed Jan. 6, 1926. Serial No. 225,545.

Finesteel

Particular description of goods.—Ink Knives.
Claims use since about July 1, 1925.

239,991. (CLASS 39. CLOTHING.) MORRIS AND COMPANY, INCORPORATED, Baltimore, Md. Filed Jan. 18, 1927. Serial No. 243,010.

ParisIIndies

Applicant owns registration number 228,135.
Particular description of goods.—Union Suits of Textile Fabric for Girls, Misses, and Women.
Claims use since Jan. 12, 1927.

239,992. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NUFORM CORPORATION, Newton, Iowa. Filed Feb. 28, 1927. Serial No. 245,024.

Nuform

Particular description of goods.—Sanitary Napkins.
Claims use since Dec. 14, 1926.

239,993. (CLASS 39. CLOTHING.) DR. A. POSNER SHOES, INC., New York, N. Y. Filed Mar. 16, 1927. Serial No. 245,861.

PLI-TRED
(FLEXIBILITY)

Particular description of goods.—Shoes Made of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Jan. 2, 1927.

239,994. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FELIX COUNE, Chicago, Ill. Filed May 5, 1927. Serial No. 248,477.

STRINGLESS

Particular description of goods.—Hair Curlers.
Claims use since 1925.

239,995. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MORGAN COMPANY, Peoria, Ill. Filed July 9, 1927. Serial No. 251,768.

FIL-AN-SEAL

Particular description of goods.—Paint Filler and Sealer.
Claims use since about May 1, 1924.

239,996. (CLASS 39. CLOTHING.) LEIBMAN AND HURWITZ, New York, N. Y. Filed Sept. 17, 1927. Serial No. 254,855.

Lady Lee

Particular description of goods.—Misses' and Women's Coats.
Claims use since Feb. 1, 1927.

239,997. (CLASS 39. CLOTHING.) LOU MURRAY, New York, N. Y. Filed Oct. 7, 1927. Serial No. 255,761.

Lou Murray

Particular description of goods.—Ladies', Women's, and Children's Wearing Apparel Consisting of Coats, Suits, Dresses; Fur Outer Garments—Namely, Capes, Cloaks, Coats, Collars, Cuffs, Shoulder Pieces, Neck Pieces, and Muffs; Blouses, Hats, Caps; Shoes Made of Leather, Canvas, and Rubber and Combinations Thereof; Knitted, Netted, and Textile Underwear, Sweaters, and Hosiery.
Claims use since April, 1920.

239,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT CONN, Dunedin, Otago, New Zealand. Filed Nov. 11, 1927. Serial No. 257,402.

ANTICID

Particular description of goods.—Medicine for the Relief of Stomach Troubles.
Claims use since June 29, 1923.

239,999. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUNCREST PACKERS, INC., Berkeley, Calif. Filed Dec. 22, 1927. Serial No. 259,259.

FRUIT-COFFY

Particular description of goods.—Table Beverage Made from Prunes and Cereals.
Claims use since Jan. 10, 1927.

240,000. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN AMMONE COMPANY, New York, N. Y. Filed Dec. 28, 1927. Serial No. 259,384.

FYR-PRUF

Particular description of goods.—Stove and Nickel Polish.
Claims use since 1920.

240,001. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ATHEY TRUSS WHEEL CO., Chicago, Ill. Filed Nov. 18, 1927. Serial No. 257,724.

TRUSS WHEEL

Particular description of goods.—Trailer-Type Vehicles and Parts Thereof.
Claims use since Feb. 6, 1922.

240,002. [WITHDRAWN.]

240,003. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUFUS J. RUDLEN, doing business as Raudemort Laboratories, Detroit, Mich. Filed Oct. 10, 1927. Serial No. 255,872.

CHLORO-CRYSTALS

Particular description of goods.—Deodorant, Disinfectant, and Moth Exterminator.
Claims use since 1923.

240,004. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALVIN LEDERER, doing business as Lederer Supply and Equipment Co., Scranton, Pa. Filed Sept. 27, 1927. Serial No. 255,311.

TINTS
TEXTILE

Particular description of goods.—Throwsters' Dyes and Throwsters' Tints.
Claims use since June, 1926.

240,005. (CLASS 10. FERTILIZERS.) THE LUCKEY LIME & SUPPLY CO., Luckey, Ohio. Filed Sept. 16, 1927. Serial No. 254,807.

LUCKEY

Particular description of goods.—Agricultural Lime.
Claims use since July 1, 1921.

240,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CONDIMENT COMPANY, Los Angeles, Calif. Filed Sept. 2, 1927. Serial No. 254,266.

BESTGRADE

Particular description of goods.—Salad Dressings; Edible Oils—Namely, Salad Oil; Condiments—Namely, Mustard, Sandwich Spread Composed of Mayonnaise, Relish, Catsup, Pimentos, and Spices; Pickles—Namely, Sweet Relish.
Claims use since Feb. 1, 1927.

240,007. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FRESNO VINEYARDS COMPANY, St. Louis, Mo. Filed Jan. 28, 1928. Serial No. 260,817.

Fresno Vineyards

Particular description of goods.—Grape Juice.
Claims use since 1922.

240,008. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JULIA A. BOWENS, doing business as The Bowens Manufacturing Company, St. Petersburg, Fla. Filed Jan. 19, 1928. Serial No. 260,311.

WASHINGTON DIRT REMOVER

Particular description of goods.—Soft Soap.
Claims use since July, 1925.

240,009. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed Jan. 10, 1928. Serial No. 259,910.

PETER TODD

Particular description of goods.—Cotton Piece Goods.
Claims use since January, 1927.

240,010. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STANDARD ELECTRIC PRODUCTS, INC., Philadelphia, Pa. Filed Jan. 6, 1928. Serial No. 259,785.

STANDARD

Particular description of goods.—Electric Meat Choppers and Electric Coffee Mills.
Claims use since Nov. 25, 1924.

240,011. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM G. BARNES, Seattle, Wash. Filed Jan. 3, 1928. Serial No. 259,614.

Neat-Form

Particular description of goods.—Sandwiches.
Claims use since Mar. 19, 1926.

240,012. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW METHOD BOOK BINDERY, INC., Jacksonville, Ill. Filed Dec. 6, 1927. Serial No. 258,551.

BOUND TO STAY BOUND

Particular description of goods.—Printed Books.
Claims use since Feb. 15, 1924.

240,013. (CLASS 39. CLOTHING.) HANNAH LEWIS, doing business as Hannah's Style Frock, New York, N. Y. Filed Jan. 5, 1928. Serial No. 259,735.

HANNAH'S STYLE SMOCK

Particular description of goods.—Smocks for Women and Men.
Claims use since June 24, 1926.

TRADE-MARK REGISTRATIONS RENEWED

29,261. OIL OF EUCALYPTUS OR RHEUMATIC OIL. Registered December 8, 1896. J. BOSISTO & CO., Richmond, Victoria. Renewed December 8, 1926, to J. Bosisto & Co. Proprietary Limited, Melbourne, Victoria, Australia, an Incorporated Company of Victoria, successor.

30,629. A CERTAIN NAMED SPRING WATER. Registered October 5, 1897. MOUNT ZIRCON SPRING COMPANY, Boston, Mass. Renewed October 5, 1927, to Mt. Zircon Spring Water Co., Rumford, Me., a Corporation of Maine, assignee.

31,009. WASHING BLUE. Registered December 21, 1897. J. & J. COLMAN, LIMITED, Norwich and London, England, a Corporation of Great Britain. Renewed December 21, 1927.

31,337. PHOTOGRAPHIC DEVELOPERS. Registered March 1, 1898. ACTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION, Berlin, Germany. Renewed March 1, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

31,388. A SCIENTIFIC FOOD AND WEAK ASTRINGENT. Registered March 8, 1898. FARBENFABRIKEN, VORMALS FRIEDR. BAYER & CO., Elberfeld, Germany. Renewed March 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

31,409. ARTIFICIAL FERTILIZER. Registered March 8, 1898. FARBENFABRIKEN, VORMALS FRIEDRICH BAYER & CO., Elberfeld, Germany. Renewed March 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

31,616. INDIA RUBBER PRODUCTS. Registered May 31, 1898. HOOD RUBBER COMPANY, Boston, Mass. Renewed May 31, 1928, to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts.

31,752. CONDENSED MILK, CONDENSED COFFEE, CONDENSED COCOA, AND COFFEE EXTRACT. Registered June 28, 1898. NEW YORK CONDENSED MILK COMPANY. Renewed June 28, 1928, to The Borden Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

31,840. TOYS, DOLLS, AND GAMES. Registered August 2, 1898. THE FIRM OF F. A. O. SCHWARZ. Renewed August 2, 1928, to F. A. O. Schwarz, New York, N. Y., a Corporation of New York, successor.

66,575. GENEVA. Registered December 10, 1907. DE NEDERLANDSCHE GIST- & SPIRITUSFABRIEK. Renewed December 10, 1927, to Nederlandsche Gist- en Spiritusfabriek, doing business as E. Kiderlen; and as Netherlands Distilleries; and as Netherlands Steam Distillery Cy. Ld., Delft, Netherlands, a Corporation of Netherlands.

66,976. ERASER HOLDERS FOR APPLICATION TO THE ENDS OF LEAD PENCILS. Registered January 7, 1908. AMERICAN LEAD PENCIL COMPANY, New York, N. Y., a Corporation of New York. Renewed January 7, 1928.

67,012. CERTAIN PHOTOGRAPHIC SUPPLIES. Registered January 14, 1908. EASTMAN KODAK COMPANY, Rochester, N. Y., a Corporation of New York. Renewed January 14, 1928.

67,116. CERTAIN BUILDING MATERIALS. Registered January 14, 1908. MASON CITY BRICK & TILE COMPANY. Renewed January 14, 1928, to Mason City Brick & Tile Company, Mason City, Iowa, a Corporation of Delaware, successor.

67,137. CERTAIN PHOTOGRAPH APPARATUS, APPLIANCES, AND INSTRUMENTS. Registered January 21, 1908. EASTMAN KODAK COMPANY, Rochester, N. Y., a Corporation of New York. Renewed January 21, 1928.

67,194. CANNED FRUITS AND VEGETABLES. Registered January 21, 1908. RIDENOUR-BAKER GROCERY CO., Kansas City, Mo., a Corporation of Missouri. Renewed January 21, 1928.

67,238. MEN'S OVERSHIRTS OF WOVEN MATERIAL. Registered January 28, 1908. THE WASHINGTON SHIRT COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed January 28, 1928.

67,252. TOILET BRUSHES. Registered January 28, 1908. CAUVIGNY BRUSH CO., New York, N. Y., a Corporation of New York. Renewed January 28, 1928.

67,436. TRACING CLOTH. Registered February 4, 1908. L. & C. HARDTMUTH, Vienna, Austria; Budweis, Hungary; and London, England. Renewed February 4, 1928, to Koh-I-Noor Bleistiftfabrik L. & C. Hardtmuth, Budweis, Czechoslovakia, assignee.

67,847. CERTAIN LEATHER GOODS. Registered February 18, 1908. WESTERN LEATHER MFG. CO., Chicago, Ill., a Corporation of Illinois. Renewed February 18, 1928.

67,884. CERTAIN PAINTERS' MATERIALS. Registered February 25, 1908. THE CLEVELAND VARNISH COMPANY. Renewed February 25, 1928, to The Cleveland Varnish Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

67,885. CERTAIN PAINTERS' MATERIALS. Registered February 25, 1908. THE CLEVELAND VARNISH COMPANY. Renewed February 25, 1928, to The Cleveland Varnish Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

67,886. CERTAIN PAINTERS' MATERIALS. Registered February 25, 1908. THE CLEVELAND VARNISH COMPANY. Renewed February 25, 1928, to The Cleveland Varnish Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

67,986. CHEMICAL NICKEL-SALT. Registered March 3, 1908. WALDBERG & Co., G. m. b. H., Berlin, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,055. MIXED PAINTS. Registered March 3, 1908. THE ATLANTIC PAINT COMPANY. Renewed March 3, 1923, to The Atlantic Paint Company, New York, N. Y., a Corporation of New York, assignee.

68,132. BUTTER. Registered March 10, 1908. HERBERT HENRY BROWN, Philadelphia, Pa. Renewed March 10, 1928.

68,185. CERTAIN PAINTERS' MATERIALS. Registered March 10, 1908. THE CLEVELAND VARNISH COMPANY. Renewed March 10, 1928, to The Cleveland Varnish Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

68,249. A REMEDY FOR DISEASES OF THE LIVER. Registered March 17, 1908. S. T. W. SANFORD & SONS. Renewed March 17, 1928, to Sanford Sales Corp., Long Island City, N. Y., a Corporation of New York, successor.

68,322. FERTILIZERS. Registered March 31, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed March 31, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

68,407. GELATIN FOR USE AS FOOD. Registered April 7, 1908. J. & G. COX LIMITED, Edinburgh, Scotland. Renewed April 7, 1928, to The Cox Gelatine Company, New York, N. Y., a Corporation of New York, assignee.

68,556. GELATIN DYNAMITE. Registered April 14, 1908. THE POTTS POWDER COMPANY, Reynolds, Pa., and New York, N. Y. Renewed April 14, 1928, to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware, assignee.

68,557. NITROGLYCERIN DYNAMITE. Registered April 14, 1908. THE POTTS POWDER COMPANY, Reynolds, Pa., and New York, N. Y. Renewed April 14, 1928, to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware, assignee.

68,628. TYPEWRITING MACHINES AND TYPEWRITING MACHINE PARTS. Registered April 21, 1908. UNDERWOOD TYPEWRITER COMPANY. Renewed April 21, 1928, to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware, assignee.

68,640. GIN. Registered April 21, 1908. TANQUERAY GORDON & CO. LIMITED. Renewed April 21, 1928, to Tanqueray Gordon & Co. Limited, London, England, a Limited-Liability Company of Great Britain, assignee by mesne assignments.

68,678. EGG CARRIERS AND EGG TRAYS. Registered April 21, 1908. STAR EGG CARRIER & TRAY MFG. CO. Renewed April 21, 1928, to John G. Elbs, Rochester, N. Y., assignee.

68,728. CERTAIN TOOLS AND TOOL HANDLES. Registered April 28, 1908. MOORE & HANDLEY HARDWARE COMPANY. Renewed April 28, 1928, to Moore-Handley Hardware Company, Birmingham, Ala., a Corporation of Alabama, assignee.

68,729. CERTAIN TOOLS. Registered April 28, 1908. MOORE & HANDLEY HARDWARE COMPANY. Renewed April 28, 1928, to Moore-Handley Hardware Company, Birmingham, Ala., a Corporation of Alabama, assignee.

68,730. CERTAIN CUTLERY. Registered April 28, 1908. MOORE & HANDLEY HARDWARE COMPANY. Renewed April 28, 1928, to Moore-Handley Hardware Company, Birmingham, Ala., a Corporation of Alabama, assignee.

68,839. RUBBER AND ASBESTOS PACKING. Registered April 28, 1908. UNGARISCHE GUMMIWAARENFABRIKS ACTIENGESELLSCHAFT, Budapest, Hungary, a Corporation of Hungary. Renewed April 28, 1928.

68,969. STEEL BARS, SHEETS, AND PLATES. Registered May 12, 1908. COLONIAL STEEL COMPANY, Pittsburgh, Pa., a Corporation of Pennsylvania. Renewed May 12, 1928.

69,015. CHOCOLATE AND CANDY. Registered May 12, 1908. PENNSYLVANIA CHOCOLATE COMPANY, Pittsburgh, Pa. Renewed May 12, 1928, to Eatmor Chocolate Company, Reading Pa., a Corporation of Pennsylvania, successor.

69,028. CANNED FRUITS AND CANNED VEGETABLES. Registered May 12, 1908. ONEIDA COUNTY CANNING Co. LTD., Verona, N. Y., a Corporation of New York. Renewed May 12, 1928.

69,029. CANNED FRUITS AND CANNED VEGETABLES. Registered May 12, 1908. ONEIDA COUNTY CANNING Co. LTD., Verona, N. Y., a Corporation of New York. Renewed May 12, 1928.

69,051. FERTILIZERS. Registered May 19, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed May 19, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

69,248. LEAD PENCILS. Registered June 2, 1908. EAGLE PENCIL COMPANY. Renewed June 2, 1928, to Eagle Pencil Company, New York, N. Y., a Corporation of Delaware, assignee.

69,299. A NEWSPAPER. Registered June 2, 1908. FELIX AGNUS, trustee. Renewed June 2, 1928, to The Baltimore Publishing Company, Baltimore, Md., a Corporation of Maryland, successor.

69,312. CERTAIN PLUMBING SUPPLIES. Registered June 2, 1908. WOLVERINE BRASS WORKS, Grand Rapids, Mich., a Corporation of Michigan. Renewed June 2, 1928.

69,313. CERTAIN PLUMBING SUPPLIES. Registered June 2, 1908. WOLVERINE BRASS WORKS, Grand Rapids, Mich., a Corporation of Michigan. Renewed June 2, 1928.

69,498. A SALVE. Registered June 16, 1908. THE WOOLLEY SALVE COMPANY. Renewed June 16, 1928, to Sarah E. Bowers, Lancaster, Pa., successor.

69,526. SHEETINGS AND DRILLINGS. Registered June 16, 1908. PICKENS MILL, Pickens, S. C., a Corporation of South Carolina. Renewed June 16, 1928.

69,556. PAPER SHOT SHELLS. Registered June 23, 1908. VON LENGERKE & DETMOLD. Renewed June 23, 1928, to Von Lengerke & Detmold, Inc., New York, N. Y., a Corporation of New York, assignee.

69,599. BOTTLED, CANNED, PRESERVED, EVAPORATED, AND PICKLED FRUITS AND VEGETABLES. Registered June 23, 1908. WAYNE COUNTY PRESERVING COMPANY. Renewed June 23, 1928, to Edgett-Burnham Company, Newark, N. Y., a Corporation of New York, assignee.

69,625. LEAD PENCILS. Registered June 23, 1908. EAGLE PENCIL COMPANY. Renewed June 23, 1928, to Eagle Pencil Company, New York, N. Y., a Corporation of Delaware, assignee.

69,653. BUNTING. Registered June 23, 1908. UNITED STATES BUNTING Co. Renewed June 23, 1928, to U. S. Bunting Co., Lowell, Mass., a Corporation of Massachusetts, successor.

69,764. FERTILIZERS. Registered July 7, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed July 7, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

69,831. A CERTAIN ABRASIVE MATERIAL. Registered July 7, 1908. THE MATCHLESS METAL POLISH Co., New York, N. Y., and Chicago, Ill. Renewed July 7, 1928, to The Matchless Metal Polish Co., Chicago, Ill., and Glen Ridge, N. J., a Corporation of Illinois.

69,880. STEEL BARS, SHEETS, AND PLATES. Registered July 14, 1908. COLONIAL STEEL COMPANY, Pittsburgh, Pa., a Corporation of Pennsylvania. Renewed July 14, 1928.

69,900. SEWING MACHINES AND ATTACHMENTS. Registered July 14, 1908. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Renewed July 14, 1928, to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey.

69,901. SEWING MACHINES AND ATTACHMENTS. Registered July 14, 1908. THE SINGER MANUFACTURING COMPANY, New York, N. Y. Renewed July 14, 1928, to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey.

70,006. PAINT. Registered July 21, 1908. CHAS. R. LONG, JR. Co., Louisville, Ky., a Corporation of Kentucky. Renewed July 21, 1928.

70,061. CANDY. Registered July 28, 1908. FREDERICK M. SWITZER, doing business as Switzer's Yellow Jacket Company, St. Louis, Mo. Renewed July 28, 1928.

70,084. CERTAIN TOOLS. Registered July 28, 1908. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Renewed July 28, 1928, to Simmons Hardware Company, New Haven, Conn., a Corporation of Missouri.

LABELS

REGISTERED MARCH 13, 1928.

33,597.—*Title:* RADIO-MAID. For Candy. HELEN ARDELLE CANDY COMPANY, Seattle, Wash. Published November 29, 1927.

33,598.—*Title:* SOL-ESCO. For a Patented Cleaning Compound. THE COWLES DETERGENT Co., Cleveland, Ohio. Published May 9, 1927.

33,599.—*Title:* PANGO PANGO. For Candy. THE FOLLY TOWN COMPANY, Chicago, Ill. Published January 10, 1928.

33,600.—*Title:* GENESEE. For Toilet Paper. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Published December 30, 1927.

33,601. *Title:* KILLARNEY. For Lettuce. S. J. GALLAGHER INC., Brawley, Calif. Published January 2, 1928.

33,602.—*Title:* JOSEPH'S HERB MEDICINE. For Medicine for the Relief of Asthma, Consumption, and Colds. JOSEPH GIANNI, doing business as The Gianni Laboratories, Lynn, Mass. Published January 3, 1928.

33,603.—*Title:* APLINK ORCHARDS. For Apple Juice. JAMES INK, doing business as Aplink Orchards, Canton, Ohio. Published December 7, 1927.

33,604.—*Title:* LITTLE NEMO. For Canned Peas. KRIER PRESERVING COMPANY, Belgium, Wis. Published January 10, 1928.

33,605.—*Title:* FEARLESS. For Lettuce. LEE & KNOBEL, Los Angeles, Calif. Published January 2, 1928.

33,606.—*Title:* SPANISH SALT. For Medicinal Salt. DR. RAMON G. LOPEZ, doing business as Spanish Salt Company, Los Angeles, Calif. Published October 17, 1927.

33,607.—*Title:* IRENE ASSORTMENT EVERY EVENING CHOCOLATES. For Candy. THE MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Published January 28, 1928.

33,608.—*Title:* GOLDEN RULE. For Fresh Oranges. MONTE VISTA CITRUS ASSOCIATION, Riverside, Calif. Published March 1, 1927.

33,609.—*Title:* LA MESA. For Fresh Oranges. MONTE VISTA CITRUS ASSOCIATION, Riverside, Calif. Published March 1, 1927.

33,610.—*Title:* NUTRICIA HOLSTEIN MILK, PASTEURIZED, SELECTED DRINKING MILK. For Milk. NUTRICIA FARMS COMPANY, Thiensville, Wis. Published December 2, 1927.

33,611.—*Title:* TOWER. For Ginger Ale. O. K. DISTILLED SODA WATER CO., LTD., Honolulu, Territory of Hawaii. Published September 30, 1927.

33,612.—*Title:* PHILLIPS. For Tomato Catsup. PHILLIPS PACKING CO., Cambridge, Md. Published December 27, 1927.

33,613.—*Title:* ARIANNE SWEETS. For Candy. QUINBY & WALLACE, Morris, N. Y. Published January 24, 1928.

33,614.—*Title:* RAINDROPS. For Combined Powdered Soap and Water Softener. RAINDROP CHEMICAL COMPANY, Streator, Ill. Published September 15, 1927.

33,615.—*Title:* SWEET GIRL BRAND TOMATO PUREE. For Tomato Purée. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,616.—*Title:* SWEET GIRL BRAND CUT WAX BEANS. For Cut Wax Beans. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,617.—*Title:* SWEET GIRL BRAND FANCY WAX BEANS. For Fancy Wax Beans. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,618.—*Title:* SWEET GIRL BRAND ASPARAGUS TIPS. For Asparagus Tips. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,619.—*Title:* SWEET GIRL BRAND PEACH PRESERVES. For Peach Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,620.—*Title:* SWEET GIRL BRAND BLACKBERRY PRESERVES. For Blackberry Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,621.—*Title:* SWEET GIRL BRAND PLUM PRESERVES. For Plum Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,622.—*Title:* SWEET GIRL BRAND PINEAPPLE PRESERVES. For Pineapple Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,623.—*Title:* SWEET GIRL BRAND NECTAR PRESERVES. For Nectar Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,624.—*Title:* SWEET GIRL BRAND STRAWBERRY PRESERVES. For Strawberry Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,625.—*Title:* SWEET GIRL BRAND RASPBERRY PRESERVES. For Raspberry Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,626.—*Title:* SWEET GIRL BRAND LOGANBERRY PRESERVES. For Loganberry Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,627.—*Title:* SWEET GIRL BRAND APRICOT PRESERVES. For Apricot Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,628.—*Title:* HAZEL BRAND TOMATOES. For Tomatoes. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,629.—*Title:* HAZEL BRAND DISTILLED WHITE VINEGAR. For White Vinegar. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,630.—*Title:* HAZEL BRAND REDUCED CIDER VINEGAR. For Cider Vinegar. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,631.—*Title:* HAZEL BRAND SELECTED QUEEN OLIVES. For Queen Olives. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,632.—*Title:* HAZEL BRAND PURE CURRANT JELLY. For Pure Currant Jelly. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,633.—*Title:* HAZEL BRAND APPLE BUTTER. For Apple Butter. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,634.—*Title:* HAZEL BRAND SELECTED MANZANILLA OLIVES. For Manzanilla Olives. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,635.—*Title:* HAZEL BRAND PURE GRAPE JELLY. For Pure Grape Jelly. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,636.—*Title:* HAZEL BRAND WAX BEANS. For Extra Choice Wax Beans, Also Cut Wax Beans. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,637.—*Title:* HAZEL BRAND GREEN BEANS. For Extra Choice Green Beans, Also Cut Green Beans. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,638.—*Title:* HAZEL BRAND DAINTY GREEN LIMA BEANS. For Dainty Green Lima Beans. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,639.—*Title:* HAZEL BRAND CHILI SAUCE. For Chili Sauce. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,640.—*Title:* HAZEL BRAND MAYONNAISE. For Mayonnaise. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,641.—*Title:* SWEET GIRL BRAND CRUSHED HAWAIIAN PINEAPPLE. For Crushed Pineapple. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,642.—*Title:* SWEET GIRL SPICED JELLY DROPS. For Candy. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,643.—*Title:* SWEET GIRL BRAND RED KIDNEY BEANS. For Red Kidney Beans. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,644.—*Title:* SWEET GIRL BRAND YELLOW CLING PEACHES. For Peaches. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,645.—*Title:* SWEET GIRL BRAND SLICED HAWAIIAN PINEAPPLE. For Pineapple. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,646.—*Title:* SWEET GIRL BRAND COUNTRY GENTLEMAN CORN. For Corn. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,647.—*Title:* SWEET GIRL BRAND BARTLETT PEARS. For Bartlett Pears. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,648.—*Title:* SWEET GIRL BRAND PUMPKIN. For Pumpkin. GEO. RASMUSSEN Co., Chicago, Ill. Published November 15, 1927.

33,649.—*Title:* HAZEL BRAND PEAS. For Extra Sifted Peas, Sifted Peas, Tiny Sifted Peas, Fancy Extra Sifted Peas, and Select Peas. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,650.—*Title:* HAZEL BRAND LEMON COOKIES. For Lemon Cookies. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,651.—*Title:* HAZEL BRAND SUGAR COOKIES. For Sugar Cookies. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,652.—*Title:* RED OWL. For Fresh Carrots. RIO GRANDE VALLEY VEGETABLE GROWER'S EXCHANGE, Mercedes, Tex. Published October 2, 1927.

33,653.—*Title:* THE ROCKFORD BRAND. For Macaroni. ROCKFORD MACARONI MFG. CO., Rockford, Ill. Published January 3, 1928.

33,654.—*Title:* SYRIAN SAUSAGE. For a Food Confection. PERRY E. SEELY, doing business as Seely Confection Company, Los Angeles, Calif. Published November 15, 1927.

33,655.—*Title:* PERSIAN SAUSAGE. For a Food Confection. PERRY E. SEELY, doing business as Seely Confection Company, Los Angeles, Calif. Published November 15, 1927.

33,656.—*Title:* HAWAIIAN SAUSAGE. For a Food Confection. PERRY E. SEELY, doing business as Seely Confection Company, Los Angeles, Calif. Published November 15, 1927.

33,657.—*Title:* MEAT BALL. For a Food Confection. PERRY E. SEELY, doing business as Seely Confection Company, Los Angeles, Calif. Published November 15, 1927.

33,658.—*Title:* ORIENTAL SAUSAGE. For a Food Confection. PERRY E. SEELY, doing business as Seely Confection Company, Los Angeles, Calif. Published November 15, 1927.

33,659.—*Title:* SIMON PURE. For Canned Salmon. SIMON BROS. CO. INC., Madison, Wis. Published November 15, 1927.

33,660.—*Title:* IRON TONIC. For a Medicinal Preparation. DOMENICK STIRO, doing business as Stiro's Health Laboratories, Brooklyn, N. Y. Published November 28, 1926.

33,661.—*Title:* DE-LUXE TEN PINS. For De-Luxe Tenpins—Namely, a Game of Skill. STROMBECK-BECKER MFG. CO., Moline, Ill. Published September 23, 1927.

33,662.—*Title:* OXFORD ARMS. For Cigars. RAY SUAREZ & COMPANY, INC., New York, N. Y. Published October 22, 1927.

33,663.—*Title:* ROLY-POLY. For Canned Tomatoes. THE UTAH CANNING CO., Ogden, Utah. Published January 10, 1928.

33,664.—*Title:* LA DAWN. For Cosmetics. J. A. WILLIAMS, doing business as Twee Chemical Company and The Twee Company, Fort Wayne, Ind. Published December 31, 1927.

PRINTS

REGISTERED MARCH 13, 1928.

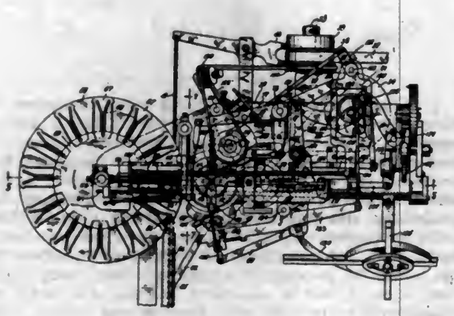
10,711.—*Title:* LES POUDRES COTY. For Powder. COTY, INC., Wilmington, Del., and New York, N. Y. Published January 17, 1928.

10,712.—*Title:* MAKING A NAME FOR HIMSELF. For Pencils. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Published September 1, 1927.

REISSUES

MARCH 13, 1928.

16,897. BAG-CLOSING MACHINE. THOMAS ALLATT, Westfield, N. J., assignor, by mesne assignments, to Millie Patent Holding Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 17, 1928. Serial No. 247,433. Original No. 1,637,509, dated Aug. 2, 1927, Serial No. 590,622, filed Sept. 26, 1922. Renewed Oct. 23, 1926. 22 Claims. (Cl. 226—56.)



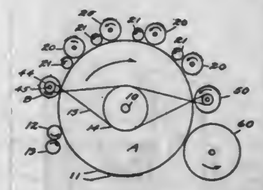
1. A bag-closing machine, comprising a metal strip feeding means, an intermittently moving bag-supporting table, an intermittently moving carrier for receiving said bags from said table, means for transporting the bags from said table to said carrier and puckering the mouths thereof, a second carrier, a cutting mechanism for severing metal bands from said strip, means for forming each band into substantially U-shape and transporting the same to said second carrier, said second carrier moving intermittently and bringing said U-shaped bands into operative relation to the bags on said first-mentioned carrier, and co-acting dies for forming the bands into ring-shape and applying the same to the bags so as to encircle and compress the puckered mouths thereof.

9. A bag-closing machine comprising a metal strip feeding means, a bag support, a carrier for receiving said bags from said support, means for transporting the bags from said support to said carrier and puckering the mouths thereof, a second carrier, a cutting mechanism for severing metal bands from said strip, means for forming each band into substantially U-shape and transporting the same to said second carrier, said second carrier bringing said U-shaped bands into operative relation to the bags on said first-mentioned carrier, and co-acting dies for forming the bands into ring-shape and applying the same to the bags so as to encircle and compress the puckered mouths thereof.

16. A bag-closing machine, including a carrier comprising an intermittently moving disk, equidistantly spaced arms projecting therefrom, each arm being provided on its outer end with a longitudinal slot receiving a bag, a lever, two horizontally disposed pins thereon, one above and the other one below said arms, and means for swinging said lever to and from said arms bringing said pins nearer to the center of said disk than the inner end of a slot in an arm before said carrier stops in its intermittent movement.

19. A bag-closing machine, including a carrier, equidistantly spaced means thereon for holding bags in puckered position on said carrier, means in operative relation to said carrier for closing thereon the puckered mouth of a bag, a knife also in operative relation to said carrier, means for causing intermittent motion of said carrier so as to bring the bags thereon step by step to said closing means and to said knife, and means for actuating said closing means and for causing said knife to move toward said carrier during each interval of rest of the latter.

16,898. LOOSENING ROLL FOR CARDING MACHINES. OWEN W. BRADBURY, Reading, Mass. Filed Sept. 27, 1927. Serial No. 222,392. Original No. 1,598,800, dated Sept. 7, 1926, Serial No. 600,425, filed Nov. 11, 1922. 12 Claims. (Cl. 19—98.)

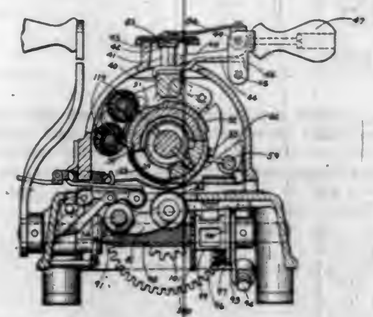


1. In a carding machine having a main cylinder covered with card clothing having wire teeth, workers, strippers and a doffer, the combination of a loosening roll having a longitudinal groove, an elastic strip imbedded in said groove, a metal strip imbedded in the elastic strip, yielding tapering needles carried by the metal strip, and means to retain the strip flexibly in position, the loosening roll being so set that the needle points penetrate between said wire teeth, with means to give the loosening roll an axial traverse motion, and means to cause the loosening roll to revolve in the opposite direction to, and at a greater surface speed than, the main cylinder.

16,899. PRINTING APPARATUS. WALTER B. PAYNE, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 26, 1927. Serial No. 215,748. Original No. 1,593,809, dated July 20, 1926, Serial No. 608,152, filed Dec. 21, 1922. 21 Claims. (Cl. 197—6.2.)

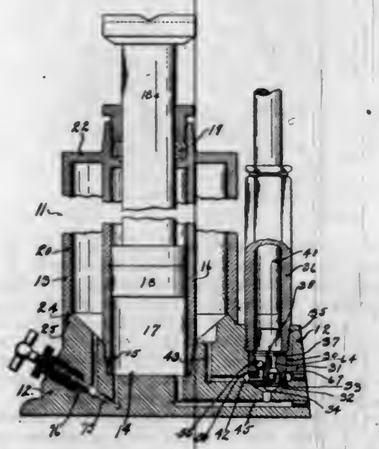
21. In a check writer, a carrier having a plurality of sets of type thereon, each set of type comprising two words superimposed one on the other, the letters of one

word gradually decreasing in height from one end of the word to the other and the letters of the other word gradually increasing in height from one end of the word



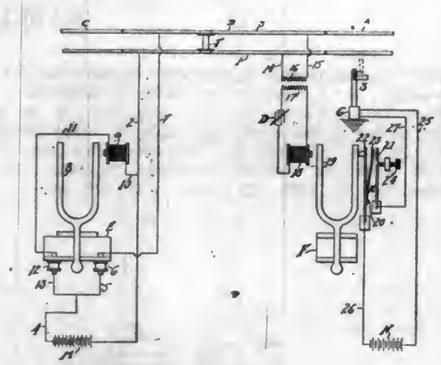
to the other, whereby the small letters of one of the words will be disposed beneath the large letters of the other word so that adjacent words will overlap.

16,900. CHECK-VALVE UNIT FOR HYDRAULIC JACKS. JOHN G. DYBENS, Los Angeles, Calif., assignor, by mesne assignments, to Herman D. Eberle. Filed Feb. 2, 1927. Serial No. 165,473. Original No. 1,610,499, dated Dec. 14, 1926, Serial No. 757,362, filed Dec. 22, 1924. 10 Claims. (Cl. 138—9.)



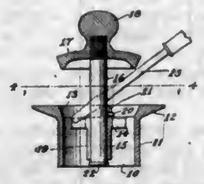
1. In a hydraulic jack, the combination of a head casting having a reservoir chamber and a cylinder, a base to which said head is secured, said base having a cavity, an intake passage connecting between said reservoir chamber and said cavity, and an exhaust passage connecting between said cylinder and said cavity, a pump barrel secured in said cavity, a plunger reciprocally disposed in said barrel, and a check valve unit in said cavity, said unit having an inlet passage connecting said intake passage with said barrel and an outlet passage connecting said exhaust passage and said barrel.

16,901. ELECTRIC SYSTEM. NEWMAN H. HOLLAND, Montclair, N. J., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed June 11, 1926. Serial No. 115,353. Original No. 1,498,238, dated June 17, 1924, Serial No. 395,897, filed July 13, 1920. 26 Claims. (Cl. 246—34.)



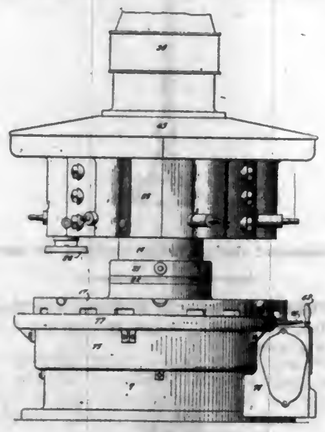
1. In an automatic railway block signaling system, a direct-current circuit which is constantly closed during operation of the system, means comprising a vibratory reed which is extraneous to all circuits of the system for producing current pulsations of a given frequency in the direct-current circuit, a signal circuit, and means for controlling said signal circuit comprising a device normally in operative relation to said direct-current circuit and tuned to the frequency of the current pulsations in the latter, the presence of a train in a block with which said signal circuit is associated, placing said device in inoperative relation to said direct-current circuit, substantially as described.

16,902. WASTE VALVE FOR BATHTUBS AND LAVATORIES. JOHN N. MORTIMER, Lakewood, Ohio, assignor to The Central Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 27, 1927. Serial No. 242,825. Original No. 1,630,352, dated May 31, 1927, Serial No. 142,278, filed Oct. 18, 1926. 2 Claims. (Cl. 4—295.)



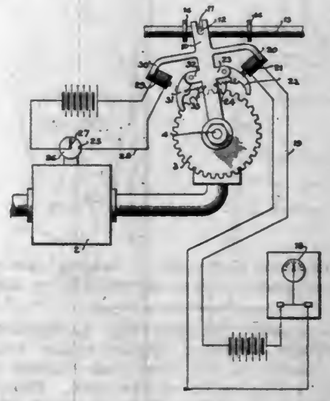
2. As a new article of manufacture, a waste valve for bathtubs comprising an externally threaded sleeve provided at its upper end with an outwardly extending flange, said sleeve having a beveled valve seat at its upper end, a tapered valve part adapted normally to seat therein and provided with a depending central supporting stem, an elongated hub adapted to accommodate said stem and permit its vertical movement therein, and provided with a radial connection interiorly of the threaded sleeve, the length of said stem being such as to permit the elevation of the valve part a sufficient distance to allow a tool to be brought into engagement with said radial connection and stem for the purpose of screwing the sleeve into the bathtub opening, and means for temporarily maintaining said valve part in its elevated position.

16,903. CIRCULAR-MILLING MACHINE. HOWARD C. ROSE, Detroit, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a Corporation of Illinois. Filed May 19, 1923. Serial No. 640,231. Original No. 1,421,030, dated June 27, 1922, Serial No. 175,170, filed June 16, 1917. 50 Claims. (Cl. 90—15.)



1. A circular milling machine comprising a work carrier and a tool carrier revolubly mounted and respectively equipped with a plurality of circumferentially arranged work holders and milling tools, and mechanism for continuously revolving the work and tool carriers and for causing, by such revolving movement, a relative movement in the plane of rotation between the work and the tools.

16,904. FLOW-REGULATING APPARATUS. LUIS DE FLOREZ, Pomfret, Conn. Filed Jan. 5, 1924. Serial No. 684,654. Original No. 1,426,718, dated Aug. 22, 1922, Serial No. 321,422, filed Sept. 3, 1919. 18 Claims. (Cl. 137—78.)

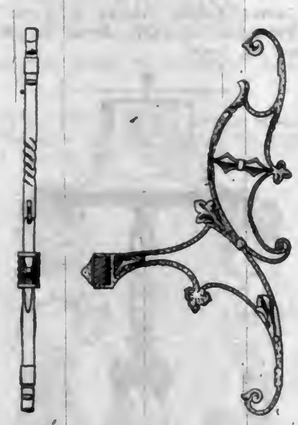


1. In a continuous flow regulating apparatus, the combination of a valve and a meter interposed in a circulation system, means for causing the actuation of the valve in one direction, and meter controlled means for actuating said valve in the opposite direction.

DESIGNS

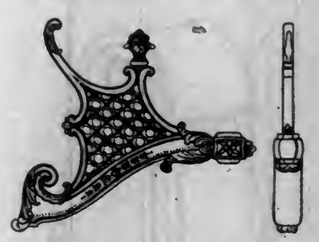
MARCH 13, 1928.

74,642. LIGHTING-FIXTURE BRACE OR ARTICLE OF SIMILAR NATURE. HARRY AGLOW, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,770. Term of patent 3½ years.



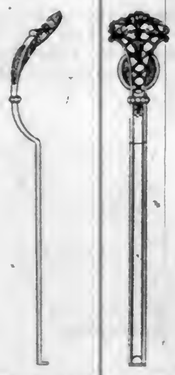
The ornamental design for a lighting fixture brace or article of similar nature substantially as shown.

74,643. LIGHTING-FIXTURE ARM OR ARTICLE OF SIMILAR NATURE. HARRY AGLOW, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,773. Term of patent 3½ years.



The ornamental design for a lighting fixture arm or article of similar nature substantially as shown.

74,644. LIGHTING-FIXTURE BRACE OR ARTICLE OF SIMILAR NATURE. HARRY AGLOW, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,774. Term of patent 3½ years.



The ornamental design for a lighting fixture brace or article of similar nature substantially as shown.

74,645. LIGHTING-FIXTURE BACKPLATE OR ANALOGOUS ARTICLE. HARRY AGLOW, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,775. Term of patent 3½ years.



The ornamental design for a lighting fixture backplate or analogous article substantially as shown.

74,646. SOUND-AMPLIFIER CASING. JAMES S. BACH, Toronto, Ontario, Canada. Filed Aug. 12, 1927. Serial No. 23,071. Term of patent 3½ years.



The ornamental design for a sound amplifier casing, as shown.

74,647. TORCHÈRE. OSCAR B. BACH, New York, N. Y. Filed Jan. 12, 1927. Serial No. 20,340. Term of patent 3½ years.



The ornamental design for a torchère, as shown.

74,648. TORCHÈRE. OSCAR B. BACH, New York, N. Y. Filed Jan. 12, 1927. Serial No. 20,341. Term of patent 3½ years.



The ornamental design for a torchère, as shown.

74,649. TABLE LAMP. OSCAR B. BACH, New York, N. Y. Filed Jan. 12, 1927. Serial No. 20,344. Term of patent 3½ years.



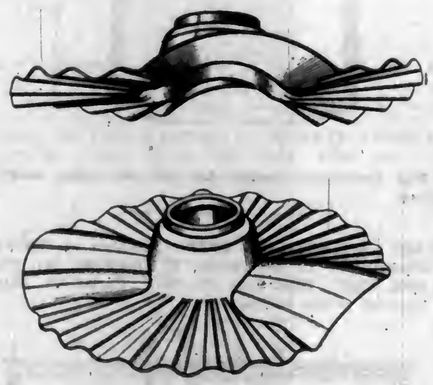
The ornamental design for a table lamp, as shown.

74,650. FLOOR LAMP. OSCAR B. BACH, New York, N. Y. Filed Jan. 12, 1927. Serial No. 20,348. Term of patent 3½ years.



The ornamental design for a floor lamp, as shown.

74,651. REFLECTOR. PERCY S. BAILEY, Marblehead, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 29, 1926. Serial No. No. 18,208. Term of patent 14 years.



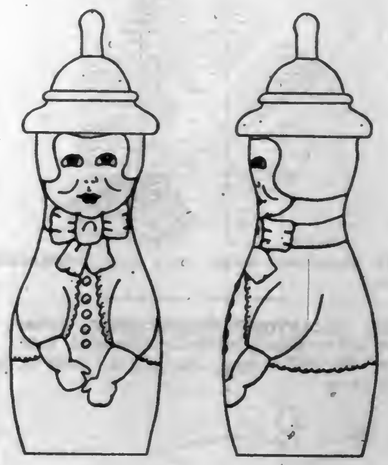
The ornamental design for a reflector as shown.

74,652. DOLL. CURTIS E. BATCHELOR, Oklahoma City, Okla. Filed June 10, 1927. Serial No. 22,886. Term of patent 7 years.



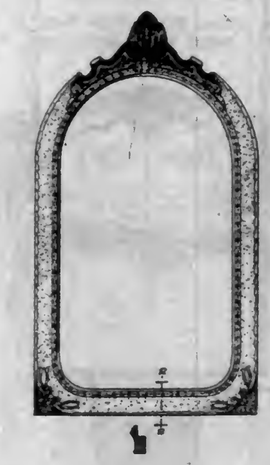
The ornamental design for a doll as shown.

74,653. NURSING BOTTLE. RUDOLPH W. BETTOLI, San Rafael, Calif., assignor of one-third to Hazel M. Peattie, San Rafael, Calif., and one-third to J. E. Trabucco, San Francisco, Calif. Filed Oct. 3, 1927. Serial No. 23,598. Term of patent 7 years.



The ornamental design for a nursing bottle as shown.

74,654. PICTURE FRAME. EDWARD H. BOESE, Villa Park, Ill., assignor to Chicago Portrait Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,672. Term of patent 3½ years.



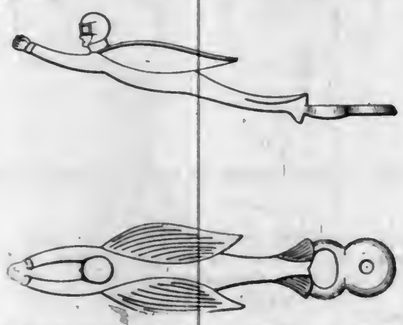
The ornamental design for a picture frame as shown.

74,655. SHOE. FRANK M. BOHR, Boston, Mass. Filed Nov. 21, 1927. Serial No. 24,226. Term of patent 14 years.



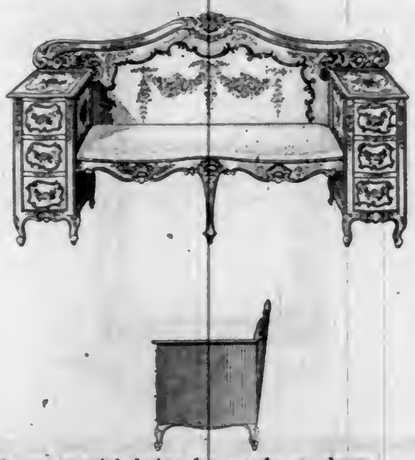
The ornamental design for a shoe, substantially as shown.

74,656. RADIATOR-CAP ORNAMENT. EUGENE BORDEN and ALPHONSE MARTELL, Hollywood, Calif. Filed Sept. 28, 1927. Serial No. 23,570. Term of patent 3½ years.



The ornamental design for a radiator cap ornament as shown.

74,657. SOFA. LEON BRAUS, New York, N. Y. Filed Dec. 16, 1927. Serial No. 24,501. Term of patent 7 years.



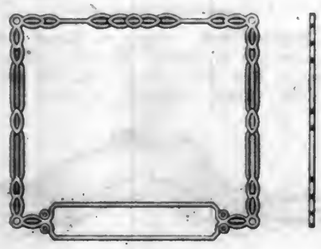
The ornamental design for a sofa, as shown.

74,658. KNITTED FABRIC. MILLARD D. BROWN, Philadelphia, Pa., assignor to Continental Mills, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1927. Serial No. 21,301. Term of patent 7 years.



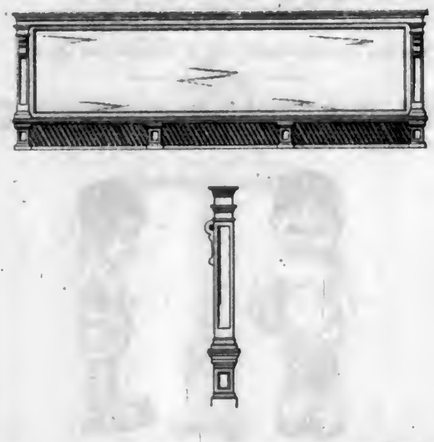
The ornamental design for a knitted fabric, substantially as shown.

74,659. ADVERTISING SIGN. WILLIAM G. BROWNE, Yonkers, N. Y., and ROGER W. OLMSTED, San Francisco, Calif. Filed June 20, 1927. Serial No. 22,498. Term of patent 14 years.



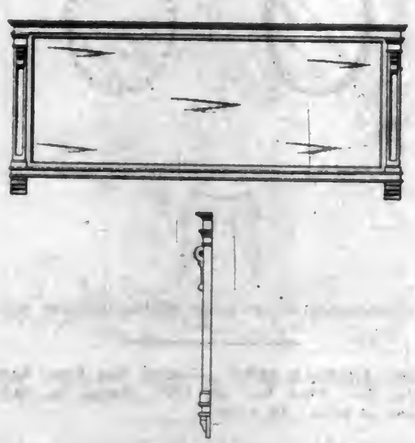
The ornamental design for an advertising sign as shown.

74,660. ADVERTISING SIGN. WILLIAM G. BROWNE, Yonkers, N. Y., and ROGER W. OLMSTED, San Francisco, Calif. Filed June 20, 1927. Serial No. 22,501. Term of patent 14 years.



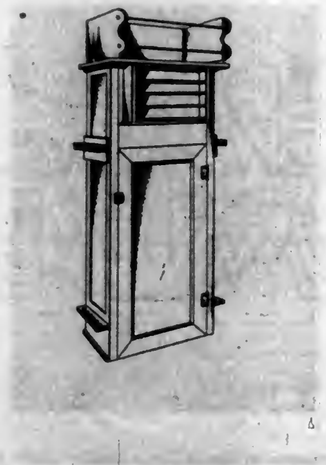
The ornamental design for an advertising sign as shown.

74,661. ADVERTISING SIGN. WILLIAM G. BROWNE, Yonkers, N. Y., and ROGER W. OLMSTED, San Francisco, Calif. Filed June 20, 1927. Serial No. 22,502. Term of patent 14 years.



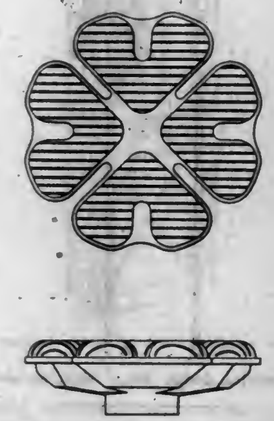
The ornamental design for an advertising sign as shown.

74,662. BILLIARD CABINET OR SIMILAR ARTICLE. JOHN H. CRITES, Ponca City, Okla. Filed Sept. 17, 1927. Serial No. 23,449. Term of patent 14 years.



The ornamental design for a billiard cabinet or similar article, as shown.

74,663. BURNER. JOHN ALGER DAHLSTROM, East Cleveland, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 3, 1926. Serial No. 19,912. Term of patent 14 years.



The ornamental design for a burner as shown.

74,664. BOOK COVER. FRANCIS L. DAVIS, Bothell, Wash., assignor of one-half to Joseph C. Curtis, King County, Wash. Filed Aug. 26, 1927. Serial No. 23,216. Term of patent 8½ years.



The ornamental design for a book cover as shown.

74,665. SIGN. HAL DICKINSON, Minneapolis, Minn., assignor to Duplex Art Sign Company, Minneapolis, Minn., a Copartnership consisting of Hal Dickinson, Inez Ida Deakin, and George S. Stinson. Filed Oct. 15, 1927. Serial No. 23,756. Term of patent 3½ years.

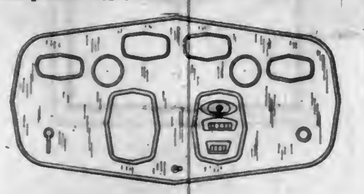


The ornamental design for a sign, as shown.

74,666. CABINET. FRANK F. DOLESHY, Seattle, Wash. Filed May 17, 1926. Serial No. 17,751. Term of patent 3½ years.

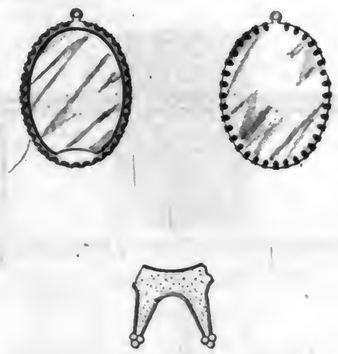
The ornamental design for a cabinet, as shown.

74,667. INSTRUMENT PANEL. EDWIN R. EVANS, Detroit, Mich. Filed Mar. 8, 1926. Serial No. 16,819. Term of patent 3½ years.



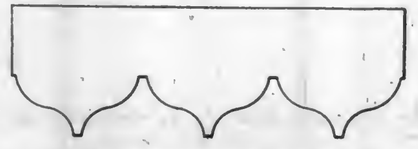
The ornamental design for an instrument panel substantially as shown.

74,668. EMBLEM FRAME. WILLIAM J. FEELEY, Providence, R. I., assignor to Apostleship of Prayer, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1927. Serial No. 23,407. Term of patent 14 years.



The ornamental design for an emblem frame, as shown.

74,669. SHINGLE STRIP. JOSEPH RAY FIFE, Kansas City, Mo. Filed Nov. 25, 1927. Serial No. 24,271. Term of patent 14 years.



The ornamental design for a shingle strip, as shown.

74,670. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. ALFRED J. HEINKE, Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 29, 1927. Serial No. 23,237. Term of patent 3½ years.



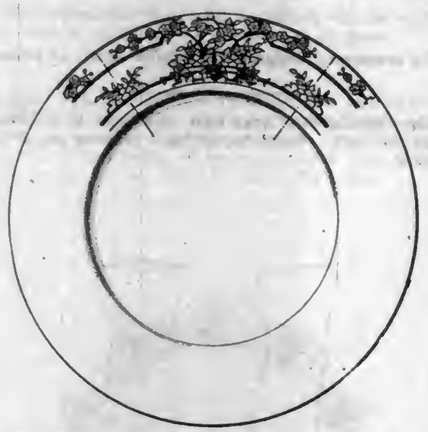
The ornamental design for a textile fabric or similar article of manufacture substantially as shown and described.

74,671. SHAWL. EMIL HOLENSTEIN, Brooklyn, N. Y., assignor to Edgar C. Hyman Co., New York, N. Y. Filed Nov. 8, 1926. Serial No. 19,684. Term of patent 7 years.



The ornamental design for a shawl substantially as shown and described.

74,672. PLATE OR SIMILAR ARTICLE. FRANK G. HOLMES, Trenton, N. J., assignor to Lenox, Inc., Trenton, N. J., a Corporation of New Jersey. Filed Jan. 13, 1928. Serial No. 24,854. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown, and described.

74,673. CASE FOR OPHTHALMIC MOUNTINGS. CARL R. JERRY, Rochester, N. Y., assignor to Shur-On Standard Optical Company, Inc., Geneva, N. Y., a Corporation of New York. Filed Dec. 29, 1925. Serial No. 15,893. Term of patent 7 years.



The ornamental design for a case for ophthalmic mountings, as shown.

74,674. TELEPHONE WALL CABINET. WILLIAM DANIEL JOHNSTON, Waco, Tex., assignor to Wm. Cameron & Co. Inc., Waco, Tex., a Corporation of Texas. Filed Apr. 16, 1927. Serial No. 21,622. Term of patent 14 years.



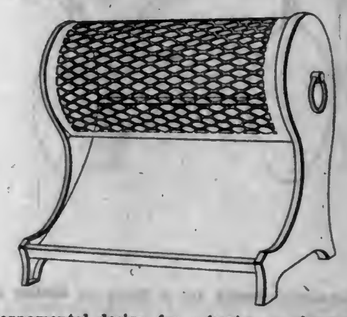
The ornamental design for a telephone wall cabinet, as shown.

74,675. WALL CABINET. WILLIAM DANIEL JOHNSTON, Waco, Tex., assignor to Wm. Cameron & Co. Inc., Waco, Tex., a Corporation of Texas. Filed Nov. 4, 1927. Serial No. 23,998. Term of patent 14 years.



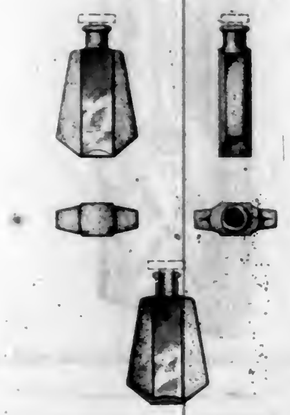
The ornamental design for a wall cabinet, as shown.

74,676. HEATER. EDWIN H. KEIPER, Swarthmore, Pa. Filed Nov. 11, 1926. Serial No. 19,673. Term of patent 14 years.



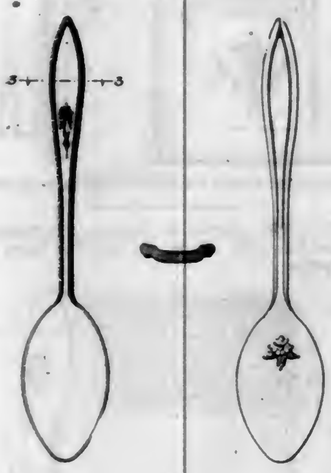
The ornamental design for a heater as shown.

74,677. BOTTLE OR LIKE CONTAINER. RICHARD W. KOHL, Cumberland, Md., assignor to Jaciel Perfumers, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 14, 1927. Serial No. 24,474. Term of patent 14 years.



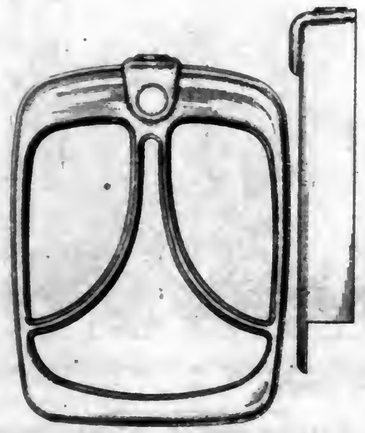
The ornamental design for a bottle or like container, substantially as shown and described.

74,678. SPOON OR SIMILAR ARTICLE. THOMAS B. LASHAR, Fairfield, Conn., assignor to Associated Silver Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1926. Serial No. 19,611. Term of patent 14 years.



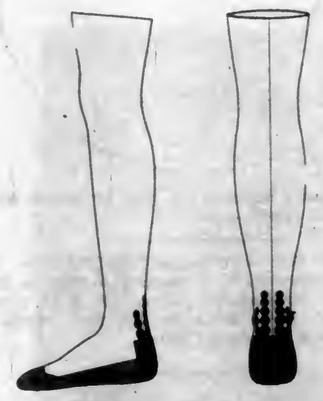
The ornamental design for a spoon or similar article as shown.

74,679. RADIATOR COVER. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 2, 1927. Serial No. 23,276. Term of patent 14 years.



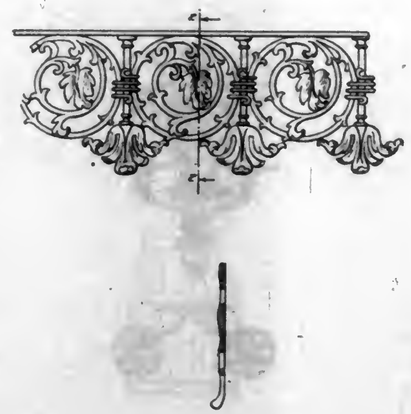
The ornamental design for a radiator cover, as shown.

74,680. STOCKING. RUBY LEFI, New York, N. Y. Filed Oct. 14, 1927. Serial No. 23,751. Term of patent 14 years.



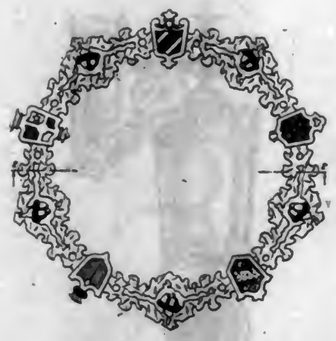
The ornamental design for a stocking, substantially as shown.

74,681. LIGHTING-FIXTURE BANDING OR ARTICLE OF SIMILAR NATURE. JOHN F. LIVERS, Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company, a Corporation of Missouri. Filed Jan. 3, 1928. Serial No. 24,735. Term of patent 3½ years.



The ornamental design for a lighting fixture banding or article of similar nature substantially as shown.

74,682. LIGHTING-FIXTURE RING OR ARTICLE OF SIMILAR NATURE. JOHN F. LIVERS, Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company, a Corporation of Missouri. Filed Jan. 3, 1928. Serial No. 24,736. Term of patent 3½ years.



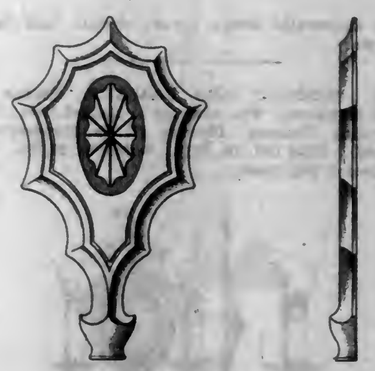
The ornamental design for a lighting fixture ring or article of similar nature substantially as shown.

74,683. PLATE FOR LIGHTING FIXTURES OR ARTICLES OF SIMILAR NATURE. JOHN F. LIVERS, Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company, a Corporation of Missouri. Filed Jan. 3, 1928. Serial No. 24,787. Term of patent 3½ years.



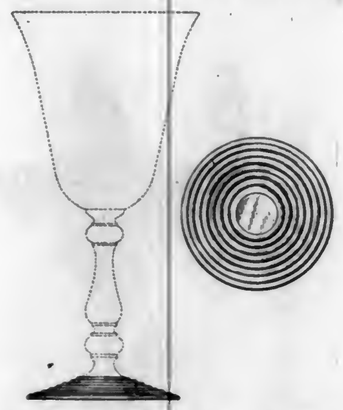
The ornamental design for a plate for lighting fixtures or article of similar nature substantially as shown.

74,684. LIGHTING-FIXTURE BACKPLATE OR ARTICLE OF SIMILAR NATURE. JOHN F. LIVERS, Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company, a Corporation of Missouri. Filed Jan. 3, 1928. Serial No. 24,788. Term of patent 3½ years.



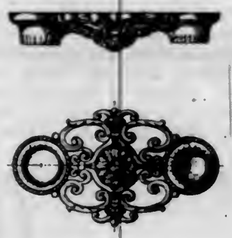
The ornamental design for a lighting fixture backplate or article of similar nature substantially as shown.

74,685. GOBLET. VIRGIL V. LOOMIS, Pittsburgh, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1926. Serial No. 18,882. Term of patent 14 years.



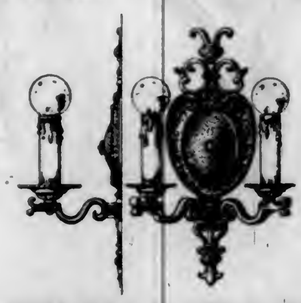
The ornamental design for a goblet, substantially as shown and described.

74,686. ELECTRIC-LIGHT FIXTURE. GEORGE LUDWIG, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1927. Serial No. 23,700. Term of patent 3½ years.



The ornamental design for an electric light fixture, as shown.

74,687. ELECTRIC WALL BRACKET. GEORGE LUDWIG, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1927. Serial No. 23,701. Term of patent 3½ years.



The ornamental design for an electric wall bracket, as shown.

74,688. ELECTRIC WALL BRACKET. GEORGE LUDWIG, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1927. Serial No. 23,702. Term of patent 3½ years.



The ornamental design for an electric wall bracket, as shown.

74,689. ELECTRIC-LIGHT FIXTURE. GEORGE LUDWIG, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1927. Serial No. 23,703. Term of patent 3½ years.



The ornamental design for an electric light fixture, as shown.

74,690. BOTTLE. GEORGE N. MAB, Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Filed Dec. 29, 1926. Serial No. 20,208. Term of patent 14 years.



The ornamental design for a bottle, as shown.

74,691. BOTTLE. GEORGE N. MAB, Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Filed Dec. 29, 1926. Serial No. 20,216. Term of patent 14 years.



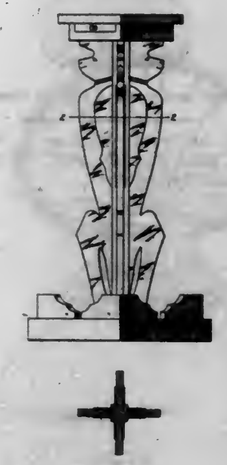
The ornamental design for a bottle, as shown.

74,692. CABINET. ARTHUR B. MODINE, Racine, Wis. Filed Nov. 19, 1926. Serial No. 19,782. Term of patent 14 years.



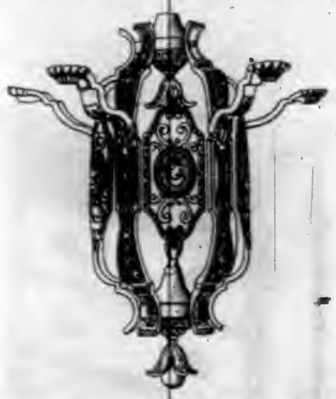
The ornamental design for a cabinet as shown.

74,693. STAND. ALBERT B. MONTGOMERY, New Haven, Conn. Filed Oct. 28, 1927. Serial No. 23,914. Term of patent 7 years.



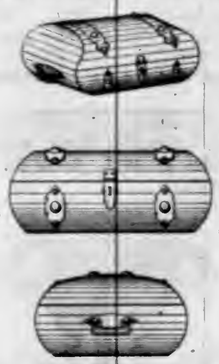
The ornamental design for a stand as shown.

74,694. CHANDELIER. JOSEPH NOVIN, New York, N. Y., assignor to The Centre Lighting Fixture Mfg. Co., New York, N. Y., a Partnership consisting of Joseph Novin and Samuel Ribak. Filed Jan. 7, 1928. Serial No. 24,776. Term of patent 3½ years.



The ornamental design for a chandelier substantially as shown and described.

74,695. BOX. SAM NUSSBAUM, Berne, Ind. Filed Oct. 4, 1926. Serial No. 19,240. Term of patent 3½ years.



The ornamental design for a box as shown.

74,696. CUFF BUTTON. WILLARD A. ORMSBEE, Taunton, Mass. Filed Feb. 19, 1927. Serial No. 20,819. Term of patent 3½ years.



The ornamental design for a cuff button, substantially as shown.

74,697. TIE HOLDER. WILLARD A. ORMSBEE, Taunton, Mass. Filed Feb. 19, 1927. Serial No. 20,818. Term of patent 3½ years.





The ornamental design for a tie holder, substantially as shown.

74,698. PICTURE-MACHINE CASING. WILLIAM RABKIN, New York, N. Y. Filed Aug. 19, 1927. Serial No. 23,146. Term of patent 14 years.



The ornamental design for a picture machine casing, as shown.

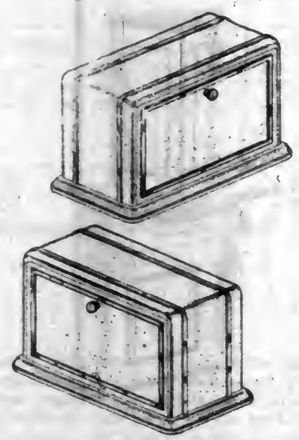
74,699. SIGNAL-LIGHT CASING. VINCENT SCATENA, Pittsburgh, Pa. Filed Dec. 22, 1927. Serial No. 24,598. Term of patent 14 years.





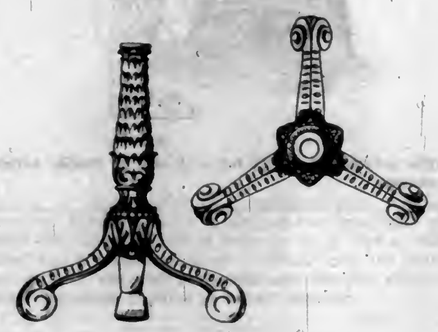
The ornamental design for a signal light casing, as shown.

74,700. SMOKER'S CABINET. SAMUEL B. SKLAR, Minneapolis, Minn. Filed Oct. 27, 1927. Serial No. 23,903. Term of patent 7 years.



The ornamental design for a smoker's cabinet, as shown.

74,701. PEDESTAL FOR DISPLAY STANDS OR SIMILAR ARTICLES. JOSEPH SOBEL, Brooklyn, N. Y., assignor to Genuine Bronze Fixture Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 11, 1927. Serial No. 24,075. Term of patent 7 years.



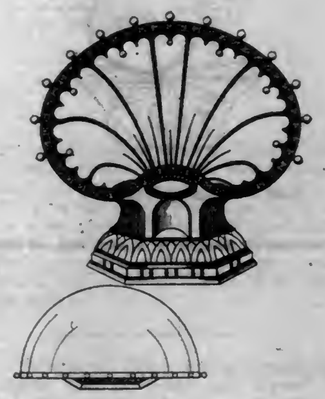
The ornamental design for a pedestal for display stands or similar articles, as shown.

74,702. DECORATIVE TABLE TOP. FRANK SOHN, Chicago, and LOUIS G. MARMION, Villa Park, Ill., assignors to The Vitrolite Company, a Corporation of West Virginia. Filed Aug. 17, 1927. Serial No. 23,130. Term of patent 7 years.



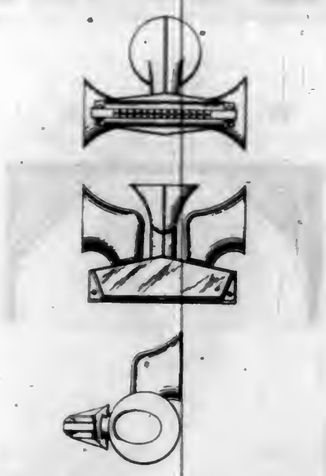
The ornamental design for a decorative table top, as shown and described.

74,703. LOUD SPEAKER. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Nov. 26, 1924. Serial No. 11,499. Term of patent 3½ years.



The ornamental design for a loud speaker, as shown.

74,704. HARMONICA. FERDINAND STRAUSS, New York, N. Y. Filed Jan. 6, 1928. Serial No. 24,761. Term of patent 7 years.



The ornamental design for a harmonica as shown.

74,705. NECKLACE. DENNIS SWEENEY, Farmingdale, N. Y. Filed Oct. 15, 1925. Serial No. 15,123. Term of patent 7 years.



The ornamental design for a necklace, as shown.

74,706. TELEPHONE CABINET. EARL M. TRAMMELL, El Paso, Tex., assignor to El Paso Sash & Door Company, El Paso, Tex. Filed Nov. 11, 1927. Serial No. 24,086. Term of patent 14 years.



The ornamental design for a telephone cabinet as shown.

74,707. BOOK END OR SIMILAR ARTICLE. THOMAS S. WOODWARD, Lectonia, Ohio. Filed July 19, 1927. Serial No. 22,809. Term of patent 14 years.

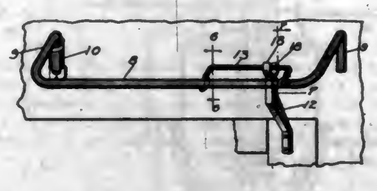


The ornamental design for book end or similar article as shown.

PATENTS

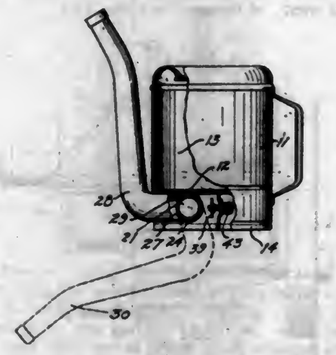
GRANTED MARCH 13, 1928.

1,662,049. CURTAIN AND DRAPERY HANGER. CLARENCE E. ABEL, Denver, Colo., assignor of one-half to Joseph L. Frank, Los Angeles, Calif. Filed Dec. 8, 1925. Serial No. 74,046. 3 Claims. (Cl. 156—22.)



1. A curtain and drapery hanger of the character described, comprising a pivoted curtain-rod, a guide-rod having a jaw engaging the curtain-rod, a clamp-member cooperating with the jaw to fasten the guide-rod on the curtain-rod whereby the hem of a curtain may be supported along the rod at points on both sides of the clamp, and a bracket adapted for attachment to a swinging element, in guiding relation to the guide-rod.

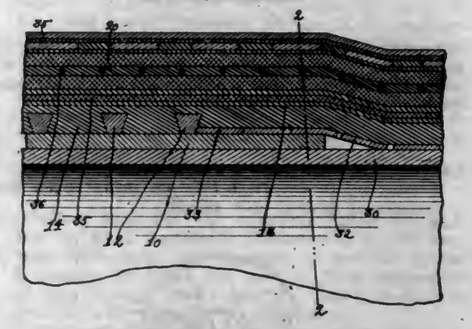
1,662,050. SWING-SPOUT MEASURE. SCOTT E. ALLEN and OZRO N. WISWELL, Los Angeles, Calif., assignors to Swingspout Measure Co., Los Angeles, Calif., a Corporation of California. Filed Jan. 10, 1927. Serial No. 160,112. 5 Claims. (Cl. 221—26.)



1. An oil measuring vessel comprising: walls forming a chamber having a filling opening at the upper end; an arched rim extending inward from the upper edge of said walls; and a horizontal flange provided upon the inner edge of said rim and projecting substantially radially inward therefrom to serve as a level indicator.

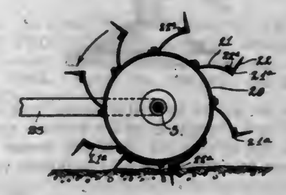
1,662,051. HOSE NIPPLE. HAROLD G. BRUNER, Wakefield, Mass., assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 30, 1923. Serial No. 660,158. 4 Claims. (Cl. 285—80.)

1. The combination of a hose nipple provided with a locking device, of a hose upon the nipple having a flexible body portion provided with a non-flexible inner member affixed to said flexible body portion to form part thereof and surrounding said nipple, said locking device on the



nipple being embedded in the non-flexible inner member to be enveloped by the latter and lock the hose fluid-tight upon the nipple.

1,662,052. AGRICULTURAL IMPLEMENT. ORIN M. BULLOCK, Oakland, Calif. Original application filed Apr. 18, 1922, Serial No. 554,766. Divided and this application filed Feb. 15, 1923, Serial No. 619,317. Renewed July 13, 1927. 3 Claims. (Cl. 97—216.)

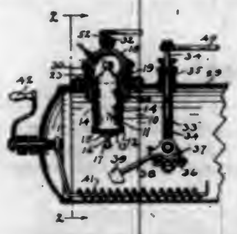


1. An agricultural implement comprising a drum, a plurality of resilient arms carrying blades mounted in spaced relation about the circumference of said drum, said arms being so curved as to conform to the surface of said drum when pressed thereagainst by contact with the ground, the spacing of said arms being such that just sufficient clearance is provided between an inwardly pressed arm and the connecting means on the drum for the next adjacent arm.

1,662,053. CHEMICAL FIRE-EXTINGUISHING DEVICE. JAMES EDWARD ALLEN and HENRY GEORGE SCHWOERPE, Logansport, Ind., assignors to Boyer Fire Apparatus Company, Logansport, Ind., a Corporation of Indiana. Filed Mar. 14, 1927. Serial No. 175,215. 2 Claims. (Cl. 169—32.)

1. In a chemical fire-extinguisher, an acid receptacle, a holder to receive the receptacle, a holder cap, pins projecting from the cap, said holder having vertical slots entering from its upper edge to communicate with hori-

xontal slots whereby said pins may be entered into said horizontal slots, a latch bar pivotally carried on the holder to swing in a vertical plane, and a spring normally positioning said bar to lie across the open end of said



horizontal slot and to enter said vertical slot, a base in said holder, yielding members carried by the holder to retain said receptacle, and a plunger carried by said base adapted to be driven against the receptacle.

1,662,054. EYE-TESTING DEVICE. JOHN C. W. BEALL, Washington, D. C. Filed July 30, 1926. Serial No. 126,039. 10 Claims. (Cl. 88—20.)



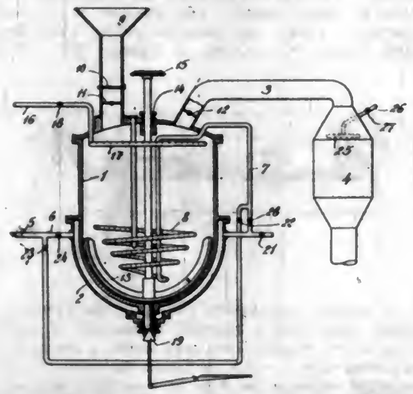
6. A device for use in eye-testing comprising means for obscuring the eyes alternately and a variable speed motor having means for driving the obscuring means at a rate of from one but less than sixteen obscurations per second.

1,662,055. CONNECTING DEVICE. HOMER P. CHANDLER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 13, 1925. Serial No. 29,934. 4 Claims. (Cl. 200—115.5.)



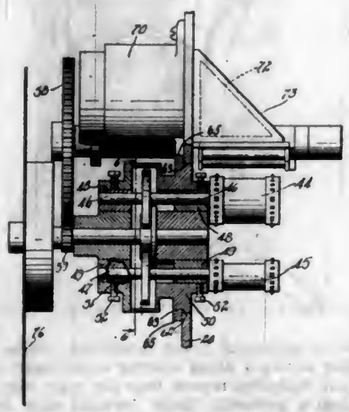
1. A feeder tapper comprising a pair of pivotally mounted jaws to engage and grip a conductor, operating means to engage the jaws externally thereof and to move relative thereto in a longitudinal direction to move the jaws into engagement with the conductor, a handle secured to the operating means and which, when rotated, will rotate the operating means, means connecting the operating means and jaws to move the jaws and said means relative to each other when the handle is rotated, means to secure a cable to said tapper and a fuse interposed between the jaws and the cable.

1,662,056. METHOD OF SUBLIMATION. CROSBY FIELD, Mahwah, N. J., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 22, 1920. Serial No. 367,821. 14 Claims. (Cl. 260—57.)



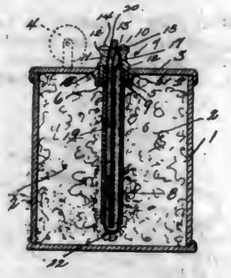
1. The method of effecting the sublimation of anthracene, anthraquinone, and the like which comprises charging the material in a finely divided state into a preheated subliming receptacle and stirring the material therein until it becomes plastic, and then passing a heated gas or vapor through the receptacle to promote the sublimation.

1,662,057. COMBINED MOTION-PICTURE CAMERA AND PROJECTOR. ARCHIE K. HADLEY, Milwaukee, Wis. Filed May 9, 1923, Serial No. 637,822. Renewed Sept. 6, 1927. 6 Claims. (Cl. 88—18.)



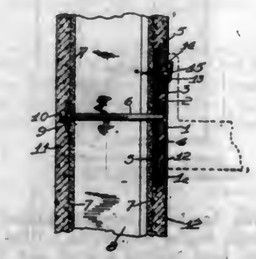
1. In a device of the type described, a moving picture machine having a film taking or projecting aperture therein and intermittent mechanism for moving a standard film past the aperture at various speeds, said mechanism comprising a plurality of spools of different diameters each adapted to be operatively connected to the film, common means for actuating said spools, and means for moving any one of said spools into operative engagement with the film, means for feeding the film to said spools, and means for changing the speed of said film feeding means.

1,662,058. WICK DEVICE FOR CIGAR AND OTHER LIGHTERS. STUART A. HARGRAFT, Chicago, Ill. Filed Feb. 4, 1927. Serial No. 165,861. 1 Claim. (Cl. 67—7.)



A device of the character described comprising a wick, a hollow cylindrical container for the wick, a head for supporting the container and carried on one end thereof, said head formed with an opening communicating with the interior of the container and the walls of the opening being flush with the interior wall of the container to provide a smooth riding surface for the wick, said opening being gradually restricted toward the mouth thereof to substantially the size of the wick, the body of the wick being doubled upon itself and enclosed within the container and head with one end projecting out of the opening in the head, the remaining end of the wick lying at all times within the restricted portion of the opening in the head, which restricted portion constitutes an obstruction preventing withdrawal of said end of the wick when the projected end of the wick is fed out of the container.

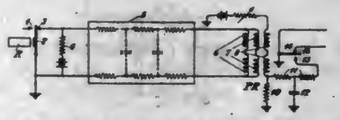
1,662,059. FIXTURE ANCHORAGE. WILLIAM GERALD HEMSWORTH and THOMAS ANDREW HEMSWORTH, Chicago, Ill. Filed June 10, 1927. Serial No. 197,978. 3 Claims. (Cl. 72—101.)



2. A fixture anchorage, comprising a body portion in the form of a grille, means for securing said body portion to wall, a plurality of metal plates covering the openings at the rear of the grille, the openings in front of said sheet metal plates being adapted to receive plaster, bracket holding means, and means for securing said bracket holding means to said plates, said last-named means being arranged to project through said openings and through said metal plates.

1,662,060. RELAY AND CIRCUITS THEREFOR. JOSEPH HERMAN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 31, 1925. Serial No. 78,657. 4 Claims. (Cl. 175—320.)

1. A polar relay comprising an operating winding, a biasing winding, and an armature, and means controlled by said relay whereby when the armature is on one of its contacts the biasing current of small but definite value will flow through the biasing winding to produce a pull on the armature opposite to that of the



operating winding, and means whereby when the armature is on the other of its contacts the biasing current will be increased.

1,662,061. ALKYLATION OF CARBAZOL. RAY W. HESS and JOHN C. SIEMANN, Buffalo, N. Y., assignors to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 25, 1922. Serial No. 531,779. 24 Claims. (Cl. 260—46.)

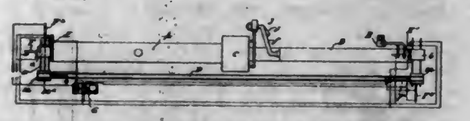
1. The method of making an N-derivative of carbazol which comprises causing carbazol to react with an alkylating agent of the aliphatic series in the presence of an acid binding agent.

1,662,062. PROCESS OF MAKING INDOPHENOLS. RAY W. HESS, Buffalo, N. Y., and ORIN D. CUNNINGHAM, Indianapolis, Ind., assignors to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 25, 1922. Serial No. 546,859. 15 Claims. (Cl. 260—55.)

1. The method of making an indophenolic compound, which comprises condensing a carbazole compound with a para-nitrosophenol compound in the presence of sulfuric acid, and maintaining throughout the condensation an excess of the para-nitrosophenol compound.

11. The manufacture of condensation products of N-substituted carbazole and a p-nitroso-phenol by bringing an N-substituted carbazole and a p-nitroso-phenol together in presence of a condensing agent at a temperature not exceeding about minus 5° C. and maintaining the reaction-mixture throughout the condensation at a temperature below 0° C.

1,662,063. APPARATUS FOR FIRING CERAMIC AND OTHER PRODUCTS. CHARLES T. HOLCROFT, Detroit, and CHARLES E. DOLL, Mount Clemens, Mich. Filed Dec. 1, 1924. Serial No. 753,084. 64 Claims. (Cl. 25—142.)



1. In the art of "firing" articles, a tunnel kiln formation of the muffle type, means for advancing the articles through the tunnel of the formation, and means for establishing a circulation of air within the tunnel with the air supply admission adjacent an end of the tunnel and with pressure of the air greater than that of atmospheric pressure, the air being in direct contact with the advancing articles.

1,662,064. AUTOMOBILE RADIATOR. HARRY JAFFE, Detroit, Mich., assignor to Kalman Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 21, 1925. Serial No. 57,687. 7 Claims. (Cl. 157—129.)
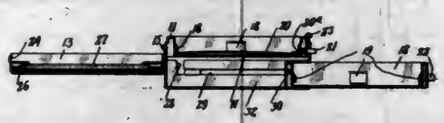
1. A radiator core comprising a plurality of vertically extending strips, the body portions of the strips being flat and extending in single thickness from the top to the bottom of the core, the strips having longitudinally

extending grooves adapted to cooperate to form vertically extending water passages in the core, portions of the strips partly severed and formed out of the planes of



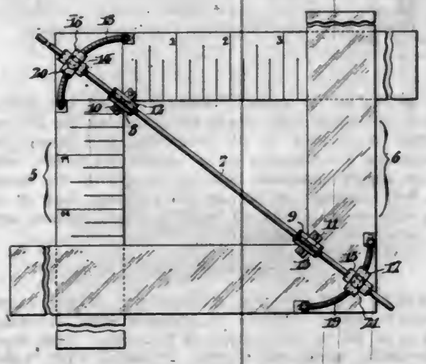
the strips the formed-out portions of adjacent strips contacting to space the water passages apart transversely of the core.

1,662,065. VANITY CASE. WILLIAM G. KENDALL, Newark, N. J. Filed July 29, 1926. Serial No. 125,632. 3 Claims. (Cl. 132—83.)



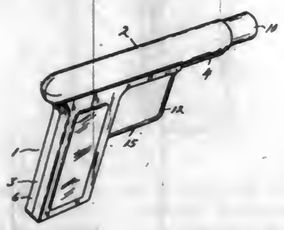
2. A vanity case comprising a rectangular casing having an opening in a wall thereof, a slidable tray adapted to be longitudinally slid to and fro through the said opening, a guide associated with said opening and consisting solely of a U-shaped metal strip independent of said tray and located within the said casing and the base of the said U-shaped metal member being opposite the opening in the said casing and being adjacent a vertical wall of the said casing, the said guide contacting with the rear wall and with the longitudinal walls of said casing, the legs of the said U-shaped guide member having longitudinal guide grooves formed therein, the rear portion of the said tray having lugs adapted to engage the guide grooves in said legs, the height of the said opening being sufficient to permit the rearward insertion of the said sliding tray, the outer ends of the said guide grooves being spaced from the outer ends of the said legs.

1,662,066. GAUGING DEVICE. REINHOLD KRUMM, Philadelphia, Pa. Filed Nov. 22, 1926. Serial No. 150,075. 4 Claims. (Cl. 33—95.)



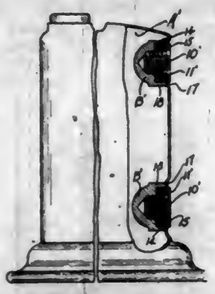
1. A gauging device of the character described comprising opposing overlapping members enclosing an intervening exposure area, fittings having swivel connection with said members and a connecting rod slidably engaged in the fittings whereby the members may be moved toward or away from one another and relatively swung in varying the configuration and size of the exposure area.

1,662,067. LIQUID GUN. CHARLES F. LEFEVER, Plymouth, Mich., assignor to Daisy Manufacturing Company, Plymouth, Mich., a Corporation of Michigan. Filed July 18, 1927. Serial No. 206,637. 7 Claims. (Cl. 42—56.)



1. In a gun, the combination of a frame, a reciprocable liquid barrel guided by said frame, a stationary piston cooperating with said barrel, a trigger connected to said barrel for moving the same in one direction, and a spring connected to said trigger adjacent the point of connection of said trigger to said barrel for moving said barrel in the opposite direction.

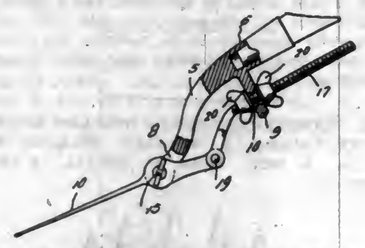
1,662,068. FITTING FOR SHEET METAL. JAMES IRONSIDE, Detroit, Mich., assignor to Clayton and Lambert Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 2, 1925. Serial No. 12,753. 3 Claims. (Cl. 220—91.)



1. In a tank having a laterally flanged aperture, a handle attaching means comprising a plug for engaging a handle, said plug having a skirt and flange portion forming an annular groove concentric with the axis of the plug, a charge of solder positioned in the end of said groove and said groove being adapted to receive said lateral flange, said skirt portion of the plug being adapted to be spun over against the surface of said tank adjacent said aperture.

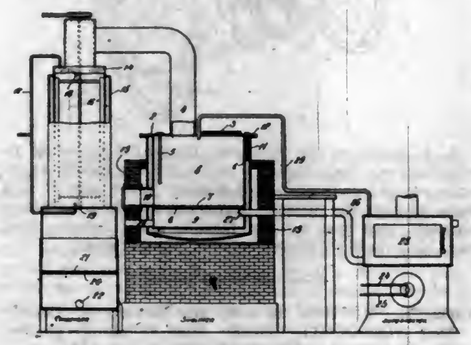
1,662,069. COMBINED GARDEN IMPLEMENT. ERNEST F. KEILIG, Ravenna, Nebr. Filed May 6, 1927. Serial No. 189,243. 1 Claim. (Cl. 306—4.)

In a convertible garden implement of the class described, a handle, a socket member including a socket receiving one end of the handle, and a longitudinally bowed shank terminating in a bifurcated head, said socket member being also provided with an angularly disposed apertured lug, an earth working blade provided with a shank having its intermediate portion disposed between the furcations of said bifurcated head and pivotally and separately connected therewith, a bolt pivotally connected to the free end portion of said shank and having an opposite end extending through the aperture in said lug, and re-



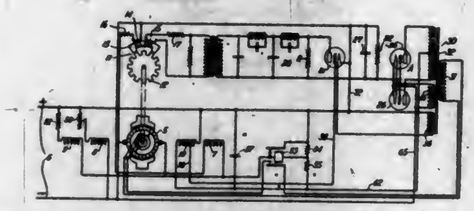
taining nuts carried by the threaded portion of the bolt and cooperable with the lug for holding said blade in different adjusted positions.

1,662,070. SUBLIMATION APPARATUS. CHAUNCEY A. LYFORD, East Aurora, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1920. Serial No. 370,802. 3 Claims. (Cl. 23—264.)



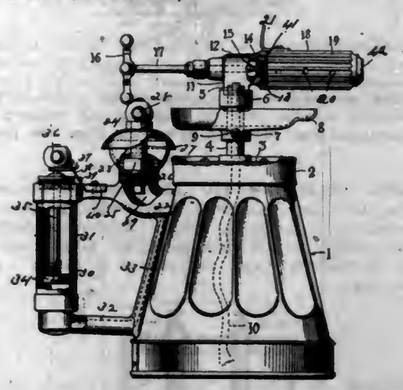
1. A sublimation apparatus comprising a container for the material to be sublimed, means for introducing steam into the container beneath said material, means for introducing steam into said container above said material and means for condensing the sublimed material.

1,662,071. REGULATING SYSTEM. EMANUEL C. MANDERFELD, Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1926. Serial No. 127,091. 9 Claims. (Cl. 171—312.)



1. In a regulator system, a dynamo-electric machine, a three-element electron discharge tube, means for controlling said discharge tube in accordance with an operating characteristic of the machine, an amplifier having an input circuit controlled by said discharge tube and an output circuit for governing said machine to maintain said operating characteristic substantially constant, and means for varying the operation of said discharge tube in accordance with conditions obtained in the output circuit of the amplifier.

1,662,072. BLOWTORCH. BRUNO MARTIN, Saginaw, Mich. Filed Aug. 5, 1926. Serial No. 127,265. 4 Claims. (Cl. 158—33.)



1. In a blow torch, a tapered tank, lateral hollow supports thereon, an air pump on and in communication with said supports, and a pipe lying against and secured to the outer wall of the said tank and closely contacting therewith and communicating with one of the said lateral supports and with the tank.

1,662,073. CLIP FOR WRITING INSTRUMENTS. WILLIAM CLARKE S. MAYS, Providence, R. I., assignor to The Mays Manufacturing Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 28, 1927. Serial No. 177,595. 4 Claims. (Cl. 24—11.)

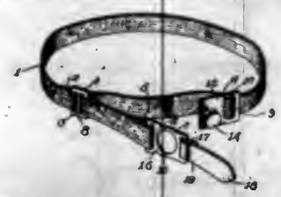


1. A method of forming a hollow ball on the clip for writing instrument, which consists in blanking from sheet stock a body portion having laterally extending wings and a tongue adjacent its end, the edges of which are respectively convexly and concavely shaped to fit together drawing said wings, tongue and adjacent body to form a cup, with the wings and tongue extending at right angles to the body, folding the end of said tongue towards the body and subsequently folding the said wings and tongue to form a complete hollow substantially spherically shaped formation.

1,662,074. FASTENER FOR SLEEVE BANDS. WILLIAM MCMEANS, Scranton, Pa. Filed Aug. 31, 1926. Serial No. 132,793. 1 Claim. (Cl. 24—77.)

A fastener of the character described comprising companion members, one fastener member consisting of a plate having one end portion provided with transversely extending band receiving slots spaced from each other longitudinally of the plate and a button having a shank carried by and extending from the other end portion of said plate and at its outer end provided with an enlarged head, the other fastener member consisting of a plate having one end portion formed with a slot to receive an end portion of a band and its intermediate portion provided

with an enlarged opening materially greater in diameter than the head of said button and adapted to be disposed about the shank beneath the head of the button,



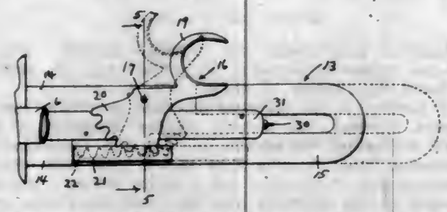
the other end portion of the plate having a slot formed transversely therein, and an actuating tab engaged in the last-mentioned slot and extending from the plate.

1,662,075. ELECTROLYTIC RECTIFIER. ADALBERT BÉLA MUNTYAN, Amsterdam, Netherlands, assignor of one-half to George Ernst Fischer, Amsterdam, Netherlands. Filed Oct. 15, 1924, Serial No. 743,813, and in the Netherlands Oct. 19, 1923. 1 Claim. (Cl. 175—318.)



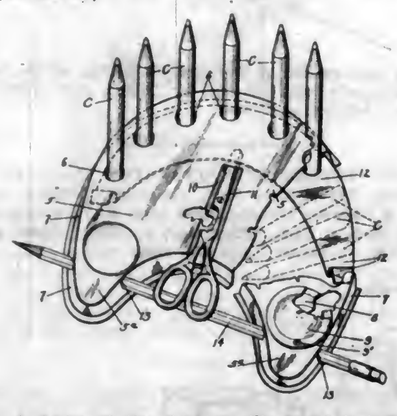
An electrolytic current rectifier comprising in combination: an electrolyte; electrodes of aluminium comprising anode and cathode members immersed in said electrolyte; and metallic oxide coatings of different thicknesses formed on said anode and cathode members by treatment while they are outside said electrolyte; said coated anode and cathode members having when in the electrolyte a constant difference of electrical capacity from one another per unit area of surface such that they possess the correct capacities corresponding to the strength of current for which the rectifier is constructed, remain unaltered, and are enabled to operate so as to transform the alternating current supplied directly into continuous current.

1,662,076. TRUMPET. JOSEPH B. NEWMAN, Ravenna, Ky. Filed June 10, 1927. Serial No. 197,885. 4 Claims. (Cl. 84—394.)



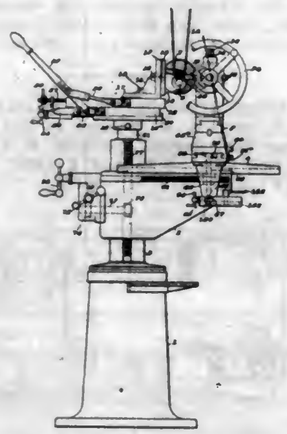
2. In a musical instrument of the class described, a trumpet embodying customary piston valves, each including a cylinder, a piston reciprocable in said cylinder, a slide valve for at least one of said piston valves, said slide valve including spaced parallel rigid branches, and a U-shaped slide mounted thereon, a finger actuated lever pivotally mounted on a part of the trumpet adjacent said slide, a rack carried by said slide, and a pinion carried by said lever and engageable with said rack, together with adjustable spring means for resisting the actuation of said lever and for returning said slide to normal closed position.

1,662,077. KINDERGARTEN CRAYON AND SCISSORS HOLDER. HATTIE B. SCHWARTZ, Pasadena, Calif. Filed Dec. 6, 1927. Serial No. 238,111. 5 Claims. (Cl. 120—1.)



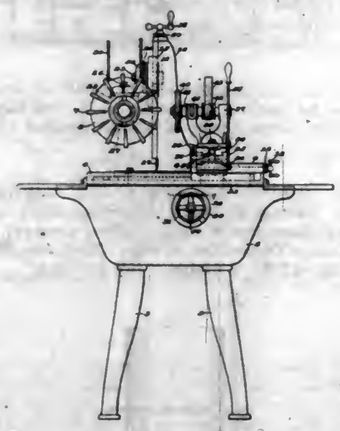
1. A device of the character illustrated including in combination a body having a series of holes therein to receive crayons endwise, a stop member at one side of said holes to limit the distance crayons can be inserted therethrough, said stop member forming space between said body and itself to receive crayons therebetween.

1,662,078. METHOD OF AND MACHINE FOR GRINDING FINE-TOOTH HOBS. OLE SEVERSON, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 12, 1925. Serial No. 1,876. 20 Claims. (Cl. 51—95.)



1. In a hob grinding machine, the combination comprising an arbor; a thread formed on said arbor having the same lead as the thread formed by the hob teeth to be ground; mechanism co-operating with said arbor thread for longitudinally moving the arbor in accordance with the rotation thereof and for holding the hob stationary during the grinding of the teeth; and indexing mechanism carried by said arbor for setting it in positions for grinding the various teeth in the hob thread.

1,662,079. MACHINE FOR GRINDING HOB AND DISK CUTTERS. OLE SEVERSON, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 2, 1925. Serial No. 6,255. 20 Claims. (Cl. 51—225.)



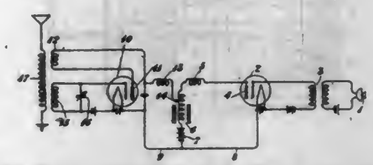
1. In a grinding machine, the combination comprising a carriage slidably mounted on the frame of the machine; a blank slide mounted on said carriage and movable in a direction perpendicular to the direction of the carriage movement; a blank varying arbor mounted on said blank slide; a wheel slide mounted on the frame of the machine and movable therealong in a direction perpendicular to the direction of carriage movement and in a plane parallel to said carriage plane; means for exerting a force tending to move the wheel slide towards the blank slide; and a grinding wheel mounted on said wheel slide.

1,662,080. PAPER PACKAGE. ULYSSES S. SILBAR, Grand Rapids, Mich. Filed Apr. 19, 1926. Serial No. 102,629. 1 Claim. (Cl. 206—57.)



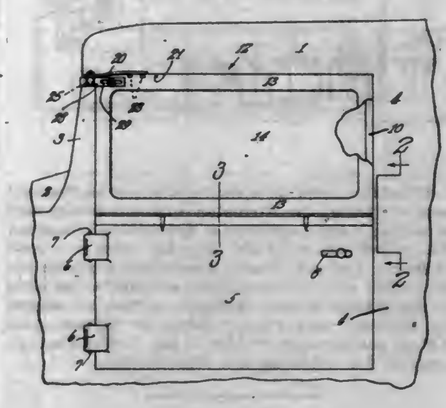
In a construction of the class described, an elongated envelope having an open lower end, a member located within the envelope, permanent securing means passing through said envelope and the member near the upper ends of said envelope and member, a plurality of sheets of paper folded about a vertical edge of said member and located within the envelope, and additional securing means passing through said paper sheets and member near the upper ends of said sheets, the upper ends of said sheets being located slightly below the first mentioned securing means, substantially as described.

1,662,081. HIGH-FREQUENCY MODULATING SYSTEM. HAROLD C. SILENT, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 24, 1924. Serial No. 715,701. 4 Claims. (Cl. 179—171.)



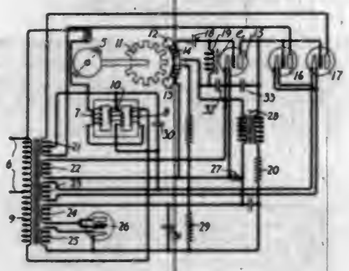
1. In a modulating system in which the modulating current varies the effective E. M. F. of the source of space current of a vacuum tube oscillator, the combination with an oscillator of a modulator and means to couple the said oscillator and modulator, the said means being so adjusted that the impedance of the circuit looking toward the said modulator is made equal to that looking toward the said oscillator.

1,662,082. DEMOUNTABLE WINDOW. HINSDALE SMITH, Keyport, N. J. Filed Jan. 5, 1925. Serial No. 527. 7 Claims. (Cl. 296—45.)



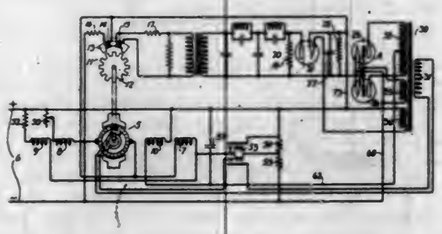
1. The combination with a vehicle body having a door hinged thereto, of a demountable window, interlocking devices carried by said window and door adapted when in interlocked engagement to prevent a relative vertical separating movement thereof, a hinging device carried by said window and a part of said vehicle adjacent thereto for hingedly connectig said window to said vehicle to permit opening and closing of said door and window as a unit.

1,662,083. ELECTRIC REGULATOR. HUGH M. STOLLER, Mountain Lakes, N. J., and EDMUND R. MORTON, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1926. Serial No. 127,049. 18 Claims. (Cl. 171—312.)



1. The combination with a dynamo electric machine, of a regulator including a detector responsive to variations in the speed of said machine, and means for impressing upon said detector an E. M. F. proportional to the rate of change of the speed of said machine.

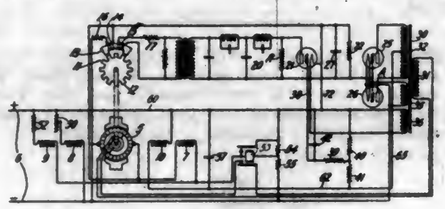
1,662,084. ELECTRIC REGULATOR. HUGH M. STOLLER, Mountain Lakes, N. J., and EDMUND R. MORTON, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1926. Serial No. 127,050. 15 Claims. (Cl. 171—119.)



1. Means for regulating a characteristic of an electrical system, comprising an alternator, a motor driving said alternator at a speed sufficient to produce high frequency waves, a low-pass filter fed by said alternator, said filter having a steeply sloping attenuation characteristic in the region of the frequency of said alternator when the characteristic of said system is normal, an electric space discharge tube for rectifying the current from said filter, and means responsive to the rectified alternating current for regulating said characteristic.

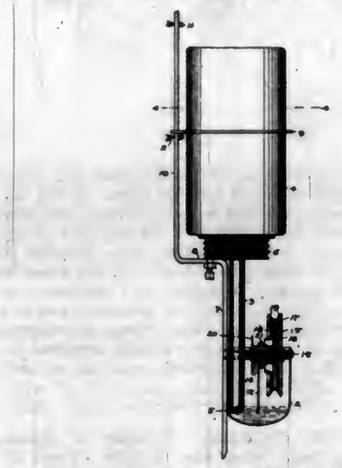
1,662,085. REGULATING SYSTEM. HUGH M. STOLLER, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1926. Serial No. 127,051. 16 Claims. (Cl. 171—119.)

1. In a regulator system, a dynamo electric machine having a regulating field winding for controlling an operating characteristic of the machine, means for automatically varying the excitation of said field winding to maintain said machine operating characteristic constant and comprising an electron discharge tube and an amplifier having an input circuit connected to said tube and an output circuit connected to said regulating field, means comprising a feed-back circuit for impressing a



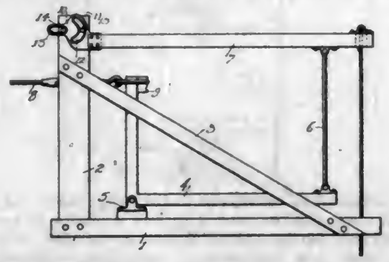
potential from the amplifier output circuit on said tube, and means for effecting a time lag in the feed-back from the amplifier output circuit to prevent hunting action.

1,662,086. OILING APPLIANCE FOR THREAD OR YARN. HERMAN F. STUHR, Cleveland, Ohio, assignor to The E. Konigslow Stamping & Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 26, 1925. Serial No. 4,779. 4 Claims. (Cl. 91—48.)



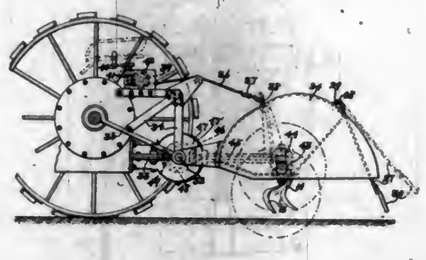
1. An oiling appliance for thread or yarn, comprising an oil receptacle, a wheel within said receptacle having a central body and a hub of absorbent material, an oil collecting ring suspended from said hub, and tension hooks for the thread or yarn mounted upon said receptacle.

1,662,087. PUMPING JACK. DANIEL H. THOMAS and EDWARD A. SCHAMBS, Wichita Falls, Tex. Filed Jan. 31, 1927. Serial No. 164,900. 5 Claims. (Cl. 74—5.)



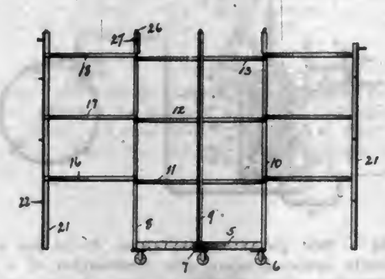
1. A device of the character described comprising in combination with a pumping jack, a plate having an arcuate opening at one end, and an elongated opening situated at right angles to said first opening; said plate being secured to the beam of said jack; and pins arranged stationary with respect to the mounting of said beam to operate in said openings to restrict and co-ordinate the vertical and lateral displacement of said beam.

1,662,088. TILLER. HANS VON RAUSSENDORFF, Chicago, Ill. Filed Oct. 25, 1926. Serial No. 143,826. 10 Claims. (Cl. 97—49.)



1. A tiller comprising a rotatable wreath including a ring having a plurality of tools with resilient curved shanks mounted on said ring and being arranged in succession and spaced so the shanks will engage and brace each other when a tool encounters a fixed obstacle.

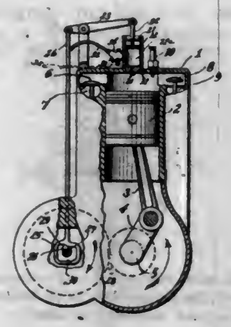
1,662,089. BAG CARRIER OR RECEPTACLE SUPPORT. ANTONIO VIVERITO, New York, N. Y. Filed Jan. 18, 1927. Serial No. 161,943. 2 Claims. (Cl. 280—50.)



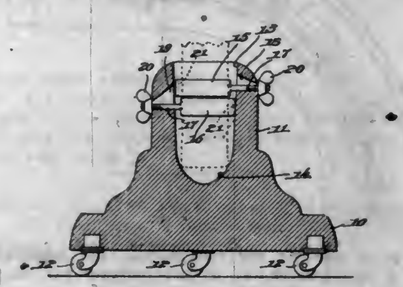
1. A carrier of the class described comprising a platform having floor rollers, a frame carried by the platform and consisting of a plurality of standards and segmental connecting hoops, a pair of swinging sections hingedly connected to opposed standards, said sections consisting of similarly located segmental hoops and vertical standards adapted to be interconnected completing an enclosure for a bag or receptacle.

1,662,090. INTERNAL-COMBUSTION ENGINE. HARRY G. VORHAUER, Long Beach, Calif. Filed Mar. 24, 1924. Serial No. 701,875. 2 Claims. (Cl. 123—33.)

1. In an internal combustion engine, the combination with a firing chamber and a piston mounted to reciprocate therein, of an auxiliary pumping chamber and piston, means for admitting a rich mixture to said pumping chamber, means for regulating the action of the pump piston so that said rich mixture is injected into said firing chamber during the compression stroke thereof, and a Venturi-shaped discharge orifice between the auxiliary pumping chamber and firing chamber, and means separate from the auxiliary pumping chamber and piston for pumping air and fuel into the firing chamber to form a lean mixture in the firing chamber.



1,662,091. HOLDER FOR TREES AND THE LIKE. JOSEPH GIACENTO VUOZZO, Corona, N. Y. Filed Dec. 2, 1926. Serial No. 152,243. 1 Claim. (Cl. 248—38.)

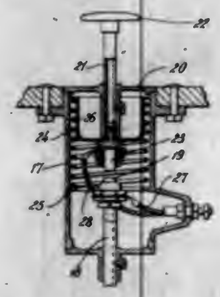


A tree holder of the class described comprising a weighted base having an upstanding portion bored to receive tree butts of various sizes, said bore terminating in a concaved surface to form a resting place for various sizes of tree butt ends; clamp bands arranged in said bore adjacent the mouth thereof one above another each having a stem forming part thereof, and extending through a slot in the wall of said upstanding portion diametrically opposite to one another, each stem being threaded to receive a thumb nut whereby said bands may be drawn towards a tree butt passing through them to thereby clamp a tree butt between them.

1,662,092. CONTROL OF GASOLINE ELECTRIC POWER SYSTEMS. OLIVER F. WARHUS, Albany, N. Y., assignor to Versare Corporation, a Corporation of New York. Filed Oct. 12, 1926. Serial No. 141,180. 4 Claims. (Cl. 74—81.)

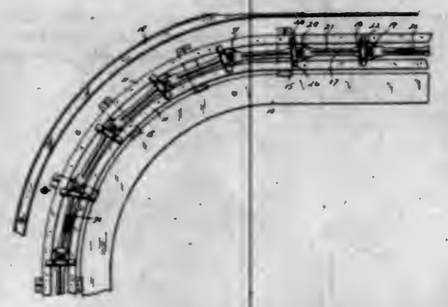
1. A controlling device for controlling an electric circuit and the throttle valve of an internal combustion engine comprising a movable member adapted to be connected with the throttle valve, a movable actuating device for said member having an initial movement inde-

pendent of said member before it operates the same, and an electric switch having contacts associated with said controlling device and adapted to be connected in said



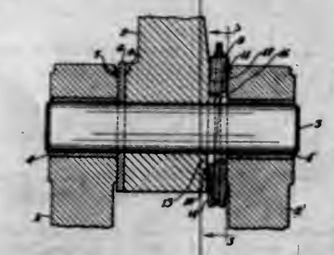
electric circuit, said contacts being arranged to be closed by operation of the actuating device before the actuating device operates said movable member.

1,662,093. CONVEYER-BAR CONSTRUCTION. HAROLD S. WELLS and HARVEY H. LIGHTLE, Detroit, Mich., assignors to Dodge Brothers, Inc., Detroit, Mich., a Corporation of Maryland. Filed Feb. 1, 1926. Serial No. 85,338. 17 Claims. (Cl. 104—172.)



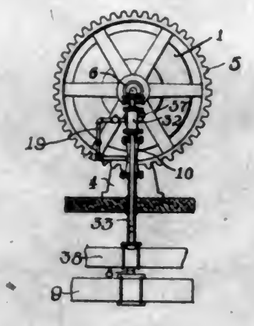
2. In a conveyer bar construction, the combination with a curved track-way of two conveyer bar sections having lateral pivotal connection, and means carried thereby and embracing said track-way for preventing relative lateral or vertical displacement of said conveyer bar.

1,662,094. ADJUSTABLE BEARING. EDWARD J. WESP, Canton, Ohio, assignor to The Canton Foundry & Machine Company, Canton, Ohio, a Corporation of Ohio. Filed May 22, 1926. Serial No. 110,858. 5 Claims. (Cl. 308—163.)



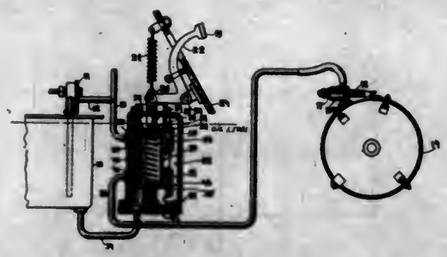
1. An adjustable bearing including a pair of washers, each washer having opposite faces inclined to each other, one of the faces of one of the washers abutting one of the faces of the other washer, and adjustable means maintaining the washers in abutment with each other, and the adjustable means including a U bolt engirdling peripheral portions of one of the washers, and means adjustably securing the ends of the U bolt on the other washer.

1,662,095. DOUBLE-WALL VENTURI STEAM FITTING. JOHN O. WOODSOME, Newton, Mass. Filed Jan. 9, 1926. Serial No. 80,230. 4 Claims. (Cl. 34—4.)



1. A steam circulating system for driers, comprising a steam inlet pipe into a drier, a Venturi type of fitting connected in said pipe, an exhaust pipe from said drier, a Venturi type of fitting in said exhaust pipe and a connection between the constricted portions of said fittings.

1,662,096. FLUID-PRESSURE-OPERATED VEHICLE BRAKE. VICTOR I. ZELOV, Rosemont, Pa. Filed Feb. 17, 1926. Serial No. 88,722. 13 Claims. (Cl. 188—152.)

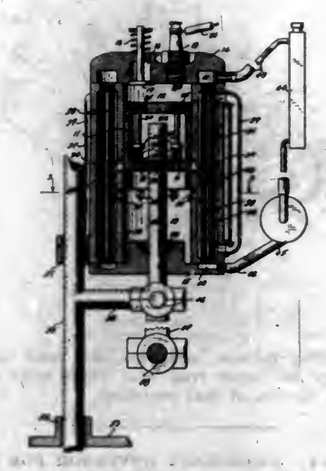


9. In a fluid pressure transformer device for a hydraulically operated brake, the combination of a pair of cooperating valve members substantially immersed in fluid and normally effective upon movement relative to each other in one direction to deliver a pressure from the transformer device determined by the range of movment of the valve members, operating means for one of the valve members, a piston member carried by the other valve member and having fluid on one side thereof in the transformer device, and means carried by the first valve member adapted upon overtravel relative to the second valve member to engage the piston member and move it in a direction for developing pressure upon the exertion of force upon the operating means.

1,662,097. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. ALFRED O. ANDERSEN, Bridgeport, Conn. Filed Dec. 5, 1923. Serial No. 678,600. 12 Claims. (Cl. 60—82.)

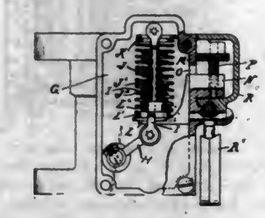
5. In an internal combustion engine, a cylinder, a piston in said cylinder forming a combustion chamber

and a pump chamber respectively on opposite sides of the piston, means for conducting fuel to the combustion chamber, means for conducting exhaust gases from the pump chamber, a gas chamber in the walls of the cylinder forming a cooling means for said walls by transfer of heat from said walls to the gases in said chamber, said cylinder being provided with openings leading to



said gas chamber from the combustion and pump chambers, and arranged to be respectively exposed by said piston alternately at the extremes of its stroke, a partition in the gas chamber between the openings leading from the combustion and pump chambers, gas conducting means communicating with the gas chamber adjacent the opposite ends thereof, and pipes for cooling fluid extending through the gas chamber.

1,662,098. GOVERNOR. JAMES W. ANDERSON, Detroit, Mich., assignor to Monarch Governor Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 26, 1921. Serial No. 455,765. 2 Claims. (Cl. 137—152.)



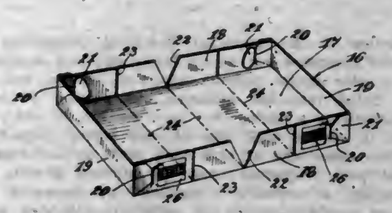
1. In a governor for internal combustion engines, the combination with a casing forming a portion of the engine intake, of a throttle valve in said casing having an eccentric axis to form an unbalanced construction, a stream lined member within said casing operatively connected to said throttle and actuated by the fluid current passing through said casing to close said valve, a plurality of springs forming a counteracting force upon said valve, and means for limiting the action of said springs to produce a characteristic substantially corresponding to the forces tending to close the throttle under constant speed conditions.

1,662,099. LOCKING DEVICE FOR MOTOR VEHICLES. OLAF A. ANDERSON, Hamilton, Ohio. Filed Mar. 9, 1925. Serial No. 14,180. 11 Claims. (Cl. 70—127.)



5. In motor vehicles, the combination with a control lever, and the motor ignition circuit, of a hollow knob on said lever, a switch in said circuit mounted in said knob, and lock-controlled means on said lever for actuating said switch.

1,662,100. PACKING CASE. CARL K. BLUM, Brooklyn, N. Y. Filed Mar. 9, 1927. Serial No. 173,834. 7 Claims. (Cl. 229—8.)

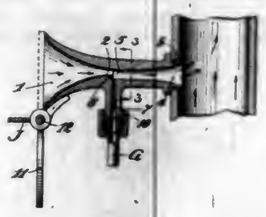


1. A packing case comprising a body having side walls and a cover for said body, the side walls of the said body being provided with slits and notches to permit of folding of the body to provide an object other than a packing case.

1,662,101. LIQUID-FUEL FEED. ENEA BOSSI, New York, N. Y., assignor, by mesne assignments, to Stewart Warner Speedometer Corporation, a Corporation of Virginia. Filed July 12, 1921. Serial No. 484,280. 4 Claims. (Cl. 158—36.)

1. An article of manufacture comprising an aspirator adapted to be connected to the manifold of a hydrocarbon engine and for producing a partial vacuum in a

vacuum fuel feed system, said aspirator comprising a body portion provided with a funnel shaped bore at the outer end and terminating in a relatively small opening at the throat of the device, a shoulder adjacent the end



of said opening and a larger bore at the inner end of said body portion, the wall opposite to the said shoulder being a smooth wall, with a transverse passage entering said body portion adjacent said shoulder.

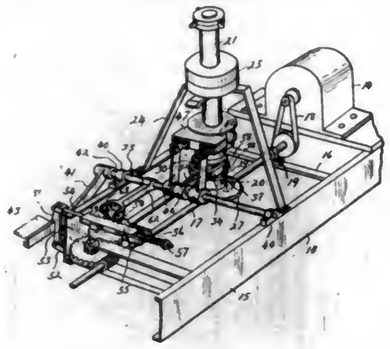
1,662,102. CANE. IRVING CAESAR, New York, N. Y. Filed July 22, 1926. Serial No. 124,226. 1 Claim. (Cl. 67—6.1.)



A device of the character described comprising a cane staff hollowed out at its lower end and provided with exterior screw threads adjacent its tip end, a lighter fitted into the hollowed out portion of said staff comprising a casing the lower portion of which is reduced in size, a wick tube on said casing projecting below the lower end of said cane staff, a horizontally disposed post projecting from the reduced portion of said casing, a vertically extending tube mounted on said post provided at its end adjacent said wick tube with lugs, a friction disk rotatably mounted on said lugs, said friction disk projecting below the free end of said wick tube, a sparking element in said tube in engagement with said friction disk, and a cap having interior threads adapted to mesh with the threads of said cane staff, said cap forming the tip of the cane and serving also to enclose said wick tube and friction disk.

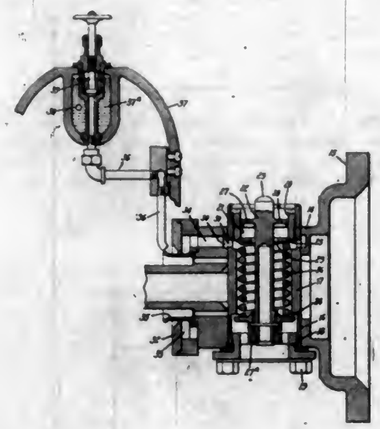
1,662,103. APPARATUS FOR TINNING MILK CANS. CHARLES A. COMP, Detroit, Mich., assignor to Buhl Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 20, 1925. Serial No. 24,707. 9 Claims. (Cl. 192—144.)

3. In a machine of the class described, the combination with a centrifuge and a driving shaft therefor, of a clutch between said centrifuge and driving shaft, a catch for maintaining said clutch engaged, a pinion rotatable in timed relation to said centrifuge, a longitudinally slidable rack engaging said pinion and a resil-



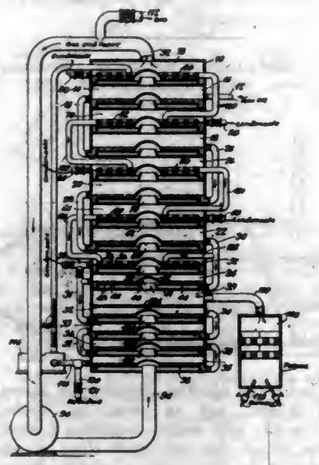
ient connection between said rack and catch adapted to disengage the latter from said clutch after a predetermined rotation of said centrifuge.

1,662,104. EMERGENCY GOVERNOR FOR ELASTIC-FLUID TURBINES AND THE LIKE. EDGAR D. DICKINSON, Beverly, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 28, 1926. Serial No. 118,901. 3 Claims. (Cl. 264—17.)



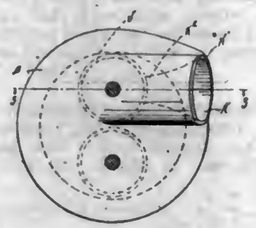
3. In an emergency mechanism, the combination of a shaft, means providing an opening extending transversely of the shaft, a plunger in the opening, said plunger having its center of mass to one side of the center of rotation of the shaft, a governor spring which normally holds said plunger stationary, a flange carried by the plunger which defines with the adjacent wall of the opening a pocket surrounding the plunger, means whereby a liquid may be supplied to said pocket, and means for permitting the escape of liquid from said pocket.

1,662,105. PROCESS AND APPARATUS FOR DISTILLING OIL. HENRY L. DOHERTY, New York, N. Y., assignor, by mesne assignments, to Heat Treating Company, New York, N. Y., a Corporation of Delaware. Filed July 7, 1920. Serial No. 394,490. 15 Claims. (Cl. 196—73.)



11. A process of distilling oil comprising passing oil as a series of connected bodies downwardly through a still, progressively heating the oil to evaporate a series of fractions thereof, the boiling points of the fractions being progressively higher as the oil flows downwardly and removing the fractions as vapors into condensed bodies of oil cooled independently of the oil being evaporated.

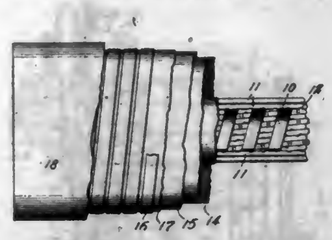
1,662,106. INTERNAL-COMBUSTION ENGINE. HERMANN I. A. DORNER, Hanover, Germany. Filed Feb. 15, 1926. Serial No. 88,409. 6 Claims. (Cl. 123—32.)



1. In an internal combustion engine of the Diesel type, the combination of a cylinder having a valve controlled inlet port in the head thereof and a single main inlet passage through said head communicating with said port and arranged to direct the incoming charge tangentially of the cylinder and oblique to the axis thereof.

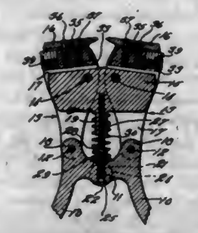
1,662,107. HIGH-TENSION ELECTRIC CABLE. LUIGI EMANUELI, Milan, Italy, assignor to Societa Italiana Pirelli, Milan, Italy, a Corporation of Italy. Filed Sept. 1, 1925. Serial No. 53,928. 8 Claims. (Cl. 173—266.)

1. In a high tension electric cable, the combination of a metallic core through which oil flows, said core forming a helix, current conductors stranded on and supported by the helix, means for forming channels between certain of the conductors so as to permit oil



from within the core to flow outwardly, dielectric material which surrounds the conductors and is impregnated with the oil, and an enclosing metal sheath.

1,662,108. PLIERS. CHARLES P. FAY, Springfield, Mass. Filed Apr. 5, 1926. Serial No. 99,852. 6 Claims. (Cl. 81—199.)



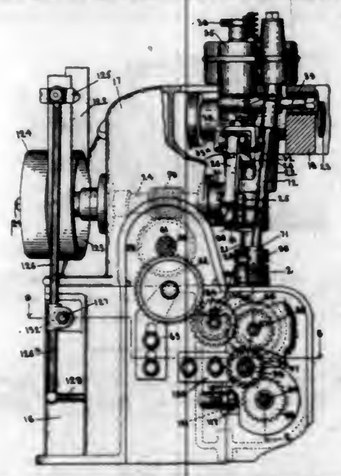
1. In a tool of the class described, a pair of operating levers pivotally connected to turn upon a common fulcrum, a pivot pin forming said fulcrum, a pair of spaced plates pivotally connected to each operating lever and disposed on opposite sides of the same, a fulcrum bar disposed between said pairs of plates and extending across from the plates of one pair to those of the other with its side faces contiguous with the inner faces of said plates, each pair of plates being separately pivoted to said bar at laterally spaced points intermediate the ends of the plates, slidably engaged stabilizing members disposed in the space between said pairs of plates and between said bar and pivot and fixed one to said bar and one to said pivot, and a jaw carried by each pair of plates.

1,662,109. HIGH-SPEED-GEAR-GENERATING MACHINE. EDWIN R. FELLOWS, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a Corporation of Vermont. Filed June 7, 1923. Serial No. 643,884. 44 Claims. (Cl. 90—9.)

1. A gear generating machine comprising a rotatable and endwise movable cutter spindle having a gear-shaped planing cutter on one end and carrying an encircling series of rack teeth in planes perpendicular to its axis, means for rotating said spindle, an oscillative gear segment conjugate to said rack teeth in mesh therewith and mounted to oscillate in the same plane with the spindle, and automatic mechanism arranged and operated to oscillate said segment at high speed.

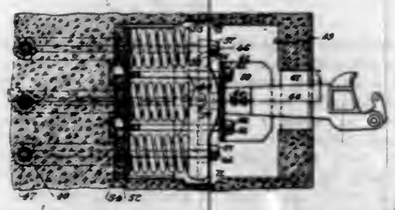
20. In a gear generating machine, the combination of cutter and work holders, spindles for the cutter and work piece mounted in the respective holders, one of said holders being movable to effect a relative movement of approach and recession between the work and the cutter, a shaft arranged in the line of travel of the holder which is so movable, gearing between said shaft and the spindle mounted in the latter holder through which rota-

tion of said shaft imparts rotation to said spindle, a bar adjustable in length connected to the last named holder and arranged in parallel with said shaft, and a cam



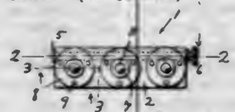
rotatably mounted on said shaft and driven therefrom at a different speed, and means operatively connected with said bar for giving movement to the last named holder.

1,662,110. DRAFT RIGGING FOR CONCRETE RAILWAY CARS. ARTHUR C. GRIEWANK, Oakland, Calif. Original application filed Oct. 31, 1918, Serial No. 260,434. Divided and this application filed Aug. 9, 1919. Serial No. 316,483. 11 Claims. (Cl. 213—49.)



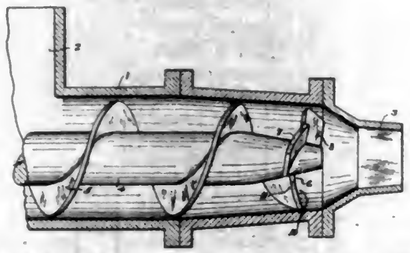
1. In combination with a railway car body, a longitudinally extending device the inner ends of which are secured to said body, an outer member slidable upon said device and limited in its outward movement thereby, coiled springs pressing said outer member outwardly, an inner member pressed inwardly by said springs, shock absorbing material between said inner member and the car body, a coupler, and devices for connecting the coupler with the inner member.

1,662,111. ANTISLIPPING DEVICE. RICHARD R. HALSTEAD, Beach, N. Dak. Filed Apr. 4, 1927. Serial No. 180,905. 1 Claim. (Cl. 36—61.)



An anti-slipping device comprising a casing adapted to be embedded in a shoe heel, a rotatable shaft extending through the casing, a series of internally threaded housings adapted to be embedded in a shoe heel, an attaching flange formed on the upper portion of each housing for attachment to the bottom of the casing, an externally threaded calk arranged within each internally threaded housing, the lower end of each calk being pointed for engagement with the ground, a rectangular shank formed on the upper end of each calk and extending into the casing, a plurality of sleeves arranged in the casing directly above the respective housings, the bore of each sleeve being rectangular for receiving the rectangular shank of the respective calk, the shank being slidable in the sleeve, a worm wheel formed on the upper portion of each sleeve, said shaft being formed with a series of worms for cooperation with the respective worm wheels whereby the calks may be raised or lowered when the shaft is actuated.

1,662,112. EXTRUSION MACHINE. WILLIAM H. HARTMAN, Canton, Ohio. Filed Jan. 26, 1927. Serial No. 163,671. 9 Claims. (Cl. 25—14.)



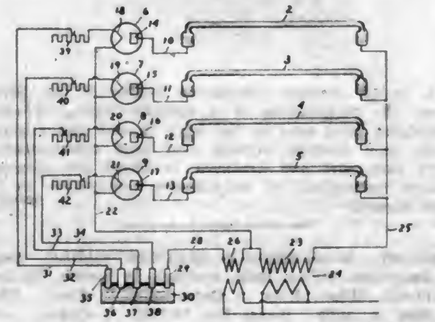
1. An extrusion machine including a casing, a die at one end thereof, and an auger for forcing material through the die, said auger comprising a shaft having a continuous spiral thereon terminating at the forward end portion of the shaft, and a spirally disposed balancing blade upon the shaft in advance of the end of the spiral.

1,662,113. CANAL AND THE FILLING AND EMPTYING OF THE LOCKS THEREOF. FRANCIS M. HENRY, Minneapolis, Minn. Filed Mar. 18, 1926. Serial No. 95,610. 19 Claims. (Cl. 61—8.)



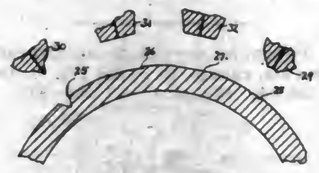
1. The combination with upper and lower locks, of a canal section between said locks, and gate-controlled water-conveying means for filling and emptying the locks without disturbing the water in the canal section.

1,662,114. FLASHING AND REGULATING APPARATUS FOR DISCHARGE-TUBE DISPLAY. FRED HOTCHNER, Los Angeles, Calif. Filed Mar. 9, 1927. Serial No. 174,063. 21 Claims. (Cl. 176—124.)



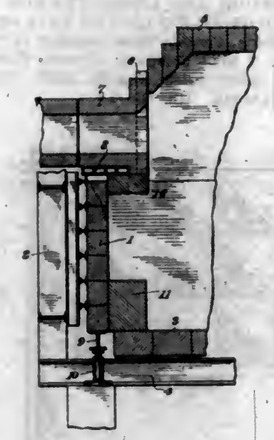
1. A discharge tube in series with a thermionic regulating tube.

1,662,115. METHOD OF SLOTTING METAL PLATES. EDWIN A. JOHNSON, Houston, Tex., assignor to J. H. McEvoy & Company, Houston, Tex., a Corporation of Texas. Filed July 6, 1926. Serial No. 120,759. 5 Claims. (Cl. 148—9.)



1. A process of slotting metal plate or pipe comprising cutting in said plate a groove shaped to receive the nozzle of a cutting torch, preheating the surface along said groove, placing the torch nozzle directly in contact with the grooved surface to be cut, and moving the nozzle along said groove.

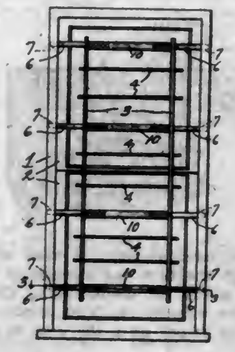
1,662,116. METHOD OF AND APPARATUS FOR PRODUCING MOLTEN GLASS. CHARLES B. KINGSLEY, Clairton, Pa., assignor to Mississippi Glass Company, a Corporation of New York. Filed Mar. 5, 1927. Serial No. 173,012. 2 Claims. (Cl. 49—54.)



1. The method of operating a glass melting apparatus comprising confining molten glass within tank walls, laying a new course of block under a wall section, and raising the new and old portions of said section to displace the top course of the old section in said side wall.

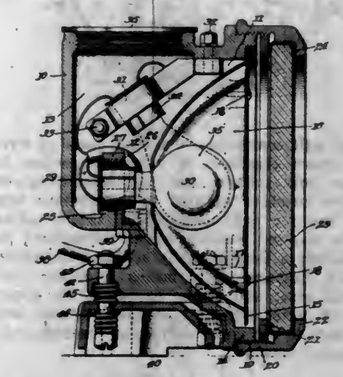
1,662,117. DOOR AND WINDOW GRATING. ALPHONS M. KUHL, Omaha, Nebr. Filed Feb. 28, 1925. Serial No. 12,283. 3 Claims. (Cl. 20—71.)

1. The combination with a window grating comprising spaced bars connected together by rods, of a locking device for locking said grating in a window opening, said device comprising a rotatable sleeve between the bars and engaging the bars, axially alined slidable bolts within the ends of the sleeve and slidably mounted in the bars, a member disposed within the sleeve and connected thereto centrally thereof, said member being provided with right and left hand threaded oppositely extending



shafts threaded into the inner ends of the bolts and set screws carried by the inner sides of the bars and cooperating with the bolts.

1,662,118. HEADLIGHT. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a Corporation of Ohio. Filed Jan. 3, 1924. Serial No. 684,190. 1 Claim. (Cl. 240—41.)

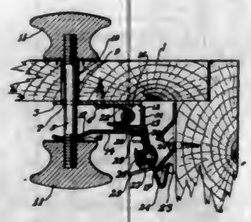


In a lamp, the combination of a casing having a reflector chamber at its front and a socket chamber in its rear, a socket support in the lower part of said socket chamber, a swiveling socket mounting therein, a removable clamping yoke co-operating with said support for securing said mounting in adjusted position, a socket carried by said mounting, and a removably mounted socket support in the upper part of said chamber angularly disposed relative to said first named support and having means permitting longitudinal socket adjustment, a socket carried by said removably mounted support, said sockets being alternatively adapted to support a bulb to project into said reflector chamber.

1,662,119. DOOR CATCH. MORGAN J. LEWIS, Massillon, Ohio. Filed June 3, 1926. Serial No. 113,475. 4 Claims. (Cl. 292—127.)

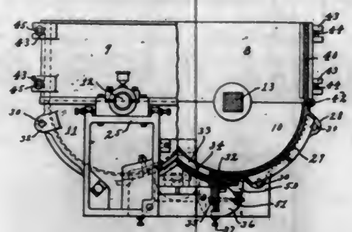
1. A door catch including an attaching plate for mounting upon a door and provided with a pair of angular ears, a latch member provided with a pair of

angular ears, a pivot pin connecting the ears of the plate and latch member, a striker, a spring between the plate and latch member for normally urging the latch member into engagement with the striker, a lever operatively asso-



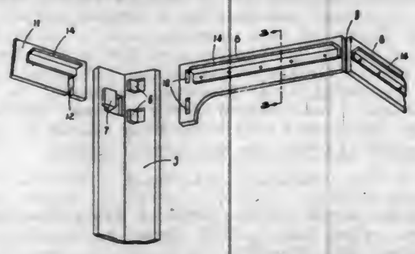
ciated with the latch member, a knob shank slidably mounted through the door and operatively connected to the lever and means for disconnecting the lever from the latch member whereby the latch member will remain engaged with the keeper when the lever is operated.

1,662,120. PUG MILL. MARTIN MADSEN, Monterey Park, Calif. Filed Apr. 20, 1927. Serial No. 185,222. 3 Claims. (Cl. 83—73.)



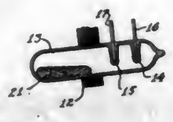
1. A pug mill comprising a mixing chamber having a sectional bottom composed of a central section having a discharge port therein, and two interchangeable reversible side members adapted to be reversed edge for edge and end for end; two paddle shafts, adjustably mounted in the end members of said chamber; paddles on said shafts; a longitudinally sliding gate adapted to control said discharge port; means to adjust the position of said gate; and means to adjust the upper surfaces of the lower edges of the side bottom members with reference to the upper surface of the adjacent edges of said central member.

1,662,121. KNOCKDOWN TABLE. ROBERT DOUGLAS MONCRIEFF, Kingston, Ontario, Canada. Filed Mar. 11, 1927, Serial No. 174,673, and in Canada Dec. 11, 1926. 3 Claims. (Cl. 45—48.)



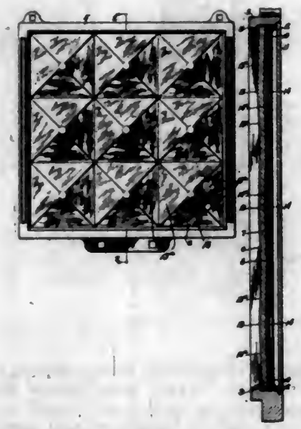
3. In a table of the knock-down type comprising angle-iron corner posts; said posts being provided with spaced inwardly directed tongues on one side and an inwardly directed tongue, the end of which is bent outwardly at an angle, on the other side; side members having openings fitted over said spaced tongues; cross end members having a slot near each end fitted over said tongues; and the ends of said cross end members abutting the ends of said side member to retain the same in fixed position; a top for said table and a means of supporting said top from said side members and end members.

1,662,122. PRESSURE-ACTUATED CIRCUIT CONTROL. IRA E. MCCABE, Chicago, Ill. Filed Feb. 11, 1922. Serial No. 535,755. 13 Claims. (Cl. 200—81.)



1. A pressure actuated circuit control comprising a pressure responsive instrumentality; a carrier for a liquid contact circuit opening and closing device; a fulcrum associated and movable with said pressure responsive instrumentality on which said carrier is mounted for oscillating movement; a liquid contact circuit opening and closing device operatively associable with the carrier; and means co-acting with the pressure responsive instrumentality to oscillate the carrier; said mechanism including a yoke member connected at one point to the pressure responsive instrumentality and at another point to the carrier.

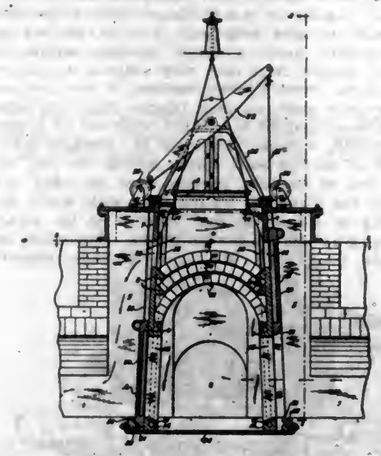
1,662,123. METHOD AND APPARATUS FOR DIFFUSING AND COLORING REFLECTED RAYS OF LIGHT. PARKE G. MYERS, Canton, Ohio, assignor to The Automatic Signal & Sign Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 1, 1923. Serial No. 655,100. 19 Claims. (Cl. 88—1.)



4. The method of coloring and diffusing rays of reflected light which consists in passing the same through a coloring medium associated with a transparent medium having its faces composed of a plurality of inclined faces, to and from a reflecting medium having a face composed of a multiplicity of inclined facets.

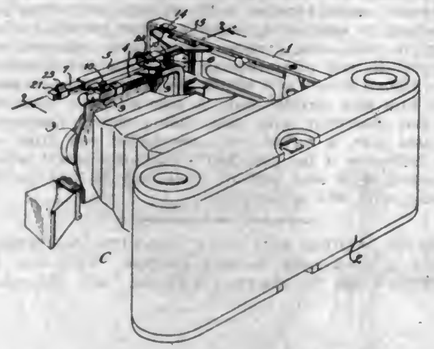
16. A reflector for rays of light including a transparent medium, a coloring medium associated with the transparent medium, each of said mediums being pressed to form a plurality of contiguous, shallow forms, and a reflecting medium back of the transparent and coloring medium.

1,662,124. FURNACE VALVE. RALPH D. NYE, Columbus, Ohio. Filed Dec. 2, 1926. Serial No. 152,185. 6 Claims. (Cl. 263—15.)



1. A valve mechanism for furnaces including an upright water-cooled valve seat, a gate valve slidably mounted against said seat, a bar spaced from the lower end of the seat and having a beveled inner face, and the lower end of the gate valve being beveled at a less angle than the bar, whereby the upper portion of the valve is tilted against the seat when in lowered position.

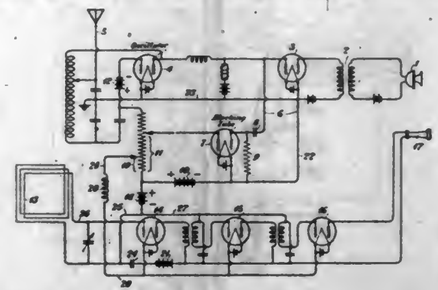
1,662,125. CAMERA FOCUSING DEVICE. PAUL C. OSCANYAN, Bogota, N. J. Filed June 9, 1926. Serial No. 114,709. 17 Claims. (Cl. 95—44.)



1. Focusing mechanism applicable to a camera and comprising relatively movable sights on a common axis, and means for varying the sight positions in accordance with movement of a camera part in focusing so that proper focus is established by coincidence of convergent direct sight lines from the eyes of an operator through the sights upon the object, the sight axis being located between the object and the observer and parallel to the plane of the observer's eyes and relatively near the latter.

1,662,126. DUPLEX RADIO SIGNALING SET. RALPH K. POTTER, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 31, 1925. Serial No. 66,084. 1 Claim. (Cl. 179—15.)

A carrier signaling set comprising transmitting apparatus including a high frequency oscillator circuit, a low frequency signaling circuit associated therewith whereby the high frequency oscillations may be modulated by the low frequency signals, a vacuum tube circuit having its grid circuit connected to said low frequency signaling circuit whereby the potential of said grid will be determined by the low frequency signaling currents, means controlled by said grid potential for con-



trolling the current flow in the plate circuit of said tube, a resistance included in the plate circuit of said tube, the potential drop across said resistance being controlled by the current flow in said plate circuit, and means controlled by said potential drop across said resistance for controlling said oscillator circuit.

1,662,127. DEEP-WELL PUMP. BERNIE G. PRIMROSE, Plemons, Tex. Filed Sept. 2, 1926. Serial No. 133,226. 9 Claims. (Cl. 103—225.)

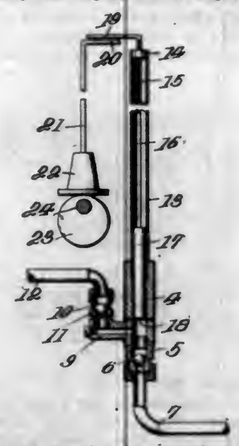


1. In a deep well pump, a reciprocating member including connected pistons, each of said pistons including spaced metallic sections, one of which is provided with a flat reciprocating valve and a cylindrical rubber between said sections.

1,662,128. FUEL-FEEDING MEANS FOR CHARGE-FORMING DEVICES. ALBERT G. REDMOND, Indianapolis, Ind., assignor to Jacob Richard Francis, Flint, Mich. Filed Jan. 3, 1923. Serial No. 610,469. 1 Claim. (Cl. 158—36.4.)

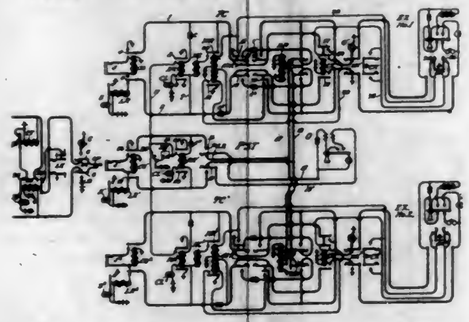
The combination with a motor vehicle having an internal combustion engine provided with a charge forming device and a fuel tank for supplying fuel to said charge forming device, of a vertically disposed displacement pump in communication with said tank and said charge forming device, said pump having a weighted piston provided with a non-rotatable piston rod having

a lateral extension, a lift rod having an extension arranged under the extension of said piston rod and means driven by the engine for raising said lift rod in-



termittently to allow said piston to drop by gravity for forcing and maintaining the fluid in the pipe line leading to the charge forming device under pressure.

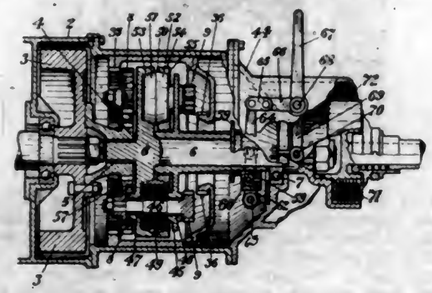
1,662,129. TELEPHONE SYSTEM. DANIEL B. ROBINSON, Cicero, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1924. Serial No. 713,879. 20 Claims. (Cl. 179—42.)



1. A telephone system including a trunk circuit terminating at one end in a jack terminal at a main exchange and at its other end in a subscriber's substation, an attendant's trunk circuit terminating in one end at said main exchange and at its other end in a telephone set, signal means for said attendant's trunk circuit for signalling the attendant at said attendant's trunk circuit, means in said first trunk circuit controlled from the main exchange for controlling said signalling means, means for said first trunk circuit controlled by the attendant for connecting said subscriber's substation in conversational circuit with the main exchange, automatic means controlled by said subscriber for disassociating said substation and said main exchange and for signalling for a disconnection at the main exchange, and means for said trunk circuit for permitting calls to be extended from the main exchange to said substation exclusive of the attendant.

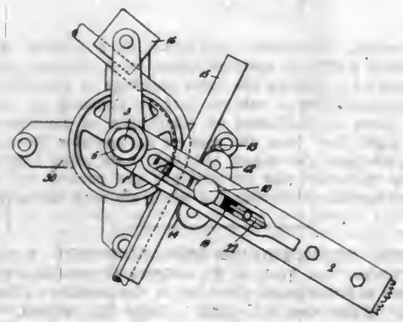
1,662,130. POWER TRANSMISSION GEARING. RALPH W. ROGERS, Franklin, Pa. Filed May 3, 1926. Serial No. 106,370. 6 Claims. (Cl. 74—34.)

1. In a power transmission unit, the combination of a gear member rotatably mounted and adapted to be driven or to drive, a plurality of mating gears comprising a set of planetary gears meshing with said gear member, each mating planetary gear rotatably mounted in a carrying body, said carrying body rotatably mounted co-axially with the said gear member and adapted to be connected to a driven or a driving member, in the said carrying body co-axial with each gear of the set of planetary mating gears a clutch friction surface, a plurality of friction rings each ring adapted to contact with one of the clutch friction surfaces of the carrying body, a pressure plate, on each friction ring additional friction surfaces adapted to contact with one of a plurality of friction surfaces formed in the pressure plate, a plurality of springs each spring having one end attached to one of the said friction rings its other end attached to the planetary mating gear with which the friction ring is co-axial so that rotation of the planetary mating gear relative to the friction ring winds up or unwinds the spring, the pressure plate slidably



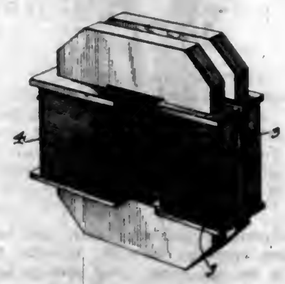
mounted on said carrying body, in said pressure plate a plurality of clutch friction surfaces adapted to contact with said additional friction surface of the said friction rings, a plurality of springs one end of each spring attached to or acting against the carrying body of the other end of each spring atached to or acting against the pressure plate thereby causing all friction surfaces to contact under pressure of the springs and setting up resistance to rotation of the spring rings relative to the carrying body and pressure plate, links attached at one end to said pressure plate the other end attached to a sliding sleeve, said sliding sleeve having a common axis with said carrying body, a yoke rotatably mounted on and concentric with said sliding sleeve, trunnions on said yoke, a forked lever, the forked end fitted to the trunnions of the yoke and a fulcrum for said lever, by which lever said pressure plate may be held out of contact with said spring rings.

1,662,131. TUBE AND LIKE BENDING MACHINE. LESLIE SCHONFIELD, London, England. Filed Jan. 5, 1927. Serial No. 159,193. 4 Claims. (Cl. 153—45.)



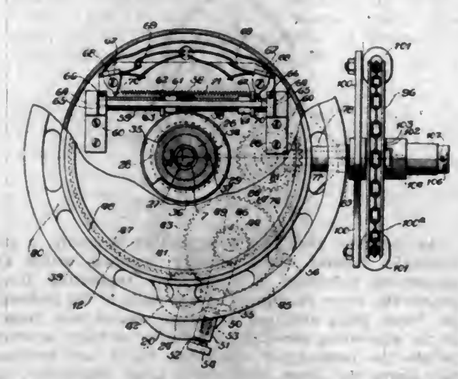
1. A tube or the like bending machine comprising in combination a support, a spindle mounted on said support, a bending lever mounted on said spindle, a curved former keyed to said spindle, a straight shield adapted to rest on the periphery of said former, a rocker pivotally mounted on said lever and a pair of rollers mounted in said rocker adapted to travel over the back of the straight shield to transmit the bending force therethrough to the tube or the like between said shield and former to bend the same around said former.

1,662,132. INDUCTANCE APPARATUS. BERT JOSEPH SIMMONS, Stillwater, Minn. Filed Nov. 16, 1925. Serial No. 69,535. 2 Claims. (Cl. 175—356.)



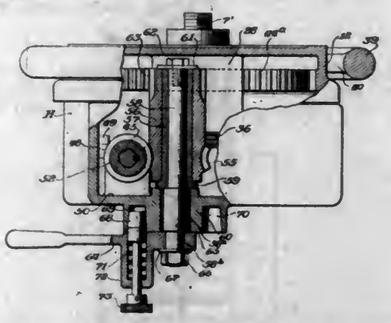
1. A potential transformer including separate core members, a coil embracing all of the core members, and separate coils mounted on the respective core members, one of said last named coils being provided for each core member, the windings of all of the coils being such that the actual ampere turns of the first mentioned coil will be one-half the combined ampere turns of the last mentioned coil.

1,662,133. VALVE-OPERATING MECHANISM. EMORY T. SMITH, Ludlow, Mass., assignor to The Chapman Valve Manufacturing Company, Indian Orchard, Mass., a Corporation of Massachusetts. Filed June 5, 1923. Serial No. 643,534. 5 Claims. (Cl. 74—7.)



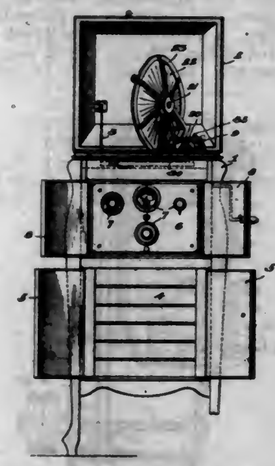
1. In a motion transmitting unit, in combination, an element to be moved, mechanism for effecting movement of said element, manually operable means for actuating said element, auxiliary manual operating means permanently carried upon as a part of said unit, means for disconnectibly connecting said auxiliary manual operating means to a source of power, gearing for increasing the leverage of said auxiliary manual operating means, and means for disconnectibly connecting said auxiliary manual operating means with said gearing for effecting movement of the element to be moved.

1,662,134. VALVE-OPERATING MECHANISM. EMORY T. SMITH, Ludlow, Mass., assignor to The Chapman Valve Manufacturing Company, Indian Orchard, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1924. Serial No. 704,738. 16 Claims. (Cl. 74—36.)



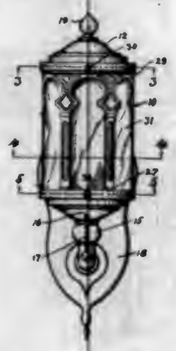
1. In a device of the character described, in combination, a casing, an element to be driven and including the movable part of said casing, a motor, driving gearing completely enclosed in said casing and including a worm connected to the motor, a worm gear and spur gear connected to the element to be driven, and means for displacing said worm gear and spur gear for disconnecting the motor from the movable part of said housing.

1,662,135. SOUND-REPRODUCING MEANS. GEORGE W. SMITH, Jr., Riverton, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Feb. 25, 1925. Serial No. 11,543. 3 Claims. (Cl. 179—100.1.)



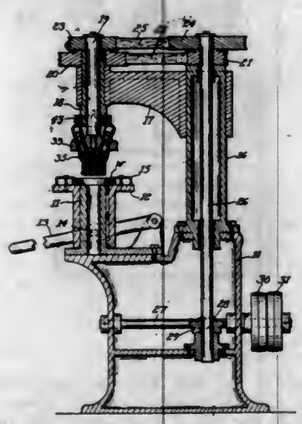
1. A device of the class described comprising, in combination, a talking machine cabinet having a motor board adjacent the top of said cabinet and talking machine mechanism therein, a hinged cover forming with the walls of said cabinet and said board a compartment above said motor board, reproducing mechanism of the hornless type in said compartment and including a large sized diaphragm adapted to be moved to an inoperative position in which it is housed within said compartment or to a playing position at an angle thereto when the cover is raised, radio receiving apparatus in said cabinet, and means carried by said motor board for employing said reproducing mechanism as the loud speaker of said radio apparatus.

1,662,136. LIGHTING FIXTURE. NORMAN F. STEVENS, Los Angeles, Calif. Filed Aug. 19, 1925. Serial No. 51,115. 3 Claims. (Cl. 240—11.)



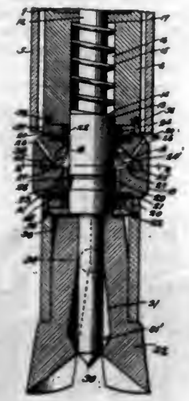
3. In an ornamental lighting fixture a support including a bracket adapted to engage a wall, said bracket having a post thereon, a bottom member engaging said post, and a top member spaced from said post, each of said members having a peripheral flange thereon, a body engaging said peripheral flange on said top and bottom members, abutments on said body engaging said flanges on said top and bottom members, fastening means for securing said body to said members, a separately formed light transmitting panel fitted within said body, said body having portions thereof removed to provide apertures enabling light to pass through said panel.

1,662,137. LAPPING MACHINE. KENNETH E. SUMMERS, Westboro, Mass., assignor to Bethel-Player Co., Westboro, Mass., a Copartnership consisting of Joseph N. Bethel and Sidney Player. Filed Mar. 4, 1924. Serial No. 696,870. 14 Claims. (Cl. 51—43.)



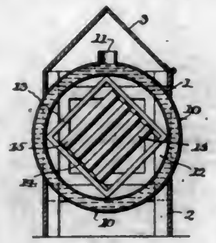
14. A machine for lapping internal conical surfaces comprising a lapping head, means to rotate said head, a plurality of lapping rolls, spindles for said rolls, bearings for said spindles in said head above and below said rolls and disposed in annular series about the axis of said head, said bearings and spindles being inclined with respect to the axis of said head, means to rotate said head, and means to reciprocate said spindles in said head, as said head is rotated.

1,662,138. UNDERREAMER. BENJAMIN FRANKLIN WALDRON, Duncan, Okla. Filed Apr. 28, 1925. Serial No. 26,494. 1 Claim. (Cl. 255—78.)



In an underreamer, a tubular body, said tubular body having lateral openings, laterally movable blocks supported within the openings, coiled springs for normally moving the blocks outwardly, pivoted fingers carried by the blocks, a vertically movable rod having a groove defining a shoulder, movable within the body, said fingers adapted to engage the shoulder to hold the rod in an elevated position, pivoted blades having enlargements at their ends, said rod adapted to engage the enlargements to lock the blades in their active positions, at the end of the tubular member, and said blocks adapted to move laterally to disengage the fingers and shoulder, and means for returning the rod to its initial position.

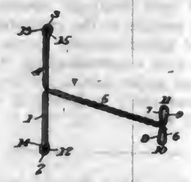
1,662,139. INCUBATOR. JIDY W. WHITLOW, Comanche, Okla. Filed June 27, 1925. Serial No. 40,035. 1 Claim. (Cl. 119—41.)



An incubator including a supporting structure, a substantially tubular water chamber mounted within the supporting structure, a rectangular supporting frame within the water chamber, the side walls of the rectangular frame being arranged at oblique angles with respect to the supporting structure, a plurality of trays arranged within the rectangular supporting frame and arranged one above the other, said trays being removably supported to permit the trays to be removed and reversed to change the position of the eggs and trays.

1,662,140. TOILET-PAPER HOLDER. WALTER L. WHITESIDES, Long Beach, Calif. Filed Feb. 8, 1926. Serial No. 86,818. 2 Claims. (Cl. 242—55.2.)

1. A toilet paper holder comprising a single piece of wire having an intermediate twisted portion forming a horizontal stem for rotatably supporting a roll of paper, one end of said stem having right angular extensions bent in opposite directions, forming loops of corresponding length adapted to be inserted through the opening in and to engage the edge of said paper roll, for retaining



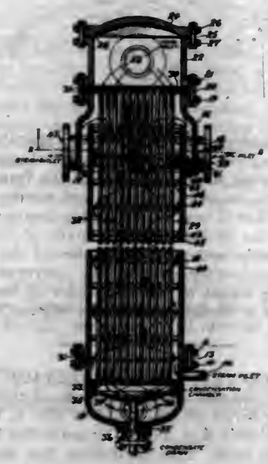
the same in position for use, and legs formed at the opposite ends of said stem for attachment to a wall, as described.

1,662,141. IMPULSE TRANSMITTER FOR AUTOMATIC TELEPHONE SYSTEMS. NEWTON BLADES and LEONARD VICTOR MARKS, London, England, assignors to The Sterling Telephone & Electric Company Limited, London, England, a Company of Great Britain and Ireland. Filed Mar. 1, 1927, Serial No. 171,894, and in Great Britain Mar. 15, 1926. 4 Claims. (Cl 179—90.)



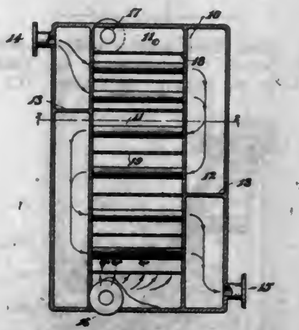
1. An impulse transmitter, comprising a driver, a finger plate adapted to engage and set said driver on forward movement and otherwise wholly independent of it, means for returning said finger plate independently of said driver, means for returning said driver, an impulse mechanism operated by said driver in its return, and means rendering said finger plate inoperative until the return of the impulse sender is complete.

1,662,142. EVAPORATOR AND METHOD OF OPERATION. CARL F. BRAUN, San Francisco, Calif. Filed Mar. 14, 1922. Serial No. 543,584. 1 Claim. (Cl. 196—128.)



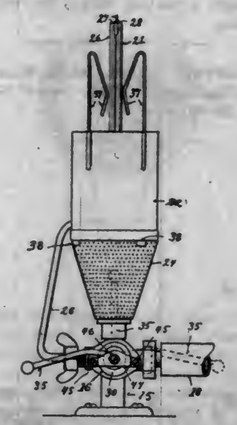
A method of distillation in a still consisting of an outer vertically disposed shell down through which a plurality of tubes extend, which consists in creating an upward flow of steam in the shell and around the tubes, simultaneously internally heating the walls of the tubes, by flowing hot oil downwardly therethrough to maintain a surface temperature on the walls of the tubes higher than that of the steam in the shell throughout their length and flowing thin films of oil on the outer surfaces of the tubes, to distill the same.

1,662,143. HEAT-EXCHANGE APPARATUS. CARL F. BRAUN, Pasadena, Calif. Filed Mar. 28, 1923. Serial No. 628,187. 2 Claims. (Cl. 257—230.)



1. Heat exchange apparatus, comprising a shell, a plurality of tubes arranged in parallel within the shell, bypass chambers at the opposite ends of the shell with which sets of the tubes communicate whereby a fluid may recurrently flow across the shell, through the tubes, and in alternate directions, means for admitting another fluid to the shell at one end and withdrawing it from the opposite end of the shell whereby the flow of fluid through the shell will be around the tubes and lengthwise of the shell, and means interposed between groups of tubes for alternately increasing and then abruptly decreasing the velocity flow of the finid as it passes through the shell and around the tubes.

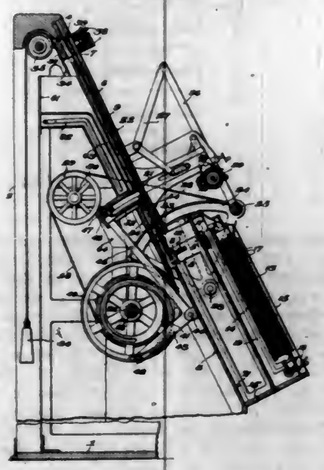
1,662,144. BOTTLE-WASHING APPARATUS. EDWARD BRUNHOFF, Cincinnati, Ohio, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 25, 1922. Serial No. 563,638. 3 Claims. (Cl. 15—95.)



1. A bottle washing apparatus comprising a valve casing provided with a base for mounting the same, a supply conduit communicating with said valve casing, a vertically disposed nozzle leading from said valve casing, a perforated container for abrasive material mounted upon

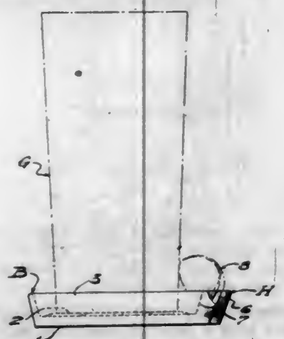
said valve casing and surrounding said nozzle, a tube aligned with said nozzle but spaced therefrom, adapted to deliver an abrasive charged current of fluid into a bottle, an imperforate splash shield mounted upon said abrasive container and surrounding said tube, means carried by said shield for retaining the bottle in inverted position about said tube, a rinsing conduit leading from said valve casing and terminating in a portion extending adjacent to and parallel with said tube for entry therewith within the bottle, and a multiway valve plug within the valve casing for selectively controlling the flow of water to said tube or said rinsing conduit.

1,662,145. PRINTING AND CASTING MECHANISM. FRED A. DOLPH, Washington, D. C. Filed June 27, 1924. Serial No. 722,779. 16 Claims. (Cl. 190—7.)



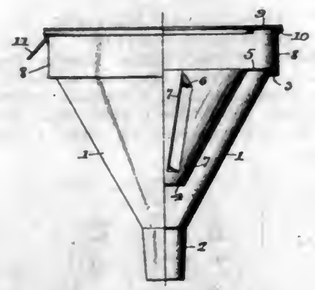
1. A device of the class described comprising a frame, a plurality of rectilinearly movable type bars mounted thereon, said bars being provided with printing and matrix characters, means for selectively limiting movement of said bars in one direction, a platen adapted to coact with said printing characters, means adapted to coact with said matrix characters for forming a linotype slug, and common actuating means for said platen and last-named means.

1,662,146. COASTER. GRANT CALVIN ELLIOTT, Wilmington, N. C. Filed Apr. 7, 1927. Serial No. 181,772. 1 Claim. (Cl. 65—61.)



A coaster consisting of a dish body bounded by a peripheral wall having a drainage opening directed toward the deepest point of the bottom of the body, said wall being provided at its exterior with an extension disposed transversely across said drainage opening, one end of the extension being provided with a bowl-shaped sump with which said drainage opening communicates and the other end portion of the extension being provided with a gullet, said gullet opening at one end at the end of the extension and communicating at its other end with the sump, said gullet having its longitudinal dimension disposed substantially tangentially with relation to the surface of the wall.

1,662,147. FUNNEL. NELS FARDEN, Battle Lake, Minn. Filed Feb. 26, 1926. Serial No. 90,788. Renewed Aug. 1, 1927. 1 Claim. (Cl. 226—29.)



A funnel comprising the usual frusto-conical body terminating in a relatively small substantially cylindrical spout, and a second frustoconical portion of lesser diameter having its walls substantially parallel with the said body and having a flat rim at its top, said second portion provided with a plurality of passages therethrough each having at one margin an inwardly extending flange.

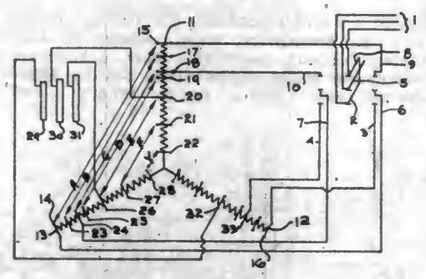
1,662,148. TRANSPORTATION TRUCK. ALVIN J. GARD, Beaver Crossing, Nebr. Filed Oct. 8, 1926. Serial No. 140,326. 3 Claims. (Cl. 198—233.)



1. In combination with a conveyor apparatus, a truck for transporting the same comprising an elongated frame, an axle connected with the center of the frame, a wheel at each end of the axle, said axle and wheels supporting the frame so that it can tilt, depending means at the rear of the truck for attachment to a part of the conveyor apparatus, means adjacent the center of the truck for attachment to another part of the conveyor apparatus and depending means at the front part of the truck for attachment to a further part of the apparatus.

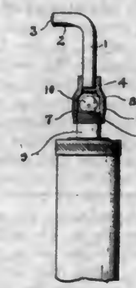
1,662,149. ELECTRIC-FURNACE VOLTAGE CONTROL. ALBERT E. GREENE, Medina, Wash. Continuation of applications Serial No. 207,966, filed Jan. 3, 1913; Serial No. 157,931, filed Mar. 28, 1917; and Serial No. 322,298, filed Sept. 8, 1919. This application filed May 23, 1923. Serial No. 640,932. 16 Claims. (Cl. 266—1.5.)

1. In combination with the electrodes of an electric furnace a transformer system comprising a plurality of secondary windings connected together in series relation, a conductor for carrying the current from said secondary windings to an electrode, and means for regulating the relative value and direction of induced voltage in the



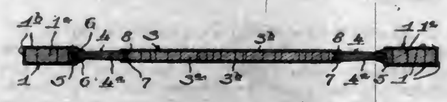
separate secondary windings for controlling the voltage between the outer ends of the two windings when connected in series.

1,662,150. FUSED-QUARTZ TRANSILLUMINATOR. CHARLES H. KERR, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 5, 1926. Serial No. 99,817. 3 Claims. (Cl. 128—23.)



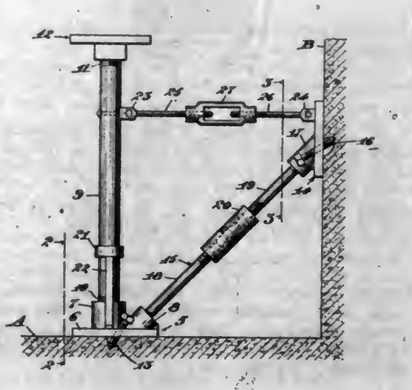
1. In a device of the character described, a handle having a screw threaded terminal portion, a lamp in the terminal portion, an annular cap having an internal screw threaded portion to fit the terminal portion of the handle, a lamp cavity beyond the screw threaded portions, a lens seat beyond the lamp cavity and an opening for a long rod like lens beyond the lens seat, a heat absorbing lens in the lens seat and a transparent long rod like lens in the opening in the annular cap and extending therebeyond.

1,662,151. WOOD-DOOR CONSTRUCTION. EMIL C. LOETSCHER, Dubuque, Iowa. Filed Nov. 18, 1926. Serial No. 149,021. 6 Claims. (Cl. 20—35.)



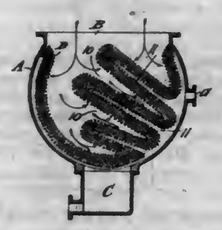
1. A wood door comprising an outer frame, an inner panel frame within said outer frame consisting of panel frame members mitered together at their ends, a central panel surrounded by said panel frame and consisting of a core of substantially the same thickness as the inner edge portions of said panel frame members and outer layers of veneer projecting beyond the edges of said core, and lying flush along the inner marginal portions of said panel frame.

1,662,152. TOOL SUPPORT. WENDELL LOGG, Los Angeles, Calif. Filed Mar. 5, 1927. Serial No. 173,107. 3 Claims. (Cl. 81—41.)



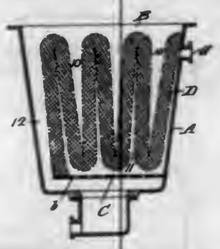
1. A structure comprising a floor member and a wall member and means for exerting a variable pressure between said members, a column arising from said floor member and a work support on said column, and a brace extending between said column and wall member.

1,662,153. CONDENSER. CHARLES B. LUCKE, New York, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 3, 1925. Serial No. 47,675. 7 Claims. (Cl. 257—43.)



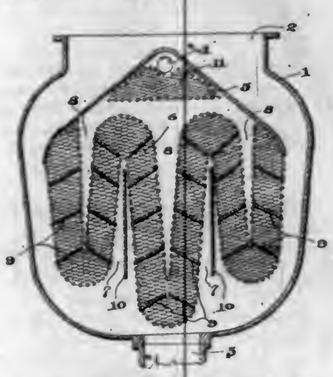
1. In a steam condenser, a tube bank consisting of a shallow belt of tubes forming the steam condensing surface between the exhaust inlet and air outlet and of substantially uniform flow resistance throughout the length of the belt, said belt being arranged in folds providing steam spaces on the inlet sides of the folds and air spaces on the exit sides of the folds, said belt having its ends joining the casing on the same side of the hot-well and separated from the casing on the opposite side of the hot-well to leave a space for the passage of exhaust steam from the exhaust inlet to the hot-well between the tube casing and the tube bank.

1,662,154. CONDENSING APPARATUS. CHARLES E. LUCKE, New York, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 5, 1925. Serial No. 48,239. 9 Claims. (Cl. 257—43.)



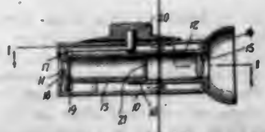
1. In a steam condenser, a tube bank consisting of a shallow belt of tubes extending between the exhaust inlet and air outlet, and a condensate spray plate extending over the lower part of the condenser, said tube belt being arranged to provide space for the passage of exhaust steam to the lower side of the spray plate.

1,662,155. CONDENSER. CHARLES E. LUCKE, New York, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Feb. 8, 1927. Serial No. 166,780. 10 Claims. (Cl. 257—43.)



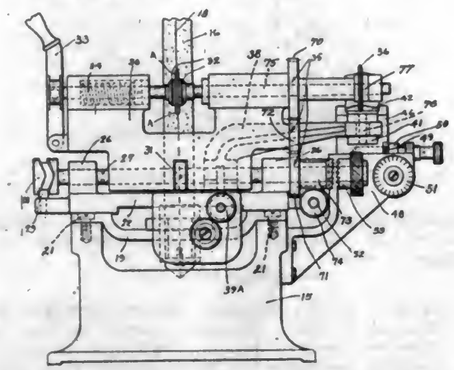
1. In a surface condenser having tubes arranged in a belt to form vertically extending sections, a plurality of horizontally inclined condensate guide plates across said tube belt for receiving the condensate from the section of tubes immediately above and discharging said condensate into the steam entering the tube belt.

1,662,156. EXPOSURE METER. EMIL MAYER, Vienna, Austria, assignor to Drem Products Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 25, 1927. Serial No. 186,333. 2 Claims. (Cl. 88—23.)



1. An exposure meter comprising a casing having an opening adapted to admit light, a tube having an open end adjacent the said opening, the said tube having associated therewith a field, and a movable slitted member located intermediate the said opening and the open end of the said tube, the said movable slitted member having a plurality of slits of varying light permeability, the respective slits being of varying width, the broad ends and the narrow ends of successive slits being adjacent each other.

1,662,157. LENS-GRINDING MACHINE. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Feb. 14, 1925. Serial No. 9,193. 1 Claim. (Cl. 51—101.)



In a device of the character described, a base, a rotatable grinding wheel mounted on the base and having a double bevelled edge with the apex of the bevel forming the periphery of the grinding wheel, a support pivoted on the base to swing transversely to the plane of the grinding wheel in the plane of the axis of said wheel and about an axis tangent to the peripheral apex, a lens holding spindle rotatably mounted on said support to swing in the plane of the grinding wheel toward and away therefrom, means for oscillating the lens holding spindle longitudinally, a lens former shape on the lens holding spindle and rotatable and movable longitudinally therewith, a slidable contact shoe having a contact face corresponding with the face of the grinding wheel and guided on the base to maintain its parallel relation to the grinding wheel, means on the swinging support engaging the shoe to slide the same as the support is swung on its pivot to follow the former and means to adjust the shoe to compensate for the change in relationship of the former and shoe due to the swinging of the support.

1,662,158. FERROUS ALLOY. CHARLES MEIER, Valparaiso, Ind. Filed June 20, 1925. Serial No. 38,438. 3 Claims. (Cl. 75—45.)

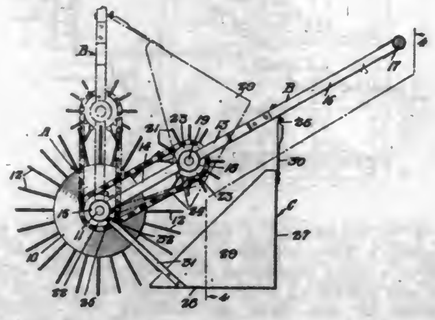
1. A ferrous alloy adaptable for use in its melted state in permanent steel molds, comprising 2 to 4% carbon, 2.5% silicon, 60% chromium 1 to 3%, titanium 1 to 3%, aluminum .5 to 1%, manganese .5 to 3%, and phosphorus .25 to 1%.

1,662,159. VEHICLE STAY BLOCK. CHARLES L. MICHOD, Chicago, Ill., assignor to E. S. Evans & Co., Inc., Detroit, Mich., a Corporation of Delaware. Filed Apr. 18, 1925. Serial No. 24,019. 1 Claim. (Cl. 188—32.)



In a device of the class described, a triangular shaped member comprising a wheel engaging leg of arcuate contour and transversely concaved cross section, a strut integrally formed with said leg and extending from the apex to a support along a line passing substantially through the axis of a wheel engaged by said leg, and a removable reinforcing member in the space between said leg, support and strut said leg and strut having downwardly extending, outwardly flaring flanges on their lateral edges.

1,662,160. LEAF COLLECTOR. CLIFFORD C. MYRICK, Tucson, Ariz. Filed Jan. 31, 1927. Serial No. 164,866. 1 Claim. (Cl. 55—145.)

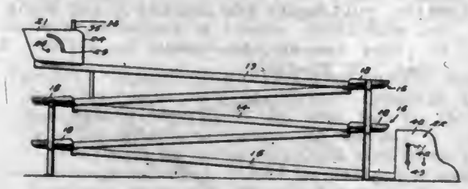


A leaf collector comprising a fork shaped member having secured thereto, centrally of its rear, a rearwardly extending handle bar, the sides of said member formed with a forward pair and a rear pair of aligning bearings, a front and rear spindle mounted in said bearings, a gathering element carried by and driving the forward spindle, a cleaner element for the gathering element carried by the rear spindle, means for driving the rear spindle from the forward spindle an open front container arranged rearwardly of said elements and below the same, a detachable connection between the container and handle bar centrally of the top of the rear of the container, and hanger members between the lower pair of bearings and the sides of said container.

1,662,161. METHOD FOR ORNAMENTING TEXTILES. LENORE NEETHLING, Chicago, Ill. Filed Sept. 23, 1925. Serial No. 58,128. 2 Claims. (Cl. 41—17.)

1. The method of ornamenting textiles which consists in first preparing a design on blotting paper; stretching the textile over said design; and then tracing said design on said textile with liquid coloring matter by means of a ball-pointed lettering pen, substantially as described.

1,662,162. GAME APPARATUS. HENRY M. NESTOR, Omaha, Nebr. Filed Mar. 29, 1927. Serial No. 179,309. 11 Claims. (Cl. 273—86.)



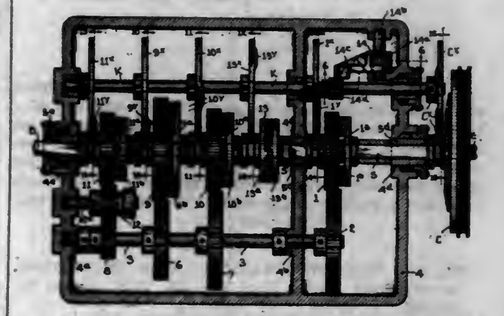
1. In game apparatus, a plurality of trackways of the same length and identical inclination, means at the upper end of the trackways for simultaneously releasing therein objects which will move by gravity from the upper to the lower end thereof and means at the opposite end of the trackways and actuated by the passage of an object moving along any of the trackways for positively barring the subsequent passage of an object along any of said trackways.

1,662,163. AUTO TABLE. GLENN H. NORQUIST, Jamestown, N. Y. Filed Aug. 7, 1924, Serial No. 730,781. Renewed July 25, 1927. 3 Claims. (Cl. 45—61.)



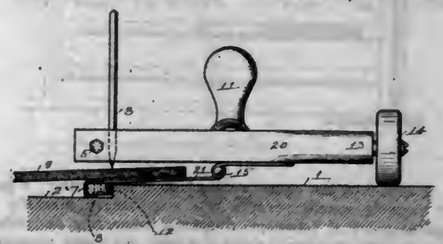
3. In a folding table, brackets projecting from one end of said table and having flanges bent downwardly at right angles thereto, said brackets being adapted to rest upon the edge of a support, legs pivotally secured to said table near the opposite end thereof, a loop pivoted at the bracket end and extending below said legs and a catch fixed to said table, said catch adapted, when said table is folded, to engage said loop and hold said legs against the underside of said table with the legs projecting beyond the bracket end of said table, and said loop when disengaged from said catch, being adapted to support said legs below and at an angle to said table, whereby ends of said legs will engage said support and coact with said brackets to hold said table in a horizontal position.

1,662,164. VARIABLE-SPEED TRANSMISSION. ROSS H. PRATT, Washington, D. C. Filed July 26, 1926. Serial No. 124,895. 2 Claims. (Cl. 74—59.)



1. In a variable speed transmission including driving mechanism and a driven shaft carrying a plurality of clutch controlled transmission gears, a cam shaft carrying a disk-like cam adapted to directly engage with one of said clutches and actuate said clutch to engage the transmission gear with the driving mechanism and means for operating said cam.

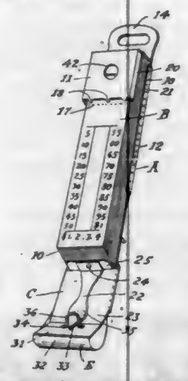
1,662,165. MARKING AND CUTTING DEVICE. SIMON PUNT, Grand Rapids, Mich. Filed Feb. 8, 1926. Serial No. 86,797. 1 Claim. (Cl. 33—42.)



In a gaging device for marking a work sheet in connection with a base to which the sheet is to be applied having a horizontal surface and a vertical surface, said

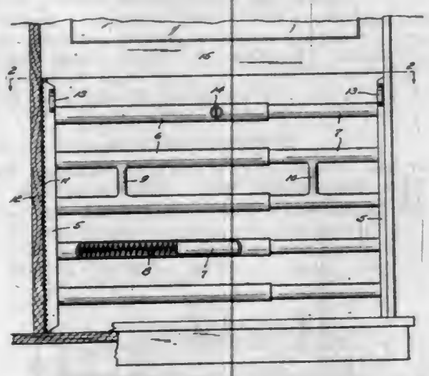
device comprising: a pair of members connected to swing toward and away from each other and adapted to receive the work sheet therebetween, one of said members carrying a tool extending toward the other of said members, said other member being adapted to engage said horizontal surface and having a gaging part extending from its under side and engaging said vertical surface, and said other member and tool engaging the opposite sides respectively of the work sheet in the operative movement of the device along said surfaces and the work sheet.

1,662,166. CHECK HOLDER AND CUTTER. CHARLES T. RASCHICK, St. Paul, Minn. Original application filed Feb. 2, 1920, Serial No. 355,572. Divided and this application filed June 23, 1921. Serial No. 479,803. 4 Claims. (Cl. 206—40.5.)



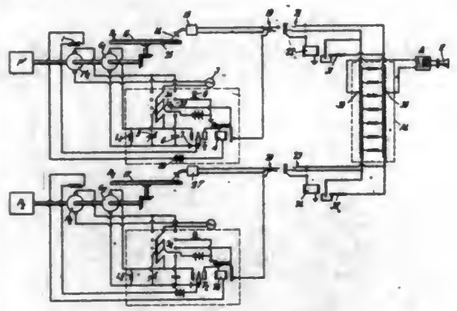
1. A check holder comprising a back, an over-lapping end formed on said back for enclosing the stub end of a book of checks, a pair of raised looped members cut out of said back, a U-shaped spring clamp adapted to be secured to said back within said looped members, said spring normally extending out of the plane of said back to press the book of checks against said over-lapping end.

1,662,167. WINDOW GRATING. OTTO M. REXINGER, Beverly Hills, Calif. Filed Dec. 28, 1926. Serial No. 157,565. 1 Claim. (Cl. 20—71.)



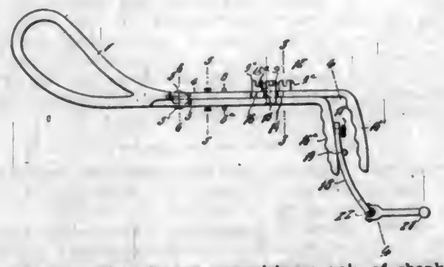
A device of the character described, comprising; a pair of variably spaced parallel side members; a plurality of spaced pairs of telescopic members connecting and aligning the side members; springs within the outer telescopic members adapted for pushing the inner telescopic members outwardly to separate the side members; and means for locking the telescopic members in extended position.

1,662,168. SWITCHING APPARATUS AND SYSTEM. JOHN LOUIS REYNOLDS, Long Island City, N. Y., assignor, by mesne assignments, to Electrical Research Products Inc., a Corporation of Delaware. Filed Apr. 1, 1927. Serial No. 180,326. 11 Claims. (Cl. 179—100.1.)



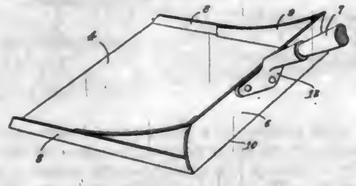
1. In combination, a sound translating device comprising a driven element, a motor for driving said element, a sound reproducing device operated under control of said translating device, and means automatically controlled by said motor for rendering said translating device ineffective to control said reproducer while the speed of said motor is varying.

1,662,169. OBSTETRICAL FORCEPS. RICHARD D. RODERICK, Jermyn, Pa. Filed Nov. 3, 1926. Serial No. 146,026. 4 Claims. (Cl. 128—323.)



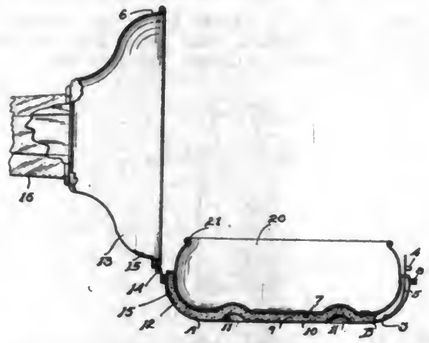
1. An obstetrical forceps comprising a pair of shanks each with its own pivoted blade, notches near the blade pivot latched to lock either blade in any of a plurality of angular blade adjustments, the members of the forceps being relatively movable longitudinally, and a clamp to fix the members in any adjusted position.

1,662,170. IMPLEMENT FOR HANDLING AND WORKING CONCRETE. GUSTAF R. SAHLSTROM, Rockford, Ill. Filed Apr. 18, 1927. Serial No. 184,517. 2 Claims. (Cl. 72—136.)



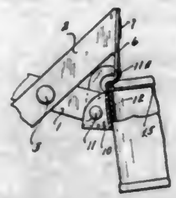
1. An implement for handling and working loose materials such as concrete comprising a scoop having a broad flat bottom and a scraping blade at its heel end, and a handle for manipulating the implement either as a scoop or for leveling and smoothing the top of a bed.

1,662,171. SMOKER'S STAND. JOSEPH W. SAVERY, San Francisco, Calif. Filed Aug. 23, 1926. Serial No. 131,044. 1 Claim. (Cl. 131—51.)



A smoker's stand of the class described comprising a partly spherical base, a partly spherical cover hinged to open radially on said base, a taper tube fixed to said cover, a tray on said tube, and a waste receptacle in said base adapted to extend above the meeting line of said base and said cover.

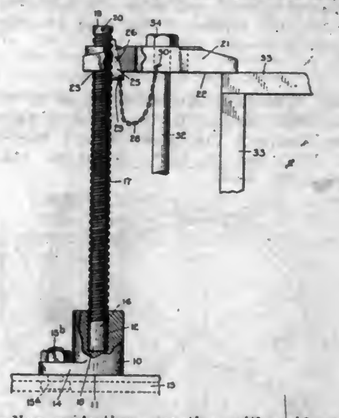
1,662,172. CAN OPENER OF THE NIPPER TYPE HAVING AN ADJUSTING HEAD. AUGUST C. SCHAEFER, Portland, Oreg. Filed Nov. 9, 1926. Serial No. 147,256. 3 Claims. (Cl. 50—3.)



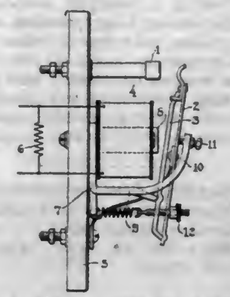
1. In a device of the class described, the combination of nipper jaws normally separated by spring means, a cutter head secured to the outer end of the upper jaw, the penetrating point of which is normally disposed opposite of the center line of the jaw member, a slot formed in the cutter head, an adjusting head movably disposed on the outer end of the lower jaw, a projection formed on the forward end of the adjusting head and projecting through the slot formed in the cutter head and adapted to engage with the upper edge of the can.

1,662,173. ADJUSTABLE CLAMPING STRAP FOR MILLING AND LIKE MACHINES. BERNARD R. SCHNEIDER, Jersey City, N. J. Filed Apr. 21, 1926. Serial No. 103,595. 4 Claims. (Cl. 90—59.)

1. In an adjustable set-up device, the combination of an upright having a body portion provided with a vertically aligned set of laterally extending projections, a horizontally extending member provided at one end thereof with an opening at one side including a tapered slot for receiving said body portion of said upright, the side of said opening opposite said one side being substantially smooth, means for exerting pressure downwardly on said horizontally extending member, and a wedge-shaped member arranged to be positioned within said tapered slot to hold said horizontally extending member against downward displacement, said wedge-shaped member having a substantially smooth face for engagement with said substantially smooth side of the opening and further having a face provided with laterally extending projections coacting with said vertically aligned set of laterally extending projections of said upright.



1,662,174. ELECTROMAGNETIC RELAY. EDWIN W. SEEGER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 17, 1920. Serial No. 381,858. 9 Claims. (Cl. 175—335.)



1. A relay including an operating winding to be supplied with energy from a source of undulating current of variable frequency, but substantially constant magnitude, and means associated with said winding for varying the flux produced thereby upon variations in the frequency of the current supplied thereto to render said relay responsive at given frequencies and unresponsive at other frequencies.

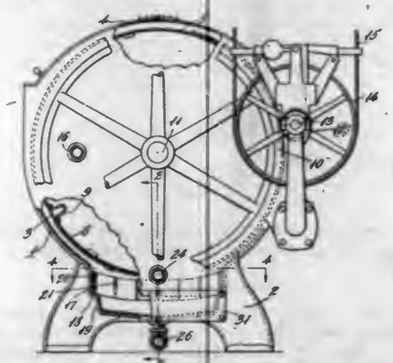
1,662,175. ARTICLE-HOLDING CLIP. VIOLA THORNE, Grand Rapids, Mich., assignor of one-half to Roman F. Glocheski, Grand Rapids, Mich. Filed June 18, 1927. Serial No. 198,479. 2 Claims. (Cl. 24—255.)



2. A clip of the class described, comprising a substantially flat base, a spring member attached at one end to said base and having its other end spaced away from

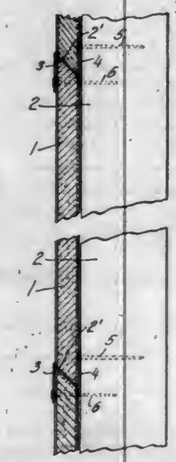
the base and two heads of hard, smooth surface material semi-spherical in form attached one to the base and one to the spaced away end of the spring member and normally bearing against each other, the end of the spring member and the surface of the head attached thereto being flush with each other.

1,662,176. WASHING MACHINE. IVAN M. TULL, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,151. 14 Claims. (Cl. 8—8.)



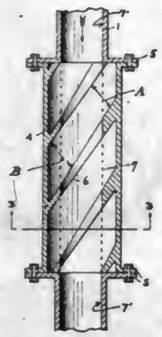
1. In a machine of the character described, the combination of a casing, a rotatably mounted cylinder in said casing, said casing being provided with a trough beneath said cylinder, said trough being provided with a rest, means supported upon said rest for retarding agitation of the washing or cleaning fluid in said trough, means for drawing off the fluid to a level corresponding approximately with the top of said agitation retarding means, and means for draining said trough.

1,662,177. BUILDING CONSTRUCTION. CLARENCE EDGAR WILLIAMS, Buffalo, N. Y., assignor to National Gypsum Company, Buffalo, N. Y., a Corporation of Delaware. Filed Nov. 15, 1926. Serial No. 148,441. 7 Claims. (Cl. 72—16.)



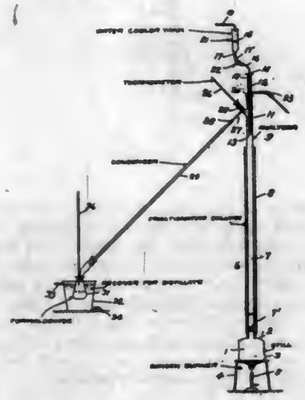
1. A device for use in building construction comprising a web adapted to be arranged on the upper edge of a board, a depending flange formed on said web and extending over a portion of the front face of the board, and an upwardly extending flange arranged in the plane of the rear face of the board.

1,662,178. DREDGER PIPE LINE. NATHANIEL A. YUILLE, San Francisco, Calif. Filed Jan. 19, 1927. Serial No. 162,035. 4 Claims. (Cl. 302—14.)



1. A flanged section of dredger pipe provided internally with a spiral fin, said section being aligned with and secured to a length of pipe having a plain bore, and said spiral fin having a bore or internal free space substantially equal to the bore of said length of pipe.

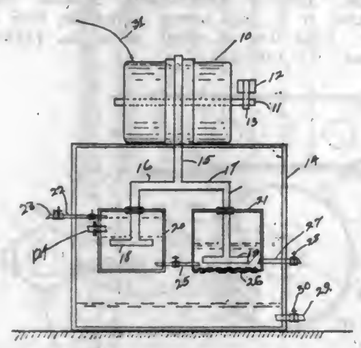
1,662,179. PROCESS FOR CONCENTRATING FORMALDEHYDE SOLUTIONS. ADOLPH ZIMMERLI, New Brunswick, N. J. Filed Jan. 28, 1924. Serial No. 689,052. 10 Claims. (Cl. 260—138.)



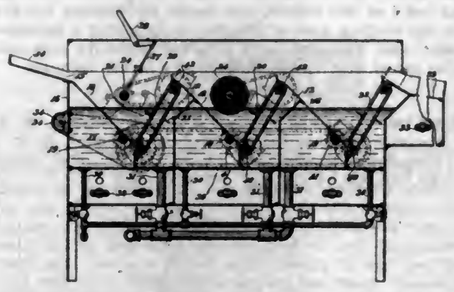
1. The process of preparing a stronger formaldehyde solution from a weaker solution which comprises refluxing the weaker solution until an equilibrium has been established between the formaldehyde and its polymers and hydrates, and then fractionally distilling the same.

1,662,180. APPARATUS FOR AND METHOD OF TREATING FLUIDS. JOHN P. BALL, Chicago, Ill. Filed June 9, 1927. Serial No. 197,648. 2 Claims. (Cl. 210—1.)

1. Apparatus of the character described comprising a vessel provided with a controllable outlet adjacent to the bottom thereof, a pair of receptacles mounted within said vessel in spaced relation with the bottom thereof, one of said receptacles having a fluid introducing conduit adjacent to its top and connected with the second receptacle by a conduit adjacent to the bottom thereof, said second receptacle being provided with a foraminated bottom, a high speed rotating element mounted on said vessel, means for placing said high speed rotating element out of balance to induce vibration, and means intermediate of said high speed rotating element and said receptacles whereby the liquid therein is subjected to the vibration set up in said unbalanced high speed rotating element.



1,662,181. DISHWASHING MACHINE. JAMES BARRY, Grafton, Calif. Filed May 21, 1923, Serial No. 640,837. Renewed Nov. 23, 1927. 2 Claims. (Cl. 15—74.)

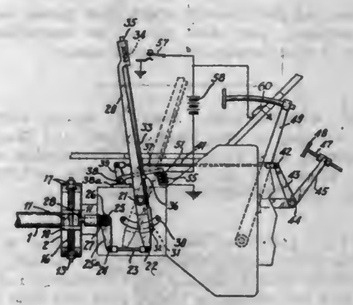


1. A dish washing machine comprising a housing divided transversely into three independent compartments, separate fluid inlet and discharge connections for each of said compartments, said housing being formed with an entry opening at one end and an exit opening at the other end, a foraminous inclined floor member in each compartment, said floors being disposed in parallelism, and each having an opening therein adjacent its lower end, transversely disposed lower rotary brushes disposed one beneath the floor member in each compartment and projecting partly through the opening therein to engage dishes passing over said floor, upper rotary brushes disposed one in each of the first two compartments, said brushes being disposed above the floor members, whereby dishes passing over the floor members will pass between the upper and lower brushes and be engaged thereby, an inclined conveyor in each compartment, said conveyor being inclined oppositely to the floor member so as to be disposed between the lower end of the floor member in the compartment and the upper end of the floor member of the succeeding compartment whereby dishes fed into the first compartment will pass downwardly over the floor member between the brushes and then be elevated by the conveyor and deposited upon the top of the floor member of the succeeding compartment.

1,662,182. PROCESS FOR TREATING RUBBER WITH ALDEHYDE DERIVATIVES AND PRODUCTS. SIDNEY M. CADWELL, Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed May 14, 1926. Serial No. 109,178. 7 Claims. (Cl. 18—53.)

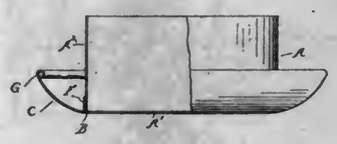
1. A process for retarding the deterioration of rubber which comprises combining with rubber an excess of a condensation product having the dual properties of an accelerator and a retarder of deterioration, and soft vulcanizing the rubber.

1,662,183. BRAKE MECHANISM FOR AUTOMOBILES. THOMAS CHANN, New York, N. Y. Filed Apr. 29, 1927. Serial No. 187,483. 5 Claims. (Cl. 188—106.)



1. The combination with an automobile having a service brake pedal for operating the service brakes, of a second brake biased to brake applying position, means for maintaining said second brake out of brake applying position, and means associated with said service brake pedal for releasing said second brake to brake applying position.

1,662,184. MILK-CAN COVER AND METHOD OF FORMING THE SAME. CHARLES A. COMP, Detroit, Mich., assignor to Buhl Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 21, 1925. Serial No. 57,772. 7 Claims. (Cl. 220—42.)

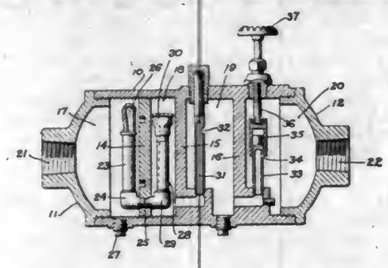


1. A closure comprising a pressed sheet metal blank having an integral head portion, annular cylindrical flange portion and rounded fillet therebetween and a bell flange member having an inturned portion externally connected to said first mentioned member and forming a reinforcement adjacent said rounded fillet.

1,662,185. CONDENSATION TRAP. DAVID S. GARCIA, Oakland, Calif. Filed Aug. 10, 1927. Serial No. 211,963. 5 Claims. (Cl. 137—103.)

1. A condensation ejector trap comprising a shell having an inlet port at one end and an outlet port at its other end, said shell being interiorly partitioned to provide a receiving chamber in communication with the inlet port and an ejector chamber in communication with the outlet port, fluid conveying means for conveying fluid from the receiving chamber, said conveying means

receiving fluid from a point above the inlet port whereby the receiving chamber will be partially filled with water to form a steam seal, an ejector nozzle arranged within



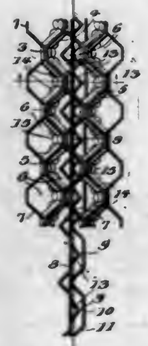
the ejector chamber through which fluid passes into the ejector chamber, and valve means for controlling the discharge of fluid through the ejector nozzle.

1,662,186. CONDENSER. JOHN F. GRACE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Nov. 10, 1926. Serial No. 147,411. 12 Claims. (Cl. 257—43.)



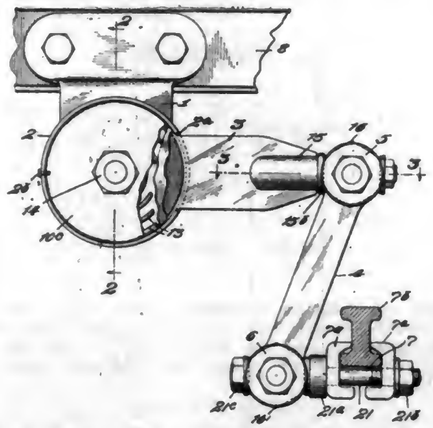
1. In a condenser, a plurality of cooling water receiving tubes, a baffle segregating certain of said tubes to form an air cooling zone, the normal inlet of air into said zone being across the lowermost edge of said baffle, said baffle having an emergency air inlet therein above its lowermost edge.

1,662,187. RADIATOR CORE. JOSEPH D. HARRIS, Detroit, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed June 27, 1925. Serial No. 40,111. 3 Claims. (Cl. 257—130.)



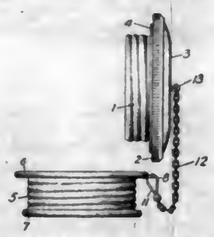
1. In a radiator core, the combination with two spaced apart corrugated plates, of a flat spacer plate between the corrugated plates and having a plurality of truss-like projections extending into the corrugations of one of the corrugated plates and in contact therewith for holding the spacer plate against the other corrugated plate, the latter having the crowns of its projections flattened to increase the area of contact with the spacer plate, said spacer plate being provided with a plurality of V-shaped projections struck out therefrom and with the openings made in the plate by certain of the projections opposite said flattened portions.

1,662,188. SHOCK ABSORBER. EDWARD HELMUS, Brooklyn, N. Y., and LEWIS C. BURNET, Glen Ridge, N. J. Filed May 16, 1924. Serial No. 713,681. 6 Claims. (Cl. 188—130.)



1. In a shock absorber, a shock absorbing means a bracket for securing the shock absorbing means to the chassis of the vehicle, an arm extending outward from the shock absorbing means adapted to be rotated through an angle of 360 degrees, and means for securing the arm to the running gear of the vehicle including a universal joint, said universal joint including mutually perpendicular pivots, and friction washers of a fibrous material.

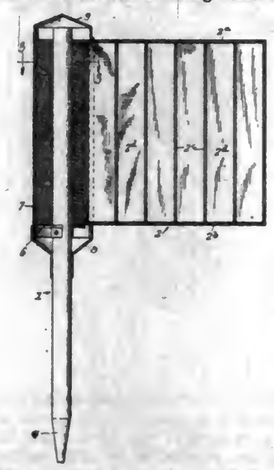
1,662,189. STOPPER. FRANK S. HYATT, Brooklyn, N. Y., assignor to Brass Goods M'f'g. Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 23, 1926. Serial No. 104,008. 2 Claims. (Cl. 220—30.)



1. In a device of the character described, a neck provided with a flange terminating in a curled edge forming a hollow bead with a cutaway portion therein, a wire supported within said bead and having a part thereof exposed at the point of said cutaway portion, a stopper for insertion within said neck, and a flexible retaining element rotatably connected to said stopper and attached to the exposed portion of said wire.

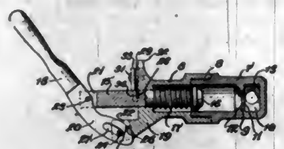
1,662,190. SIGNAL FLAG AND METHOD OF MAINTAINING SAME. DANIEL F. JONES, Chicago, Ill. Filed Nov. 5, 1926. Serial No. 146,206. 4 Claims. (Cl. 116—173.)

4. A signal flag embodying therein, a staff, a strip of bunting in excess of a flag length, one end of said bunting strip being rolled upon said staff to form a supply and the other end forming the flag proper which is maintained at proper size by withdrawal of the bunting from the supply on the staff and a collar on the staff below said supply and engaged thereby to prevent telescoping of the same and a casing removably mounted



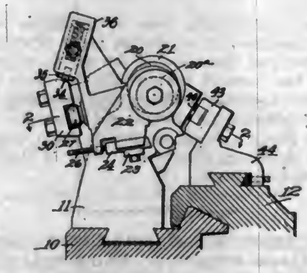
on the staff and enclosing said supply and having a longitudinal slot through which said other end of the bunting extends.

1,662,191. VALVE. EDWARD KENER, Jr., Buffalo, N. Y. Filed Apr. 2, 1926. Serial No. 99,389. 8 Claims. (Cl. 251—164.)



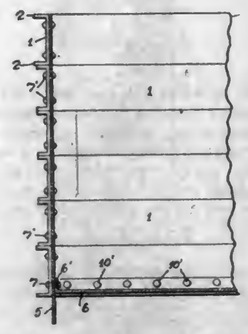
1. In a valve, a valve mechanism having a longitudinally movable operating plunger, said plunger having a recess on its upper side, a locking bar pivotally mounted to one side of said plunger and extending transversely across the upper side thereof, the longitudinal edge of said locking bar being adapted to drop into engagement with said recess and hold said plunger in one position, and the outer end of said locking bar being formed to provide a handle whereby the locking bar is lifted to release said plunger.

1,662,192. BACK-TURNING ATTACHMENT FOR LATHES. NATHANIEL KING, Fitchburg, Mass., assignor to Seneca Falls Machine Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed June 30, 1924. Serial No. 723,110. 11 Claims. (Cl. 82—25.)



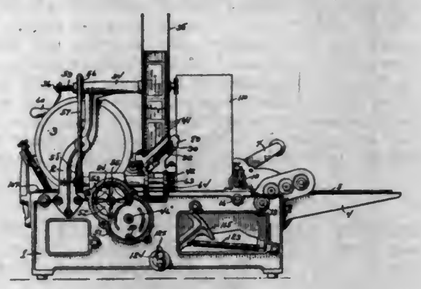
1. In a lathe, a tail stock, a tool carriage, an auxiliary tool, a tool support therefor mounted on said tail stock and movable longitudinally of the lathe and tail stock, and direct draw-bar connections from said tool carriage to said tool support for movement of said tool thereby axially of the lathe, said tool being advanced at the same speed and in the same direction as said tool carriage through said direct connection thereto.

1,662,193. METAL CAR END. MAURICE LACHMAN, New York, N. Y. Filed Mar. 12, 1926. Serial No. 94,121. 6 Claims. (Cl. 105—406.)



2. A metal car body end consisting of superposed metal channel members disposed transversely and secured together by their flanges, the ends of said members having their webs and flanges bent around at the corner of the car body for attachment to a suitable support, said bent web being secured directly to a plate forming a side or portion of the side of the car body.

1,662,194. PRINTING AND ADDRESSING MACHINE. JAMES H. LAWSON, Vincennes, Ind. Filed Apr. 14, 1925. Serial No. 23,034. 20 Claims. (Cl. 101—50.)

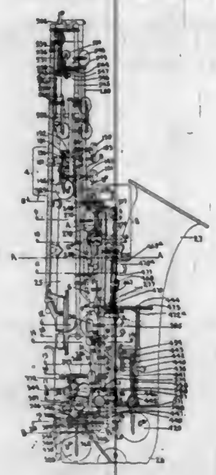


1. In a machine of the character described, a table, spools located at opposite sides thereof, a stencil strip wound upon one spool and adapted for movement transversely of the table to be wound upon the other spool, means for feeding paper and envelopes along the table beneath the stencil, an inking roller adapted to press upon the top of the stencil, means for moving the inking roller downwardly into engagement with the stencil, and means for moving said inking roller synchronously with the paper and envelope feeding means.

1,662,195. WOOD-WIND INSTRUMENT. ALLEN LOOMIS, Elkhart, Ind. Filed Nov. 2, 1925. Serial No. 66,186. 30 Claims. (Cl. 84—385.)

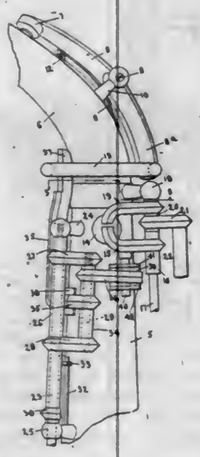
20. In a wood wind instrument having a tubular body with a lateral hole, a carrier lever pivoted to said body and having a cover for said hole, a floating lever pivoted

to said carrier lever on a different axis, a spring connected to one of said levers and reacting against the other tending to turn both of them about their respective axes, the movement of both levers being limited



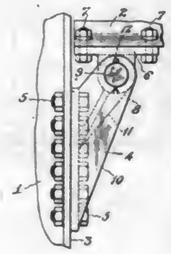
by abutment against the instrument, imparting displacing movement to one arm of said floating lever and, while said arm remains so displaced, causing the other arm of the floating lever to be displaced.

1,662,196. OCTAVE-KEY MECHANISM FOR WOODWIND INSTRUMENTS. ALLEN LOOMIS, Elkhart, Ind. Filed Apr. 9, 1926. Serial No. 100,794. 3 Claims. (Cl. 84—385.)



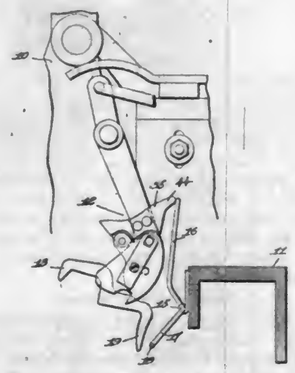
1. In an octave key mechanism of the character set forth, a floating lever consisting of a sleeve, a laterally extending slotted arm secured to said sleeve, and a second arm secured to said sleeve extending laterally therefrom and bent to extend longitudinally.

1,662,197. ROCKING STRUCTURAL BRACE. STANLEY MACOMBER, Massillon, Ohio, assignor to The Macomber Steel Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 13, 1926. Serial No. 128,953. 4 Claims. (Cl. 189—36.)



1. Connections for columns and beams comprising, in combination with a supporting column and a transverse beam; castings secured to said column and beam, respectively, and a pin connection for said castings, whereby the beam can deflect under load without subjecting said castings to stress.

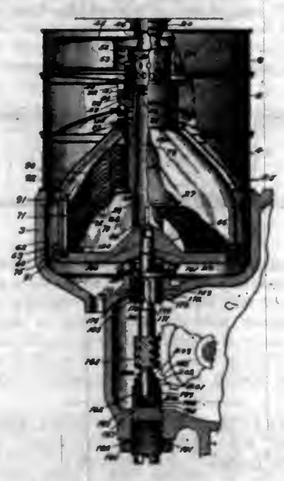
1,662,198. WEFT-REPLENISHING LOOM. JAMES T. MALLOY, Oakland, R. I., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 23, 1927. Serial No. 170,144. 4 Claims. (Cl. 139—264.)



1. A weft replenishing loom of the filling feeler type having, in combination, a shuttle feeler provided with a thread cutter and clamp, means for closing the cutter and clamp on the forward beat of the lay upon replenishment to cut and clamp the thread extending from the cutter and clamp to the selvage, and means for delivering a series of light blows to the shuttle feeler thread clamp to open it gradually after a few beats of the lay subsequent to replenishment.

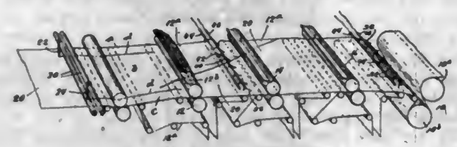
1,662,199. CENTRIFUGAL SEPARATOR. HERBERT MCCORNACK, Glen Ridge, N. J. Filed Nov. 4, 1921. Serial No. 512,766. 64 Claims. (Cl. 233—29.)

1. A separator bowl having milk and cream outlets, primary and secondary separation chambers, a passage from the primary separation chamber to the cream outlet, a passage from the primary separation chamber to the secondary separation chamber and a passage from the sec-



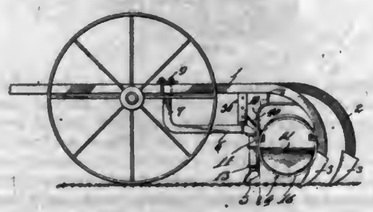
ondary separation chamber to the cream outlet, said passages from the separation chambers to the cream outlet being distinct in the zone separation.

1,662,200. PAPER MAKING. CHARLES NEAL MERRILL, Millinocket, Me., assignor to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed Sept. 23, 1925. Serial No. 58,168. 48 Claims. (Cl. 92—38.)



1. The method of preserving the continuity of the paper sheet in a paper making machine, which consists in directing streams of water downward on the paper making wire, when a break occurs in the sheet, so as to form longitudinal sections in the moving paper sheet, one containing the break and another being free of the break, and passing the break-containing section to waste while continuing to pass a free section through the machine.

1,662,201. CULTIVATOR FENDER. AUGUST H. NIEWALD, Freedom, Mo. Filed Nov. 12, 1926. Serial No. 148,041. 5 Claims. (Cl. 97—188.)



1. A fender of the class described, comprising a yoke, a ring pivotally supported by the yoke, and means for yieldably restraining the ring against swinging movement in one direction and holding the same in inclined position with respect to the yoke.

1,662,202. DOBBY LEVER. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 21, 1925. Serial No. 63,902. 2 Claims. (Cl. 139—74.)



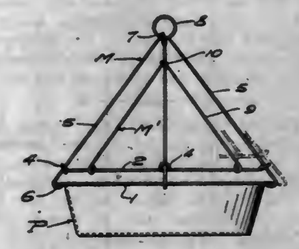
2. A dobby lever for looms consisting of two plates touching each other from near one end to near the other end, the lever being provided near each end with a key in one plate and a key-hole in the other plate for uniting the plates of the lever together at their ends, and the ends and the ends of the plates being shaped to receive between them the ends of the dobby hooks.

1,662,203. BUTTON. EVALYN FISHER NULTY, Ocean City, N. J. Filed June 27, 1925. Serial No. 40,095. 1 Claim. (Cl. 24—90.)



A combination button comprising a solid one piece body 1 of relatively soft material such as bone or mother-of-pearl, having a formed front and a flat back with a central integral boss or hub 3 projecting therefrom and provided with a transverse opening 4 and a metal facing or cover plate 2 fitted upon and over the formed front of the body and having its edge 5 turned over the edge of the body and finished to form a smooth joint therewith leaving the back uncovered between said edge and the boss or hub 3, whereby thread for securing the button in place may pass through the transverse opening 4 and at all times during wear as well as in sewing will come in frictional contact with the soft material of the back only.

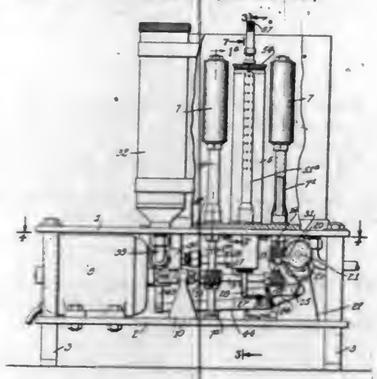
1,662,204. PROTECTOR FOR POULTRY FEEDERS. RAYMOND T. PARKHURST, Moscow, Idaho. Filed June 28, 1927. Serial No. 202,099. 3 Claims. (Cl. 119—61.)



3. A protector of the class described comprising an annular member, inwardly and upwardly disposed legs secured to said member, said annular member at points spaced circumferentially thereof being provided with open-

ings, upwardly converging legs slidably disposed through said openings and connected at their upper extremities, the lower extremities of the last named legs being provided with inwardly facing hook members, the first named legs being each positioned between adjacent second named legs.

1,662,205. DRINKING-GLASS-WASHING APPARATUS. ROBERT R. PARRY, Elmhurst, N. Y., assignor of one-half to Carl H. Fowler, New York, N. Y. Filed Jan. 2, 1925. Serial No. 35. 10 Claims. (Cl. 15—75.)



1. In drinking glass washing apparatus, the combination of a stationary vertical support, a plurality of vertical cylindrical members rotatably mounted on stationary shafts adapted to frictionally engage the outer surface of a glass positioned on said support, to rotate the same, said support having a curved surface between which and said cylindrical members the glass is positioned, means for rotating said cylindrical members, and means for cleansing the glass while it is being rotated.

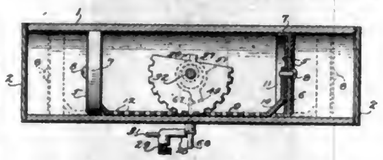
1,662,206. PROPELLING SYSTEM AND METHOD. CLIFFORD M. PAXTON, Brooklyn, N. Y., assignor to Paxton Corporation of America. Original application filed Apr. 7, 1923, Serial No. 630,463. Divided and this application filed May 25, 1925. Serial No. 32,531. 13 Claims. (Cl. 115—11.)



1. A marine vessel of the displacement type, having entrance, midship and run sections, in combination with a propelling system including a power driven propelling wheel and resistance reducing means including a power-driven, high pressure pumping means for discharging high velocity jets of water, designed and arranged to exert their useful water excavating action along the entrance section and beneath where the maximum bow waves tend to pile up when the vessel is driven at speed by the combined efforts of the wheel and the jets.

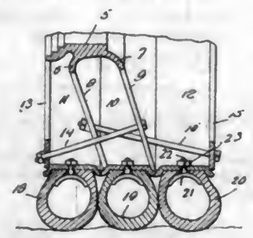
1,662,207. WINDSHIELD CLEANER. JOHN X. PHILLIPS, Jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Original application filed Jan. 7, 1924, Serial No. 684,823. Divided and this application filed Aug. 5, 1925. Serial No. 48,420. 6 Claims. (Cl. 15—253.)

1. A windshield cleaner comprising a motor including a casing and a piston therein, one of said elements reciprocating relative to the other, a wiper means reciprocable by the movable element, cam means adjacent one extreme limit of movement of said wiper means and on which a part of said wiper means rides when moved thereover for relieving the wiping pressure of the wiper means on the windshield glass, automatic valve mechanism for reversing the application of operative fluid pressure at the end of each stroke of the movable element of said motor for operating the wiper means over a normal path of movement extending short of said cam means whereby said cam means will remain inoperative during



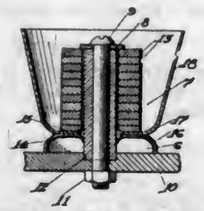
normal operation of the wiper means, and means for arresting the operation of the valve mechanism at one end of the stroke of said movable element whereby the operating fluid pressure will continue to act on said movable element and move it beyond its normal path into contact with and ride upon said cam means so that said wiper means will be spaced from the windshield glass.

1,662,208. TRACTION WHEEL. HOYLE POUNDS, Winter Garden, Fla. Filed Nov. 1, 1927. Serial No. 230,297. 5 Claims. (Cl. 152—20.)



1. A wheel structure of the class described comprising a plurality of rims disposed in side by side relation concentric with each other, a plurality of tire casings, means for firmly clamping the tire casings on the rim, one on each rim, said casings being noninflated and empty.

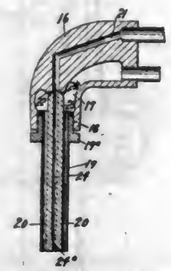
1,662,209. THREAD-TENSIONING DEVICE. ARTHUR L. REMINGTON, Worcester, Mass., assignor to Warp Compressing Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 11, 1926. Serial No. 93,943. 1 Claim. (Cl. 242—150.)



In a thread tensioning device, a bolt, a porcelain sleeve surrounding said bolt, an inverted cup shaped member loosely surrounding said sleeve, said cup shaped member having its cylindrical surface and its base surface joined by a gently curving urface, a second cup shaped member with its base resting on the base of said first cup shaped member around a narrow annular zone, said second cup shaped member having an upwardly extending hollow portion of frusto-conical shape, said frusto-conical surface merging into the base of said second cup shaped member by a gently curved surface, and a plurality of weights located inside said second cup shaped member around the porcelain sleeve, the whole device being

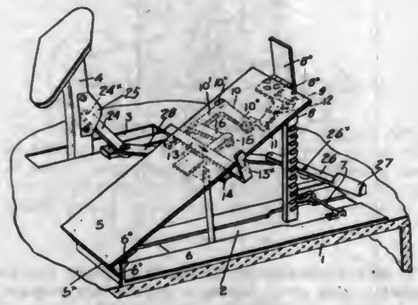
readily threaded and offering a resistance to the passage of thread that is determined by the number of weights in the second cup shaped member, the porcelain sleeve offering practically no resistance.

1,662,210. TORCH. JOHN J. SALM, Akron, Ohio. Filed Dec. 31, 1926. Serial No. 158,228. 7 Claims. (Cl. 158—27.4.)



1. A torch comprising a nozzle, means for supplying a gaseous fuel thereto, and means for supplying oxygen thereto, said nozzle having a mixing chamber therein and provided with a seat portion on the inlet to said chamber for the oxygen, said nozzle having a threaded aperture therein in alignment with said seat, a tip extended through said aperture and having a reduced portion extending through the mixing chamber and seated on said seat and means threaded into said aperture to urge the tip against the seat, said tip having a circumferential series of longitudinal ducts through its body portion adapted to deliver a combustible mixture of gases from the mixing chamber to provide a flame, said tip also having a central duct through the body portion and reduced portion adapted to deliver free oxygen to the flame, the seat engaging end of the tip being formed with one or more spiral slots providing ducts for admitting oxygen to the mixing chamber with a whirling motion to thoroughly mix the gases in the chamber and evenly supply the mixed gases to all of the circumferential series of ducts, said central duct being restricted to create a back pressure on the oxygen for forcing a portion thereof into the mixing chamber.

1,662,211. ACCELERATOR-CONTROLLING DEVICE. JAMES CORNAIL SHIER, Toronto, Ontario, Canada. Filed Feb. 4, 1927. Serial No. 165,940. 7 Claims. (Cl. 74—81.)



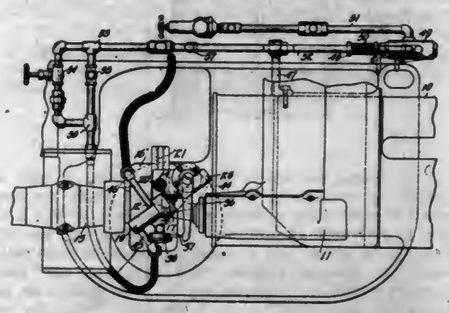
1. In an accelerator, the combination with the accelerator pedal, of a rack bar hingedly connected to the pedal at its front edge and depending therefrom below the hinge point, a stationary member with which the rack bar is adapted to be engaged when the pedal is depressed, and means operated by the lateral movement of the foot upon the pedal for moving the rack bar in and out of engagement with such stationary member.

1,662,212. TUBE FRAME FOR AXMINSTER LOOMS. JOHN G. SODERBERG, GEORGE D. LOCKWOOD, and WILLIAM W. ROBERTSON, Worcester, Mass., assignors to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Aug. 21, 1922. Serial No. 583,137. 5 Claims. (Cl. 139—10.)



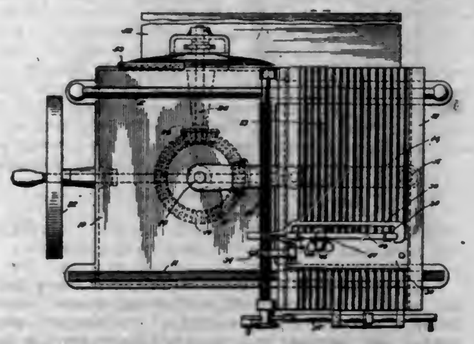
1. In a yarn tube frame, a hanger comprising an outer supporting member and an inner bearing member permanently secured together, and a spring clip, said clip having a recessed portion adapted to guide and position a spool gudgeon in said bearing member.

1,662,213. SIZING DEVICE FOR INTERNAL-GRINDING MACHINES. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Oct. 21, 1926. Serial No. 143,249. 10 Claims. (Cl. 33—172.)



1. The combination with a grinding machine having a work holding chuck, of a water guard around said chuck and a hydraulic sizing device carried by said water guard and means controlled by the movement of the grinding machine carriage for moving the sizing device into and out of operative position, substantially as set forth.

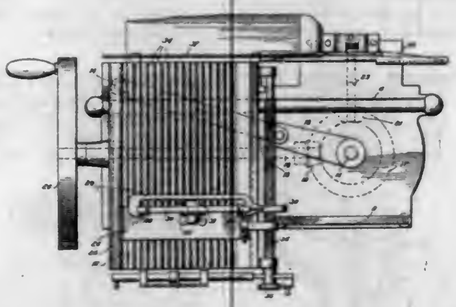
1,662,214. SLICING MACHINE. EDWARD M. STILES, Burlington, Iowa, assignor to U. S. Slicing Machine Company, a Corporation of Indiana. Filed June 25, 1025. Serial No. 39,400. 18 Claims. (Cl. 146—102.)



1. A slicing machine comprising a supporting base, having an operator's position arranged at one edge thereof, a slicing knife spaced away from the opposite

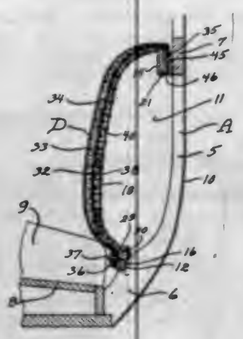
edge of said base and having its cutting plane substantially normal to said edges, a table mounted to reciprocate on said base and movable to a position towards said opposite edge beyond said slicing knife, to permit slices to be severed from material on said table as said table is moved towards said operator's position, and an abutment at the side of said table away from said operator's position, said abutment extending approximately to the cutting plane of the knife.

1,662,215. SLICING MACHINE. EDWARD M. STILES, Burlington, Iowa, assignor to U. S. Slicing Machine Company, a Corporation of Indiana. Filed June 25, 1925. Serial No. 39,402. 8 Claims. (Cl. 146—102.)



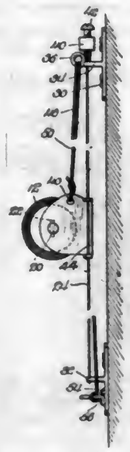
1. A slicing machine comprising a knife, a table arranged to reciprocate relative to said knife, an abutment on said table extending transversely to the direction of movement of said table for engaging one side of a piece to be sliced, and a guard arranged in registration with the opening between said abutment and knife, through which the material is fed from said table and extending substantially into registration with the cutting edge of said knife.

1,662,216. BACK CUSHION FOR VEHICLE SEATS. SAM SWITZER, Casper, Wyo. Filed Dec. 16, 1926. Serial No. 155,254. 7 Claims. (Cl. 155—181.)



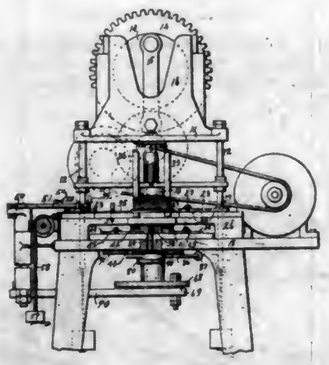
1. A back cushion for seats comprising a frame having uprights and rearwardly offset upper and lower portions, a resilient mat secured at its marginal portions to said uprights and upper and lower portions inwardly of the frame, and an upholstering arranged over the face of the mat and secured at its marginal portions to said frame.

1,662,217. SHADE MOUNTING. CHARLES H. TILTON, Chicago, Ill. Filed Nov. 20, 1922. Serial No. 601,982. 3 Claims. (Cl. 156—27.)



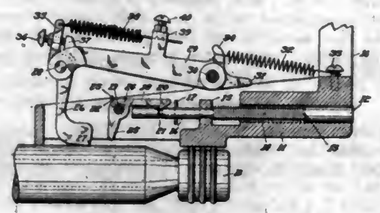
3. In a shade mounting, in combination, fittings for receiving the ends of a shade roller, flexible tension wire means slidably supporting each fitting, and rigid supports at spaced points on said tension wire means, the tension of said wire means being such as to permit displacement of said fitting when positioned intermediate said points, to separate the fittings from the roller.

1,662,218. FEEDING DEVICE FOR SHAPING PRESSES. STEPHEN F. TOJEK, Milwaukee, Wis., assignor to Stephen F. Tojek and Philip Tojek, Copartners doing business under the firm name and style of Tojek Brothers, Milwaukee, Wis. Filed Aug. 2, 1926. Serial No. 126,430. 6 Claims. (Cl. 271—1.)



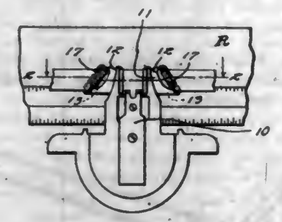
1. In a shaping press for blanks of paper and similar material, said press having a driven rotary shaft, the combination of a magazine for the blanks, means operated from said shaft for separating bundles of superposed blanks from those in the magazine, a reciprocatory feeding device for delivering the bundles of blanks successively to the press, compound lever mechanism for actuating said feeding device, and a cam on said rotary shaft adapted to actuate the power arm of said compound lever mechanism once during each turn of the shaft.

1,662,219. WEFT DETECTOR MOUNTED ON REGULARLY-MOVING TRANSFERRERS. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1926. Serial No. 127,694. 1 Claim. (Cl. 139—271.)



In a weft detector mechanism for a loom having a transferrer arm moved toward and arrested in its motion toward the surface to be detached on detecting beats of the loom, a side slip weft detector, a carrier for the detector pivotally mounted on the transferrer arm and movable toward the surface to be detected when the transferrer is arrested in its movement towards the surface to be detected by reason of the inertia of said detector and carrier, yielding means to hold the carrier and detector in raised position, other yielding means to hold the detector in normal position relatively to the carrier, said first yielding means exerting a force considerably less than the inertia force of the detector and carrier and said second yielding means exerting a force only slightly less than the inertia force of the carrier.

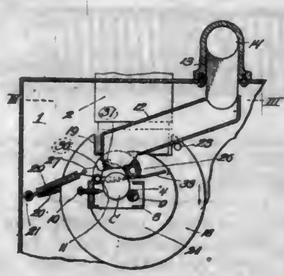
1,662,220. RIBBON-GUIDING ATTACHMENT FOR TYPEWRITERS. MORRIS F. UMSTEAD, Aldan, Pa. Filed Apr. 30, 1927. Serial No. 188,022. 4 Claims. (Cl. 197—170.)



1. The combination with a vibratory typewriter ribbon carrier having guides fixed thereto through which the ribbon passes, of guides for the ribbon separable from the carrier and means for adjustably connecting the last named guides to the fixed guides of the carrier.

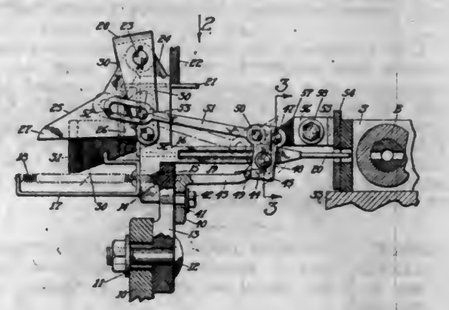
1,662,221. COIN-CONTROLLED MECHANISM FOR VENDING MACHINES. LESLIE A. VANDIVER, Kansas City, Mo. Filed June 28, 1926. Serial No. 119,009. 3 Claims. (Cl. 194—35.)

1. The combination with a rotary shaft, a package delivery device having a shoulder, a disk mounted to turn with the shaft, a coin chute and means cooperating with the perimeter of the shaft for intercepting and supporting a proper coin, of a slotted guide for the supported coin, a pair of arms pivoted to the disk, one having a pin to ride on the said guide and be pivotally raised by a coin when the same is supported by the shaft and said means, and the other a shoulder for engaging the shoulder of said delivery device when the shaft is



turned; the shaft having a notch to register with the coin to permit the same to drop before the turning movement of the shaft has ended.

1,662,222. MULTIPLE-NEEDLE DETECTOR. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 5, 1926. Serial No. 79,483. 3 Claims. (Cl. 139—276.)



1. In a weft detector for looms, a yarn engaging detector member, weighted means to hold said member yieldingly in position to be engaged by a bobbin, means acting prior to engagement between the bobbin and the detector member to set the weighted means in motion and give the same a movement which retards more quickly than the retardation of the advancing bobbin, the rate of advance of the weighted means and detector member and also the bobbin being substantially the same when a full bobbin engages the detector member, and the relative rate of motion of the bobbin with respect to the weighted means and detector member increasing as the diameter of the bobbin diminishes.

1,662,223. SHOCK ABSORBER. HENRY F. WERNER and CLARENCE E. FABER, New Orleans, La. Filed Apr. 18, 1927. Serial No. 184,630. 3 Claims. (Cl. 64—96.)

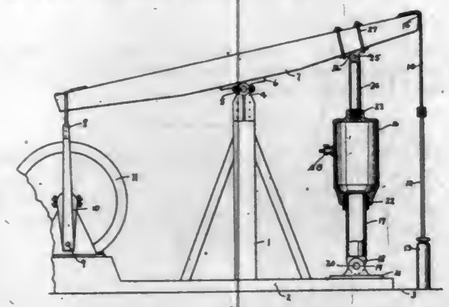
1. A shock absorber comprising a pair of body sections positioned in endwise opposed relation, a thrust bearing interposed between said body sections, a pair of spaced collars mounted on one of said sections and one fixed and the other normally loose with respect to said section, a collar fixed to the other sections, a sleeve

secured to said last mentioned collar and to said normally loose collar, means for connecting said normally loose collar to its body section, a coil spring surrounding



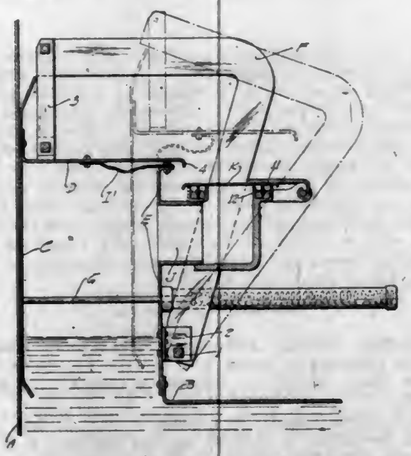
said body section and having one of its ends extending into said fixed collars and its other end into the other of said fixed collars.

1,662,224. SHOCK ABSORBER FOR WALKING BEAMS. WILLIAM WERNER, Mexia, Tex. Filed Mar. 23, 1926. Serial No. 96,820. 2 Claims. (Cl. 74—71.)



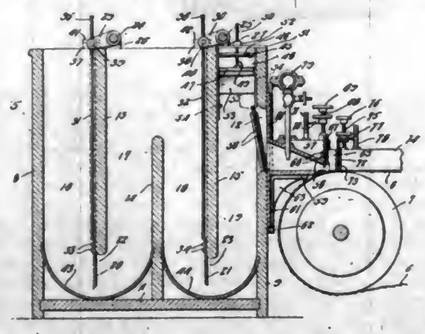
1. In a device of the character described including a walking beam adapted to reciprocate a pump rod, the combination of a shock absorbing device arranged adjacent the pump rod and adapted to cushion the down stroke of the rod, said device comprising a piston pivoted at its lower end, and a cylinder telescoping over said piston secured to said beam, said cylinder being of materially larger capacity than the volume of said piston and filled with air under pressure.

1,662,225. FLOATING DECK FOR LIQUID-STORAGE TANKS. JOHN H. WIGGINS, Bartlesville, Okla. Filed Mar. 26, 1923. Serial No. 627,835. 11 Claims. (Cl. 220—26.)



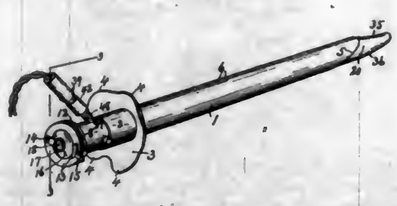
1. A floating deck for liquid storage tanks, comprising a central body portion that normally floats upon the liquid in the tank, a variable peripheral portion for closing the space between said central body portion and the side wall of the tank comprising segmental shoe members arranged with their lower edge portions submerged in the liquid in the tank and having no direct connection with said central body portion, substantially the entire area of said shoe members being disposed in parallel relationship with and in sliding engagement with the side wall of the tank, and means for sustaining or supporting said shoe members from said central body portion constructed so as to permit relative movement of said shoe members and body portion without destroying the parallel relationship between said shoe members and the side wall of the tank.

1,662,226. PAPER-MAKING MACHINE. GEORGE S. WITHAM, Jr., Hudson Falls, N. Y. Filed May 24, 1926. Serial No. 111,407. 10 Claims. (Cl. 92—46.)



1. In a paper-making machine, the combination with the web-forming part, of a head-box for the liquid stock and having an opening in the front wall thereof, a nozzle apron and slice adjustably mounted as a unit on said wall over the opening therein, and a compartment in the head-box communicating with the latter and the nozzle, said compartment having walls extending upwardly above the nozzle and slice to provide a pond or storage space in which the level of the liquid stock may be maintained above the nozzle, slice, and web-forming part.

1,662,227. SURGICAL INSTRUMENT. WILLIAM NOAH ALLYN, Auburn, N. Y. Filed Feb. 25, 1925. Serial No. 11,495. 4 Claims. (Cl. 128—7.)

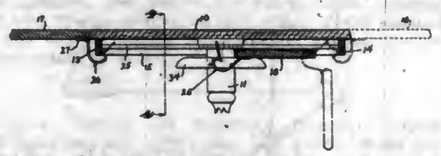


1. A surgical instrument of the character described, comprising a tubular section and an obturator section detachably interlocked with the distal end of the tubular section and provided with a smooth unbroken and continuous surface.

1,662,228. EXTENSION LEAF CONSTRUCTION FOR TABLES. DANIEL G. ANDERSON, Los Angeles, Calif., assignor to Anderson Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 23, 1926. Serial No. 89,861. 5 Claims. (Cl. 45—113.)

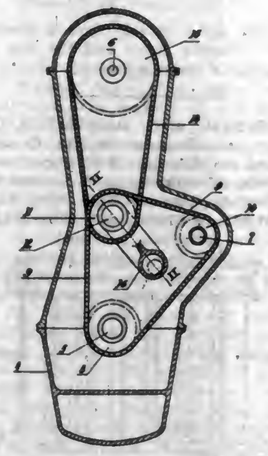
1. An extension table including a stationary table top, depending aprons around the edge of the table top, a leaf movable with relation to the table top and having an edge adapted to register with the table top edge.

guide rods secured to the table beneath the table top, hinges for the leaf including a hinge member slidably mounted on one of said rods and a second hinge member



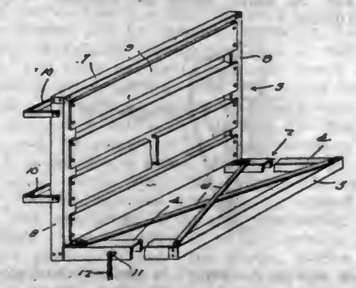
secured to the leaf near its said top meeting edge, the first mentioned hinge member adapted to extend under and around the depending apron of the table top.

1,662,229. APPARATUS FOR REGULATING THE TENSION OF CHAINS. ERNEST MAURICE BALLOT, Paris, France. Filed Nov. 30, 1926, Serial No. 151,791, and in France Jan. 29, 1926. 3 Claims. (Cl. 64—5.)



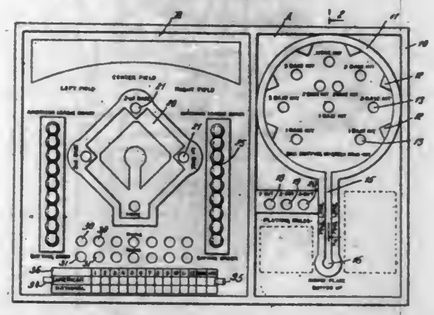
1. A device for regulating the tension of two chains comprising a stationary frame, journals formed in said frame, an axle carried by the journals and being eccentric with respect to said journals, a forked bracket loosely mounted upon the axle and adjustable for pivotal movement about the same, and a shaft carried by said bracket and having a pair of adjacent and interconnected pinions adapted to receive the chains whereby through rotation of the eccentric axle and the pivoted action of the forked bracket, said shaft with the pinions may be brought into a position in which the chains will be properly stretched one independently from the other.

1,662,230. BOTTLE-DISPENSING-MACHINE ATTACHMENT. JOHN D. BENCH, Okmulgee, Okla. Filed Oct. 11, 1926. Serial No. 140,867. 2 Claims. (Cl. 312—35.)



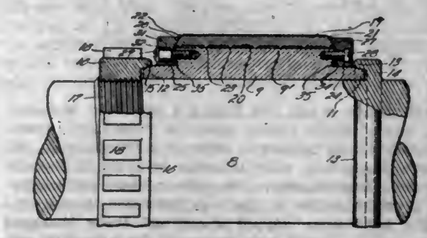
1. In a device of the class described, an attachment comprising a base adapted to rest upon the top of a bottle machine dispensing cabinet, an upright connected with said base and extending at right angles thereto and adapted for cooperation with bottle containing pockets in a bottle rack, and retaining means for said base and upright.

1,662,231. GAME. THOMAS BRADY, East Orange, N. J. Filed May 5, 1926. Serial No. 106,834. 7 Claims. (Cl. 273—88.)



1. A game board having a playing field, a raised border around said field, depressions scattered in said field and an elongated substantially straight runway leading to said field and alined with the center thereof, said runway having an enlargement at the end thereof remote from the field adapted to support a spherical member, and penalty spaces adjoining said runway.

1,662,232. PRINTING-PLATE HOLDING MEANS. CHARLES M. BREMNER, Chicago, Ill. Filed Apr. 17, 1926. Serial No. 102,635. 8 Claims. (Cl. 101—374.)



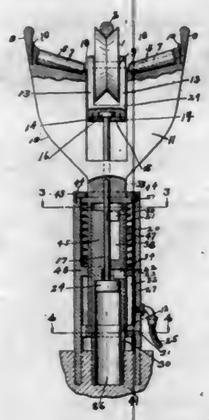
8. In combination, a printing roller provided with an arcuate printing plate support having a shoulder on its lateral edge, a plate retaining member adapted to engage a plate, and a shoulder on said member adapted to co-act with the shoulder on the plate support to reinforce said member against outward strains.

5. The method of inserting a fudge plate between the retaining members of a printing roll at least one of which is resiliently mounted which consists in placing the plate on the circumference of the roll, slightly separating the retaining members and inserting said plate between said members by endwise circumferential sliding movement.

1,662,233. TROLLEY-WHEEL CARRIER. CLARENCE W. BROWN, Los Angeles, Calif. Filed Dec. 15, 1924. Serial No. 756,072. 12 Claims. (Cl. 191—60.)

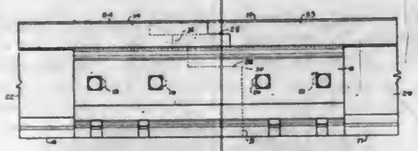
1. In a device of the character described, the combination, with a trolley wheel, for cooperation with a trolley wire of a piston, connection between the piston and wheel for supporting the latter from the piston, a

cylinder within which the piston operates, a source of fluid under pressure, a valve controlling the supply of pressure fluid to the cylinder, and means operated by



the trolley wire when it leaves the wheel for shifting the said valve to cause the wheel to be moved into position for again receiving the trolley wire.

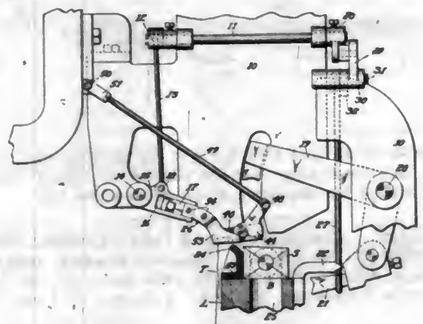
1,662,234. RAIL JOINT. GEORGES CHAGNON, Mitchell Station, Quebec, Canada. Filed Mar. 12, 1927, Serial No. 174,928, and in Canada Mar. 16, 1927. 1 Claim. (Cl. 238—235.)



In rail joints, a rail end having a rail head V-shaped tongue and a similar tongue undercut immediately therebelow and a web extension projecting from behind the rearmost tongue to a short distance from the end of the lower and rearmost tongue, the web and base end surface being at right angles to the web extension, a rail end having a head with stepped upper and lower V-shaped recesses and a slotted web receiving the aforesaid web extension and bringing all web end surfaces into contact, the vertical joints between rail ends being widely separated and brought under the heads by means of the web extension from one rail and joint plates securing said rail ends and bringing the major joint in a double Z-shape formed by the two heads and bridging the principal head joints across said web extension.

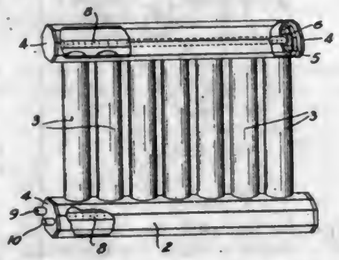
1,662,235. THREAD CUTTER FOR WEFT-REPLENISHING LOOMS. AUGUSTIN J. CHEVRETTE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1926. Serial No. 127,695. 5 Claims. (Cl. 139—264.)

1. In a thread cutter for a weft replenishing loom having a lay, a shuttle feeler pivoted to the mechanism above and behind the lay when the latter is in its forward position and normally located above the shuttle as the lay moves back and forth, a thread cutter mounted on the forward end of the shuttle feeler and having a member pivotally mounted on the shuttle feeler, a link connected at one end to the pivoted cutter member and having the other end fixed, and means operated by the replenishing mechanism to lower the shuttle feeler, the



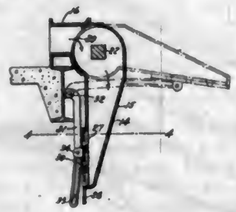
link opening the cutter as the feeler is lowered and the lay raising the shuttle feeler and the link closing the cutter as the shuttle feeler is raised.

1,662,236. STEAM AND HOT-WATER RADIATOR. ERNST COUPLAND, Toronto, Ontario, Canada, assignor of one-fourth to Edmund McGillivray, one-fourth to Henry Edwin Silverthorne, and one-fourth to Frank Osborne, Toronto, Canada. Filed Sept. 11, 1926. Serial No. 134,877. 1 Claim. (Cl. 257—154.)



A radiator section formed of sheet metal and comprising upper and lower tubular headers and tubes extending between the headers and welded thereto to form an integral unit, closures for the open ends of the headers, and a perforated tubular spacer extending longitudinally through each of the headers and slidably held at its ends in the closures to permit of the free expansion and contraction of the headers.

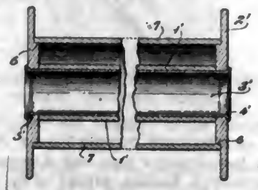
1,662,237. ASH-DISCHARGE MECHANISM FOR MECHANICAL STOKERS. FRED H. DANIELS, Worcester, Mass., assignor to Sanford Riley Stoker Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1922. Serial No. 556,653. 7 Claims. (Cl. 110—165.)



7. In a stoker, a support, a hollow ash-discharging member mounted on said support for movement from an upper ash-supporting position to a lower ash-discharging

position and having grate openings in its upper face, means for supplying air to said member to eject refuse from within said member when said member is in lowered position, and means for automatically reducing the area of the opening through which air is supplied to said member during the raising of said member to upper operative position.

1,662,238. SPOOL OR BOBBIN. HOMER J. DAVIS, Wilmington, Del. Filed Mar. 23, 1927. Serial No. 177,721. 2 Claims. (Cl. 242—118.)



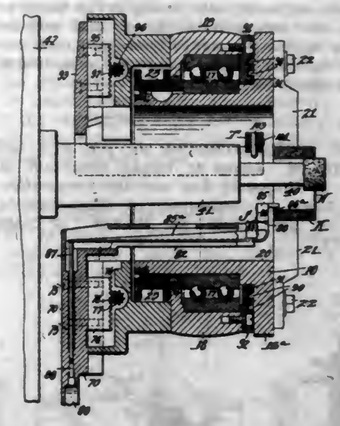
1. As an article of manufacture, a spool consisting of coaxially disposed barrel like bodies of different cross sectional sizes, the smaller of said barrels being arranged within the other and in relatively spaced relation to the same, heads adjacent the opposite extremities of said barrels having portions of their inner sides formed with shouldered parts adapted to snugly and bindingly receive the adjacent opposite ends of the larger barrel thereover, such barrels and heads being each formed of a hardened composite material, and a tubular metal element bindingly received in and extended through the innermost and smaller of said barrels, said elements being of a length greater than the length of either of the barrels and having its extremities extended for distances beyond the adjacent ends of that barrel receiving the same and having said heads engaged over the same and the extremities of the barrel being outwardly swaged upon themselves whereby to bindingly and clampingly engage adjacent portions of the barrel to bindingly and clampingly secure the same with respect to each of said barrels.

1,662,239. BOTTLE CLOSURE. HARRY DE WALLACE, Syracuse, N. Y., assignor to Kleen Kap Corporation, Syracuse, N. Y., a Corporation of New York. Filed Mar. 18, 1927. Serial No. 176,522. 1 Claim. (Cl. 215—38.)



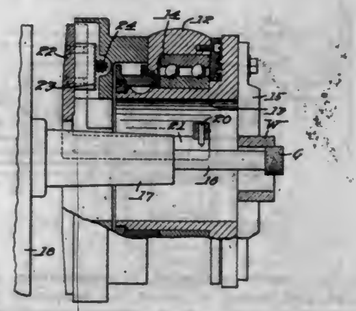
In a bottle closure, a body having a plane disk-like central portion and an upwardly extending convex reinforcing rib defining the marginal edge of said central portion, said body having an upwardly facing annular V-shaped groove concentric with and spaced from said rib, said body having a second V-shaped groove formed in its under face and concentric with the first named groove, and the portion of the body extending beyond the last named groove being formed to provide a relatively broad convex apron having inwardly extending radially disposed grooves overlying the second named groove and connecting with and terminating at the first named annular groove, all of said grooves forming weakened portions whereby the central portion of the body may be forced into the bottle mouth and the apron portion of the body conformed to overlie the bead of the bottle.

1,662,240. INTERNAL-GRINDING MACHINE. ALDEN M. DRAKE, Greenfield, Mass., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Feb. 27, 1926. Serial No. 91,208. 17 Claims. (Cl. 51—165.)



1. An internal grinding machine comprising a frame, a work supporting spindle having a relatively large axial opening therethrough, said spindle being adapted to receive and support a piece of work at the front end thereof having a cylindrical opening aligned with said spindle opening and of less internal diameter, a bearing support for said spindle, a grinding wheel, a wheel shaft, a wheel head mounted on said frame at the rear of said work spindle with said wheel shaft projecting into said axial opening and said wheel adapted to enter and leave the work from the rear side thereof, means to cause relative axial movement of the wheel and work, and a size indicating device also extending through said spindle into the work from the rear and effective to give an indication of the internal diameter of the work during the grinding operation, the axial opening through the spindle being of a size sufficiently large to freely receive said grinding wheel and indicating device.

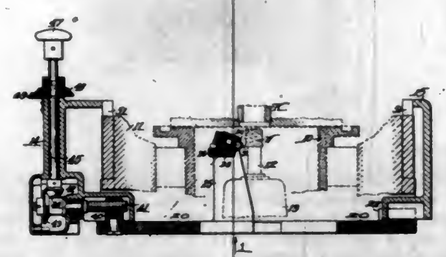
1,662,241. METHOD AND APPARATUS FOR GRINDING INTERNAL SURFACES. ALDEN M. DRAKE, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed May 8, 1926. Serial No. 107,749. 7 Claims. (Cl. 51—48.)



1. In an internal grinding machine, a frame, an annular work-supporting member, a bearing support therefor, means to secure the work to said member, a grind-

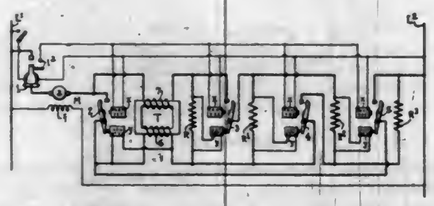
ing wheel, a wheel head positioned at the rear of said work-supporting member, a wheel shaft mounted in said head and projecting therefrom into said work-supporting member to present said wheel at the rear face of said work, a truing device for the wheel at the rear of the work, and means to cause relative axial travel between the wheel and work, said truing device being positioned between the work and the wheel head and being continuously spaced rearwardly from the rear face of the work a distance greater than the axial width of the grinding wheel face.

1,662,242. WHEEL-TRUING DEVICE FOR GRINDING MACHINES. ALDEN M. DRAKE, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1927. Serial No. 213,948. 10 Claims. (Cl. 125—11.)



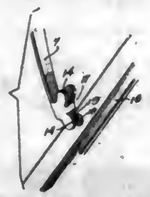
1. In a grinding machine having a work head, a hollow work-supporting spindle rotatably mounted in a bearing therein and a grinding wheel mounted for axial withdrawal from the work within said hollow spindle, a cross slide mounted at the rear of said work head and having a slide bearing at both sides of the work spindle axis, said slide having a portion projecting forward within said hollow spindle, and a truing device supported on said forwardly projecting portion.

1,662,243. CONTROLLER FOR ELECTRIC MOTORS. CLARENCE T. EVANS, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 8, 1922, Serial No. 559,187. Renewed Aug. 4, 1924. 10 Claims. (Cl. 172—288.)



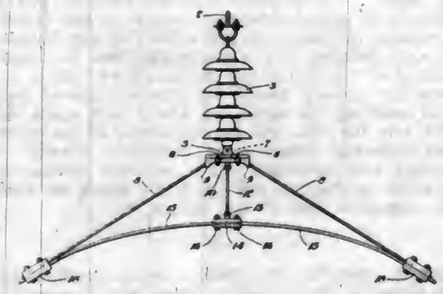
1. In a motor controller, in combination, accelerating means, and means to arrest for temporary periods the accelerating action of the former means in different stages thereof, the latter means including inductive windings and commutatable connections providing for inclusion of said windings in circuit alternately as acceleration progresses.

1,662,244. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed May 13, 1925. Serial No. 30,000. 6 Claims. (Cl. 15—253.)



5. A windshield wiper element for being readily connected to an operating arm having a part the cross section of which has a major axis and a minor axis, said element comprising a flexible wiping strip and a rigid backing strip, the latter having a part formed with a recess having a relatively narrowed entrance.

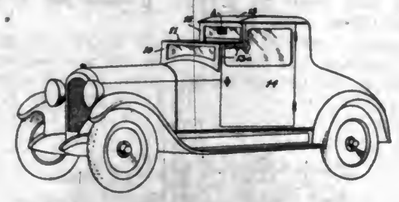
1,662,245. YIELDABLE CONNECTER FOR ELECTRIC CABLES. CHAUNCEY MARSH GOODRICH, Windsor, Ontario, Canada. Filed June 14, 1927. Serial No. 198,845. 4 Claims. (Cl. 173—251.)



3. A yieldable connecter for suspending electrical conductors from overhead supports, comprising an insulator string, a suspension cable slidably supported on said insulator string for movement in a direction parallel with the direction of the conductor, said cable being clamped to said conductor on the opposite sides of said insulator string at points materially beyond said string, and a suspension link secured to said insulator string and said conductor and adapted to break under abnormal loads such as caused by the breaking of the conductor between its points of suspension, and said cable being of such length that it will move relative to the insulator string sufficiently to permit the next unbroken span of the conductor to have such increased sag as may be desired, in order to reduce the tension in the cable to a predetermined amount.

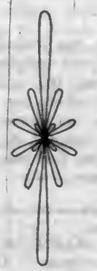
1,662,246. AUTOMOTIVE VEHICLE CONSTRUCTION. JACOB M. GOLDBERG, Brooklyn, N. Y. Filed Sept. 15, 1927. Serial No. 219,602. 3 Claims. (Cl. 296—84.)

1. In a closed-type automobile body having a roof, a forward structure of stepped form transverse to the body below said roof, said structure having a steering-wheel-hooding lower portion and a windshield superstructure joined at its top to said roof, in combination with a driver's seat in the body adapted to bring the eye of a driver on said seat into close proximity with a transparent element of said superstructure whereby the visual angle is hardly decreased from 180° (by side post obstruction) while the vision area of said element is



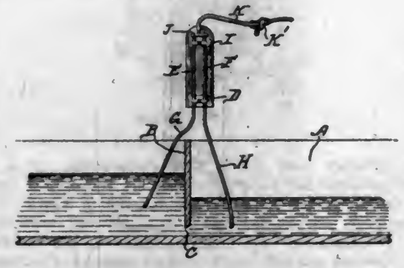
greatly decreased over that required in present day structures, said forward structure including L-shaped side frames.

1,662,247. METHOD AND ARRANGEMENT OF DIRECTIONAL WAVE RECEPTION AND EMISSION. WALTER HAHNEMANN, Kitzeberg, near Kiel, and HEINRICH HECHT and BERNHARD NIELSEN, Kiel, Germany, assignors to Signal Gesellschaft mit beschrankter Haftung, Kiel, Germany, a Firm. Filed Sept. 26, 1925, Serial No. 58,943, and in Germany Oct. 6, 1924. 6 Claims. (Cl. 181—05.)



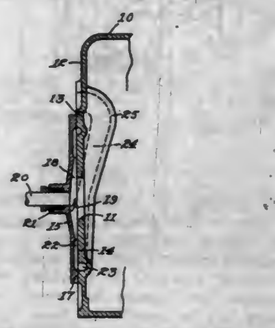
2. A method of reducing the base length in binaural reception which consists in spacing receiving units at proper distances from each other, using as the left base a plurality of units commencing from the left end of the base, using as the right base an equal number of units commencing from the right base, said number of units being greater than half the whole number of units.

1,662,248. WEIR DIFFERENTIAL GAUGE. CLARENCE C. JACOB, Myton, Utah. Filed Aug. 25, 1920. Serial No. 405,982. 1 Claim. (Cl. 73—31.)



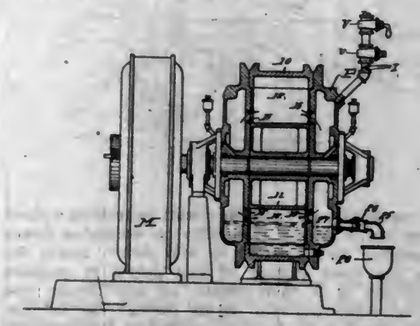
A gauge for measuring the volume of water flowing through an orifice in a dam or weir embodying a plurality of tubular members the intake ends of which are adapted for independent immersion in the water above and below said dam or weir, a plurality of observation tubes composed of transparent material, said observation tubes being connected with said tubular members respectively for communication therewith, a base to which the observation tubes are fixedly attached and to which said tubular members are connected at their ends adjacent to the observation tubes, a chart on the base the calibrations of which are readable through said transparent observation tubes, a connecting member uniting the upper ends of the observation tubes, and a valved exhaust connection in communication with the connecting member and with the observation tubes for exhausting air from said observation tubes concurrently and affording means for admitting air to said tubes.

1,662,249. CASING FOR IMPELLER-TYPE WATER PUMPS. IRVING C. JENNINGS, South Norwalk, Conn. Filed Apr. 13, 1926. Serial No. 101,828. 5 Claims. (Cl. 103—1.)



1. A pump casing comprising a supporting wall with an inlet opening to the pump and an exhaust opening from the pump formed therethrough and an exhaust conduit formed thereon and having a flat finished surface around said inlet opening, said surface forming a bearing for the casing cover and also forming one side of the pump impeller chamber, and a cover plate, having an annular flat finished surface engaging the flat bearing surface of said side wall, said cover plate being recessed within said annular flat surface to form the outer side wall of the pump impeller chamber, said impeller being located substantially within the confines of said cover plate.

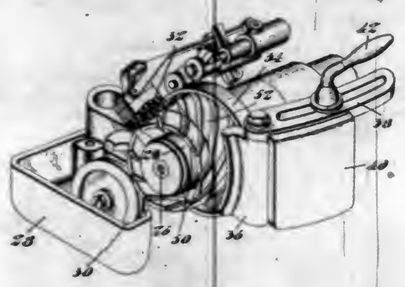
1,662,250. METHOD AND APPARATUS RELATING TO MOTOR-DRIVEN PUMPS. IRVING C. JENNINGS, South Norwalk, Conn. Filed June 11, 1926. Serial No. 115,873. 11 Claims. (Cl. 230—79.)



1. The method of operating a motor driven gas pump employing a liquid for its pumping action, which consists in unloading the pump by removing a substantial portion

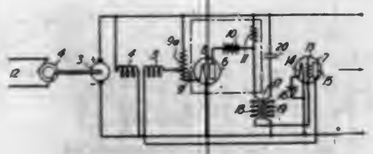
of pumping liquid when the pump is stopped, starting the pump with a greatly reduced supply of operating liquid therein, and thereafter gradually restoring the operating liquid as the pump attains normal operating speed.

1,662,251. FINISHING TOOL. FRANK A. E. MARSH, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 27, 1926. Serial No. 91,153. 11 Claims. (Cl. 12—79.5.)



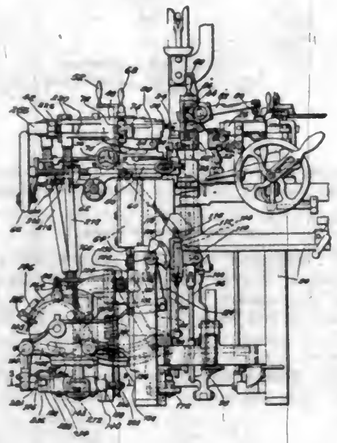
11. A finishing tool for the application of melted wax to the leather base section of a shoe to which a rubber top-lift section has been applied comprising sectional work-rubbing members having a generally conical contour, a wax guard arranged to overhang the larger end of said conical tool thereby to prevent scattering of wax from said tool by centrifugal force, the surface of said tool being divided into a restricted finishing area suitable for the application of wax to the heel base section of said shoe and a relieved area arranged to avoid the application of wax to the rubber heel toplift section, and means for spreading wax over the surface of said tool, said tool being constructed and arranged so that the relieved section of its surface merges gradually into the work-rubbing section of the surface whereby said spreading means is enabled to return to the work-contacting surface of the tool wax carried over into the relieved section of the tool.

1,662,252. ELECTRIC REGULATOR. EDMUND R. MORTON, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 12, 1925. Serial No. 14,930. 24 Claims. (Cl. 171—312.)



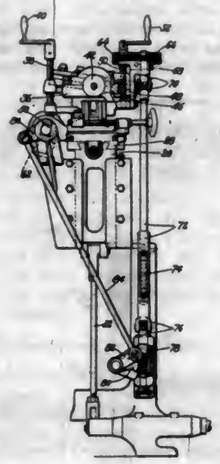
1. A regulator for an electric circuit comprising a space discharge device having a plurality of electrodes, means for supplying space current to said device, means for varying the space current of said device in response to variations in a characteristic of said circuit, and means for regulating said circuit through the intermediary of variations in the space current of said device to limit said variations in a characteristic of said circuit and for simultaneously varying the space current of said device to give a cumulative regulating effect.

1,662,253. MACHINE FOR SHAPING UPPERS OVER LASTS. ARTHUR F. PYM, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 16, 1923, Serial No. 625,592. Renewed Feb. 2, 1927. 120 Claims. (Cl. 12—14.)



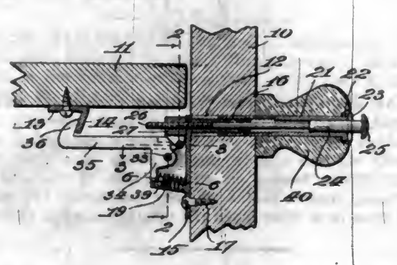
65. Wiper mechanism comprising, in combination, an adjustable support, a sleeve mounted in the support for angular adjustment about its longitudinal axis, wipers and wiper-carriers mounted on the sleeve, a wiper-closing rod mounted to slide in the sleeve, mechanism for moving the sleeve in the support to advance the wipers, and additional mechanism for independently moving the rod for closing the wipers.

1,662,254. LASTING MACHINE. ARTHUR F. PYM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 3, 1926. Serial No. 85,680. 9 Claims. (Cl. 12—14.)



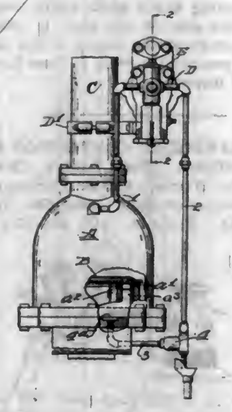
1. In a machine of the class described, the combination with last and shoe positioning means, toe-embracing wipers, and means for imparting to said wipers upwiping movement in a variably predetermined direction heightwise of the toe of the shoe, of mechanism for determining the direction of the upwiping movement of the wipers by the lateral slope of the bottom of the forepart of the last.

1,662,255. PUSH CATCH FOR DOORS. THOMAS F. STUART and HENRY A. MOORE, Los Angeles, Calif. Filed Oct. 20, 1926. Serial No. 142,843. 4 Claims. (Cl. 292—127.)



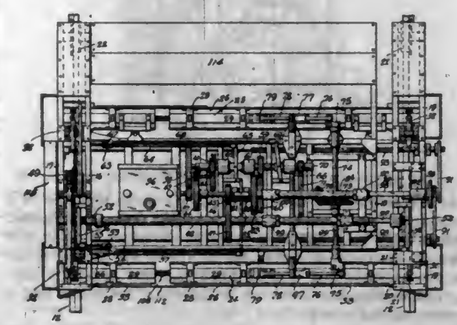
1. A door latch comprising a tubular housing that is adjustable in length, a knob removably mounted on the outer portion of said tubular housing, a plate at the inner end of said housing, which plate is adapted to be secured to the door to which the latch is applied, a latching hook pivotally mounted on said plate, a push rod passing through the tubular housing, a member adjustably mounted on the inner end of said push rod and bearing on the inner portion of the latching hook above its pivot and a spring bearing on the inner portion of said hook below its pivot.

1,662,256. ACCELERATOR FOR DRY-PIPE SPRINKLER SYSTEMS. EMIL TYDEN, Evanston, Ill. Filed Aug. 23, 1924. Serial No. 733,067. 7 Claims. (Cl. 169—2.)



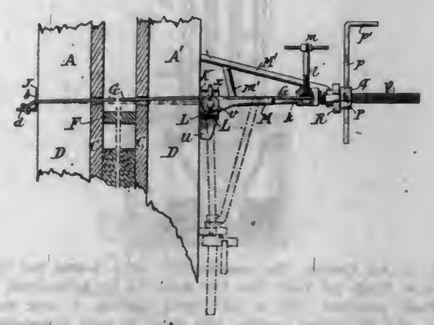
1. In combination with a dry pipe sprinkler system and main valve thereof constructed for exposing differential areas to the air pressures respectively and having for that purpose at the water inlet side a chamber in which the pressure is normally substantially atmospheric, a passage leading from the air pressure region of the system to said chamber; an expansible and reducible device; means transmitting air pressure from said region of the system to different areas of a movable wall of said device in opposition to each other for determining a movement of the movable wall by the dominance of the pressure on one of said areas over that on the other area, said means comprising two passages affording unequal access for said pressure to said areas, respectively; two valve seats at which respectively the access of pressure from the air pressure region of the system to the atmospheric pressure chamber and to said areas of the expansible and reducible device is controlled; valve means positioned for moving between said two seats and connections operated by the moving wall of said device for shifting said valve means from one to the other of said seats.

1,662,257. ADJUSTABLE WIDENING ATTACHMENT FOR CONCRETE-ROAD FINISHERS. FRANCESCO VALERIO, Stamford, Conn. Filed Mar. 16, 1927. Serial No. 175,799. 7 Claims. (Cl. 94—45.)



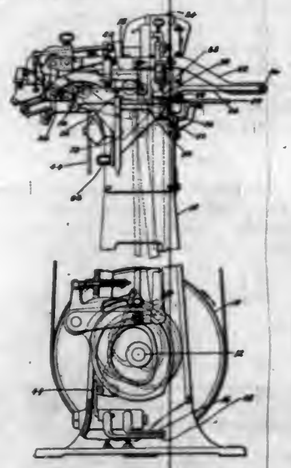
1. In a road finishing machine, a frame, wheels for carrying said frame mounted to run on rails at opposite sides of the road being finished, means for mounting one set of wheels so that they are shiftable laterally toward and from the other set to run on differently spaced rails, means for driving the wheels to advance the machine, and means operated by said driving means to shift said adjustable set of wheels laterally to permit the machine to run on differently spaced rails.

1,662,258. WIRE CLAMP FOR CONCRETE FORMS. ROWLAND T. WALES, New Rochelle, N. Y., assignor of one-half to Arthur C. Fraser, New York, N. Y. Filed May 12, 1923. Serial No. 638,585. 17 Claims. (Cl. 25—131.)



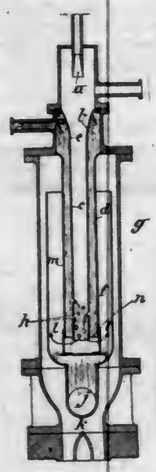
1. A wire clamp for concrete forms comprising anchors on opposite sides of the form, a wire attached to one anchor, and a tightener engaging the wire and the other anchor for tautening the wire, the latter anchor having an integral fixed portion adapted to grip the taut wire while held by said tightener.

1,662,259. HEEL-SEAT-FITTING MACHINE. ERNEST A. WILLIAMS, Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 13, 1926. Serial No. 80,948. 18 Claims. (Cl. 12—17.)



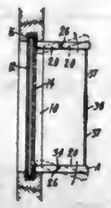
1. A stock-cutting machine having a knife movable in a rectilinear path, and work-deforming means arranged positively to hold different parts of the stock on opposite sides of the path of movement of the knife, said deforming means including a hold-down member arranged during the cutting operation to lie between the knife and a portion of the stock.

1,662,260. STEAM EJECTOR WITH COOLED DIFFUSER. ALBERT DELAS, Paris, France. Filed Oct. 31, 1918, Serial No. 260,601½, and in France Sept. 6, 1918. 37 Claims. (Cl. 230—102.)



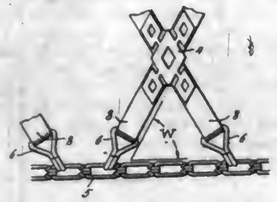
1. In an ejector, the combination of a nozzle for the motive fluid, an inlet for the fluid to be exhausted, a diffuser provided with a converging portion, a neck portion and an outlet portion, the inlet of said converging portion having a cross sectional area greater than that of any other portion of said diffuser and means comprising a cooling jacket surrounding all portions of said diffuser for condensing the motive fluid which is in excess of working conditions required in any portion of the diffuser.

1,662,261. AWNING STRUCTURE. WILLIAM G. DUNN, Clarinda, Iowa. Filed Aug. 1, 1927. Serial No. 209,833. 8 Claims. (Cl. 156—15.)



1. An awning structure including a sheet of awning material, a pair of supporting brackets pivotally connected to said sheet, tension means connecting said brackets together and tending to swing them upon their pivots, flanges formed on said brackets on the side opposite said tension means whereby the flanges are moved away from each other when the tension means is effective.

1,662,262. ANTISKID DEVICE. CHARLES C. GATES, Denver, Colo. Filed Aug. 5, 1927. Serial No. 210,875. 1 Claim. (Cl. 24—237.)



A device of the class described composed of a section of material formed into an eye between its ends, the parts being brought into contact beyond the eye to form a straight shank and bent into a hook beyond the shank, one of the contacting shank parts being longer than the other, so that one side of the hook is offset from the other in the direction of the length of the shank to give the hook parts a potential bearing in lines forming oblique angles with said direction.

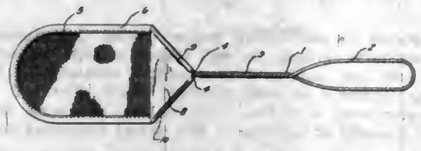
1,662,263. ANTIFREEZING CONNECTION FOR TANKS AND REGULATORS. JOHN HARRIS, Cleveland, Ohio, assignor to The Harris Calorific Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 29, 1921. Serial No. 525,618. 1 Claim. (Cl. 62—92.)



The combination with a gas tank having a valve controlled outlet, of a regulator, a relatively short rigid connection interposed between said outlet and regulator and

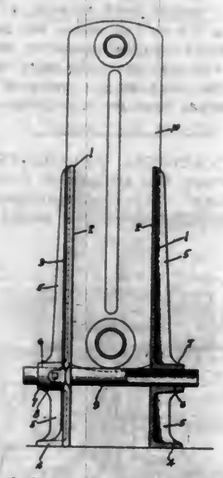
having sufficient rigidity to sustain the weight of the regulator and its associated parts, said connection comprising an annular member having an enlarged receiving portion and a restricted discharge portion, the receiving end of said connection being threaded for the reception of a gland nut for connecting the same with said gas tank, the opposite end of said connection being adapted for connection with said regulator, said connection having a plurality of temperature equalizing ribs projecting from the exterior surface thereof thereby to neutralize the cooling effect due to the expansion of the gas flowing through said connection.

1,662,264. FLY SWATTER. EDWIN L. HENDERSON, Wausau, Wis., assignor to Wilson-Hurd Company, Wausau, Wis., a Corporation of Wisconsin. Filed July 8, 1927. Serial No. 204,241. 2 Claims. (Cl. 43—187.)



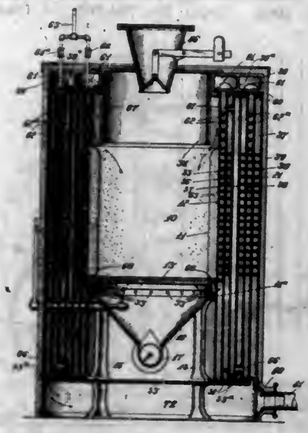
1. A fly swatter comprising a handle having arms, a striking member having portions engaged with the arms and a single piece sheet metal casing covering the arms and the lower end of the striking member, said casing having an intermediate bight portion of closed formation which embraces and secures a portion of the striking member to one of said arms and having a single set of overlapping ends for securing the striking member to the other arm.

1,662,265. RADIATOR STAND. EDWARD L. HESSEL, Minneapolis, Minn., assignor to American Plumbing & Heating Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Feb. 15, 1926. Serial No. 88,326. 2 Claims. (Cl. 248—41.)



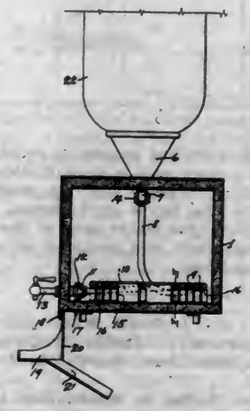
2. A device of the class described, a pair of elongated longitudinally reinforced radiator-supporting stand members, each having a foot, and each having a wedge-like radiator engaging portion above the foot, and a cross brace receiving opening intermediate the foot and wedge-like engaging portion, extending at a right angle to said portion, and each having a set screw adapted to enter said opening, and a cross brace traversing said openings for permitting adjustment of the members toward and away from one another, and said openings arranged below the level of the bottom of the units of the radiator supported by the device.

1,662,266. GAS-PRODUCING APPARATUS. VINCENT D. MCDONNELL, Chicago, Ill. Filed June 20, 1921. Serial No. 478,826. 12 Claims. (Cl. 48—64.)



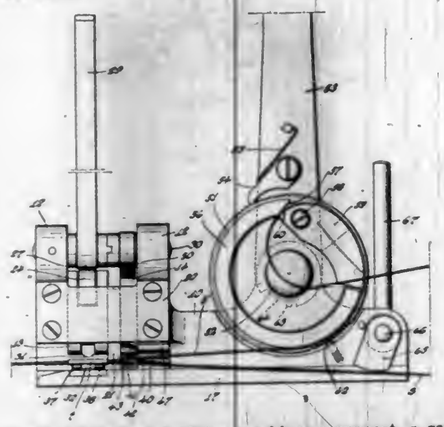
10. A gas producer of the character described, the interior whereof is provided with a fuel magazine in the upper portion and with a gas generating chamber in the lower portion thereof, the producer being provided with longitudinally chambered walls constituting, respectively, a plurality of steam generating and a plurality of gas conveying passages, with the gas conveying passages being disposed about the steam generating passages, regulable means for introducing water at a selective point in certain of the steam generating passages, means for introducing the generated steam in minute jets into the interior of the gas generating chamber at a point beneath said chamber, and a gas receiving chamber in the lower part of the producer beneath the gas generating chamber and the steam generating passages and communicating with the final gas passage.

1,662,267. WATER COOLER. WILLIAM C. HORNER, Memphis, Tenn. Filed May 18, 1925. Serial No. 30,924. 2 Claims. (Cl. 62—147.)



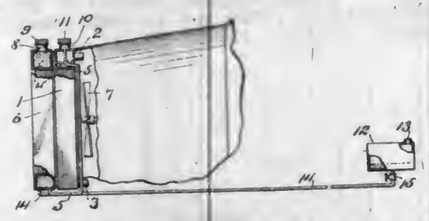
2. A water cooler, comprising an ice chamber, a water pipe therewithin having a horizontally-coiled section disposed above the bottom, an ice support, and resilient means for supporting said coil substantially flush with the top of said ice support.

1,662,268. BOX-STRAP-APPLYING MACHINE. LEON S. HOWE, Hartford, and JOHN J. HOLLOWAY, New Britain, Conn., assignors to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 28, 1924. Serial No. 734,701. 8 Claims. (Cl. 81—9.1.)



1. In a box-strap applying machine, a support, a sealing device thereon including a fixed die and a movable die between which the sealing member encircling the strap end is adapted to be interposed, severing mechanism on said support at the side of said dies and including a fixed knife and a movable knife between which one end of the strap is adapted to be interposed, a pair of cams journaled to rotate in unison and extending in opposite directions, one of said cams being above the movable die and adapted to engage the same, and the other of said cams being above said movable knife and adapted to engage the same, and a handle for rotating said cams.

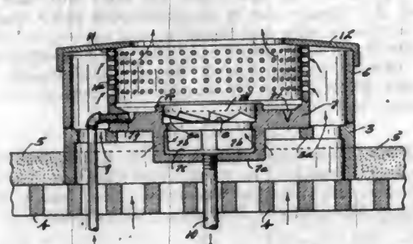
1,662,269. ENGINE-COOLING MEANS. PHILIP L. HOWE, Wilson, Tex. Filed Feb. 11, 1927. Serial No. 167,433. 5 Claims. (Cl. 123—174.)



1. In an engine cooling means, a liquid containing radiator having a vapor vent, a liquid containing condenser closed to the atmosphere and into which said vent discharges below the liquid level therein, and liquid receiving and containing means open to the atmosphere and communicating with said condenser below the liquid level in the condenser.

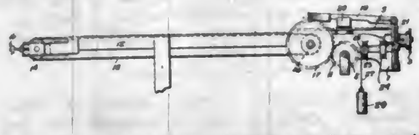
1,662,270. OIL BURNER WITH AIR-WHIRLING MEANS. ARTHUR R. JEPSON, Minneapolis, Minn. Filed Mar. 7, 1925. Serial No. 13,718. 1 Claim. (Cl. 158—91.)

An oil burner having in combination, a cylindrical shell adapted to rest on the grate bars of a furnace having a supporting means inward of its wall, a bottom fire pot section resting on said supporting means comprising a cup-shaped lower central portion having openings through its sides, said section having a central opening above said cup-shaped portion for the passage of air, means in said latter opening for giving said air a whirling motion, said section having an annular channel surrounding said last mentioned means adapted to receive oil, a pipe for supplying oil to said channel, a cylindrical shell forming the upper fire pot section



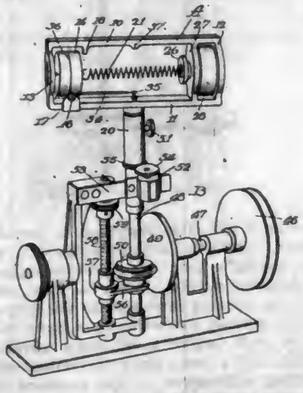
supported on said bottom section having a multiplicity of apertures through the wall thereof, a shell supported on said first mentioned shell and of substantially the same diameter as said first mentioned shell and an annular cover extending over said last mentioned shell and inwardly of the edge of said second mentioned shell.

1,662,271. TRANSFERRING MACHINE FOR BOTTLE CLOSERS. JOHN A. JOHNSON, New York, N. Y. Filed Feb. 25, 1925. Serial No. 11,498. 1 Claim. (Cl. 198—31.)



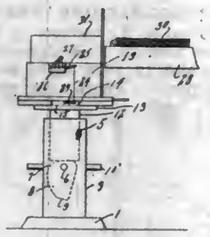
A transferring machine comprising a frame, a table thereon, means for revolving said table, a stationary bracket over said table, a pusher bar slidably mounted in said bracket, a pusher head thereon, a latch pivoted on said bracket, a pin on the pusher bar adapted to engage the latch, means for reciprocating the pusher bar whereby the pin will pass under the latch on the forward stroke and over the latch on the rearward stroke thereby raising the pusher head on said stroke.

1,662,272. EDUCATIONAL APPARATUS. PAUL E. KLOPSTEG, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1926. Serial No. 89,651. 14 Claims. (Cl. 35—12.)



1. In a centrifugal instruction device, a rotating support, a mass of simple and regular geometric form rotating with the support and mounted to permit outward movement under the action of centrifugal force, means for establishing a definite radius of rotation indicating that the center of mass is located at a predetermined radius, centripetal force means opposing the outward movement of the mass with centripetal force increasing with the outward movement and means to establish measurable radius of rotation for the center of gravity of the mass of the rotating body.

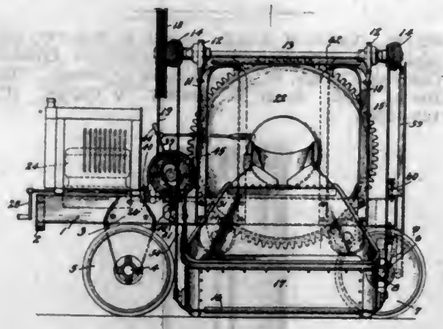
1,662,273. CARTON CHARGER. FRANK KNOEPPEL, Toledo, Ohio, assignor to The Champion No-Leak Paper Dish Company, Toledo, Ohio, a Corporation of Ohio. Filed June 11, 1927. Serial No. 198,151. 7 Claims. (Cl. 226—16.)



1. A base having a guide, a supplemental guide carried thereby and relatively reciprocable, and a support movable relatively to and carried by the supplemental guide.

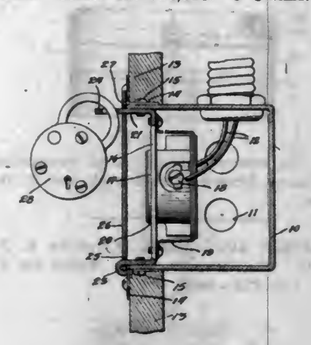
7. A way, a shiftable receiver for a container, a counter actuator carried with the receiver to be actuated by container positioning in the receiver, and a mounting for the receiver permitting shifting of the receiver with the counter independently of actuating the counter.

1,662,274. WORM-DRIVE MIXING MACHINE. PHILIP A. KOEHRING, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Apr. 5, 1924, Serial No. 704,454. Renewed Jan. 27, 1928. 11 Claims. (Cl. 83—73.)



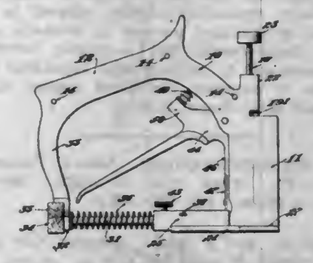
1. In a mixing machine, a portable supporting frame, a mixing drum mounted thereon for rotation, means for operating said mixing drum comprising a gear ring applied to the drum and an assembly unit including, a driving gear engaging said gear ring, a shaft supporting the driving gear, a worm gear on said shaft, a driving shaft, a worm on the driving shaft engaging said worm gear, combined with an engine for operating said driving shaft.

1,662,275. SWITCH BOX. JAMES LESLIE LANE, Chicago, Ill., assignor to Chicago Fuse Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed May 19, 1924. Serial No. 714,216. 5 Claims. (Cl. 247—15.)



3. A switch box comprising, in combination, an apertured box, a support having outwardly bent ends fitting within the open end of said box, means for removably securing said support in place, a plug receptacle mounted on said support, an apertured lug formed on one of the bent ends of said support, a cover plate hinged to the other bent end of said support and adapted to fit next to said lug, and locking means engaging said lug to retain said cover in closed position.

1,662,276. MACHINE FOR SETTING GLAZIERS' POINTS. WILL S. MOWER, Windsor, Vt., assignor to Hubbard & McClary, Windsor, Vt., a Copartnership consisting of Andrew B. McClary and Horace P. McClary. Filed May 3, 1927. Serial No. 188,480. 1 Claim. (Cl. 1—44.)

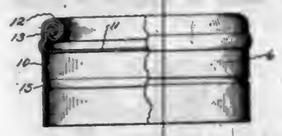


A machine for setting glaziers' points having a frame provided with a handle, a head having a point carrier, a follower supported upon the lower end of a follower rod, and a follower spring embracing the follower rod normally pressing the follower down upon the stack of points carried in the point carrier, the frame being provided with a notch at the upper end of the point carrier to permit turning the follower to one side for the purpose of loading the point carrier with a stack of points.

1,662,277. PAPER CONTAINER. ARLINGTON MOORE, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 31, 1920. Serial No. 400,461. 4 Claims. (Cl. 229—5.6.)

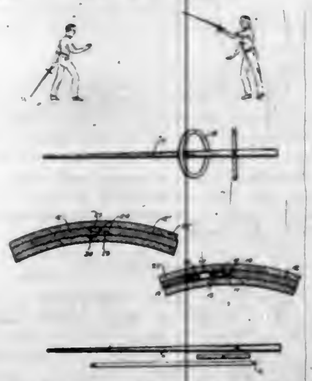
1. In a paper container, a side wall, top and bottom closures therefor, a portion of said side wall being reduced in diameter to form a neck and a ledge with the ledge located below the top closure, a removable cover having a wall constructed and arranged to frictionally

engage said neck, the end of said wall seating on said ledge and forming a continuation of the body portion of the side wall of the container, and interlocking means



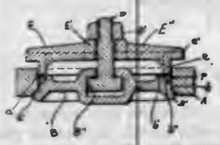
for resisting the removal of said cover comprising complemental grooves formed in said neck and in the wall of said cover.

1,662,278. GAME APPLIANCE. CHARLES A. NELSON, Chicago, Ill. Filed May 19, 1926. Serial No. 110,048. 4 Claims. (Cl. 273—100.)



1. The combination with a split ring, of a spear-shaped member on one end thereof, a longitudinally slitted radially expansible member adapted to axially receive said spear-shaped member to normally effect a connection therebetween, and a pliable covering for said ring arranged to embrace said expansible member to maintain it normally contracted against axial removal of said spear-shaped member.

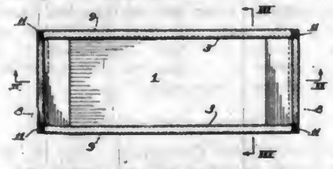
1,662,279. HANDHOLE COVER. JOHN C. PARKER, Philadelphia, Pa. Filed Sept. 2, 1922. Serial No. 586,004. 1 Claim. (Cl. 220—25.)



The combination with a sheet having a hand hole therein, of a cover forming with said sheet an internal continuous ground joint and an external channel, an elastic packing in said channel, and means for pressing said packing in its channel to form a tight continuous external joint.

1,662,280. MORTAR BOX. ELLIOTT E. PERRITT, Pittsburgh, Pa. Filed Apr. 28, 1927. Serial No. 187,148. 3 Claims. (Cl. 220—1.)

3. A mortar box of sheet metal comprising a bottom sheet inclined upwardly at its ends to form the end walls of the box, and a pair of side plates, each secured rigidly at its bottom and end edges to the side edges of said bottom plate, and a reinforcing angle at the upper edge of each of said end walls and each of said side plates, around which angle irons said edges are bent and secured, the angle irons at the ends of the box having their outer flanges throughout the length of said ends at an angle of about ninety degrees to said end walls,



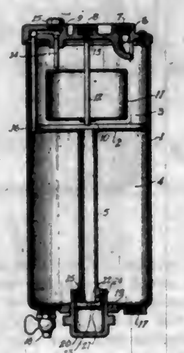
thus providing lifting handles for the box, and said bent upper edges extending past each other and overlapping at the corners of the box and being rigidly secured together.

1,662,281. KNITTING-MACHINE NEEDLE. ROBERT W. SCOTT, Babylon, N. Y., assignor to Scott and Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed May 12, 1922, Serial No. 560,346. Renewed Nov. 24, 1923. 1 Claim. (Cl. 66—13.)



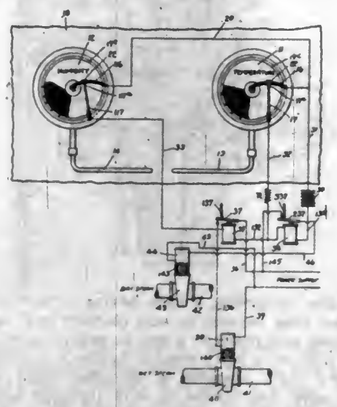
A knitting machine needle having a shank, having a groove on its inner face and carrying a hook at its outer end in combination with a latch slidingly mounted in said groove, the shank of the needle being reduced in thickness at the back at the point where the loop will be held, while the needle is elevated out of knitting action with the point of the latch within the loop.

1,662,282. VACUUM TANK. HARRY G. RITCHEY, Chicago, Ill., assignor to Simplex Automotive Products Company, Chicago, Ill., a Corporation of Oregon. Filed Dec. 1, 1922. Serial No. 604,437. 9 Claims. (Cl. 103—236.)



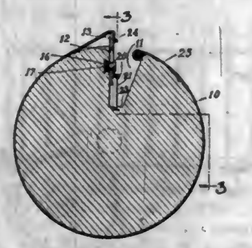
1. In a vacuum tank having a float control suction chamber operable by engine suction, fuel inlet means and suction conduit means and valve ports for said fuel inlet and suction means and means controlled by a float in said suction chamber for alternately opening and closing said ports, a supply chamber located below said suction chamber and having a communication to a carburetor, a well detachably secured to the bottom wall of said supply chamber, a valved tube connection between said suction chamber and said well and extending through said supply chamber, a normally open valve for said tube adapted to be closed by the influence of suction in said suction chamber.

1,662,283. AUTOMATIC AND REMOTE HUMIDITY CONTROL. FREDERICK W. RUBIN and HARRY E. RUBIN, Indianapolis, Ind.; said Harry E. Rubin assignor to said Frederick W. Rubin. Filed Oct. 30, 1922. Serial No. 597,909. 11 Claims. (Cl. 236—44.)



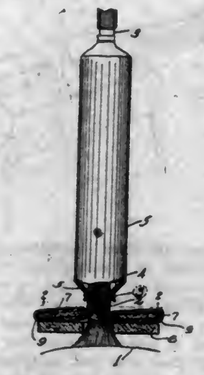
1. In a device for controlling the temperature and relative humidity in a compartment, the combination of dry and wet thermometer apparatus normally unexposed to the compartment but with independent extensions exposed therein, electrically operable means controlling the temperature and relative humidity in the compartment, and indicating means also normally unexposed to the compartment including a temperature responsive indicating arm and a bar co-operating therewith.

1,662,284. BLANKET HOLDER FOR PRINTING CYLINDERS. FRANK B. SHEA, Brooklyn, N. Y. Filed Mar. 17, 1927. Serial No. 175,951. 11 Claims. (Cl. 101—415.1.)



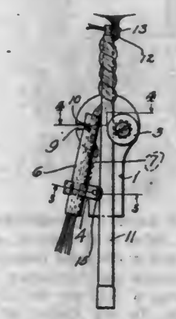
1. In combination with a printing cylinder having an axially disposed notch formed in the periphery thereof, attaching means within the notch to which one end of a blanket may be secured, means in the notch by which the opposite end of the blanket may be drawn taut, said attaching means being mounted to slide substantially radially without the notch, and means for locking said attaching means in depressed position.

1,662,285. HAIR-WAVING CLIP. WILLIAM G. SHELTON, St. Louis, Mo. Filed Aug. 15, 1927. Serial No. 212,942. 14 Claims. (Cl. 132—36.1.)



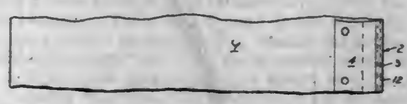
1. Hair waving equipment comprising a rigid annular member for compressing a strand of hair, and an absorbent element on the inner face of said member for contact with said strand.

1,662,286. HAIR WINDER. WILLIAM G. SHELTON, St. Louis, Mo. Filed Sept. 3, 1927. Serial No. 217,351. 10 Claims. (Cl. 132—33.)



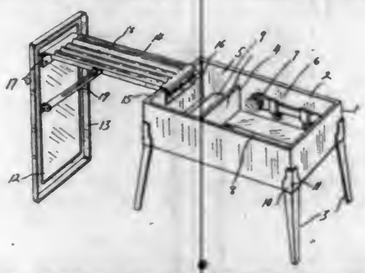
1. In a hair wrapping device, a base, an upstanding shoulder thereon, a hair receiving container rotatably mounted in said base, means yieldingly moving said container toward said shoulder, there being space between said container and shoulder adapted to receive a curling rod about which the hair is wrapped.

1,662,287. WATERPROOFING INSERTION MEMBER. CHARLES H. WEITZ, Piedmont, Calif. Filed July 23, 1927. Serial No. 207,896. 5 Claims. (Cl. 72—98.)



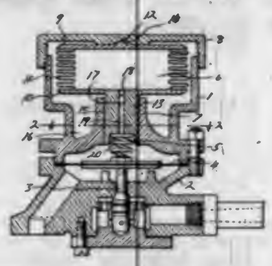
1. A waterproofing insertion member for covering the adjoining edges of a building frame structure comprising, a pliable and waterproofing strip and a clip in combination therewith to secure an edge of said strip to one of said adjoining frame members.

1,662,288. SHOE-BLACKING STAND. THOMAS C. WHITEHEAD, Detroit, Mich. Filed July 20, 1925. Serial No. 44,885. 5 Claims. (Cl. 15—265.)



1. In a stand of the class described, the combination with an open top box, of a corrugated sheet metal shoe rest hingedly connected at one end to a wall of said box, said connection being at the upper edges of said wall whereby the shoe rest may rest on said wall when in open position, and a cover for said box carried by the outer end of said shoe rest and adapted when in open position to engage a suitable support outside of said box for supporting the outer end of said shoe rest when the latter rests on the wall aforesaid of said box.

1,662,289. EXPANSION VALVE. THOMAS C. WHITEHEAD, Detroit, Mich. Filed June 28, 1926. Serial No. 119,182. 6 Claims. (Cl. 236—79.)



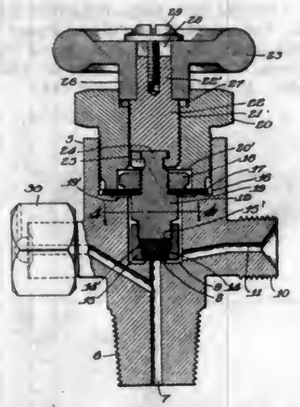
1. In an expansible valve, the combination with a sectional valve casing, a valve in the casing, a diaphragm for actuating the valve, and a yieldable element for actuating the diaphragm, of means for regulating the movements of said valve including a follower for the yieldable element slidably mounted in one section of the casing, an expansible chamber in said section, and a cover for said section adjustable to regulate the movement of said expansible chamber in one direction.

1,662,290. WIPING ELEMENT FOR WINDSHIELD CLEANERS. RALPH G. ABEY, Worcester, Mass., assignor to Worcester Biltrite Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 3, 1923. Serial No. 678,245. 3 Claims. (Cl. 15—255.)



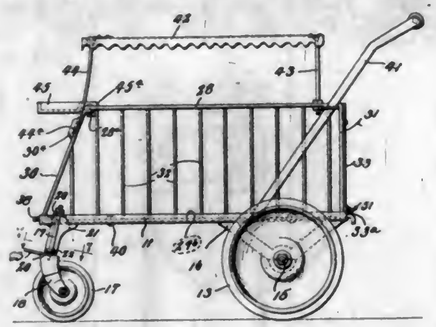
1. A windshield wiping element comprising substantially similar parts, each part having one side bounded by a straight line, and the other side comprising alternating projecting and recessed portions, the projecting portions having a dimension parallel to said straight line that is greater than the inside base of said projecting portions, whereby the projecting and recessed portions are interlockingly held together.

1,662,291. VALVE. CHARLES L. BASTIAN, Chicago, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 7, 1926. Serial No. 133,795. 8 Claims. (Cl. 251—49.)



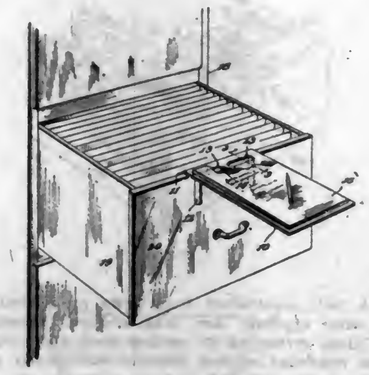
1. A valve comprising a body having a valve chamber therein, an inlet passage to said chamber and an outlet passage from said chamber, a seat in said chamber around the inlet passage, a valve member having a reduced upper end in the valve chamber, a threaded collar on said valve, a valve disk carried by said threaded collar and movable therewith to engage said seat, said seat being raised above the valve chamber wall around the inlet opening and said disk being larger than the seat so that the seat may be embedded in the disk, a diaphragm forming a gas tight closure for the upper end of the valve chamber, a nut on the reduced end of said valve for clamping the diaphragm to the valve member, and means for moving said valve member to open and to close the valve.

1,662,292. COMBINATION VEHICLE AND WALKER. ROBERT C. BENDER, St. Louis, Mo. Filed Jan. 21, 1926. Serial No. 82,712. 4 Claims. (Cl. 280—47.)



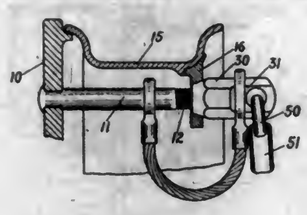
1. A child's vehicle comprising in combination a wheeled frame, a go-cart body detachably arranged thereon, said go-cart body being provided with a rear end portion pivotally mounted at its lower end and tiltable outwardly, a pair of longitudinally disposed rods removably arranged in the go-cart body one adjacent to each side thereof, a canvas bottom arranged in said go-cart body and provided along its side edges with loops for supporting engagement with said rods and a flap secured at one end to said canvas bottom intermediate the ends thereof and normally foldable thereagainst, the outer end of said flap being adapted to be detachably secured to said rear end portion of said go-cart body whereby said flap can be adjusted angularly relatively to said canvas body.

1,662,293. PORTABLE WRITING SHELF. WILLIAM C. BENNETT, Washington, D. C. Filed Oct. 7, 1925. Serial No. 61,041. 2 Claims. (Cl. 45—58.)



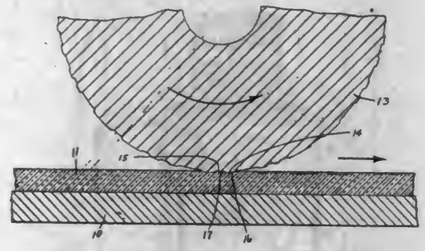
1. A device of the character described comprising a body plate having spaced openings therein and provided with means for detachably connecting the shelf with an object, and a pad support adapted to rest upon the body plate and provided with down-turned lugs to extend through said openings and anchor the pad support upon said plate.

1,662,294. TIRE LOCK. ROBERT BETTINARDI, Newark, N. J. Filed Apr. 18, 1927. Serial No. 184,662. 2 Claims. (Cl. 70—90.)



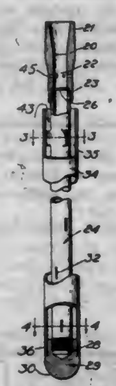
1. A tire lock in combination with a tire carrier provided with a screw threaded stud and a demountable rim to be carried thereon, a cap nut provided with a substantially rectangular cap extension provided with a transverse eye, said nut adapted to engage the screw threaded portion of the carrier stud, a flexible member provided on one end with a round eye adapted to go on the stud before the rim is placed on the carrier and on the opposite end with an elongated eye adapted to engage the substantially rectangular portion of the cap nut after it is assembled on the carrier stud in holding position, a lock adapted to engage the eye in cap nut after the flexible connection is in assembled position whereby the cap nut is prevented from turning on the stud.

1,662,295. PROCESS OF MAKING DECORATED GLASSWARE. MARTIN L. BURGESS, Indianapolis, Ind., assignor to Marietta Mfg. Co., Indianapolis, Ind., a Corporation. Filed Mar. 8, 1926. Serial No. 93,176. 1 Claim. (Cl. 49—77.)



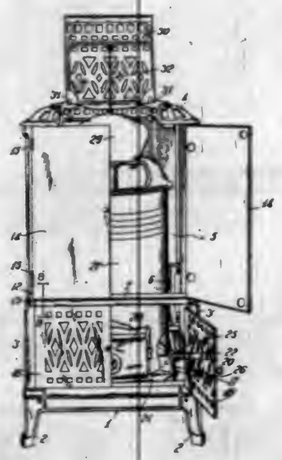
The process of producing a two-tone color effect in glassware, which consists in subjecting a plate of glass of uniform color throughout and while hot to a roll having a pattern surface etched thereon.

1,662,296. GAS ANCHOR. CHARLES A. CARLSON, Long Beach, Calif. Filed Aug. 24, 1925. Serial No. 52,180. 4 Claims. (Cl. 103—220.)



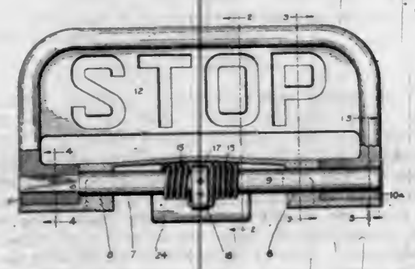
1. In a gas anchor, the combination of: a tubular connector body adapted to be attached to a supporting member; an inner barrel having its upper end secured to the lower end of said connector body, there being openings formed near the lower end of said inner barrel for connecting the exterior of said inner barrel with the interior thereof; a guide plug secured to the lower end of said inner barrel, said guide plug closing the lower end of said inner barrel; an outer barrel secured at its lower end to said guide plug, said outer barrel being concentrical around said inner barrel, there being an annular separating space formed between said inner and said outer barrels, the upper end of said outer barrel terminating below said connector body; and centralizing fins formed near the upper end of said inner barrel, said centralizing fins being arranged to engage an inner face of said outer barrel.

1,662,297. CABINET HEATER. EDWARD P. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 4, 1925. Serial No. 54,405. 13 Claims. (Cl. 126—67.)



1. The combination with a heater cabinet of adjustable means carried by the upright walls of the cabinet whereby stoves of different sizes may be individually secured in optional positions in the cabinet, said cabinet being provided with openings at the top and bottom affording air circulation through the cabinet around the stove.

1,662,298. TRAFFIC SIGNAL. WILLIAM R. COREY, Cleveland, Ohio, assignor to Samuel J. Bialosky, Cleveland, Ohio. Filed May 16, 1927. Serial No. 191,831. 2 Claims. (Cl. 40—125.)

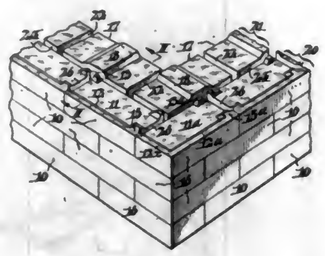


1. A traffic sign comprising a bed plate recessed on its under side, a rock shaft extending across said recess and provided with a lug, a sign plate fixed on the rock shaft, and springs engaging said lug and coiled around said shaft in said recess at opposite sides of said lug, the ends of the springs engaging under the bed plate and tending to swing the sign plate back to upright position when swung either way.

1,662,299. ROAD BINDER. MICHAEL F. COUGHLIN, Stoughton, Mass. Filed Feb. 24, 1922. Serial No. 539,032. 2 Claims. (Cl. 134—1.)

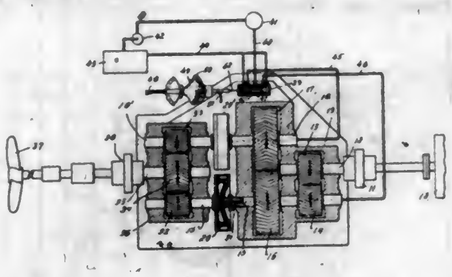
1. The road binder which comprises a basic bituminous substance, sulphite liquor, and lactic acid.

1,662,300. WALL CONSTRUCTION. EARL D. COVELL, Philadelphia, Pa. Filed Apr. 22, 1927. Serial No. 185,708. 7 Claims. (Cl. 72—37.)



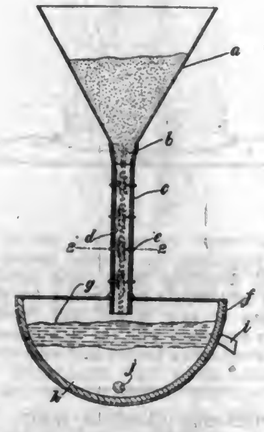
1. A wall constructed from units pre-determining a flush outer exposure face, each said unit embodying a ridge along certain of its vertical faces and projections at the remaining corners whereby continuously communicating horizontal and vertical intervals are formed that extend into close proximity to the wall face, said intervals being open from the rear for accessibility in subsequently introducing a bonding agent under pressure.

1,662,301. SYSTEM OF MARINE PROPULSION. THOMAS C. COYKENDALL, Kingston, N. Y. Filed Apr. 21, 1926. Serial No. 103,474. 6 Claims. (Cl. 115—34.)



2. In a system of marine propulsion, a propeller, an engine, a two-part ahead-motion shaft, a fluid pressure actuated power clutch arranged to either operatively connect or disengage the two parts of said ahead-motion shaft, a two-part astern-motion shaft, a fluid pressure actuated power clutch arranged to either operatively connect or disengage the two parts of said astern-motion shaft, permanently engaged gearing for operatively connecting said engine to said propeller through said ahead-motion shaft to effect ahead propulsion when the clutch in that shaft is actuated and the other clutch disengaged and for operatively connecting said engine to said propeller through said astern-motion shaft to effect astern propulsion when the clutch in the latter shaft is actuated and the other clutch disengaged, said two-part ahead-motion and astern-motion shafts and the engine and propeller shafts being in substantially the same horizontal plane, and control means for actuating one or the other of said clutches or simultaneously disengaging both of said clutches as desired.

1,662,302. MANUFACTURE OF STEEL AND ALLOYS FROM IRON SAND. DIRK CROESE, London, England. Filed Feb. 19, 1926, Serial No. 89,300, and in Great Britain Feb. 26, 1925. 2 Claims. (Cl. 89—300.)



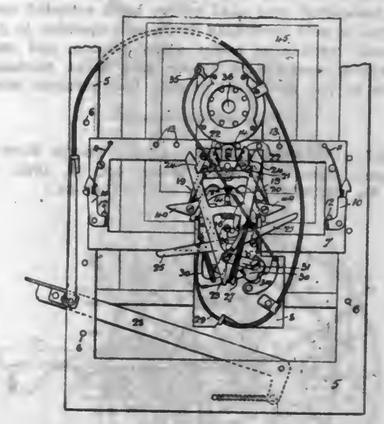
1. An electric arc furnace for the treating of iron sand having a vertical chamber and including a plurality of superposed electrodes arranged to provide an unobstructed path for the fall of the iron sand, and a crucible at the base of the furnace to receive molten metal and slag.

1,662,303. LOOSE-LEAF BINDER. JAMES C. DAWSON, Webster Groves, Mo., assignor to Elma N. Dawson, Webster Groves, Mo. Filed Sept. 8, 1925. Serial No. 54,940. 6 Claims. (Cl. 129—24.)



1. In a loose leaf binder, the combination of pairs of paper-holding prongs, a pair of toggle members articulated at their adjacent edges to form a toggle adapted to bend upwardly to separate the pairs of prongs and to bend downwardly to bring the prongs together, a base plate beneath the toggle members and having flanges in which the remote edges of the toggle members are pivoted, and an operating lever comprising an outer arm forming a thumb-piece, an inner arm projecting beneath the toggle, and an intermediate substantially upright portion connecting the two arms and having its side portions fulcrumed on the margins of the base plate adjacent to the flanges.

1,662,304. MULTIPICTURE CAMERA. LEONARD JOSEPH DOOGOOD and LEO PATRICK BRANAGAN, Melbourne, Victoria, Australia. Filed Apr. 13, 1927, Serial No. 183,531, and in Australia Feb. 18, 1927. 7 Claims. (Cl. 95—37.)

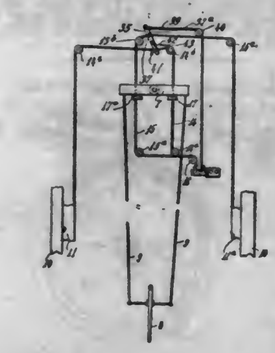


1. In a camera, a framework, rows of studs at each side the framework, a frame and a baseplate adapted to be moved across the frame carrying a lens and hung in said framework and latches on the frame that engage the studs and are released therefrom on a last movement of the baseplate across the frame.

1,662,305. BROMINE RECOVERY. GRAHAM EDGAR, Dayton, Ohio, assignor to Ethyl Gasoline Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 13, 1925. Serial No. 62,812. 8 Claims. (Cl. 23—216.)

8. A process of recovering bromine from saline solutions which comprises chlorinating the solution, and forming with the bromine in the solution an insoluble bromine compound.

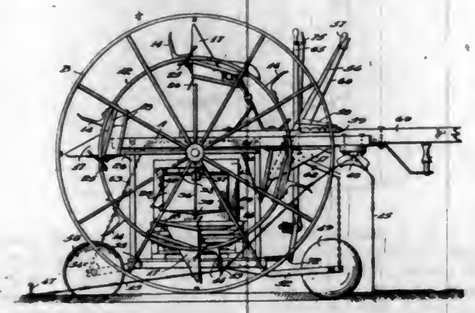
1,662,306. METHOD AND MEANS FOR CONTROLLING AIRCRAFT. ANTHONY H. G. FOKKER, Amsterdam, Netherlands, and PIERRE FRANK SONNEK, Woodhaven, N. Y.; said Sonnek assignor to said Fokker. Filed Mar. 13, 1926. Serial No. 94,368. 5 Claims. (Cl. 244—2.)



1. The combination with an airplane having a vertical rudder and a landing gear, of a braking mechanism associated with said landing gear, foot actuated means,

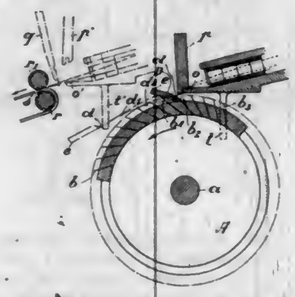
cables connecting said foot-actuated means to said rudder, whereby the latter may be actuated to change the head direction of the airplane, means independent of each foot actuated means for functioning said braking mechanism, said means including normally slack cables connected to said braking mechanism and a tensioning device associated with said cables, hand actuated means connected to said tensioning device and operable to place said brake mechanism cables under tension, and means concurrently operable to render said brake mechanism actuable by the movement of said foot actuated means.

1,662,307. CORN PLANTER. ALBERT EDWIN FORSYTH, Bellamy, Ontario, Canada. Filed Oct. 11, 1922. Serial No. 593,872. 2 Claims. (Cl. 111—34.)



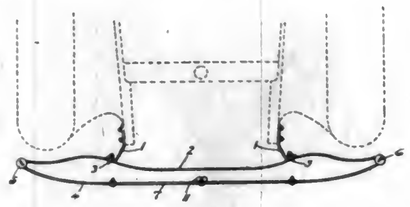
1. A seed dispensing device comprising a frame, a seed box mounted on the frame, a shaft rotatably mounted in said frame, a pocket wheel carried by said shaft, a plurality of spaced gripping members on the pocket wheel, a cable adapted to engage individually with said members to rotate the pocket wheels, a plurality of said pockets at spaced intervals on said wheel, an opening in the base of said seed box, an apertured slide adapted to open and close the base, operating mechanism for said slide including a lever, and a tappet carried by each seed pocket adapted in the rotation of said pockets to first engage with the slide to open the seed box and then engage with said lever to clost said box, and means for opening the seed pockets simultaneously with the closing of the seed box.

1,662,308. DABBER FOR COMBERS OF THE HEILMANN TYPE. CHARLES GÉGAUFF, Mulhouse, France, assignor to Societe Alsacienne de Constructions Mecaniques, Mulhouse, France. Filed Sept. 30, 1926, Serial No. 138,753, and in France Oct. 2, 1925. 3 Claims. (Cl. 19—121.)



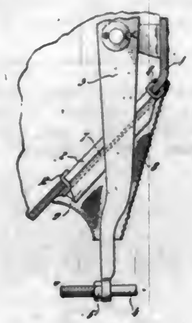
1. In dabbing mechanism, in combination with a combing cylinder, a dabbing blade, and nipper elements, means on one of said nipper elements to retain the said blade in the position of rest, subsequent to a dabbing movement, during an active revolution of the said cylinder and during the succeeding inactive revolution of said cylinder.

1,662,309. BUMPER WITH RUBBER BUFFER. ALBERT G. GEISTERT, Detroit, Mich., and JAMES M. SCHOONMAKER, Jr., Sewickley, Pa., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 20, 1926. Serial No. 130,445. 4 Claims. (Cl. 293—55.)



4. A vehicle bumper comprising a pair of spaced impact bars, a supporting bar therefor spaced rearwardly therefrom and extending in a plane opposite to the space between said impact bars, means for clamping the central portions of said impact bars together, and a resilient buffer associated with the clamp means in alignment with and extending toward said supporting bar.

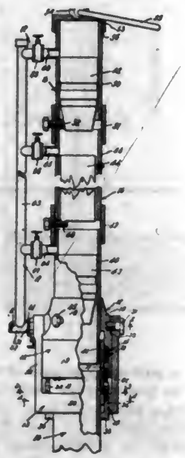
1,662,310. FLEXIBLE CLOSURE BOOT. ALBERT G. GEISTERT, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 5, 1927. Serial No. 166,245. 4 Claims. (Cl. 74—81.)



1. A boot for closing an opening in a wall thru which a movable member extends, including a flexible cover formed from a single piece of fabric into substantially conical shape and adapted to surround the movable member, said conical shape cover having an inturned fold at the base thereof and a spring element located within the base fold and adapted to be sprung into engagement with the sides of the opening to position said cover over the opening.

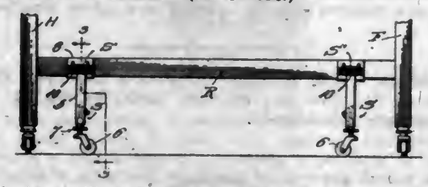
1,662,311. WELL-CAPPING DEVICE. LELAND S. HAMER, Fullerton, Calif. Filed Apr. 4, 1923. Serial No. 629,819. 14 Claims. (Cl. 166—14.)

1. A device adapted to be used in combination with a casing having a coupling on its end embodying, a cap adapted to be arranged in connection with the coupling, a structure adapted to be arranged around the casing under the coupling and including a yoke and a gate for closing



the yoke, and a pair of hinged arms connecting the yoke with the cap so that the cap is held in connection with the coupling by said structure.

1,662,312. AUXILIARY BED RAIL AND SLAT SUPPORT. WILLIAM C. HARTMANN and EDWARD A. WEISS, Cleveland, Ohio. Filed Dec. 13, 1926. Serial No. 154,529. 5 Claims. (Cl. 5—310.)

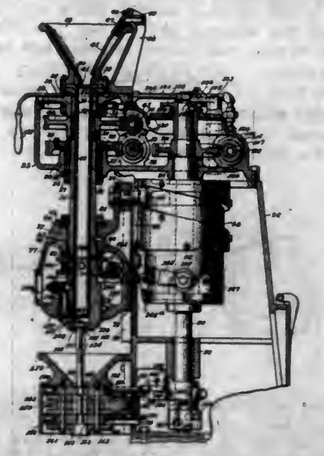


1. An auxiliary bed rail and slat support comprising a leg having a seat at its upper end for attachment to the rail, and a second seat rigid with the first named seat for supporting one end of a slat said second seat embodying means to abut the longitudinal edges of the slat to hold it against slippage from the seat.

1,662,313. PIPE-COUPLING TAPPING MACHINE. EMANUEL HENRIKSON, Stratford, Conn., assignor to The Bullard Machine Tool Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 29, 1923. Serial No. 683,362. 23 Claims. (Cl. 10—133.)

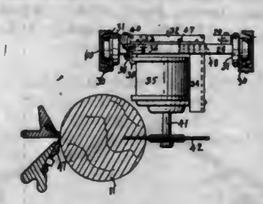
4. In a tapping machine, a tap, a chuck for blanks to be tapped, tubular feed means for feeding blanks into relation with said chuck and about which said chuck is rotatable, gearing for rotating said chuck, a cam shaft, cam means on said shaft for opening and closing said chuck, cam means on said shaft for imparting longitudinal reciprocations to said chuck whereby said blank is threaded, and gearing between said first mentioned gearing and said cam shaft for rotating the latter.

13. In a tapping machine, a tap, a rotary chuck comprising a chuck head, a rotatable tubular shaft within said head, a plurality of radial fingers upon said shaft provided at one end with gripping means and at their other ends with yieldable contact means and fixed against longitudinal movement relatively to said shaft, cam means movable longitudinally of said shaft adapted to be engaged and disengaged with the contact ends of said fingers to move their gripping ends into and out of gripping relation with respect to the diameter of the bore of said shaft, means within the bore of said shaft for



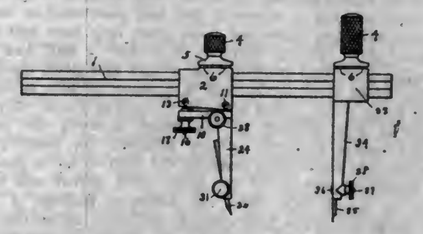
feeding blanks into relation with said chuck, and means for imparting relative longitudinal movement between said chuck and tap whereby said blank is threaded.

1,662,314. VENEER-CUTTING-MACHINE ATTACHMENT. JOHN F. HYLAND, Des Moines, Iowa. Filed July 10, 1926. Serial No. 121,697. 7 Claims. (Cl. 144—209.)



1. In a device of the class described, the combination with a rotary veneer lathe having means for holding the log in horizontal position and for cutting a veneer strip therefrom, with an attachment having a saw arranged in a horizontal plane, means for mounting the saw to travel toward and from the log in a horizontal plane, and means for moving the saw in a horizontal plane along the log for cutting a horizontal kerf in the log.

1,662,315. BEAM COMPASS. EMIL LAWRENZ, Detroit, Mich. Filed May 20, 1927. Serial No. 192,840. 5 Claims. (Cl. 33—160.)



1. In a beam compass, the combination of a beam and a tram head slidable thereon, means to secure the head to the beam, said head being formed with a groove in its

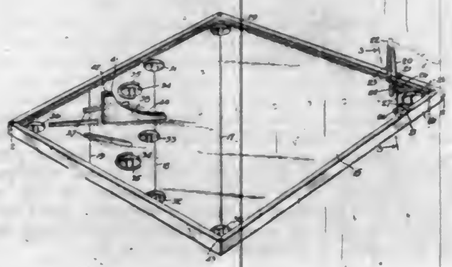
lower side, a pivot extending across one end of said groove, a tram-point carrier mounted on said pivot, a tram-point extending down from said carrier, a second pivot pin extending across the opposite end of said groove, a bolt mounted thereon, and a nut on said bolt engaging the adjacent end of the point carrier and adapted to move said carrier to swing said leg.

1,662,316. HANDLE. BENNO B. LEUSTIG and JOSEPH D. PETSCHE, Cleveland, Ohio. Filed Mar. 15, 1926. Serial No. 94,774. 3 Claims. (Cl. 16—114.)



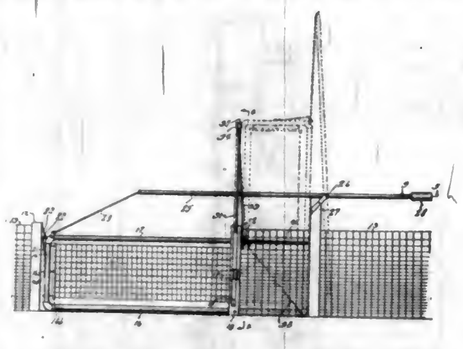
1. The combination with a vessel, a socket member having a plate portion secured to the exterior of the vessel, one edge of said plate portion being bent at an angle to said secured part and formed into a substantially cylindrical socket some distance from the secured portion, a handle member entering said socket and having a cavity at its inner end, a conical sliding device in said cavity and a rod extending lengthwise of the handle and serving to draw said sliding device into the handle to bind said handle member into the socket.

1,662,317. BASEBALL GAME APPARATUS. GILBERT R. LIVINGSTON, Ocean Park, Calif. Filed Dec. 29, 1926. Serial No. 157,748. 2 Claims. (Cl. 273—89.)



1. A game apparatus comprising a board having a surface in representation of a base ball field, with pockets therein adapted to receive a ball and positioned to correspond with the bases and home plate of a base ball diamond, other pockets adapted to receive a ball and for designating other positions on a base ball field, lines on the surface dividing the field into zones, pockets adjacent the home plate pocket adapted to receive a ball therein, guiding ribs secured to the board between the home plate pocket and the pockets adjacent the home plate pocket and converging towards the field so as to provide a restricted mouth for the home plate pocket and tending to direct balls into the adjacent pockets, a ball pitching device for projecting a ball over the surface toward the home plate pocket, and a ball batting device positioned in advance of the home plate pocket between the pockets adjacent thereto and operable to strike a ball projected by the pitching device.

1,662,318. FARM GATE. MERRITT G. MCCORKEL and FLOYD L. MCCORKEL, Washta, Iowa. Filed Oct. 25, 1926. Serial No. 143,989. 2 Claims. (Cl. 39—44.)



1. In a gate, a gateway, a gate proper pivoted at a lower corner in the gateway for swinging movement in a vertical plane from a horizontal to a vertical position, the weight of the gate tending to urge it toward either of said positions from an intermediate balanced position, a keeper on the gateway, a co-acting latch on the gate proper adapted to engage the keeper automatically upon downward movement of the gate proper to closed position, the upper member of the gate proper being tubular and provided with a laterally curved guide element at its end opposite the latch, a cable secured to the latch extending through said upper member, thence around said guide element, thence laterally around a guide element secured to the gateway adjacent said upper member, thence upwardly and outwardly and over a guide element supported at a distance from the gateway in a lateral direction.

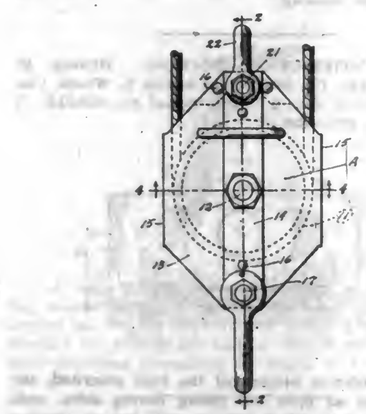
1,662,319. HAIR WAVER. MICHAEL J. MCGOWAN, Chicago, Ill. Filed May 28, 1927. Serial No. 195,112. 3 Claims. (Cl. 132—38.)



3. A hair waving device comprising spaced supporting members adapted to be secured to the head of the user, resilient comb attaching means carried by said members, a plurality of combs having one end detachably connected with said resilient attaching means, said combs being adapted to engage the hair of the user and to be shifted longitudinally to form waves therein, and means on said supporting members for engaging the opposite ends of said combs for retaining them in such shifted position.

1,662,320. SAFETY SHEAVE BLOCK. WILLIAM H. MCKISSICK, Tulsa, Okla. Filed May 16, 1927. Serial No. 191,636. 5 Claims. (Cl. 254—193.)

1. In a safety sheave block, a housing comprising two members each having inturned guard flanges on opposite sides of its longitudinal axis, the guard flanges of one member being normally alined and registered with the guard flanges of the other member, one of said members being centrally pivoted and rotatable with relation to the other member to move the flanges out of registration and



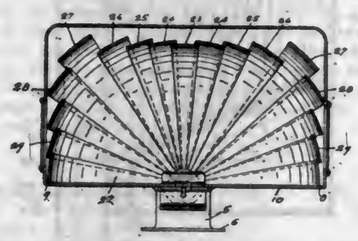
open the housing, a sheave journaled in the housing, and means for fastening the housing members in their closed position.

1,662,321. TIRE RIM. RUSSELL E. MCNAMARA, St. Marys, Ontario, Canada. Filed June 27, 1924. Serial No. 722,772. 4 Claims. (Cl. 152—21.)



3. In combination, a channel felloe band, a plurality of blocks carried in said band, each of said blocks having a slot, a side ring carrying a plurality of lugs adapted to enter said slots, said blocks being formed each with a recess communicating with the slot and adapted to receive one of the lugs.

1,662,322. HEADLIGHT. BURTON E. MELTON, San Francisco, Calif. Filed June 1, 1926. Serial No. 112,949. 1 Claim. (Cl. 240—41.)

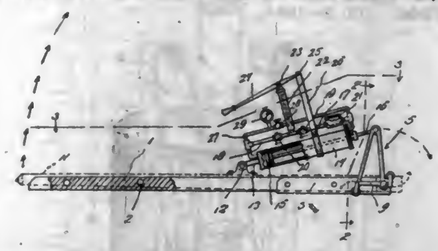


A headlight comprising a casing having a rectangularly-shaped opening, a source of light disposed in said casing, and a plurality of parabolic-shaped strips mounted in said casing, each strip extending from a point adjacent to the source of light to the open end of said casing, said strips being off-set to outline a substantially rectangular opening that coincides with the opening in said casing.

1,662,323. MOTOR FUEL. THOMAS MIDGLEY, JR., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 16, 1925. Serial No. 30,876. 6 Claims. (Cl. 44—9.)

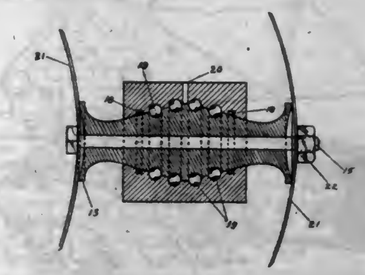
1. A motor fuel comprising a low compression fuel, and nickel carbonyl.

1,662,324. HOISTING APPARATUS. WILLIAM OBER and CLEMENS F. EAKINS, Brush, Colo. Filed Nov. 10, 1926. Serial No. 147,493. 5 Claims. (Cl. 214—3.)



5. In a hydraulic pole hoisting apparatus, a pole hoist supporting base adapted to be retained on the ground adjacent a hole which has been previously dug in the ground for reception of the lower end of the pole, a bail rockably mounted upon one end of said base, hooks extending laterally of said bail and adapted to engage the lower end portion of said pole at different longitudinal positions, one of said hooks opening upwardly and the other opening downwardly whereby to engage the opposite surfaces of the pole and arranged for rotating movement about a common axis, a fluid cylinder pivotally mounted upon said base, a piston slidable in said cylinder and including a stem connected to said bail, valved fluid circulating pipes connected with the end portions of said cylinder, and a hand pump connected with and circulating the fluid.

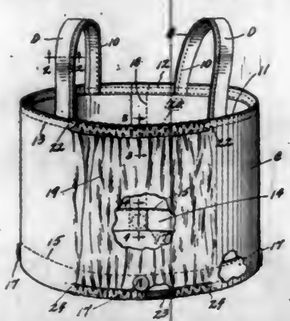
1,662,325. BEARING FOR DISK CULTIVATORS. ANTON W. OTOUPAL, Ulysses, Nebr., assignor to T. M. Otoupal, E. A. Otoupal, and G. F. Otoupal, Ulysses, Nebr. Filed May 11, 1926. Serial No. 108,350. 1 Claim. (Cl. 308—181.)



A bearing for a disk cultivator comprising a two-part journal box having in each part a longitudinal depression gradually increasing in depth from its ends to its middle portion, and having in the depression longitudinally spaced bearing grooves and washer grooves near the ends of the depression, a part of the journal box having an oil aperture therethrough leading to the deeper portion of the depression, a spindle of substantially spool shape of a length to extend through and beyond the journal box and having its intermediate portion gradually increasing in diameter from its ends to its central part to conform to the depressions in the journal box, said spindle having bearing grooves in its intermediate portion corresponding to the grooves in the de-

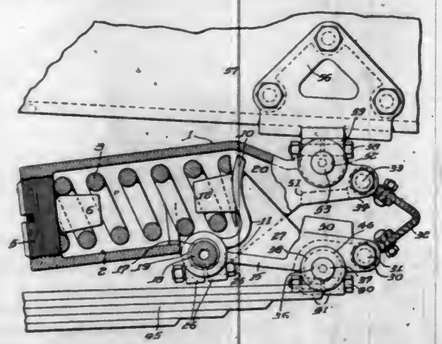
pressions, bearings in the corresponding intermediate grooves, packing washers in the corresponding end grooves, the flanges at the ends of the spindle having concave faces to receive cultivator disks thereagainst, and a bolt for engagement axially through the spindle and through the disks to clamp the latter directly on the spindle.

1,662,326. UNDERGARMENT. RUFA E. PAGE, Italy, Tex. Filed Jan. 11, 1927. Serial No. 160,839. 1 Claim. (Cl. 2—109.)



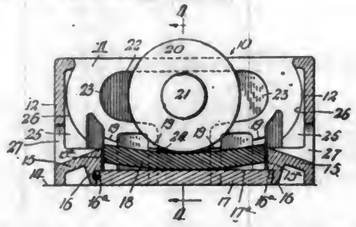
A waist comprising a continuous body with overturned edges to form pockets and having an integral gathered section extending of equal width from its top to its bottom edge at the front of the body, elastic strips extending transversely of the gathered sections and secured at their ends within the pockets at both the top and bottom edges, and opposite shoulder straps having their ends secured to the top of the body at the sides of the gathered front portion and the ends of the elastic strips.

1,662,327. SPRING SUSPENSION FOR AUTOMOBILES OR TRUCKS. CHARLES H. PATTEN, Allentown, Pa., assignor to The Traylor Engineering & Manufacturing Company, Allentown, Pa., a Corporation of Delaware. Filed Jan. 19, 1924. Serial No. 687,164. 3 Claims. (Cl. 267—17.)



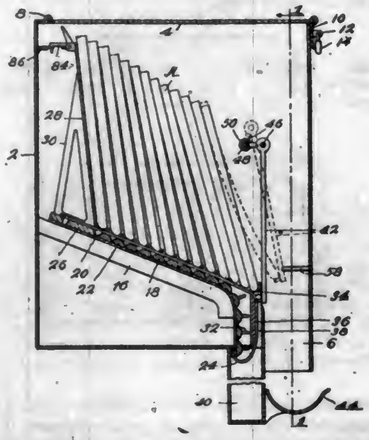
1. In a spring-suspension device for automobiles or trucks, the combination of a compression spring, a housing for the said spring, a bell crank lever pivoted to said housing at a point intermediate the opposite ends of the latter, one arm of said bell crank lever extending transversely of the said housing and against which one end of the said spring contacts, and the other arm of said lever extending away from the said spring and in general parallel relation to the axis thereof, means for pivotally connecting one end of the said housing to the body of an automobile or truck, means for pivotally connecting the outer end of the second named arm of said bell crank lever to the main supporting means for the said body, and a re-bound strap connecting the outer end of the last mentioned arm and the adjacent opposing end of the said housing.

1,662,328. ANTIFRICTION BEARING. HUBERT M. PERRY, Chicago, Ill., assignor to Sophie L. Woods, Chicago, Ill. Filed Jan. 2, 1924. Serial No. 688,913. 1 Claim. (Cl. 308—226.)



In an antifriction bearing of the kind described, the combination of an open top casing having sides, ends and a bottom wall which bottom wall has an opening therein, a filler block in said opening and having a flat top bearing surface, a longitudinally curved bearing plate engaged and capable of a longitudinal rocking movement upon said filler-block, each side wall of the casing having a longitudinally extending groove therein, there being shoulders provided on said side walls below said grooves which overhang the side margins of the bearing plate to be engaged thereby when said bearing plate is rocked upon the filler-block, and a roller in said casing capable of a rolling movement on said bearing plate from the center toward either end of the casing, said roller having end trunnions which extend into but are free from engagement with the top and bottom walls of said longitudinal grooves, there being parts of the casing extending above the filler block to be engaged by the end of the rocking plate and to arrest the endwise movement thereof upon the filler block.

1,662,329. VENDING MACHINE. ERNEST W. PETERSON, Kansas City, Mo. Filed Feb. 5, 1927. Serial No. 166,161. 4 Claims. (Cl. 312—69.)



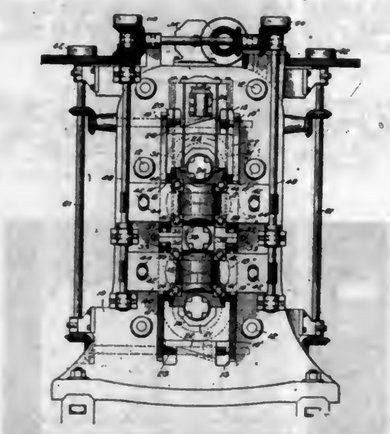
1. In a vending machine, a case having a delivery opening, a flexible inclined conveyer arranged to carry articles of merchandise downwardly towards said opening, and a pocket in the lower forward portion of the case for receiving the conveyer.

1,662,330. HAIR-WAVING DEVICE. NUNZIO PRIVITERA, Toronto, Ontario, Canada. Filed Nov. 19, 1927. Serial No. 234,455. 5 Claims. (Cl. 132—32.)



1. A hair waving device comprising a hair supporting member having a comb at the upper end adapted to engage the roots of the hair, and means in the supporting member for holding the hair so that it will lie in alternate directions throughout its length to form a wave.

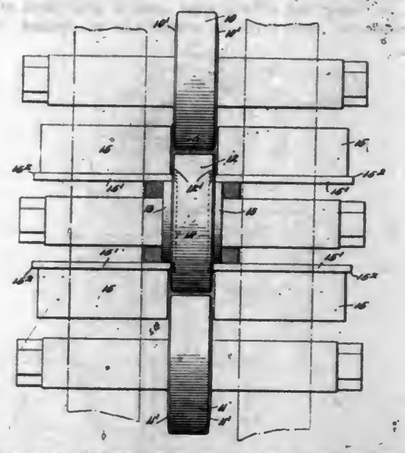
1,662,331. ROLLING MILL. JOHN D. PUGH, Baltimore, Md. Filed Sept. 3, 1921. Serial No. 498,276. 14 Claims. (Cl. 80—56.)



1. In a rolling mill, in combination, a frame, side rolls adapted to be horizontally adjusted, horizontal rolls adapted to be vertically adjusted, and means for effecting the adjustment of said rolls including a motor mounted upon the top of the frame, two rotatable vertical rods operatively connected to the side rolls, two rotatable vertical rods operatively connected to the horizontal rolls, and means connecting each of said rods to the motor including an electro-magnetic clutch at the upper end of each rod.

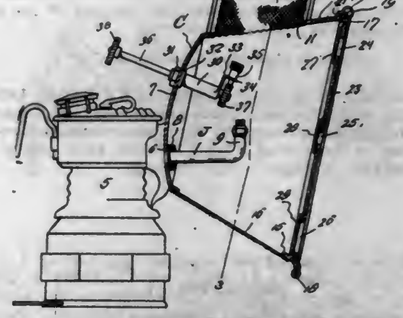
1,662,332. ROLLING MILL. JOHN D. PUGH, Baltimore, Md. Filed Nov. 17, 1924. Serial No. 750,454. 2 Claims. (Cl. 80—59.)

1. In a rolling mill for flanged sections, in combination, a roll having a cylindrical rolling surface for the web of a beam, an annular surface disposed transverse thereto for rolling the inside of a flange, and an annular groove concentric with the roll and formed in the end thereof within the annular rolling surface, of a second roll having a rolling surface transverse to the cylindrical surface of the first roll and an annular flange on said second roll which enters the groove in said first roll, the arrangement being such that the said annular flange of the second roll projects within the annular groove of the first roll and engages and extends beyond the edge



of the beam flange throughout a series of successive passes as the beam is being reduced, thereby preventing the formation of a bead during such passes.

1,662,333. SAFETY LAMP. EDWARD J. QUINN, CHARLES E. SPRAKE, and HUBERT J. GRITMAN, Kingston, Pa. Filed May 13, 1926, Serial No. 108,859. Renewed Oct. 11, 1927. 2 Claims. (Cl. 67—20.1.)

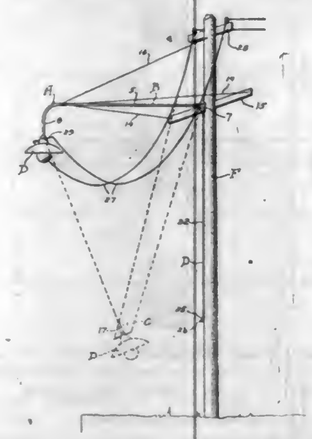


1. In a miner's safety lamp of the class described, an L-shaped jet including a horizontal portion and a vertical portion rising therefrom, a reflector casing including a rear concavo-convex wall having a pair of openings one above and one below the axis thereof, the horizontal portion of the jet being mounted in the lower opening, the inner terminal of said jet being alined with the axis of the casing, a bearing mounted in the upper opening, a bracket on the inner end of said bearing projecting upwardly and provided with a forward extension, a flint holder in said forward extension, a shaft journaled in said bearing, a corrugated steel wheel on the inner end of said shaft for cooperating with the flint holder, and an operating wheel on the outer end of said shaft.

1,662,334. STREET-LIGHT FIXTURE. FRED B. REBERG, Casper, Wyo. Filed Nov. 24, 1924. Serial No. 752,061. 2 Claims. (Cl. 240—64.)

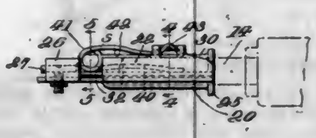
1. In a supporting fixture for lamps, the combination of a support, a tubular mast arm having a quadrantal

shaped downwardly turned portion formed at its inner end and having a downwardly opening socket at its outer end, a lamp support slidable upwardly into the socket at the outer end of the mast arm, a pole piece rigidly secured to said support, comprising a divided clamp



member provided with a downwardly opening arcuate way for receiving the downwardly turned inner end of the mast arm, and a hoisting rope connected at one end to the lamp support and slidably extending through the tubular mast arm for raising and lowering of the lamp with respect to the mast arm.

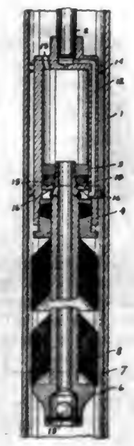
1,662,335. SPRING SOCKET TERMINAL. LUDWIG REICHOLD, Winsted, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Nov. 26, 1926. Serial No. 150,832. 6 Claims. (Cl. 173—332.)



1. A socket terminal comprising a base having lateral upstanding walls and an inwardly bent guard in spaced relationship to the base, said guard having an aperture, a cooperating plate guided by said walls, interengaging means on said base and plate to prevent relative longitudinal movement, and a spring having its end engaged in said aperture and adapted to resiliently force said plate toward said base.

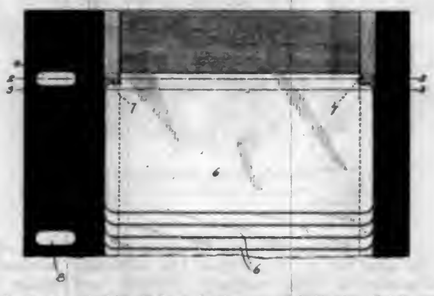
1,662,336. WELL PACKER. CHARLES H. REYNOLDS, Houston, Tex. Filed Apr. 30, 1926. Serial No. 105,824. 13 Claims. (Cl. 166—13.)

1. A tubular packer for wells including a packer support having a fluid passageway therethrough, an expansible packing element thereon, a fixed abutment against which one end of said element is adapted to abut, and means adapted to be actuated by fluid pressure and adapted to actuate said support to carry the packing



element against said abutment whereby said element is expanded and a downwardly opening valve in said support adapted to control said passageway.

1,662,337. VISIBLE INDEX. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to The Globe-Wernicke Co., a Corporation of Ohio. Filed Nov. 29, 1924. Serial No. 752,882. 5 Claims. (Cl. 129—84.)

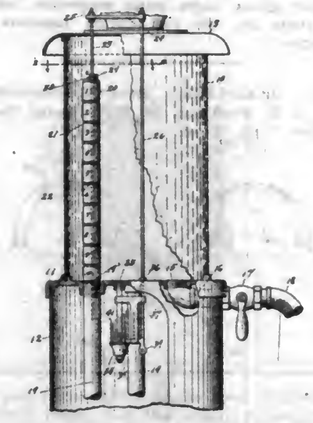


3. In a visible index device, a relatively thick and rigid base sheet, a pair of similar transversely U-shaped spacer strips respectively closely embracing the opposite side edges of the base sheet, a pair of similar transversely U-shaped guide strips respectively closely embracing in nested relation the spacer strips and of greater width than the spacer strips so as to form opposed guideways for index elements on both sides of the base sheet, and means for securing all of said strips and the base sheet firmly together so that stiff inner and outer rounded marginal edge portions are provided on the base sheet.

1,662,338. UNIT-MEASURING LIQUID DISPENSER. ROSS E. RISSER, Bonham, Tex., assignor to Catron Manufacturing Company, Bonham, Tex., a Corporation of Texas. Filed Nov. 13, 1925. Serial No. 68,766. 4 Claims. (Cl. 221—100.)

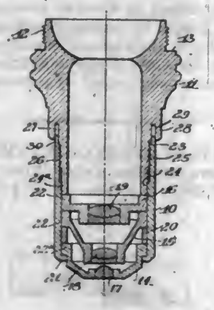
2. In a fluid dispenser, the combination with a measuring container and a discharge pipe therefrom, of a plurality of tubular valves in said container connected

with said pipe, a rod depending from the top of the container and connected with the valves for successively lifting the same, a vertical staff outside the container



connected with the rod and carrying a finger, a rotatable member, and a plurality of stepped pins thereon adjustable into the path of the finger of the staff.

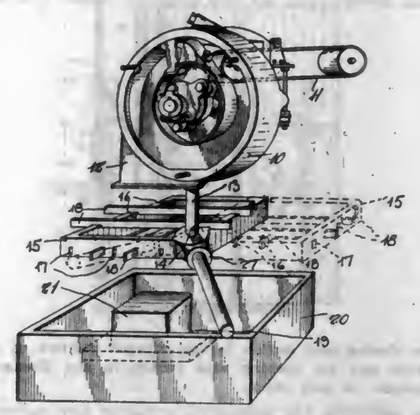
1,662,339. OPTICAL INSTRUMENT. JOHN CHARLES SABEL, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 14, 1925. Serial No. 15,450. 7 Claims. (Cl. 88—57.)



1. In optical instruments, an objective including a base and a lens tube threadedly connected with the base, said base having a smooth extended bearing portion projecting into the lens tube and closely fitting the bore of the latter in advance of the threaded portion of the bore, whereby to accurately center said tube upon the base when screwed thereon.

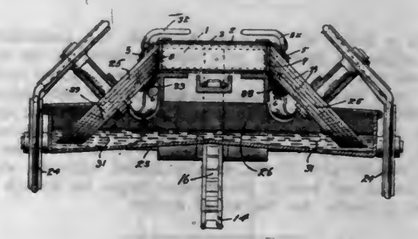
1,662,340. MOLDING DEVICE. VICTOR E. SCHMIDEKNECHT, Louisville, Ky., assignor of one-half to Gohmann Brothers and Kahler Company, New Albany, Ind., a Corporation. Filed Feb. 26, 1926. Serial No. 90,873. 9 Claims. (Cl. 22—9.)

8. In combination with a sandslinging machine, a baffle comprising a web with a series of spaced apart openings therethrough, means for moving said baffle relative to the sand discharge outlet of said sandslinging machine whereby when said baffle is in closed position the force of the sand is broken, causing the sand to be deflected and discharged upon the pattern mildly and



smoothly, and whereby said baffle may be withdrawn to open position to permit the remainder of the sand to be discharged with the usual force into the mold.

1,662,341. APPARATUS FOR SEALING PACKAGES. HUGO SCHWARZ, San Bruno, Calif. Filed Nov. 6, 1923. Serial No. 673,163. 2 Claims. (Cl. 91—51.)

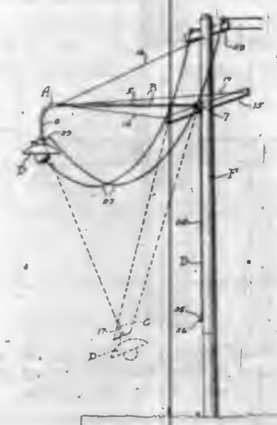


1. A package sealing machine comprising an elongated guide, a traveling chain conveyor therealong adapted to convey the packages along the guide, a pair of gluing wheels rotatably mounted at an angle alongside the guide adapted to revolve in liquid adhesive at the lower edge and contact the passing packages at their vertical edges, and transmission elements for actuating the conveyor and gluing wheels simultaneously.

1,662,342. LOCK FOR ELEVATOR DOORS. JULIUS A. SCHWEIG, St. Louis, Mo. Filed Oct. 1, 1926. Serial No. 138,866. 11 Claims. (Cl. 187—31.)

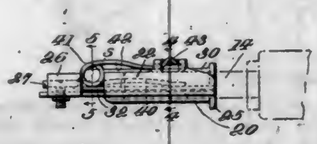
5. An electric elevator, a shaft, a car working therein, doors for closing the door openings in said shaft, a spring projected latch bar for each door, a lock casing secured to said shaft opposite the end of said latch bar and provided with an opening adapted to receive said end of said bar, an arm pivoted in said casing for swinging movement towards and away from said end of said latch bar, a catch mounted on said arm and adapted to move into engagement with said latch bar when the arm moves rearwardly under pressure of said bar, a spring for swinging said arm forwardly in the direction of said latch bar in the retracted position

shaped downwardly turned portion formed at its inner end and having a downwardly opening socket at its outer end, a lamp support slidable upwardly into the socket at the outer end of the mast arm, a pole piece rigidly secured to said support, comprising a divided clamp



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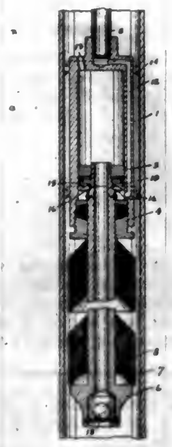
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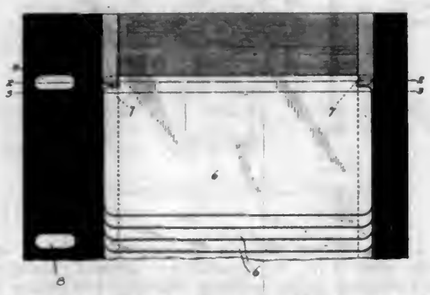
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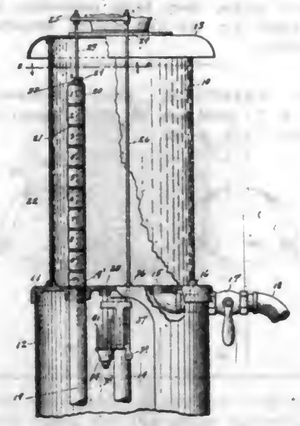
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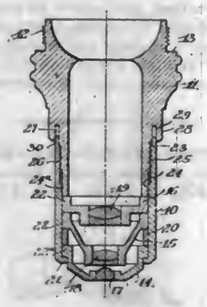
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2. In a fluid dispenser, the combination with a measuring container and a discharge pipe therefrom, of a plurality of tubular valves in said container connected with said pipe, a rod depending from the top of the container and connected with the valves for successively lifting the same, a vertical staff outside the container



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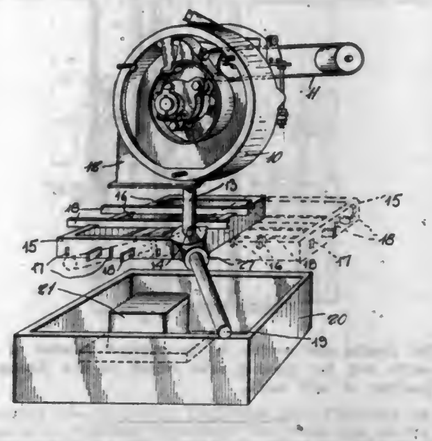


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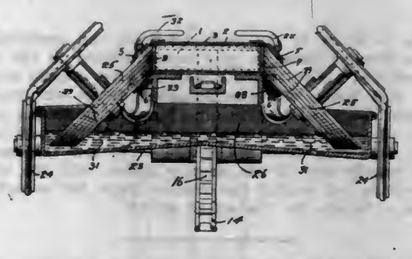
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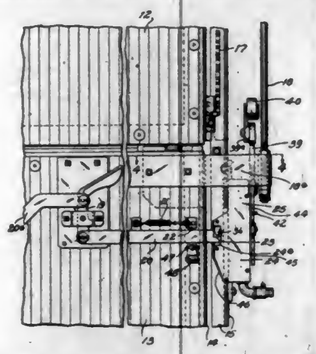


1. A package sealing machine comprising an elongated guide, a traveling chain conveyor therealong adapted to convey the packages along the guide, a pair of gluing wheels rotatably mounted at an angle alongside the guide adapted to revolve in liquid adhesive at the lower edge and contact the passing packages at their vertical edges, and transmission elements for actuating the conveyor and gluing wheels simultaneously.

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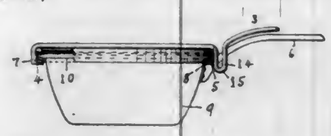
5. An electric elevator, a shaft, a car working therein, doors for closing the door openings in said shaft, a spring projected latch bar for each door, a lock casing secured to said shaft opposite the end of said latch bar and provided with an opening adapted to receive said end of said bar, an arm pivoted in said casing for swinging movement towards and away from said end of said latch bar, a catch mounted on said arm and adapted to move into engagement with said latch bar when the arm moves rearwardly under pressure of said bar, a spring for swinging said arm forwardly in the direction of said latch bar in the retracted position

thereof, a switch for making and breaking the electric circuit controlling the operation of the elevator car, and means controlled by the swinging movement of said arm



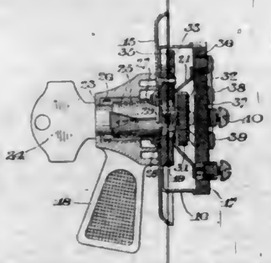
for closing said switch in the engaged position of said catch and for opening said switch in the disengaged position of said catch.

1,662,343. SAFETY DRAINER. NELLIE E. SHARPNECK and ELIEL L. SHARPNECK, East Bakersfield, Calif. Filed Mar. 12, 1927. Serial No. 174,938. 1 Claim. (Cl. 53—8.)



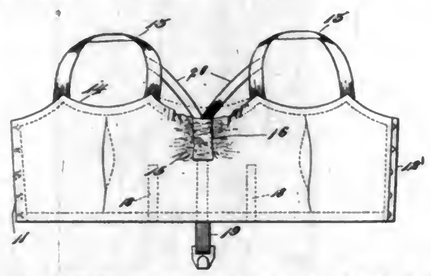
In a device of the class described, the combination of a circular frame, a wire screen secured to the said frame, and a wire handle of parallel wires secured across the said frame with the two ends of the wire handle turned down and back to form inwardly projecting lugs, and at a point diametrically opposite to the said lugs, two more projections are formed to fit into recesses in the outside part of the circular frame, with the wires extending out beyond the circular frame far enough to form a handle for the safety drainer.

1,662,344. LOCK SWITCH. EDGAR M. SORENG, Chicago, Ill., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed May 2, 1923. Serial No. 636,164. 5 Claims. (Cl. 200—44.)



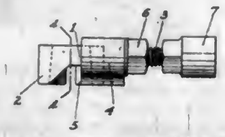
1. A combination switch comprising a front plate, a switch handle mounted thereon, a switch member behind the front plate connected with the handle to be turned thereby, a contact spider carried by the switch member, a lock barrel mounted to turn in the switch handle, a stationary lock sleeve engaged by the tumblers of the lock barrel, said lock barrel passing through the switch member, a spring-pressed switch member carried by the lock barrel and having contacts, a terminal head having contact studs engaged by said contacts and the contact spider, there being connection between the contact studs for the two switch members whereby they interlock.

1,662,345. BRASSIÈRE. EULA S. STANDISH, Providence, R. I. Filed Feb. 18, 1927. Serial No. 169,192. 2 Claims. (Cl. 2—42.)



1. A brassière having a body portion adapted to be drawn tightly about the body of the wearer at and below the bust line, supporting shoulder straps attached to the upper edge of the garment, the front upper edge of the garment being cut downwardly on the bias from the point of the strap attachment to the middle of the garment, an elastic strip attached to said upper middle edge and extending downward a portion of the width of the garment and positioned therein to pucker the garment when not under tension, elastic stay straps connected at one end to said shoulder straps a substantial distance above the edge of the garment and extending down diagonally and connected to said central elastic strip, and a connector on the lower edge of the garment to be attached to another garment to cooperate with said stay straps to tension the front of the brassière and the elastic therein and simultaneously tighten the garment on the stay straps and draw it down into the valley between and about the breasts to support the same.

1,662,346. BATTERY TERMINAL CLAMP. ROMAINE B. STEWART, Crows Landing, Calif. Filed Nov. 19, 1925. Serial No. 70,009. 1 Claim. (Cl. 173—259.)

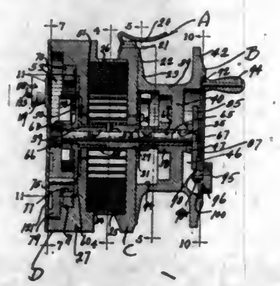


A battery terminal clamp comprising a sleeve, a stem slidable therethrough, a nut on one end of the stem, a jaw on the other end of the stem, and a cooperating jaw on the adjacent end of the sleeve; said jaws depending to a level below that of the lower edge of the sleeve whereby when the jaws are about a post with the lower edges resting adjacent the upper surface of the battery the sleeve will remain raised from such surface to permit of ready manipulation of the nut.

1,662,347. FISHING REEL. CARL E. STOCKING, Princeton, Ky. Filed Dec. 19, 1924. Serial No. 756,957. 5 Claims. (Cl. 242—84.5.)

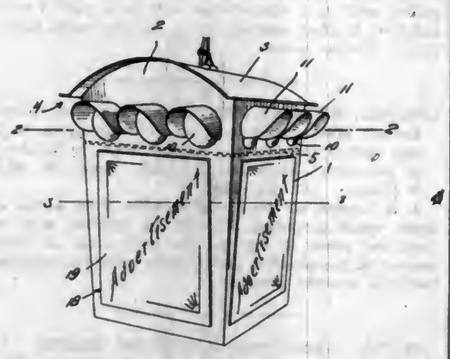
1. In a combination reel a stationary frame, a spool rotatable with respect to the said stationary frame, a spring motor including a housing rotatable with respect

to the frame, gear means connecting the motor housing for rotation of the spool at an increased speed ratio with respect to rotation of the motor housing, pawl means for selective connection and disconnection of the spool with respect to said motor means, brake means for selective



connection and disconnection of the spool with respect to said stationary frame, and trip means cooperating with the gear means adapted to be manually set in engagement therewith to hold the motor spring inoperative until the motor spring tension is momentarily relieved.

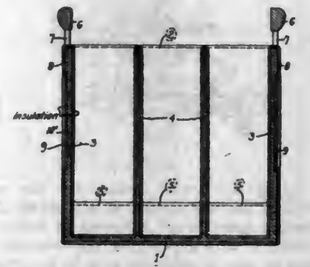
1,662,348. CHANGEABLE SIGN AND TRAFFIC SIGNAL. GEORGE W. STRICKER, Dallas, Tex. Filed Sept. 12, 1925. Serial No. 55,964. 2 Claims. (Cl. 40—132.)



2. In combination, a housing, comprising a plurality of lenses mounted in the housing, each lens being of a different color from the others, a plate member formed with indicia indicating perforations mounted on said housing over an opening formed therein, a plurality of colored illuminating means for said plate member corresponding in color to each of the colored lenses, and means independently operable for illuminating lenses of varying colors simultaneously with the corresponding colors for illuminating said perforated plate member, different colors being adapted for successive display in illuminating the lens and plate member in a predetermined manner.

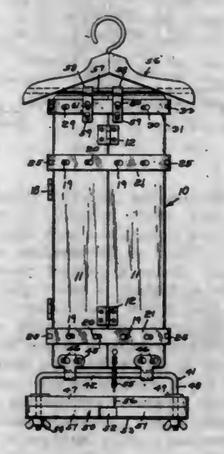
1,662,349. STORAGE BATTERY. GEORGE K. THOMPSON, Summit, N. J. Filed Aug. 31, 1923. Serial No. 660,268. 2 Claims. (Cl. 136—166.)

1. A storage battery container made of metal and having a partition formed integral therewith to provide a plurality of cells within said container, an insulating acid-resisting substance applied to the entire interior surface of said container, including said partition, as a liner therefor, handles located at opposite ends of the container and formed integrally with the walls thereof, and



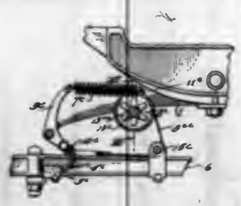
reinforcing ribs extending heightwise and widthwise of the walls to distribute throughout the entire area of the wall tension that is imparted thereto in lifting the container by means of said handles.

1,662,350. CLOTHES-TREATING APPLIANCE. THOMAS L. WANDS, Spencer, N. C. Filed Oct. 26, 1926. Serial No. 144,306. 1 Claim. (Cl. 223—18.)



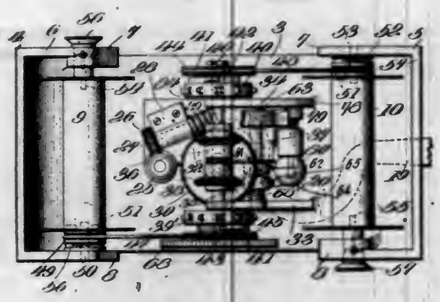
In a clothes treating appliance, a trouser pressing device having a greater length than width, headed studs secured to the trouser pressing device at one end thereof, leaves provided with transverse keyhole openings to receive the headed studs and adapted to be separated from the studs upon being shifted transversely of the trouser pressing device, said leaves having eyes, a U-shaped support embodying a transverse element pivoted within said eyes and carrying arms, a stationary jaw mounted upon said arms, a co-acting jaw pivoted upon one arm and having a transverse slot to receive the other arm and clamping nuts carried by the arms to engage with the co-acting jaw.

1,662,351. SUPPLEMENTAL SPRING SNUBBING SUSPENSION FOR VEHICLES. FRANK L. O. WADSWORTH, Pittsburgh, Pa. Filed Jan. 30, 1926. Serial No. 84,993. 45 Claims. (Cl. 267—10.)



1. In a spring suspension system for two relatively movable members the combination of a plurality of elastic support elements operatively connected in series between the said members, with means for concurrently shifting opposing ends of one of said elements in the direction in which it is flexed by a relative bodily movement of the said members.

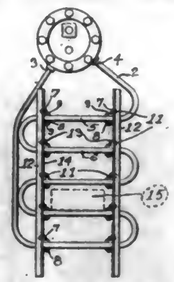
1,662,352. ROUTE INDICATOR FOR PROPELLED VEHICLES. RALPH M. WEEKS, Groton, Conn. Filed Jan. 5, 1924. Serial No. 684,582. 5 Claims. (Cl. 40—42.)



1. A route indicator for propelled vehicles comprising a casing, two map spools mounted in spaced relation therein and adapted to receive a map strip running from one spool to the other, an intermediate shaft arranged parallel with said spools, a pair of reversely arranged gears slidable on said shaft, a power gear between said reverse gears, said power gear being driven in synchronism with the travel of the vehicle, means to shift said reversely arranged gears to change the driving relation, a pulley loose on each end of said intermediate shaft, an overrunning clutch adapted to drive one of said pulleys clockwise only, a second overrunning clutch adapted to drive the other pulley counter-clockwise only, a friction drive between each pulley and one of said spools, a sprocket fast on said intermediate shaft, said sprocket being adapted to engage in perforated holes in the map strip to control the rate of feed of said map due to the rotation of a spool.

1,662,353. REFRIGERATING APPARATUS. FRANK E WILLIAMS, St. Louis, Mo., assignor to Polar Electric Refrigerator Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 6, 1925. Serial No. 48,513. 4 Claims. (Cl. 62—95.)

1. In a refrigerating apparatus, a header, a plurality of depending tubes having their opposite ends connected to the respective opposite sides of said header, one branch of said tubes being convoluted in side by side spaced relation to form in series of superposed shelves, the other branch of said tubes extending from the lower



most convolution to the opposite side of said header and means for maintaining at least the several convoluted branches in spaced relation.

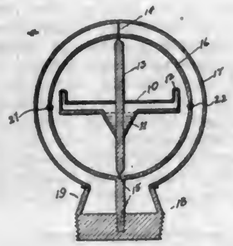
1,662,354. PROCESS OF COATING MOLDS AND PRODUCT THEREOF. HARRY M. WILLIAMS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 10, 1925. Serial No. 1,580. 6 Claims. (Cl. 22—192.)

1. A process of preparing metallic molds for receiving molten metal which consists in applying to the molding surface a coating of finely divided refractory material comprising a substantial proportion of the refractory reduced to an impalpable powder, and then heating the coated mold at a temperature and for a period of time sufficient to effect aggregation of the impalpable particles into a coherent mass.

1,662,355. BROMINE RECOVERY. JAMES P. ANDREW, Detroit, Mich., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 22, 1925. Serial No. 64,208. 9 Claims. (Cl. 23—216.)

1. A process of recovering bromine from saline solutions, which comprises treating the solution with more than one atom of chlorine for each atom of bromine present in the solution, and forming with the bromine an insoluble bromine compound.

1,662,356. VIBRATION-INDICATING MEANS. JOHN P. BALL, Chicago, Ill. Filed Jan. 5, 1927. Serial No. 159,225. 5 Claims. (Cl. 116—114.)



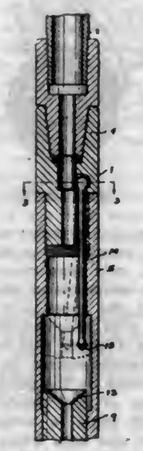
4. Vibration indicating means, comprising a housing closed against ingress of air currents, a balanced hollow member rotatably mounted in said housing, the outer

perimeter of said member being transparent, while the hub of said member is formed to provide a chamber, and a predetermined quantity of fluid in said chamber adapted to flow toward the perimeter of the member when the latter rotates.

1,662,357. ABRASIVE-RESISTING METAL AND PROCESS FOR MAKING SAME. LARRY J. BARTON, McGill, Nev. Filed Sept. 1, 1926. Serial No. 133,081. 10 Claims. (Cl. 75—45.)

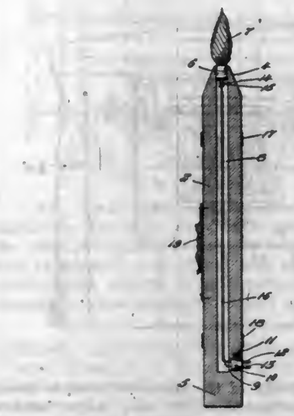
1. The process of making an alloy composed, in combination with the iron, of carbon from 0.80 to 1.30 per cent, of silicon from 0.30 to 0.60 per cent, of manganese from 0.60 to 1.00 per cent, and of sulphur and phosphorus not exceeding 0.08 per cent, which consists in melting steel scrap in an acid-lined electric furnace; in adding carbonaceous material in the desired percentage; in adding sand or other siliceous material to form a coating of slag from one-quarter to one-half inch; in adding lime to make said slag fluid; in adding lime, siliceous material, cast iron, pig iron, ferro-manganese or manganese steel scrap in small quantities until said slag becomes a yellowish-green in color, whereby gases are eliminated from and silicon is absorbed by said alloy; in adding ferro-manganese in quantity from 0.80 to 1.50 per cent, whereby oxygen is absorbed from said metal; in adding from 0.30 to 0.60 per cent crushed ferro-silicon; and in adding small pieces of aluminum as said alloy is being poured into molds whereby gases present in said molds are absorbed.

1,662,358. DRILL STEM. JOHN F. BOZEMAN, West Columbia, and JAUDON D. COLE, Orange, Tex. Filed July 13, 1925. Serial No. 43,175. 4 Claims. (Cl. 255—1.)



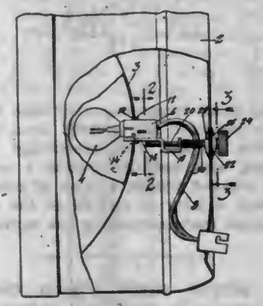
1. In combination: a string of rotary drill pipe comprising an upper and a lower section; means for supporting said upper section; a device secured at the lower end of said lower section, said device supporting the weight of said lower section; means for attaching said upper and lower sections together, said means comprising an outer member secured to one of said sections having a cavity, an inner member secured to the other of said sections, said inner member having a stem which extends into said cavity, said stem being movable in an axial direction in said cavity, and means for preventing said stem from removing entirely from said cavity; and valve means for obstructing the fluid passage in said pipe when said upper section is supported by said device.

1,662,359. ORNAMENTAL LIGHTING STRUCTURE. JAMES S. BRENNAN, Attleboro, Mass. Filed July 7, 1926. Serial No. 120,934. 1 Claim. (Cl. 240—52.)



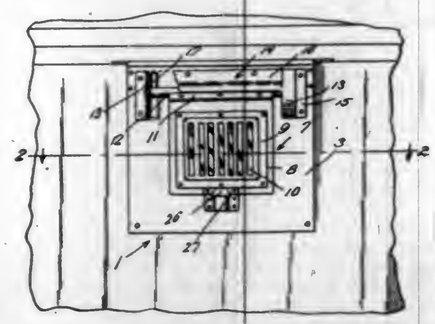
In an ornamental lighting structure, a support formed to simulate the appearance of a taper and provided with a central longitudinal bore extending throughout a portion only of its length, a lamp base secured to said support adjacent to one end of said bore, an electric lamp carried by said base, ornamental bands surrounding said support and secured thereto, a lateral opening formed in the wall of said support intermediate the ends thereof and communicating with the central bore, a plug removably secured in said lateral opening and serving as a closure therefor, said plug being provided with electric terminals, means within the bore for connecting the terminals of said plug with the lamp base, and a removable connection for connecting said terminals with an electric circuit.

1,662,360. FOCUSING DEVICE FOR AUTOMOBILE HEADLIGHTS. SUMNER E. BROWN, Dedham, Mass. Filed May 1, 1925. Serial No. 27,225. 2 Claims. (Cl. 240—44.)



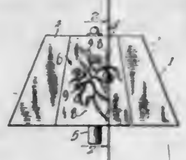
1. The combination of a casing having an aperture therein, a reflector in the casing, a light support mounted in the reflector for tilting or rectilinear movement comprising a socket and a member secured to the socket having a return bend at one end provided with aligned apertures, a member having threaded engagement with one of said apertures and having a manipulative part projecting outwardly through the aperture in said casing to effect adjustment of the lamp and friction means mounted on said part and adapted to yieldingly hold the member in adjusted position.

1,662,361. CLOSURE STRUCTURE. JOHN E. CARLSON and WALTER G. NORDMAN, Elkhart, Ind. Filed Aug. 10, 1926. Serial No. 128,422. 2 Claims. (Cl. 268—74.)



1. In a window closure of the class described, a casing of hollow form constructed to fit in a cellar window opening, said casing being provided with an entrance opening, a closure for said entrance opening, an oscillatory rock shaft with which said closure is rigidly connected for upward swinging motion, bearings on the casing in which said rock shaft is journaled for oscillation, a latch pivotally mounted in the casing for holding the closure in closed position, crank arms connected with said rock shaft and confined in said casing, and counter balanced weights connected with and depending from said crank arm, whereby when the latch is released the closure will be automatically swung to open position through the action of the counterbalanced weight.

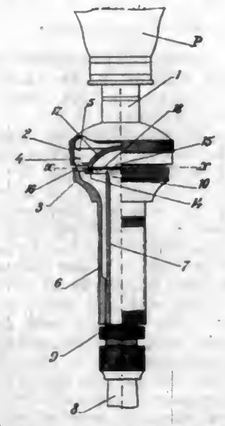
1,662,362. LAMP SHADE. JOHN CHITRA, Chicago, Ill. Filed June 20, 1927. Serial No. 199,951. 3 Claims. (Cl. 41—21.)



3. A lamp shade comprising a suitable frame of wire, a silk cover stretched and secured upon the frame, an ornamentation on the silk, comprising a coating of enamel mixed with medium covering a certain area to represent a selected picture, a layer of colored oil paints on the enamel, a layer of varnish on the oil paints and a layer of glass beads secured by the varnish.

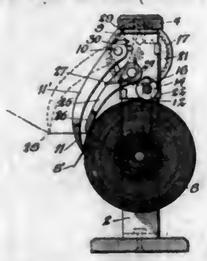
1,662,363. MOTOR HORN. LOUIS CHOLLET, Paris, France, assignor to Compagnie Industrielle et Commerciale du Cycle et de l'Automobile, Paris, France. Filed Feb. 7, 1925, Serial No. 7,566, and in France Feb. 8, 1924. 6 Claims. (Cl. 116—142.)

3. In a horn, a tubular casing with an open upper end, a horn piece extension tube extending up into the casing, a membrane carrying ring mounted in the open end of the casing so that its rim is in spaced relation to the wall of the casing, a membraneous strip extending across the ring in proximity with the upper end of the extension tube and its width being less than the internal diameter of the ring, a sound dome mounted on the ring, a cover extending over the open end of the casing, and means on the interior of the cover engaging the sound dome for securing it, the membrane supporting ring and the membraneous strip in position, compressed



air supplying means and means for directing the air from the compressed air supplying means onto both faces of the membraneous strip whereby such strip is vibrated.

1,662,364. CUTTING AND MEASURING DEVICE FOR PAPER ROLLERS. WILLIAM COHEN, Atlantic City, N. J. Filed June 14, 1926. Serial No. 115,930. 3 Claims. (Cl. 33—134.)

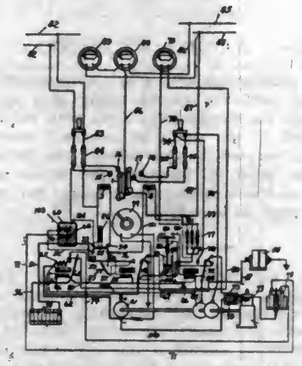


1. A measuring device for paper rolls from which the paper is to be torn, comprising a support in which is mounted a paper roll, said support consisting of a base, longitudinally slotted standards at the ends of the base and a bar connecting the upper ends of the standards, a shaft having its ends mounted in the slot of the standards and having a single gear tooth at one end, a plurality of rollers fixedly secured to the shaft between the standards and resting on the paper roll, a plate slidably mounted on one of the standards and to which one end of the said shaft is secured, a gear wheel mounted on the plate and with which the tooth of said shaft meshes, a dial in front of the gear wheel, and a pointer on the shaft of the gear wheel and working over the face of the dial.

1,662,365. METHOD OF TREATING RUBBER MOLDS. JACKSON D. COMSTOCK, Chester, W. Va. Filed Mar. 3, 1923. Serial No. 622,677. 4 Claims. (Cl. 91—71.)

1. The method of treating rubber molds, which includes the steps of treating the surfaces of the mold cavities of a metallic mold with a caustic cleaning solution, drying said mold, rubbing the surfaces thereof to remove dry foreign matter, spraying a thin solution of enamel upon said surfaces whereby the solution may fill the interstices and pores of the molding surfaces thereof, subjecting said mold to a baking temperature sufficient to harden the enamel, removing the mold from the heat influence, cooling the mold, treating the mold surfaces with a second coating of enamel, and rebaking the mold to cause said second coating to combine with the first coating.

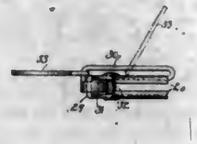
1,662,366. AUTOMATIC ELECTRIC SERVICE SYSTEM. MARK C. COSGRAY, Sandusky, Ohio, assignor, by mesne assignments, to Myer Prussian, Detroit, Mich. Filed Apr. 23, 1923. Serial No. 633,870. 17 Claims. (Cl. 290—30.)



1. In an electric system, a consuming circuit, a supply circuit, a main line switch for connecting the consuming circuit with the supply circuit, an internal combustion engine driven dynamo, a storage battery connected to the dynamo, an alternating current generator connected to the engine, a controlling switch controlled by the potential difference of the current of the main supply circuit for operating the main line switch and for starting the engine, an electro-magnetic switch located in the circuit of the generator for completing the circuit of the generator to the main line switch when the potential of the dynamo has been substantially raised by the operation of the engine to a predetermined degree.

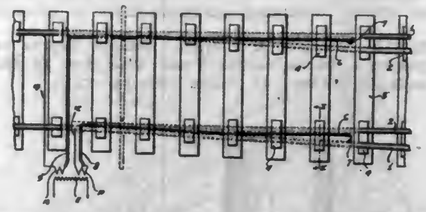
9. In an electric system, a consuming circuit, an internal combustion engine driven dynamo, a source of current supply connected to the dynamo, a switch located in the circuit of the dynamo for starting the engine, and means controlled by the said switch for intermittently operating the choke valve of the engine to supply intermittently starting charges to the engine until the engine is started.

1,662,367. SEPARABLE FASTENER. JOHN DRAHER and ADOLPH J. KRIEGER, Waterbury, Conn., assignors to The Sterling Novelty Mfg. Co., Waterbury, Conn., a Corporation. Filed Jan. 6, 1927. Serial No. 159,382. 1 Claim. (Cl. 24—205.)



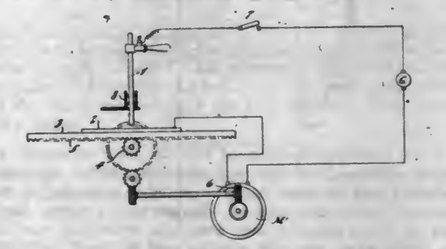
A separable fastener, comprising interlocking members attached to the edges of parts to be connected, a slide comprising two plates connected together at their upper edges by a neck, said plates formed with side-flanges, one of said plate formed with an integral strap having a T-end, the said strap turned upward over the face of the said plate, and the ends of the T folded around the said neck, and a finger-piece coupled with said strap and adapted to move from end to end thereof.

1,662,368. SWITCH-HEATING APPARATUS. MORGAN J. GRIFFITH, Chicago, Ill. Filed May 10, 1926. Serial No. 107,913. 4 Claims. (Cl. 246—428.)



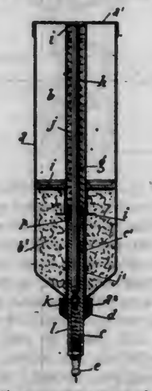
1. The combination with a railroad switch and ties supporting the same, of metallic plates engaged between the rails and said ties, recesses laterally traversing said ties underneath, said plates, and electric heating means substantially parallel to said rails and disposed in said recesses in close proximity to said plates.

1,662,369. ARC WELDING SYSTEM. JOHANNES KJEKSTAD, Brooklyn, N. Y., assignor of one-half to William Schenstrom, Brooklyn, N. Y. Filed Aug. 1, 1918. Serial No. 247,734. 3 Claims. (Cl. 219—8.)



1. An electric arc welding system comprising the combination with the work and an electrode arranged to have an arc established between them, of an electric motor operative to translate the electrode relative to the work and so arranged in the electric circuit that it will accelerate on a decrease in the length of the arc and decelerate on an increase in the length of the arc.

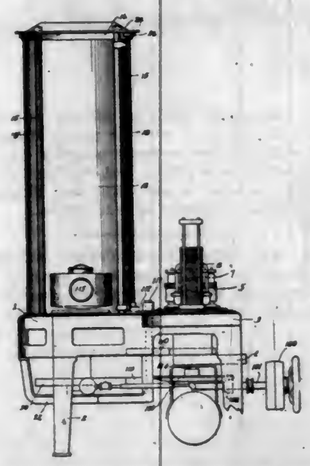
1,662,370. HIGH-PRESSURE LUBRICATING COMPRESSOR. LOUIS GASTON TRINQUART, Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed May 7, 1924, Serial No. 711,540, and in France Jan. 18, 1924. Renewed Jan. 26, 1928. 3 Claims. (Cl. 221—47.4.)



1. In a lubricating apparatus, the combination of a reservoir containing lubricant, means for separating successive fractions of said lubricant and distributing the

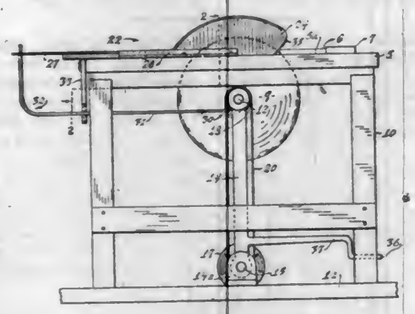
same, and a movable partition engaging the body of lubricant and having a flange rigid with and substantially parallel to said partition and embedded in the body of lubricant.

1,662,371. DRYING MACHINE. NELSON TROYER and MERTON L. DODGE, Seattle, Wash. Filed Sept. 24, 1925. Serial No. 58,430. 43 Claims. (Cl. 34—11.)



1. In a drying machine of the character described, a drying chamber and can end advancing means whereby each can end delivered into the chamber is caused to be revolved about the axis of the advancing means and also to rotate about its own axes, and means for causing air to be drawn into the chamber and delivered laterally through the stacks.

1,662,372. SAW GUARD. ABRAHAM D. WARD, Los Angeles, Calif. Filed Apr. 26, 1926. Serial No. 104,681. 2 Claims. (Cl. 143—159.)



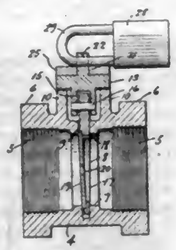
1. In a machine of the class described, a table provided with a slot, a saw carrying member arranged to travel under said table, a saw carried by saw carrying member with a portion of said saw projecting through said slot and above said table, guides on said table; one to either side of and paralleling said slot, a guard slidable over the surface of said table between said guides; said guard of U shape cross section and inverted over the said portion of the saw, a tail piece to said guard projecting horizontally rearwardly of the table, a horizontal rod pivoted to said saw carrying member and projecting rearwardly of said table; said rod and said tail piece being connected to each other at a point rearwardly of said table.

1,662,373. HAIR-CUTTING COMB. ANNA M. WIDDOWS, Akron, Ohio. Filed Dec. 28, 1926. Serial No. 157,478. 2 Claims. (Cl. 132—45.)



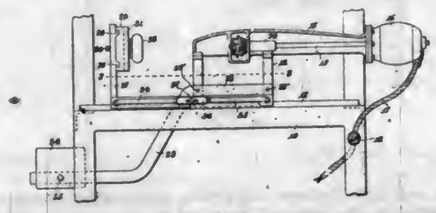
1. The combination with a hair cutting comb having a shank and blade-like gaging teeth, of a slotted plate hinged onto the shank of the comb with the slot extending parallel to the teeth, an auxiliary comb arranged with teeth adapted to pass between the blade-like teeth of the first comb and having a pin thereon slidably engaged in said slotted plate, and means for securing the auxiliary comb to the shank.

1,662,374. ORIFICE VALVE. CLAY G. WOODMANSEE, Los Angeles, Calif. Filed Dec. 21, 1925. Serial No. 76,658. 2 Claims. (Cl. 137—75.)



1. A meter orifice disk valve comprising a chambered body having a slot for insertion in said body and removal therefrom of an orifice cage, an orifice cage pivotally mounted on said body so as to be swung through said slot into position within said body or outside thereof, and means to lock said cage in said body.

1,662,375. CUTTER HEAD FOR LAST-TURNING LATHES AND SUPPORTS THEREFOR. JOHN B. COVILLE, Swampscott, Mass., assignor of one-third to Theodore W. McNichol and one-third to Thomas T. McNichol, Swampscott, Mass. Filed Apr. 8, 1926. Serial No. 100,729. 1 Claim. (Cl. 142—15.)



In a lathe for shaping lasts and the like having a supporting bed provided with a pair of upwardly extending guide ribs, a slidable frame resting on and movable endwise of said ribs and having uprights at the opposite ends thereof, a long arm secured to said uprights and projecting a considerable distance beyond one end of the slidable frame, said arm having a flat vertical face at

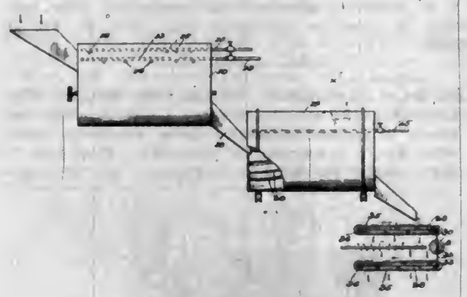
the outer end thereof; a motor secured to the flat face at outer end of said arm; a rotary shaft centrally disposed in said motor with a bearing on said arm and driven directly by said motor; a cutter secured directly to the end of said shaft between said uprights; a bar secured at one end to the uprights of said slidable frame and extending downwardly and outwardly from the opposite end of said slidable frame beneath said supporting bed; and a weight adjustably secured to the end of said bar and adapted to counterbalance the weight of said arm and motor and prevent said slidable frame being tilted.

1,662,376. TRANSPORTING VEHICLE. JOSÉ LUIS DELPINI, Buenos Aires, Argentina. Filed July 23, 1924, Serial No. 727,796, and in Argentina Dec. 23, 1923. 2 Claims. (Cl. 280—33.2.)



1. A vehicle comprising a car having two sets of wheels; a plurality of trailers each having a single set of wheels; universal joints for connecting the trailers to each other and to the car; a passage provided for the entire train of trailers and the car so that they shall be inter-communicating; and means provided for displacing the bodies of the trailers relative to its set of wheels in order to change the distribution of the load and the adhesive power.

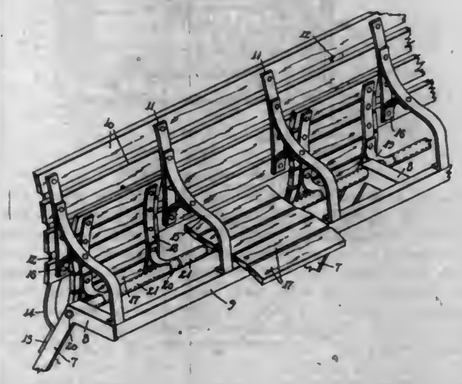
1,662,377. PROCESS FOR PRODUCING ASPHALT-PAVING MIXTURES. JAMES SHELBY DOWNARD, Dallas, Tex. Filed Aug. 11, 1923. Serial No. 656,806. 6 Claims. (Cl. 94—23.)



1. A process for preparing adhesive and cementitious asphalt paving mixtures which consists in separately preparing a granulated mixture of mineral matter and blown asphalt of high melting point, and a granulated mixture of mineral matter and asphalt of low melting point, and mixing the separately prepared mixtures while cold and in heating the final mixture at the point of use whereby the two mixtures commingle and temper each other to produce in the final paving mixture a pre-determined compound of standard asphalt content.

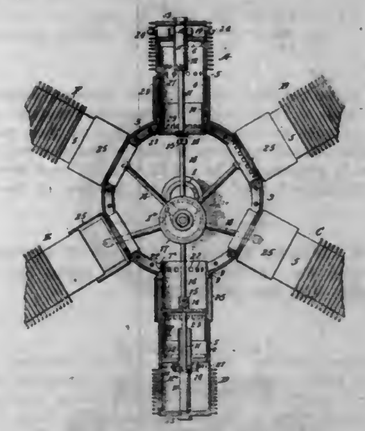
1,662,378. SEAT. CHARLES ANDRE DUKE, New York, N. Y. Filed Oct. 27, 1926. Serial No. 144,580. 3 Claims. (Cl. 155—86.)

1. A seat structure comprising standards having forwardly extending arms, a rail secured to said arms, a shaft carried by said standards in rear of said rail, seats mounted on said shaft for turning movement and adapted to rest on said rail, with one or more seats disposed above the corresponding standards, the rear portions of those seats which are located above the standards being arranged to swing downwardly behind said



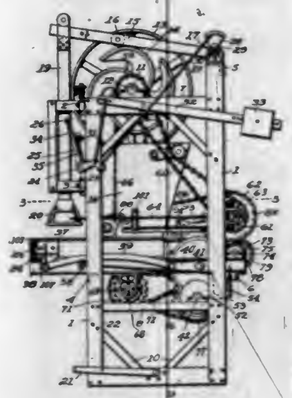
standards, a back for said seats, and bars secured to said back and having their lower ends secured to said standards below said shaft with the bars spaced rearwardly to provide clearances between the bars and upper ends of the standards in which the rear portions of the seats may swing.

1,662,379. INTERNAL-COMBUSTION ENGINE. BYRD L. EDDS, Sherman, Tex. Filed June 4, 1926. Serial No. 113,653. 17 Claims. (Cl. 123—44.)



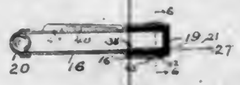
12. In a rotating cylinder engine, the combination of a fixed crank shaft, a crank case rotatable about the shaft, a plurality of radially arranged main hollow pistons fixedly mounted at their open ends on the crank case in communication therewith, reciprocating cylinders slidably mounted on said pistons, auxiliary hollow pump pistons slidable in the inner end portions of the main pistons, means connecting each cylinder and one of the auxiliary pump pistons for movement together and with the crank shaft, exhaust ports for the cylinder, means for controlling the same, means for admitting explosive mixture for the hollow pistons, and valve controlled passages between the hollow pistons and the cylinders.

1,662,380. TAMPING MACHINE. CHARLES S. EMERT, Peoria, Ill. Filed Jan. 27, 1926. Serial No. 84,034. 9 Claims. (Cl. 25—41.)



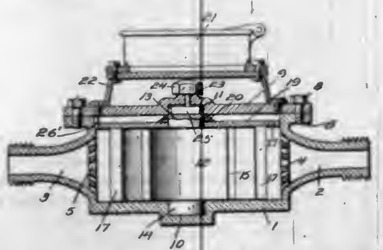
1. In a tamping machine the combination of tamping members, means for operating the tamping members, a hopper, means for delivering material from the hopper, and means for distributing the material to be operated upon the tamping members during the operation of the latter.

1,662,381. DETECTOR FOR FLAT TIRES. THOMAS M. EYNON, Philadelphia, Pa., assignor to Margaret Y. Eynon, Philadelphia, Pa. Filed Sept. 16, 1919. Serial No. 324,059. 2 Claims. (Cl. 200—34.)



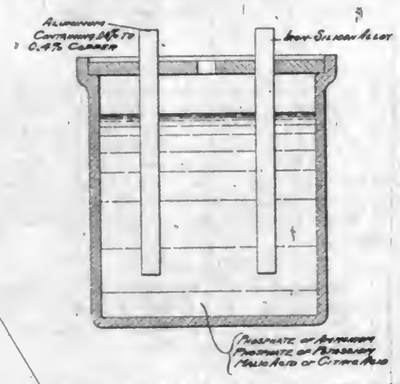
1. A contact maker for a flat tire detector, comprising a tube and a gravity-operated movable contact maker within the tube in combination with a face upon the contact maker adapted to lie in horizontal position and when the tube is properly set by leveling to act as a means of ready determination of the correct position of the tube.

1,662,382. WATER METER. MATTHEW Y. FIELDHOUSE, Maysville, Ky. Filed Feb. 7, 1925. Serial No. 7,668. 1 Claim. (Cl. 73—37.)



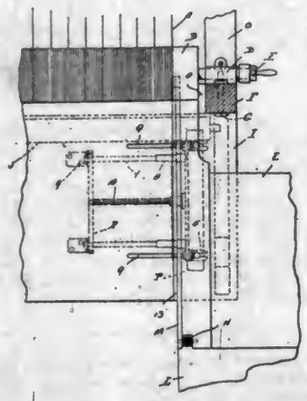
In combination with a register having an operating stem, of a casing open at its top, said casing being provided with diametrically opposed inlet and outlet pipes, a cover plate for the open top of the casing, means for supporting the register on the cover plate, a rotor provided with radial slots arranged in the casing, journals at the top and bottom of the central portion of the rotor, the bottom of the casing and the aforementioned cover plate being provided with eccentrically arranged aligning bearings for the respective journals, said operating stem extending downwardly through the cover plate and being operatively connected to the upper journal of the rotor, blades arranged for slidable movement in the slots of the rotor for engagement with the inner wall of the casing, a balance plate adapted for vertical slidable movement on the upper journal of the rotor, and a coil spring encircling the upper journal and disposed between the cover plate and the upper face of the balance plate for normally urging the latter downwardly into engagement with the upper face of the rotor.

1,662,383. ELECTROLYTIC RECTIFIER. WILLIAM H. GRIMDITCH and JOHNSON N. HUNSBERGER, Jr., Philadelphia, Pa., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 18, 1927. Serial No. 169,274. 6 Claims. (Cl. 175—318.)



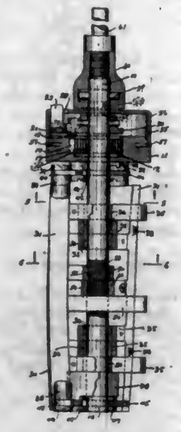
1. A rectifying electrode for asymmetric cells consisting of aluminum containing from .04% to .4% of copper.

1,662,384. ADJUSTABLE GUIDE FOR RULING MACHINES. ELWOOD J. HARPER, Louisville, Ky., assignor to Harper Adjustable Guide Company, Louisville, Ky., a Corporation of Kentucky. Filed Feb. 7, 1927. Serial No. 166,448. 5 Claims. (Cl. 271—49.)



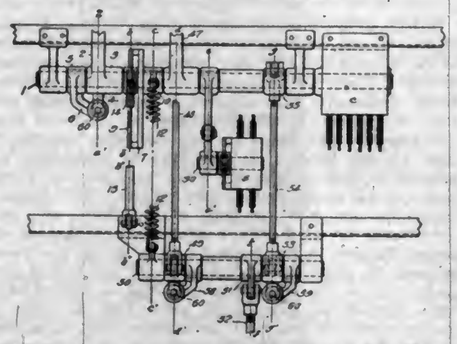
1. In a structure of the class described, in combination, a ruling machine embodying, among other parts, a feed board, a guide board associated therewith, and a supplemental manually adjustable guide and straight edge device, movable toward and from said guide board and across the top of said feed board, and manually adjustable means for said supplemental guide being supported from the underside of said feed board.

1,662,385. GRINDING TOOL. WALTER V. HOUCK, Snyder, N. Y. Filed June 20, 1925. Serial No. 38,579. 7 Claims. (Cl. 51—206.)



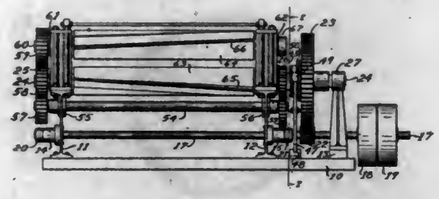
1. A grinding tool comprising a shaft, a plurality of abrasive stones arranged symmetrically about the shaft, resilient means for yieldably forcing the stones outwardly, and rack and pinion means for moving the stones so that a tangential line drawn through the curved working surface of each stone will always be at right angles with a radial line drawn through the center of the shaft.

1,662,386. CONTROLLER FOR ELECTRIC VEHICLES. ALFONSO M. LEONI, Philadelphia, Pa., and AXEL HJ. ASPAOOTH, Baltimore, Md., assignors to Electro-Motive Devices, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed June 27, 1925. Serial No. 40,077. 47 Claims. (Cl. 192—2.)



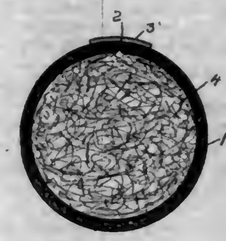
24. In an intercontrol system for electrically driven vehicles, a speed control shaft operative to different speed positions, a counter shaft, a manually operative element free on said shaft, means whereby movement of said element in one direction will operate the counter shaft, brake operating means operated in the movement of the countershaft, and a connection between said countershaft and the speed control shaft to compel a movement of the speed control shaft in the brake operating movement of the counter shaft.

1,662,387. CUTTING MACHINE. WILLIAM MAIER, St. Louis, Mo. Filed Feb. 12, 1923. Serial No. 618,600. 1 Claim. (Cl. 164—66.)



A stock cutting machine comprising a frame, spaced rolls journaled thereon, blades mounted upon the rolls and disposed longitudinally thereof and helically thereon, said blades being arranged to present unobstructed surfaces upon the peripheries of the rolls which have portions extending in straight lines from end to end of the rolls, means for rotating the rolls in opposite directions and at the same rate of speed whereby the blades upon the rolls may overlap each other and the unobstructed surface areas of the rolls occur opposite each other at intervals, means for gradually increasing the rate of speed of rotation of the rolls as the ends of the blades approach each other and for rotating the rolls at a constant rate of speed during the period that the blades are overlapping each other and for gradually decreasing the rate of speed of rotation of the rolls as the ends of the blades leave each other.

1,662,388. PADDING FOR SEAT BACKS. JOHN R. MILLAR, Oakland, Calif., assignor to California Cotton Mills Co., Oakland, Calif., a Corporation of California. Original application filed Dec. 26, 1923, Serial No. 682,839, Patent No. 1,650,086, dated Nov. 22, 1927. Divided and this application filed Oct. 19, 1925. Serial No. 63,291. 3 Claims. (Cl. 154—54.)



3. A padding material made for endwise introduction into an elongated pocket and comprising a sheet of flexible material of considerable tensile strength coiled to form a sleeve with abutting edges, a strip of stiffening material overlying the abutting edges on the outside of the sleeve for joining the same, and a filler of comparatively short fibre pressed into the sleeve so as to force the latter into cylindrical form.

1,662,389. PADDING FOR SEAT BACKS. JOHN R. MILLAR, Oakland, Calif., assignor to California Cotton Mills Co., Oakland, Calif., a Corporation of California. Original application filed Dec. 26, 1923, Serial No. 682,839, Patent No. 1,650,086, dated Nov. 22, 1927. Divided and this application filed Oct. 19, 1925. Serial No. 63,292. 4 Claims. (Cl. 154—54.)

1. A padding material made for endwise introduction into an elongated pocket and comprising a sleeve made

of flexible material of considerable tensile strength, a filler of comparatively short fibre pressed into the sleeve so as to force the latter into cylindrical form and a stiffening member within the sleeve extending lengthwise thereof, said stiffening member to be spaced from said sleeve.

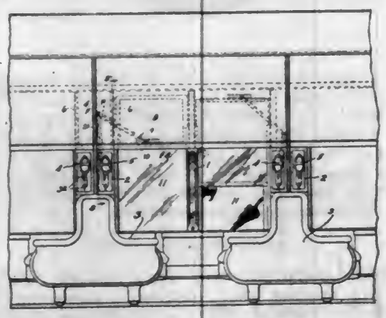


1,662,390. MILK AND CREAM COOLER AND AERATOR. OSCAR O. NEWHOUSE, Brandon, Minn. Filed June 10, 1926. Serial No. 115,066. 11 Claims. (Cl. 257—188.)



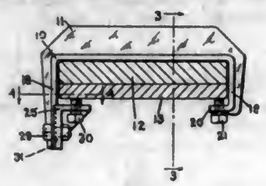
1. In a cooler of the class described the combination of an elongated receptacle having a passageway therealong for receiving a flowing cooling medium, a trough supported in the passageway of said casing being open at the top thereof, means for feeding milk or other liquid into one end of the trough for flow therealong, and means for receiving the milk or other liquid at the opposite end of the trough and causing it to flow through the cooling medium in said passageway counter to the flow which said liquid takes along said trough.

1,662,391. WINDOW REGULATOR. STANLEY W. NICHOLSON, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Mar. 8, 1926. Serial No. 93,251. 22 Claims. (Cl. 20—52.1.)



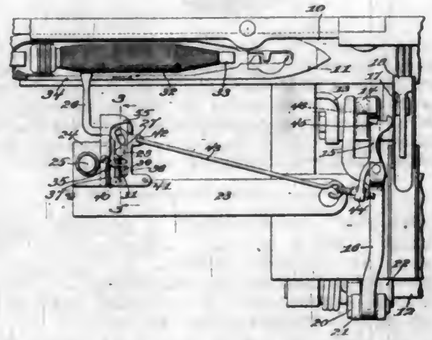
1. The combination with a vehicle having a window-opening and chambers above and at one side of the opening and a window for the opening movable into the chamber above the opening, of a regulator for operating said windows having portions within said chambers.

1,662,392. TRACTION DEVICE FOR MOTOR VEHICLES. CARL O. NORBERG, Worcester, Mass. Filed Aug. 6, 1925. Serial No. 48,633. 2 Claims. (Cl. 301—44.)



2. A traction device for a vehicle wheel comprising a T-shaped body portion having a flat plate engaging the wheel tire, a flange projecting outwardly from the plate and two arms extending inwardly past the sides of the wheel rim, a screw-threaded member mounted on one arm and arranged to adjustably engage the inner surface of the wheel rim, an angle iron adjustably and removably attached to the other arm to project over the wheel rim and a clamping screw threaded through the angle iron to engage said rim.

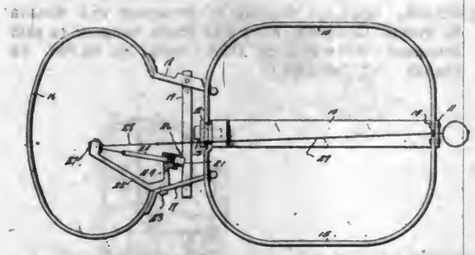
1,662,393. FILLING-FEELER MECHANISM FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 8, 1927. Serial No. 166,700. 4 Claims. (Cl. 139—286.)



1. Filling feeler mechanism for looms having, in combination, a feeler frame provided with a slot, a feeler having a body and an offset filling feeler end, the body having a pivot pin engaging a slot provided with the feeler frame and being adapted to be moved back and forth in the slot by the engagement of the feeler with the filling on the feeler carrier, and being adapted to turn on the pivot when the yarn is sufficiently exhausted to cease to hold the feeler from turning, a trip lever pivoted on the feeler frame with one side normally in engagement with the body of the feeler, said trip lever being provided with a spring seat projection entering the slot in the feeler frame, a spring interposed between the pivot of the feeler and the spring seat projection of the trip lever normally acting to hold the trip lever against the body of the feeler and the feeler in its rearward position, weft replenishing mechanism, and connections between the trip lever and the weft replenishing mechanism.

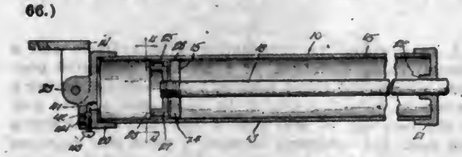
1,662,394. ANIMAL TRAP. ANDRO NYLUND, Alameda, Calif. Filed May 14, 1927. Serial No. 191,441. 1 Claim. (Cl. 43—88.)

A trap of the character described including a base, opposed jaws pivoted upon the base, bracket members extending from the jaws in spaced relation to each other and a partially elliptical spring engaged at its ends with said bracket members and urged to a contracted position to thereby close the jaws, a trigger pivoted upon one of said bracket members, passing through the other bracket member and having a notch,



a latch mounted upon the last named bracket member and resiliently urged into engagement with the notch, a flexible cord attached to the rear end of the latch, a pulley over which the cord passes, the cord extending through the trap above the base thereof, and having means whereby the bait may be attached thereto.

1,662,395. SCREEN-DOOR CLOSER. LEWIS C. NORTON, Chicago, Ill., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed May 15, 1926. Serial No. 109,251. 5 Claims. (Cl. 16—66.)



1. A door check and closer comprising a cylinder, a closer mounted on each end of said cylinder, a hinge member having means whereby it may be secured to a door construction and having a pivotal connection with one of said closures, said pivotal connection being in axial alignment with said cylinder, a piston within said cylinder for retarding the movement of said door, a piston rod secured to said piston and extending through the other closure, a bracket having means whereby it may be secured to a door construction and having a pivotal connection with said piston rod and spring actuating means acting between said bracket and piston rod for exerting a swinging action on said rod for closing the door.

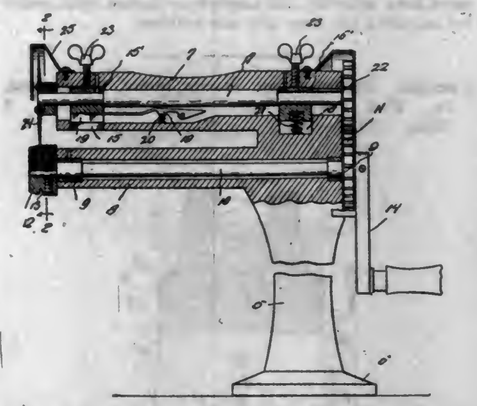
1,662,396. PRODUCTION OF BETA-NAPHTHOL-1-SULPHONIC ACID. ALFRED E. PARMELEE, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 4, 1924. Serial No. 696,899. 7 Claims. (Cl. 260—155.)

1. The process of making beta-naphthol-1-sulphonic acid which comprises acting upon beta naphthol, suspended in an essentially inert liquid substance, with a solution of sulphur trioxide, at a temperature below 16° C.

1,662,397. PREPARATION OF TRIARYLGUANIDINES. ALFRED E. PARMELEE, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 9, 1924. Serial No. 705,210. 5 Claims. (Cl. 260—125.)

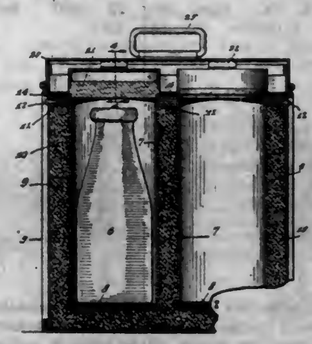
1. The process of making a triarylguanidine, which comprises treating a diaryl thiourea with an aryl amine and a desulfurizing agent in the presence of a chlorobenzene.

1,662,398. LEATHER CUTTER. HARVEY PEPIN, Willimansett, Mass. Filed Dec. 23, 1926. Serial No. 156,638. 1 Claim. (Cl. 164—60.)



In a cutting machine of the class described, a vertical standard, a pair of elongated hollow guide arms arranged horizontally in superposed relation on the standard, the bore of the upper guide arm being greater than the bore of the lower guide arm, bearings arranged in the bores of the arms at the ends thereof, the bearings associated with the upper guide arm being adapted for vertical slidable movement therein, a shaft extending longitudinally through each bore and journaled for rotation in the respective pairs of bearings, means for rotating the shaft simultaneously, a feed roller upon the outer end of the lower shaft, a cutter on the outer end of the upper shaft, resilient means cooperating with the slidable bearings for normally urging the outer carrying shaft away from the feed roller carrying shaft, said resilient means including an elongated leved pivoted at its inner end within the bore of the upper arm below the shaft, the bearing in the upper arm adjacent the outer end thereof being formed with a slot in the lower portion thereof, the outer end of said lever being disposed in said slot and engaging said bearing, an expansible coil spring interposed between the intermediate portion of the lever and the lower portion of the upper guide arm, and manually operable means for moving the upper shaft downwardly toward the lower shaft whereby the space between the cutter and the feed roller may be adjusted.

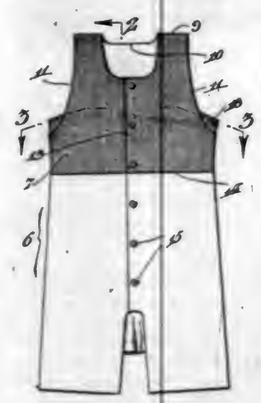
1,662,399. SANITARY MILK-BOTTLE CONTAINER. JOHN M. ROOD and WILLIAM DRIVER, Racine, Wis. Filed May 21, 1926. Serial No. 110,612. 1 Claim. (Cl. 232—41.)



In a milk bottle container, a body portion, a compartment therein, insulating material surrounding said compartment, a keeper for retaining said insulating material

in said body, a gasket over the upper end of said compartment, means for securing said gasket in position, a lid for said container, and a yieldingly mounted closure carried by said lid and adapted to engage said gasket for excluding air from said compartment.

1,662,400. UNDERWEAR. LOUIS RUBIN, Philadelphia, Pa. Filed Feb. 18, 1927. Serial No. 169,214. 1 Claim. (Cl. 2—78.)

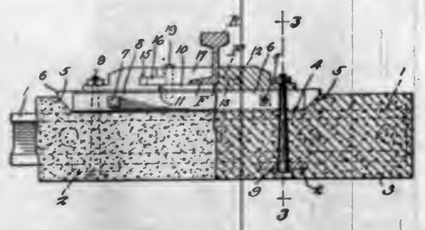


A union suit including a sleeveless main garment made of woven material and having arm holes; a vest of knitted material, having arm holes larger than those in the main garment, secured to the upper part of the main garment; and an elastic band secured in the lower part of each armhole in the main garment.

1,662,401. PROCESS FOR PRESERVING RICE POLISH. JOHN HOWARD SASSEEN, New Braunfels, Tex. Filed Feb. 1, 1927. Serial No. 165,241. 1 Claim. (Cl. 99—11.)

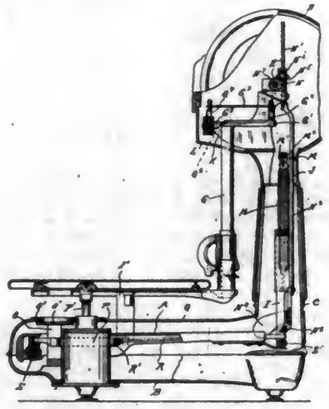
A process for preserving rice polish comprising the subjecting of such polish to the action of heat of a temperature and for a period of time sufficient to cause the oil and fat within the polish to melt and encapsulate the other ingredients contained within the polish.

1,662,402. RAILWAY TIE. RICHARD W. SCHULTZ, Richmond, Va. Filed May 25, 1927. Serial No. 194,127. 2 Claims. (Cl. 238—89.)



1. The combination with a reinforced concrete tie including spaced beams therein and bolts extending outwardly between the beams, there being a recess in the top of the tie through which the bolts extend, of cushioning blocks removably mounted in the recess and insertible laterally thereinto against the bolts and against each other, means extending transversely through the blocks for tying them together, and rail engaging and fastening means mounted on the blocks engaged by the bolts.

1,662,403. SCALE. WALTER F. STIMPSON and WILLIS E. FINCH, Louisville, Ky.; said Finch assignor to said Stimpson. Filed Jan. 25, 1926. Serial No. 83,704. 16 Claims. (Cl. 265—62.)



1. In a scale, the combination with a frame and a pedestal rising therefrom, of a pivotally supported platform, a check rod rising from said platform and having a rearwardly extending arm at its upper end, a pivot post at the rear end of said arm, a link pivotally engaging said post, and extending forward, a pivot post engaging the forward end of said link, and means for detachably securing said pivot post to said pedestal whereby said entire check rod assembly may be attached or detached as a unit.

1,662,404. PROCESS FOR INCREASING THE AFFINITY OF ANIMAL FIBERS FOR DYESTUFFS. ERNST STOCKER, Basel, Switzerland, assignor to The Firm Chemical Works formerly Sandoz, Basel, Switzerland. Filed Oct. 27, 1927, Serial No. 229,272, and in Germany Nov. 20, 1926. 2 Claims. (Cl. 8—13.)

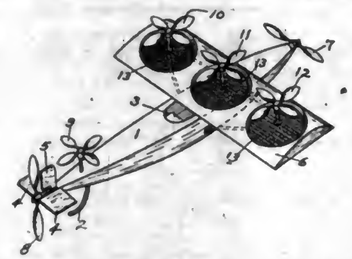
1. A process for increasing the affinity of animal fibers for dyestuffs, consisting in treating animal fibers with sulphuryl chloride.

1,662,405. KNIFE HANDLE. ARTHUR H. SWANK, Fremont, Ohio. Filed Nov. 19, 1926. Serial No. 149,412. 1 Claim. (Cl. 30—9.)



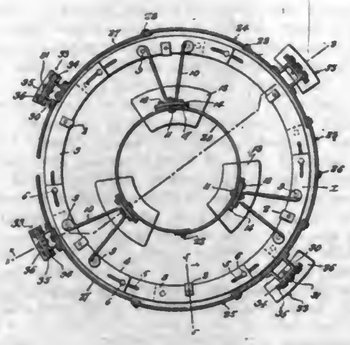
The combination with a knife blade having an integral shank, of a U-shaped frame formed from a single length of material and having a continuous channel therein for receiving the edges of the shank, panels for advertisement engaged with the sides of the shank, and received in said channel, said frame being pressed to firmly hold the panels engaged against the shank and shank confined within the frame.

1,662,406. AIRPLANE. ELMER H. THOMPSON, Medimont, Idaho. Filed Jan. 10, 1928. Serial No. 245,691. 4 Claims. (Cl. 244—15.)



1. The combination with an airplane having a plurality of wells and open frame work therein, of swinging gates supported on the frame-work adapted to close when the airplane is under way, helicopter propellers normally housed within said wells, means for operating said propellers, and means whereby the propellers are initially projected for operation.

1,662,407. SKIRT MARKER. OLIVIA V. TOLBERT, Frys Mill, Ark. Filed Jan. 7, 1927. Serial No. 159,632. 4 Claims. (Cl. 33—9.)

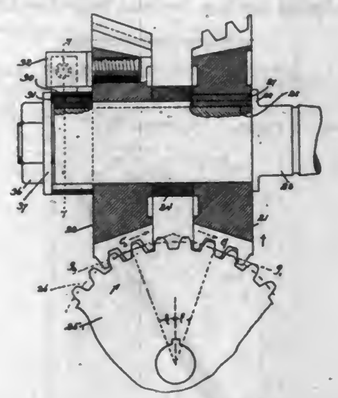


1. A device of the class described comprising a pair of rings forming a chalk holder, each ring consisting of a pair of annular sections, resilient means secured to said rings and normally retaining the same in contact, each of said rings being adapted to have the sections adjusted relative to one another for varying the size of the holder, means for adjustably supporting said chalk holder above a suitable supporting surface, and means adapted for cooperation with said chalk holder to engage a garment for marking purposes.

1,662,408. METHOD AND MEANS FOR HOBBING SPUR GEARS. NIKOLA TESLA, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Mar. 24, 1924. Serial No. 701,527. 17 Claims. (Cl. 90—4.)

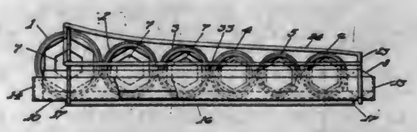
1. A method of hobbing spur gears which consists in mounting two tapered hobs upon a common arbor in such a manner as to simultaneously contact with a gear blank, each of said hobs having the cutting portion helically arranged on the tapered portion thereof in more than one convolution, and in rotating said hobs and blank in timed relation to simultaneously generate opposite sides of the teeth with the respective hobs.

17. A tool for generating spur gears comprising an arbor, a pair of frusto-conical hobs on said arbor having their smaller ends facing each other, said hobs having generating elements helically arranged on the conical surfaces thereof and forming in axial section racks of constant pitch, the smaller ends of said hobs being



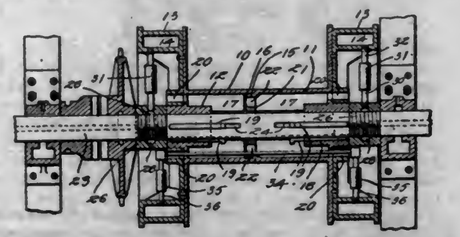
spaced axially of said arbor and said generating elements being arranged in predetermined relationship such as to be capable of simultaneously generating the opposite sides of the teeth of a spur gear.

1,662,409. SOCKET WRENCH SET. CLARENCE E. WAKEFIELD, Worcester, Mass., assignor to Wakefield All-Steel Wrench Company, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1927. Serial No. 180,256. 4 Claims. (Cl. 206—16.)



1. A tray or container for the reception on its bottom of the interchangeable socket members and the common handle member of a socket wrench set, in combination with longitudinally slidable means for retaining all of said parts against said bottom, said retaining means comprising wire loops encircling the tray and its contents at opposite ends, and connected to each other by a wire in overlying relation to the intermediate contents of the tray.

1,662,410. DRUM ASSEMBLY. LEE J. BLACK, Beaumont, Tex. Filed May 12, 1927. Serial No. 190,949. 12 Claims. (Cl. 242—117.)



1. In a drum mounting for draw works and in combination, a shaft, a drum formed in two sections each including a hub, said sections assembled by relative

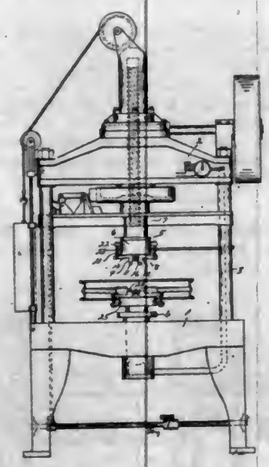
movement thereof longitudinally of the shaft, coacting keyways in the shaft and said hub portions, keys therein, the keyways of the shaft having their outer ends inwardly of the ends of the drum when the sections thereof are in assembled relation upon the shaft and openings permitting driving access to the inner ends of said keys.

1,662,411. SPINDLE FOR PERMANENT HAIR-WAVING MACHINES. SAMUEL BONAT and HARRY BONAT, New York, N. Y. Filed Sept. 25, 1926. Serial No. 137,650. 2 Claims. (Cl. 132—33.)



1. A spindle for permanent hair-waving machines comprising a mandrel, spaced plates with notches therein mounted on and permanently secured to the mandrel and forming a head therefor, a locking bar pivoted between the plates at one side of the notches and means at the other side of the notches to hold the locking bar in closed position.

1,662,412. MACHINE FOR ASSEMBLING SPOKED WHEELS. WILLIAM N. BOOTH, Detroit, Mich. Original application filed May 10, 1922, Serial No. 559,701. Divided and this application filed Nov. 15, 1926. Serial No. 148,538. 4 Claims. (Cl. 157—1.)



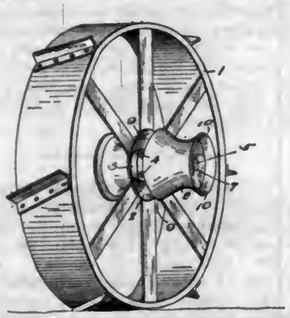
1. In a machine for assembling spoked wheels, the combination with angularly movable means engageable with the inner ends of the spokes over an extended area when the spokes are in angular relation to each other and during their movement to permanent position to radially force the spokes outwardly into engagement with the rim, of means engageable with the sides of the spokes to laterally force the same into permanent position and means for actuating said spoke end and side engaging means.

1,662,413. WRENCH. DAVID MUSSEN BRIGHT, Winnipeg, Manitoba, Canada. Filed July 5, 1923, Serial No. 649,741. Renewed Nov. 28, 1927. 1 Claim. (Cl. 81—67.)



A wrench comprising a handle having a circular or segmental head formed at one end thereof, master links pivoted at one end centrally to the opposite sides of the head, the peripheral portion of the head lying between the said links being provided with a series of teeth arranged concentric to the head, and a chain formed from a plurality of lengthwise extending staggered pivotally connected alternated rows of similar links having one of the terminal rows of links pivotally attached to the free extremities of the master link, each link of said chain having the ends thereof semicircular and being provided on the inner sides with spaced gripping projections and at the outer sides with a cross channel, the side walls of which are curved continuous with and concentric with the ends of the link, the said cross channels of the assembled links being adapted to receive and make rolling contact with the teeth of the head.

1,662,414. TRACTOR-OPERATED WINCH. RUDOLPH BUSCH, Sr., Shelltown, Md. Filed Aug. 11, 1927. Serial No. 212,342. 2 Claims. (Cl. 242—95.)

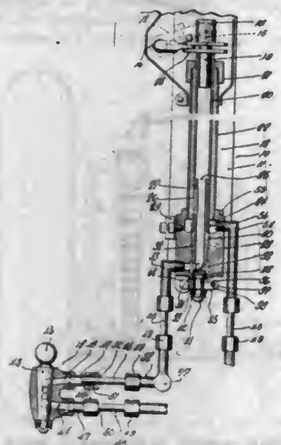


1. In a device of the class described, the combination of a winch, the winch having opposite expanding flange edge portions, a threaded shaft extending through the center of the winch and on which it is mounted, a flat block affixed to the end of said shaft, said block having a plurality of apertures, and means for affixing said block securely to the hub of a tractor wheel.

1,662,415. DYESTUFFS AND PROCESS OF MAKING SAME. ANDRÉ CATINEAU, St. Fons, France, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Apr. 19, 1927, Serial No. 185,083, and in Switzerland Apr. 30, 1926. 20 Claims. (Cl. 260—19.)

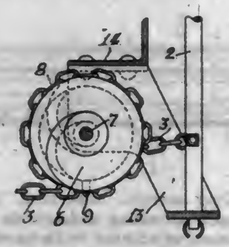
1. The process of making dyestuffs containing sulfur, which consists in heating the leuco-derivatives of the indophenols, which are obtained by condensation of nitrosophenols with carbazoles, with sulfur in presence of aliphatic compounds containing nitrogen in the proportion of at least one nitrogen atom for two carbon atoms.

1,662,416. OVEN-HEAT REGULATORS. EMIL L. CLAUS, Milwaukee, Wis., assignor to Claus Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Nov. 10, 1923, Serial No. 673,953. Divided and this application filed Oct. 14, 1926. Serial No. 141,542. 11 Claims. (Cl. 236—15.)



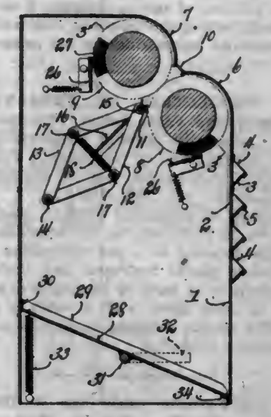
1. In an appliance of the character described, a base member, a normally stationary valve member adjustably mounted in the base member and having one end extended upwardly and its other end projected outwardly of the base member, a second valve member cooperating with the first valve member to govern the passage of fuel therepast, a collar member mounted on the projected end of the first valve member, a screw shaft engageable with the collar member and adapted, upon rotation, to adjust the first valve member, and dial means carried by the screw shaft to display the adjustment of said first valve member.

1,662,417. BRAKE-POWER-MULTIPLYING DEVICE. BYRON L. COOK, San Mateo, and EDWARD O. HERRMANN, Mill Valley, Calif. Filed Sept. 7, 1926. Serial No. 133,960. 1 Claim. (Cl. 254—149.)



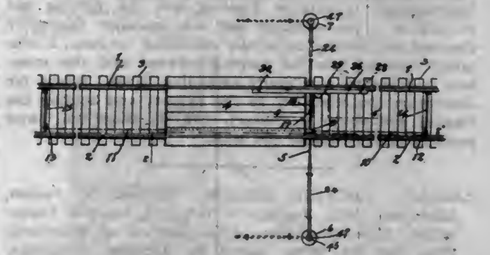
In braking mechanism the combination of a stirrup member; a helically grooved oppositely tapering drum rotatably mounted in said stirrup member; a rotatable brake-shaft stepped in said stirrup member at a level below the lower level of the larger diameter of the drum; a brake-applying instrumentality; and a line-connection secured to said brake shaft at the level of the bottom of the smaller diameter of the drum and thence winding about said drum and connected with the brake-applying instrumentality.

1,662,418. COMB CLEANER. JOHN GRASSER, Manitowoc, Wis. Filed Mar. 28, 1927. Serial No. 179,012. 2 Claims. (Cl. 15—39.)



1. A comb cleaning machine comprising a casing provided with a comb receiving slot, a pair of revoluble brushes for cleaning an inserted comb, a trough-like member for the reception of an edge of the comb while it is being cleaned, said trough-like member being located directly behind the brushes and in alignment with the comb receiving slot and spring urged toggle link mechanism for urging said trough-like member outwardly towards said slot.

1,662,419. RAILWAY-SIGNALING DEVICE. LOUIS HANIFORD, Hanna, Alberta, Canada. Filed May 17, 1926, Serial No. 109,772, and in Canada Mar. 30, 1926. 5 Claims. (Cl. 246—293.)



1. A railway signaling device for use on high crossings comprising a rotatably mounted shaft located at the crossing and extending transversely of the crossing and there beyond, upright rotatably mounted spindles located at the ends of the shaft, intermeshing gears and pinions connecting the shaft to the spindles, a signal carried by each spindle and extending normally parallel with the highway but clear of the tracks, a depressible member located at each side of the crossing and at some distance therefrom and adjacent one of the rails and adapted to be depressed by an oncoming train, means connecting said members to the shaft whereby in the depression of either member the shaft is rotated in a direction to swing the signals transversely of the highway, means for automatically locking the signals in such latter positions,

depressible unlocking means located at the crossing, said unlocking means being adapted upon depression to release the locking means and free the signals and means for returning the freed signals to their initial position.

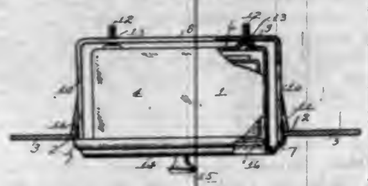
1,662,420. METHOD FOR PREPARATION OF WASHABLE ANILINE DYES. PAUL HARTMANN, New York, N. Y., assignor to Karl Schenzer, New York, N. Y. Filed Nov. 26, 1926, Serial No. 151,026. Renewed Jan. 25, 1928. 2 Claims. (Cl. 8—5.)

1. The process of making a permanent dye consisting of mixing a solution of aniline crystals, a second solution of boracic acid, mixing the solutions intimately, evaporating to dryness and pulverizing the dry mass so obtained.

1,662,421. PRODUCTION OF PRIMARY AMINES. PAUL HEROLD and PAUL KOPPE, Neurossen, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 20, 1927, Serial No. 214,444, and in Germany Aug. 21, 1926. 3 Claims. (Cl. 260—130.5.)

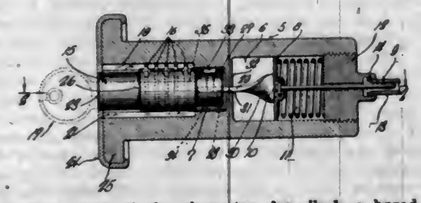
1. The process of producing primary aromatic amines, which consists in reducing the corresponding nitro compounds in the presence of a gas comprising at least one of the reducing agents hydrogen and carbon monoxid, under a pressure of at least 20 atmospheres and at a temperature of at least about 100° C. with a solution containing readily soluble sulphids in an amount insufficient for the complete reduction.

1,662,422. CONTAINER. SYLVANUS W. HODGES, Grand Rapids Township, Kent County, Mich., assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed Sept. 1, 1926. Serial No. 132,917. 2 Claims. (Cl. 224—29.)



1. In combination with a wall having an opening therethrough: a support inserted into the opening and comprising a rear member and side members oppositely disposed and having outwardly extending tongues; a container inserted into the opening between said side members and having a laterally extending flange; means for connecting the container to the support and holding the tongues and flange in contact with the inner and outer surfaces respectively of the wall.

1,662,423. LOCKING DEVICE. EDWARD N. JACOBI, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 18, 1926. Serial No. 155,628. 7 Claims. (Cl. 70—46.)



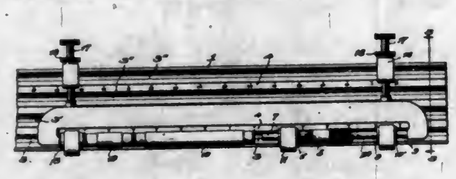
1. In a lock of the character described, a bored stationary shell, a key actuated cylinder rotatably and slidably mounted in the shell bore, tumblers carried by the cylinder and engageable in a locking recess in the shell to normally lock the same in the bore, the cylinder being rotatable upon disengagement of the tumblers from their locking recess by a proper key inserted in the cylinder, a helical member, means securing the helical member to the cylinder, said helical member working in a slot in the shell whereby actuation of the tumblers by a key inserted in the cylinder and the rotation of the cylinder causes said helical member to impart longitudinal movement to the cylinder.

1,662,424. MULTIPLE TOOL. JOSEPH J. JUDGE, Rochester, N. Y. Filed Dec. 26, 1922. Serial No. 608,815. 5 Claims. (Cl. 81—177.)



1. A multiple wrench comprising a brace having an elongated shank rod provided at its end with means for engaging and rotating a wrench socket and arranged to receive a plurality of wrench sockets having openings therethrough and adapted to be strung together on said shank rod when not in use and to be associated individually and interchangeably with said socket engaging means in use and a detachable retaining device for the unused sockets forming a stop for the socket mounted in operating position upon the shank.

1,662,425. MEASURING MACHINE. ALBERT KINGSBURY, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 14, 1922. Serial No. 594,574. 22 Claims. (Cl. 33—165.)



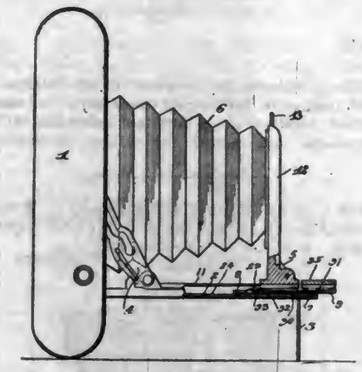
1. A measuring machine comprising, in combination, a supporting member having a groove in the upper face thereof, a micrometer adapted to lie in said groove, and means whereby said micrometer may be secured in said groove, the latter being adapted to receive a member to be measured.

1,662,426. DUST MOP. ARTHUR C. KOOTZ, Milwaukee, Wis., assignor to Gem Hammock & Fly Net Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 12, 1926. Serial No. 121,883. 4 Claims. (Cl. 15—227.)



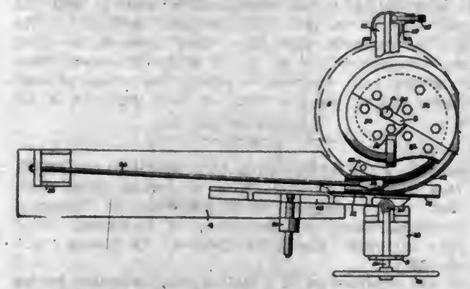
1. In a mitten type dust mop, a hand-receiving casing having a mop element forming one side thereof and formed of woven mop fabric having the original warp threads of the fabric itself depending therefrom at spaced intervals to form mop strands.

1,662,427. CAMERA FOCUSING MECHANISM. ROBERT KROEDEL and CHARLES F. SPEIDEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 8, 1922. Serial No. 586,990. 6 Claims. (Cl. 95—45.)



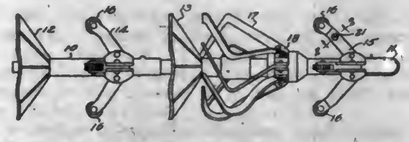
1. In a photographic camera, the combination with a main bed and an extension bed guided thereon, of a pair of indicators on one of said elements having the form of shouldered lugs, two scales on the other element graduated in different units of linear measurement and with which the indicators respectively cooperate, and a projection on said last mentioned element adapted to cooperate with the indicators as stops to limit the relative movement of the beds in both directions.

1,662,428. MACHINE FOR MAKING MANDRELS. CLYDE E. LOWE, East Cleveland, Ohio. Filed July 31, 1924. Serial No. 729,242. 11 Claims. (Cl. 153—40.)



1. A die for drawing tire mandrels comprising a segmental metal block formed with a peripheral groove, the block being split upon a plane which intersects said groove and the different segments constituting arcs about different centers, said block having an elongated slot which contains said centers.

1,662,429. PROCESS OF AND APPARATUS FOR LOCATING OBSTRUCTIONS IN PIPE LINES CARRYING FLUIDS. ALEXANDER LOWY, Pittsburgh, Pa. Filed Apr. 18, 1925. Serial No. 24,295. 13 Claims. (Cl. 250—84.)



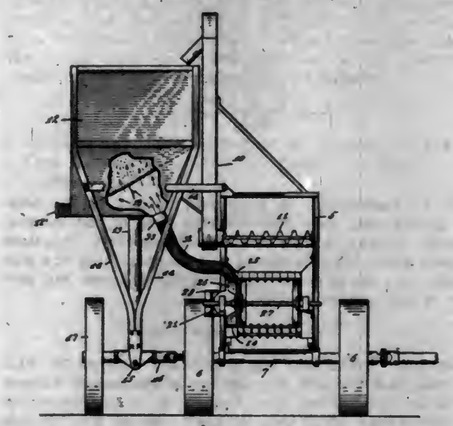
1. For use with a radium emanation detector, an apparatus consisting of a tool adapted to be used within a pipe line and including a radio-active substance adapted to activate said detector.

1,662,430. ART OF INCRUSTING GALVANOPLASTY AND THE OBJECT PRODUCED THEREBY. FREDERICK MAAS, New York, N. Y., assignor, by mesne assignments, to Natural Flower Metalizing Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 26, 1925. Serial No. 52,540. 6 Claims. (Cl. 204—8.)



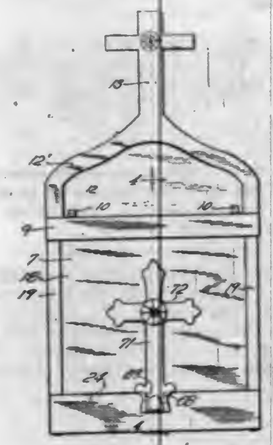
1. The art of galvanoplasty comprising first coating an object with stiffening material, then coating said object with a base containing phosphorus, rubber, asphaltum, carbon bisulphide and binding material, coating with silver nitrate on said base whereby said base reacts with the silver nitrate to render the surface conductive, and then electroplating said object.

1,662,431. COMBINATION HARVESTER THRASHER. WALLACE F. MACGAZOON, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed May 21, 1926. Serial No. 110,627. 10 Claims. (Cl. 130—27.)



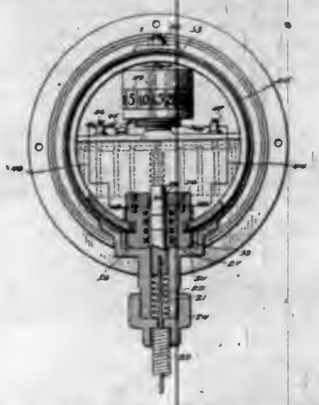
1. The combination, with a thrashing machine, of a bin for receiving thrashed grain therefrom, a fan communicating with said bin, and means associated with the thrashing machine for actuating said fan to discharge an air blast through the grain in said bin.

1,662,432. COLLECTION BOX. VICTOR G. MATRE, Chicago, Ill. Filed Jan. 31, 1925. Serial No. 6,142. 9 Claims. (Cl. 232—12.)



1. In a coin box, the combination of a supporting casing, a coin receptacle removable from the top of said casing, a cover for said coin receptacle, and lock mechanism housed below said coin receptacle for locking said receptacle and said cover to said supporting casing.

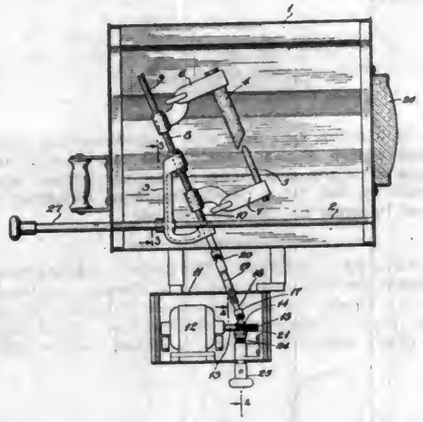
1,662,433. ELECTRIC SPEEDOMETER. HOWARD J. MURRAY, New York, N. Y. Filed June 20, 1922. Serial No. 569,759. 10 Claims. (Cl. 171—209.)



7. In combination, a permanent magnet in the form of a split ring, pole pieces at the ends of the magnet, means forming an electric circuit including inductors wound about the pole pieces, a yoke connecting the pole pieces and an armature reciprocating between the pole pieces and guided in the yoke.

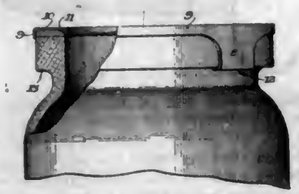
1,662,434. CONTROL MECHANISM. MERVYN W. PALMER, New York, N. Y., assignor to Paramount Famous Lasky Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1927. Serial No. 159,010. 4 Claims. (Cl. 176—74.)

1. In combination, a pair of co-operating electrodes, two branch circuits, said electrodes being in series with one of said circuits, a reversible electric motor having its armature connected across said branch circuits, a field for said motor connected across said electrodes, and means for mechanically connecting said electrodes to



said motor, whereby a variation in the voltage of the current flowing in the circuit containing the electrodes will effect rotation of the motor armature to actuate the electrodes and restore the voltage to normal.

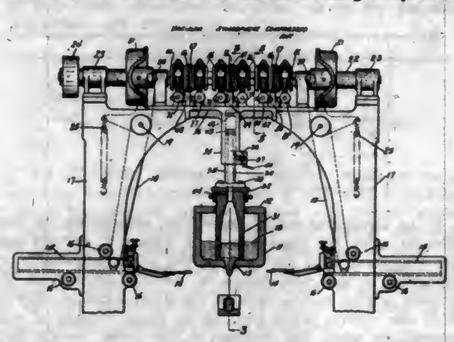
1,662,435. VACUUM-SEALING CAP. WILLIS J. PEELLE, Chicago, Ill. Filed Feb. 17, 1927. Serial No. 168,933. 3 Claims. (Cl. 215—56.)



1. A vacuum sealing jar cap having, in combination, a disk with a plurality of lugs formed at the edge of the disk and spaced a substantial distance apart, said lugs being adapted to engage the jar at spaced points in its periphery so as to secure the cap to the jar at such points, and a sealing gasket of nonvulcanized substantially nonresilient material adhesively secured to the disk so as to be interposed between it and the upper edge of the jar, the unsecured portions of the disks intermediate said lugs being adapted to yield under pressure within the jar in a direction away from the sealing seat, whereby to permit the escape of such pressure during the processing of food products in the jar.

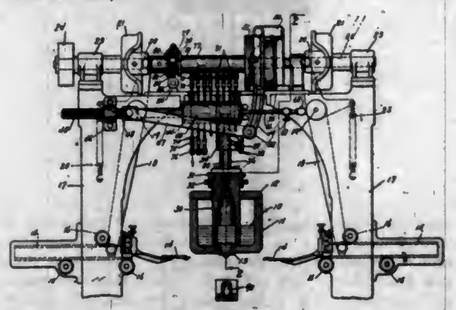
1,662,436. APPARATUS FOR AND METHOD OF FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed July 17, 1920. Serial No. 396,934. 39 Claims. (Cl. 49—55.)

3. The combination of a molten glass container having a submerged outlet, means to periodically apply pneumatic pressure on the surface of the glass to exert an extruding force thereon, means to periodically reduce the pressure on the surface of the glass to a point below atmospheric pressure to exert an intruding force on the glass at the outlet, means for periodically exposing the surface of the glass to atmospheric pressure for a definite period of time whereby glass is extruded by the action of gravity alone,



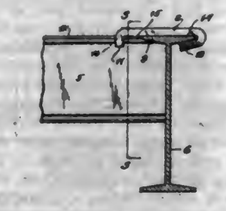
and means operating in timed relation with said pressure applying means to periodically sever the glass adjacent to the outlet.

1,662,437. APPARATUS FOR FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed July 28, 1920, Serial No. 399,595. Renewed Sept. 2, 1926. 31 Claims. (Cl. 49—55.)



1. The combination with apparatus for separating molten glass into mold charges, of a glass container having a submerged outlet, a pump for supplying abnormal air pressure to the surface of the glass to control its movement in the outlet, and means independent of the pump for variably regulating the air pressure.

1,662,438. CLIP FOR TEMPORARILY SUPPORTING STRUCTURAL MEMBERS. WILLIAM F. REINHOLD, Buffalo, N. Y. Filed Oct. 21, 1927. Serial No. 227,702. 8 Claims. (Cl. 189—35.)

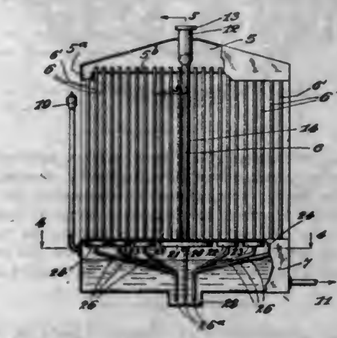


1. A clip of the character described, comprising a body portion adapted to rest on the upper side of the supporting beam, a finger at one end of said body extending laterally outward therefrom parallel with said supporting beam and adapted to engage an under surface of the supported beam and means coacting with said supporting beam for preventing downward movement of said finger.

1,662,439. PROCESS OF PURIFYING METALLIC ANTIMONY. CHARLES A. ROSE, Cranford, and CHESTER L. READ, Rahway, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 24, 1926. Serial No. 131,306. 12 Claims. (Cl. 75—17.)

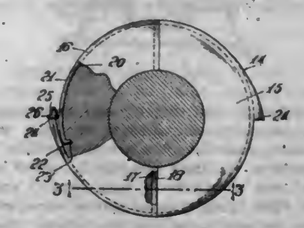
1. A method of purifying antimony which consists in heating the impure antimony to a temperature slightly above its melting point, passing a regulated stream of chlorine gas into the said molten metal until the impurity metals have been converted to chlorides, then ceasing the flow of said chlorine gas, removing the metal chlorides from the antimony, collecting said metal chlorides, separating each from the other and converting them into other forms.

1,662,440. CONDENSER FOR MOTOR-COOLING SYSTEMS. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed June 19, 1925. Serial No. 38,133. 13 Claims. (Cl. 257—25.)



1. In a circulatory cooling system for internal combustion engines adapted to operate by the boiling and condensing cycle, a serially included radiator-condenser having separate steam distributing and condensate collecting chambers with a suitable number of condenser tubes or passages receiving steam from said distributing chamber and draining condensate into said collecting chamber through the drainage outlets submerged below the normal level of the body of water in the collecting chamber and near the center of said chamber.

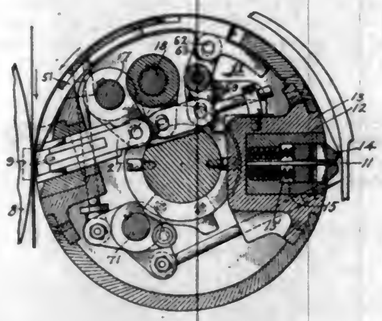
1,662,441. HUB LINER. JOHN R. SEXTON, La Junta, Colo. Filed July 2, 1926. Serial No. 120,123. 5 Claims. (Cl. 85—51.)



5. A hub liner of the character described, comprising a plurality of flat-sided segmental sections, the radial edges of the sections having interlocking relation with

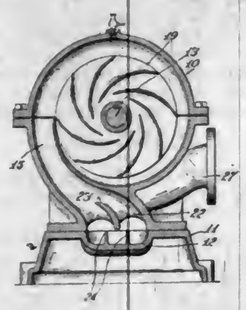
each other, the circumferential edges being grooved, at least one of said sections having a radially disposed projection disposed on each side of the groove, and a socket on its outer perimeter, an encircling band adapted to fit into said groove, one end of the rod being of hook-form to engage in said socket while the other end is threaded and is disposed between said projections, and means threaded onto the threaded end of the band and engaging said projections.

1,662,442. STAPLING MECHANISM. EDWARD P. SHELDON, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 28, 1926. Serial No. 84,264. 16 Claims. (Cl. 1—7.)



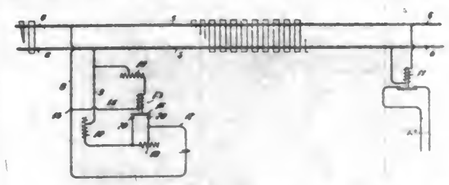
1. The combination of a rotary carrier, staple forming and inserting mechanisms carried thereby, means for operating the staple forming mechanism, means for operating the staple inserting mechanism, a support, and means controlled by the staple inserting mechanism for positioning the support between the roduct and the inserting mechanism while the staple is being inserted in a product.

1,662,443. CENTRIFUGAL PUMP. JOHN B. SPERRY, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed Feb. 18, 1924. Serial No. 693,553. 11 Claims. (Cl. 103—108.)



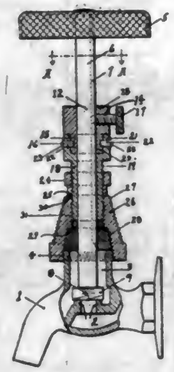
1. A multi-stage centrifugal pump comprising in combination a plurality of impellers, separate volute passages in which said impellers are respectively located, a pressure chamber of large capacity to which one volute passage delivers at relatively high velocity and through which the fluid being pumped passes at relatively low velocity to the suction of the next volute passage, and oppositely disposed vanes in offset relation to each other extending along said pressure chamber between consecutive passages for causing the fluid to pass smoothly from one stage of the pump to the next succeeding stage.

1,662,444. AUTOMATIC VOLTAGE REGULATOR. FREDERICK A. TROBLER, St. Joseph, Mo. Filed Nov. 6, 1925. Serial No. 67,388. 5 Claims. (Cl. 246—41.)



1. An automatic voltage regulator, comprising, in combination with the track circuit, a source of current supply connected with the rails of the track, adjustable resistances in the connections or control wires from the current source to the rails, a relay arranged in parallel with the control wires adapted to shunt certain of said resistances when the voltage in the track circuit falls below a predetermined point and to introduce the resistance when the voltage of the track circuit increases above said point.

1,662,445. VALVE-RESEATING TOOL. JOSEPH W. TROHA, Cleveland, Ohio. Filed May 11, 1927. Serial No. 190,580. 7 Claims. (Cl. 90—12.5.)



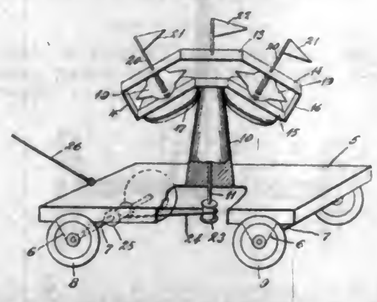
6. In a valve reseating tool of the class described, the combination of a conical centering element externally and internally threaded having an axial threaded bore and also internal and external stop faces, said centering element being adapted to be attached to a valve-casing, a feeding device in threaded engagement with the centering element and a lock ring, and provided with an axial bore and also with an integral socket wall at its upper end adapted to hold a clamping means, said socket wall also having perforations adapted to retain securing pins, a tool-stem clamping means having an axial smooth aperture, also an integral reduced portion with an annular intermediate groove and a threaded bore at right angles to the axial aperture for securing a tool-stem locking means, said clamping means being rotatably mounted in the socket and secured therein by the terminal ends of the securing pins which pass through the socket wall and engage in the annular intermediate groove, a lock ring screw-threadedly engaging the feeding device and coacting with the external stop face to limit movement, a tool-stem slidably and rotatably mounted in the clamping means and feeding device, adapted at its lower end to threadedly engage a cutter having a plurality of cutting edges and at its upper end a rotating means to operate the said tool-stem with its cutter, and a lock screw in the clamping means to engage the tool-stem to lock said tool-stem in the clamping means so as to hold the cutter against the valve seat.

1,662,446. METAL-FOIL ELECTRODE. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to Wappler Electric Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Jan. 14, 1924. Serial No. 686,288. 2 Claims. (Cl. 174—89.)



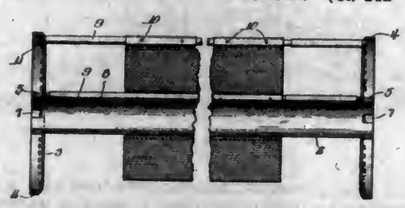
1. An electrode, comprising a flexible sheet of non-conducting material provided with a slot, and a coating of metal foil secured flatwise against said flexible sheet of material, said coating of metal foil being provided with a portion extending through said slot in order to facilitate making an electrical connection with said coating of metal foil, said flexible sheet of non-conducting material and said coating of metal foil being as a whole flexible, substantially as described.

1,662,447. WHEELED TOY DEVICE. EDWARD P. WATSON, Floral Park, N. Y. Filed Nov. 26, 1926. Serial No. 150,783. 6 Claims. (Cl. 46—45.)



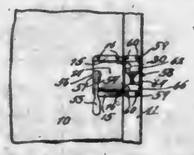
6. A wheeled toy comprising a frame, wheels for supporting and moving said frame over a surface, a horizontally arranged body mounted in spaced relation to and arranged over said frame, a vertical axis on said body and extending through and supported in said frame and in operative connection with said wheels, whereby in the movement of the toy said body is rotated, members arranged at the opposite sides of said body and carried by and movable therewith, said members having vertical shafts rotatable in said body and arranged angularly with reference to the axis of said body and means whereby said members may be rotated in different directions in said body in the rotation of said body.

1,662,448. GELATIN PAD ROLL AND SPINDLE THEREFOR. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a Corporation of West Virginia. Filed Apr. 9, 1926. Serial No. 101,007. 15 Claims. (Cl. 242—74.)



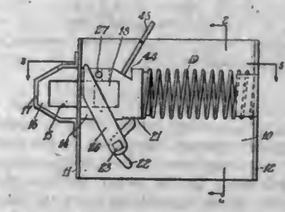
1. A gelatinized sheet having secured at the end thereof a secondary spindle adapted to be sprung as relates to its length for varying the length in fastening the spindle to hold the gelatin pad roll in form.

1,662,449. REFRIGERATOR LATCH. WILLIAM ZUBOW, Chicago, Ill. Filed Mar. 22, 1927. Serial No. 177,291. 3 Claims. (Cl. 292—335.)



1. In a latch for refrigerator doors or the like, a casing adapted to be mounted on the door, a bolt slidable in the casing and having a roller on its free end, a spring for projecting the bolt, a pivoted tripping member mounted in the casing and having a projection extending from the casing, means for moving the tripping device into engagement with the bolt to hold the bolt retracted and to limit the projection thereof, a bell crank pivoted in the casing and operatively connected with the bolt, a lever pivoted on the casing and having an arm to engage the bell crank for retracting the bolt when the lever is moved on its pivot to open the door, a keeper adapted to be mounted on the door frame and having a beveled portion to engage the bolt roller when the bolt is projected to hold the door closed, and a plate portion to engage the projection of the tripping device when the door is moved to closed position for releasing the tripping device from the bolt to permit automatic projection thereof behind the keeper whereby the door is held closed.

1,662,450. VEHICLE DOOR LATCH. CLARENCE G. ANDERSON, Los Angeles, Calif. Filed Oct. 8, 1925. Serial No. 61,192. 2 Claims. (Cl. 292—168.)

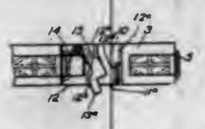


1. A latch comprising a casing, a lever retracted sliding bolt, a keeper having a pair of aligned recesses adapted to alternately receive the sliding bolt when the latter is in extended position, said sliding bolt having a triangular recess on one side, a spring behind said sliding bolt yieldably extending the latter, a bar pivoted intermediate its ends on said latch, one end of said bar engageable in the recess of the sliding bolt to retain the latter in retracted position, a spring connected to said bar normally urging the latter into engagement in the recess of the sliding bolt, and means for tilting said bar out of engagement with the sliding bolt.

1,662,451. CHAIN BRACELET AND CLASP. CHARLES H. BATCHELDER, North Attleboro, Mass., assignor to Wallace G. Franklin, Clarence W. Fisher, and Elton B. Fisher, Copartners doing business under name of E. I. Franklin & Co., North Attleboro, Mass. Filed Mar. 28, 1925. Serial No. 19,150. 1 Claim. (Cl. 24—230.)

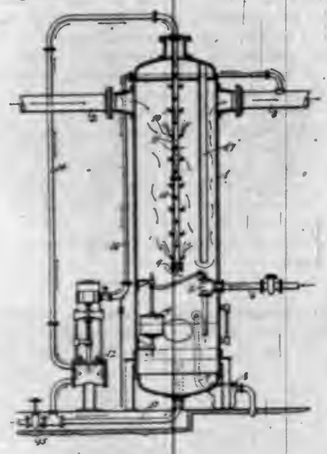
In a chain bracelet or the like, a clasp made up of two box members, having front, back and end walls, one box having also a slot in the free end wall of the box and carrying within the box a spring detent, swinging transversely in the plane of the front and back walls of the box and having a finger piece projecting without

the box, the other box member carrying a flat transverse hook at its free end, lying in the plane of the front and back walls, the hook having a detent notch



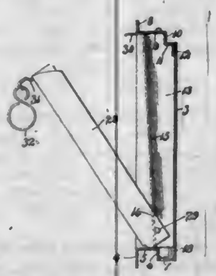
in its forward side to cooperate with the spring detent and a hook forming recess at its rear side to receive a portion of the end wall of the other box member.

1,662,452. DESUPERHEATER. FALCONER M. BIRKS, London, England. Filed Apr. 5, 1927, Serial No. 181,120, and in Great Britain Feb. 9, 1926. 5 Claims. (Cl. 122—459.)



1. A de-superheater comprising a container having a steam inlet and a steam outlet in the upper portion thereof, means for causing the steam to reverse in direction between the inlet and outlet, means for maintaining a body of water in the lower portion of said container, a water spraying device in said container between the steam inlet and steam outlet, and means for transferring the water in the vessel to the spraying device.

1,662,453. METAL WINDOW. PETER M. BOECK, Grand Haven, Mich., assignor, by mesne assignments, to Joachim R. M. Knudsen, Muskegon, Mich. Filed Oct. 4, 1926. Serial No. 139,249. 2 Claims. (Cl. 189—69.)



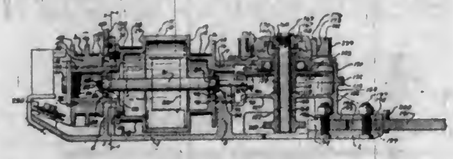
1. In a window, an outer casing of metal having vertical ends, guides at each end of the casing inclined slightly to the vertical, each of said guides including a laterally extending flange having a portion thereof cut away near its lower end to form an opening or recess, a window sash mounted within said casing, said sash at each end having a part extending back of the adjacent guide, and a member attached to the lower end of each of said mentioned parts located back of its adjacent guide so that the sash may be tilted or bodily moved upward on said guides or removed from the casing when said members are brought into position to pass through the openings or recesses in the guides.

1,662,454. CARRIER FOR BRAIDING MACHINES. WILLIAM E. COOK, New York, N. Y. Filed May 29, 1926. Serial No. 112,424. 8 Claims. (Cl. 96—18.)



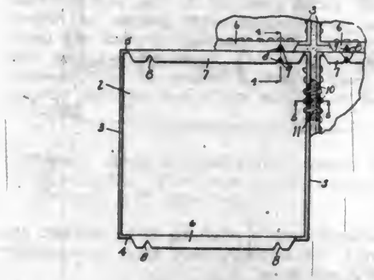
1. A carrier for braiding machines embodying therein a base, a spindle for a bobbin or cop, a stem, a traveller slidably mounted on said stem, a spring acting to normally force said traveller towards said base, a stop member unconnected with said traveller, and slidably mounted adjacent said base, and a latch member engageable with said stop member, and positioned in operable relation to said traveller, whereby excessive movement of said traveller by said spring will actuate said latch to release said stop member.

1,662,455. MINING MACHINE. KENNETH DAVIS, Ebensburg, Pa., assignor to Rembrandt Peale, St. Benedict, Pa.; W. Sanders Davies, New York, N. Y.; and William S. Wallace, Philadelphia, Pa., trustees. Filed Mar. 4, 1926. Serial No. 92,154. 37 Claims. (Cl. 262—30.)



1. A mining machine including in combination a motor having a rotatable field and a rotatable armature, a kerf cutter, means for driving the kerf cutter from one of said rotatable motor elements, and means driven from the other of said rotatable motor elements for progressing the machine during the kerf cutting.

1,662,456. METAL TILE. JAMES C. DE VOL, Battle Creek, Mich. Original application filed Aug. 11, 1926, Serial No. 128,559. Divided and this application filed Apr. 13, 1927. Serial No. 183,364. 3 Claims. (Cl. 72—19.)



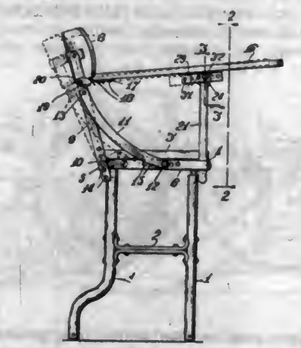
1. A metal tile comprising a face plate and integral side walls connected at their ends, one of said side walls having an inwardly projecting extension at its edge, the face of said extension being in the plane of the edges of the side walls, the extension being notched for engagement with an attaching stud.

1,662,457. FURNITURE CONSTRUCTION. WILLIAM S. FERRIS, Elkhart, Ind. Filed Jan. 8, 1924. Serial No. 685,006. 7 Claims. (Cl. 155—194.)



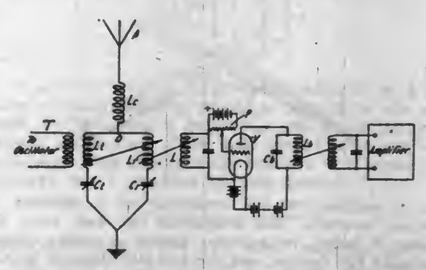
1. An article of furniture embodying therein a plurality of leg members, a hollow brace extending between a pair of said legs, each brace comprising transversely separated parts of a length equal to the distance between said leg members, a plurality of tubular reinforcing members arranged within the parts of said brace, and extending longitudinally thereof, and means securing said brace parts together at a plurality of points.

1,662,458. CHAIR. WILLIAM S. FERRIS, Elkhart, Ind. Filed Jan. 25, 1924. Serial No. 688,415. 6 Claims. (Cl. 155—125.)



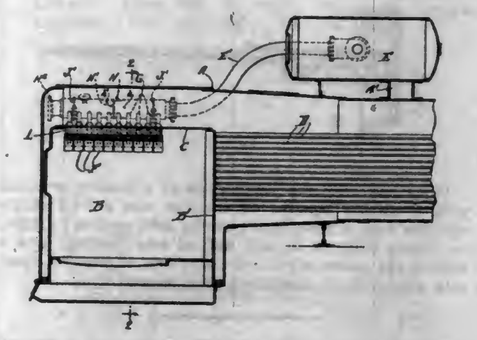
1. A chair embodying therein a frame, a back rest supporting frame secured to the first mentioned frame, said securing means being formed to permit vertical adjustment and forward and rearward swinging movement, a tablet arm, means connected to the back rest supporting frame for supporting the rear part of the tablet arm, a support for the forward part of the tablet arm, and means adjustably connecting the tablet arm to the last mentioned support whereby relative forward or rearward adjustment may be had.

1,662,459. WIRELESS SIGNALING. CHARLES SAMUEL FRANKLIN, Buckhurst Hill, and PETER PENDLETON ECKERSLEY, Witham, England, assignors to Radio Corporation of America, a Corporation of Delaware. Filed May 17, 1922, Serial No. 561,558, and in Great Britain May 25, 1921. 9 Claims. (Cl. 250—9.)



1. In signaling systems, a transmitting-receiving circuit comprising a common portion and a pair of mutually coupled branches connected to said common portion, said common portion and one of said branches being adjusted to be resonantly responsive to oscillations of a predetermined frequency, and said common portion and the other branch being adjusted to be resonantly responsive to oscillations of a different frequency, and a circuit coupled to one of said branches and comprising a portion resonantly responsive to oscillations of a frequency equal to the difference between said first two frequencies.

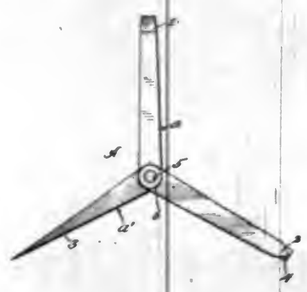
1,662,460. RADIANT-HEAT SUPERHEATER FOR BOILERS OF THE LOCOMOTIVE TYPE. WALTER F. KEENAN, Jr., Pelham, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed May 19, 1924. Serial No. 714,309. 6 Claims. (Cl. 122—481.)



1. In a boiler comprising an internal combustion chamber with a crown sheet roof and flues leading away from the combustion chamber, the improvement which consists

in a radiant heat superheater comprising a plurality of conduit elements arranged side by side in the combustion chamber immediately beneath the crown sheet.

1,662,461. COMBINATION TOOL. RALPH KLABOE, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,407. 2 Claims. (Cl. 7—16.)



1. A combination tool consisting of a plurality of separate members, each comprising two unit tools, the shanks of which, respectively, diverge at angles of substantially 120 degrees, and the separate elements of said tool being pivotally connected at the juncture of the unit tools thereof, respectively.

1,662,462. FUNGICIDE. HUGO L. KLEINHANS, Newark, N. J., assignor to Charles Cooper & Company, Inc., Newark, N. J., a Corporation of New Jersey. Filed Nov. 1, 1924. Serial No. 747,381. 1 Claim. (Cl. 167—6.)

A fungicide comprising: a mixture of sulphur and carbonate of copper as reciprocal diluents whereby the said admixture is rendered miscible in water, and said carbonate of copper acting, while each of the ingredients retains its own fungicidal properties, to neutralize in the soil the acid compounds formed by the sulphur.

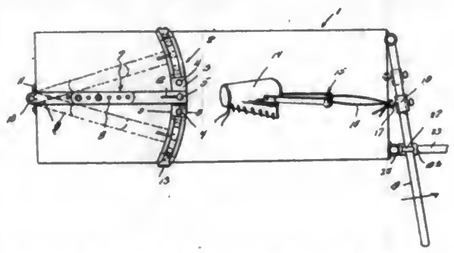
1,662,463. INDICATOR. NEWELL CHANDLER MCCONAHY, Tyrone, Pa. Filed Oct. 19, 1925. Serial No. 63,453. 1 Claim. (Cl. 116—129.)



In an indicator, the combination of a housing provided with a circular opening on one side and a wall on its opposite side; a glass face covering said opening; a tubular casing mounted in said wall of said housing; and a flexible dial mounted on said casing and adapted to clamp said glass face in position in the housing.

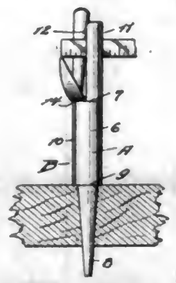
1,662,464. FRACTURE DEVICE. LEX GLIN MCCUTCHEN, St. Louis, Mo. Filed Feb. 15, 1927, Serial No. 168,342. Renewed Jan. 5, 1928. 6 Claims. (Cl. 128—84.)

1. In a fracture device of the class described, in combination, a table, a transverse arcuate track attached to said table, a swingably mounted support for the patient having one end adjustably connected with said track, a



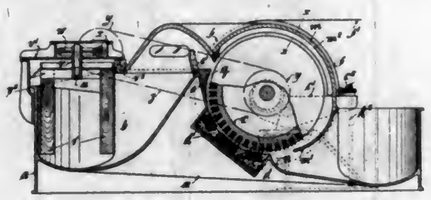
swingably mounted lever, a retaining device therefor, and means whereby the fractured part may be detachably connected with said lever.

1,662,465. GOLF-CLUB GAUGE AND TRUING TOOL. WILLIAM H. MCGEE, Los Angeles, Calif. Filed July 15, 1926. Serial No. 122,608. 3 Claims. (Cl. 33—174.)



1. In a device of the class described, an element having a substantially cylindrical body and an aligned coniform extension the small end of which is directed away from said body, and a second element to cooperate therewith having a substantially cylindrical tubular body adapted closely to fit around the tubular body of the first named element and an aligned extension of substantially semicircular section which is adapted to cooperate with said coniform extension when said elements are in telescopic relation to each other to detect distortion in the hosel of a golf club.

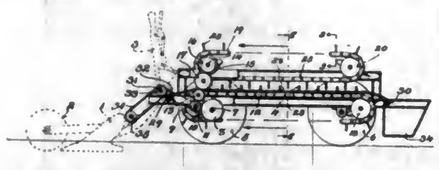
1,662,466. PAPER PULP AND LIKE BEATING ENGINE. SAMUEL MILNE, Edinburgh, Scotland. Filed Nov. 3, 1926, Serial No. 145,981, and in Great Britain Nov. 23, 1925. 3 Claims. (Cl. 92—24.)



1. A paper pulp or like beating engine comprising a tank and a longitudinal mid-feather in said tank, a beater roll between said mid-feather and one side of the tank, bearings for said roll, levers carrying said bearings, and worm and worm wheel mechanism for adjusting said levers, and regulatable balance weights for said

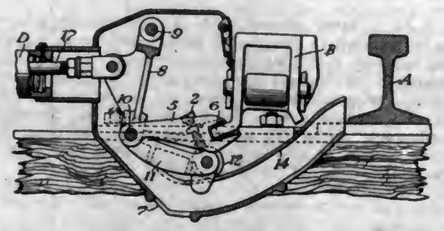
levers and roll, a backfall lying close to said roll and extending at a slight angle above the level of the roll axis, a bedplate for said roll extending towards the backfall through an arc of about 75° and a cover closely fitting and covering in the roll and also covering in the backfall, that part of the cover fitting the roll having angled or sloping faces opposite the space between itself and the roll ends and on the side next the backfall having filling strips, and on that side of the roll furthest from the backfall said cover extending down to a point near the floor of the tank, as set forth.

1,662,467. ROOT ERADICATOR. GEORGE T. MINSHALL, Elkhorn, Wis. Filed Sept. 6, 1923. Serial No. 661,212. 1 Claim. (Cl. 209—308.)



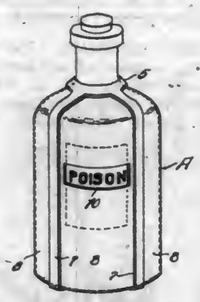
A root eradicator comprising an upper frame member and a lower frame member, spacing members holding said frame members apart, supporting wheels having shafts journalled in the lower frame member, drums carried by said lower frame member and spaced apart and positioned adjacent the front and rear of the machine, drums carried by the upper frame member and spaced apart and positioned adjacent the ends of the machine, means for driving the drums from said wheels, a lower endless belt carried by said first mentioned drums, an upper endless belt carried by said second mentioned drums, said belts having horizontal stretches positioned between said frame members and having teeth arranged in staggered relation, said means for driving the belts imparting different speeds to said belts, said lower frame member extending forwardly and rearwardly beyond said first mentioned drums, guiding rods carried by said lower frame member and projecting beyond said belts, a hopper carried by the rear projecting portion of said lower frame member, said rods extending into said hopper, and means for elevating soil and roots and depositing such soil and roots upon said guiding rods, whereby said soil and roots may be picked up by said belts, and the roots broken by the fingers carried by said belts and deposited in said hopper.

1,662,468. RAILWAY SKATE-OPERATING APPARATUS. GEORGE F. MURPHY, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 21, 1927. Serial No. 207,438. 5 Claims. (Cl. 104—257.)



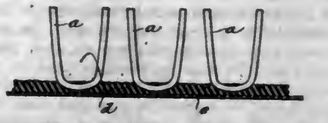
1. A railway skate operating mechanism comprising a cradle, two arms pivotally connected with said cradle and normally resting thereon, said arms having aligned yokes for detachably engaging a skate, and means for moving said cradle to shift the skate to and from its active position on the track rail.

1,662,469. SAFETY HARNESS FOR POISON BOTTLES. ELI J. PALMER, Los Angeles, Calif. Filed Mar. 7, 1927. Serial No. 173,293. 4 Claims. (Cl. 215—9.)



2. A safety harness for bottles, constructed as a tubiform of elastic material having an opening in one of its ends for encircling a bottle top and a slit within its length spaced away from said opening, said slit being sufficiently long to permit the insertion of a bottle therethrough, and a reinforce for said opening.

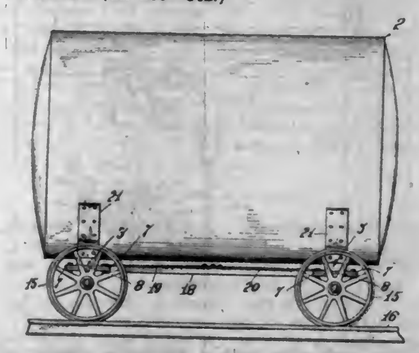
1,662,470. IMITATION FUR AND PROCESS OF MAKING THE SAME. CARLOS T. PASTOR, Port Washington, N. Y. Filed Mar. 20, 1926, Serial No. 96,344, and in Germany Nov. 26, 1925. 8 Claims. (Cl. 154—2.)



1. The process of making a fabric of the character described which comprises making a pile fabric having warp and filling, applying to the back of the fabric a permanent backing adhering to and fixing the inner ends of the pile, and removing the warp and filling.

6. As a new article of manufacture, a pile fabric comprising a soft, pliable and elastic skin-like body of homogeneous material and a regularly distributed pile of loose fibres fixed therein and bound together solely thereby.

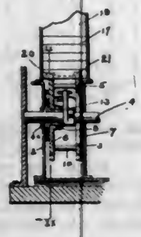
1,662,471. TANK-CAR CONSTRUCTION. HARRY W. PROTZELLER, East Chicago, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Feb. 23, 1927. Serial No. 170,299. 6 Claims. (Cl. 105—362.)



1. A tank car construction embodying therein a running gear comprising a pair of bolsters, supporting wheels and axles for each bolster, a reach bar connecting

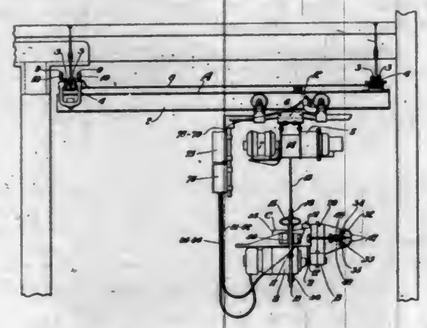
said bolsters together, bracing means extending from the end of one bolster to the opposite end of the other bolster, and a container engaged upon and secured to both bolsters.

1,662,472. VENDING MACHINE. HENRY H. PULVER, Rochester, N. Y., assignor of one-fourth to Joseph G. Biehler, one-fourth to Edward A. Pulver, and one-fourth to Libbie H. Pulver, Rochester, N. Y. Filed Oct. 28, 1922. Serial No. 597,526. 7 Claims. (Cl. 194—85.)



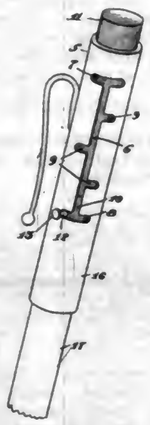
2. In a vending machine, the combination of a magazine, a wheel comprising a pair of flanges mounted to rotate below said magazine, means provided on said flanges for supporting and carrying articles delivered from said magazine, said flanges being connected together by horizontal ribs, each of said ribs having a slot formed therein, a pair of pins mounted between said flanges above each of said ribs one on each side of the slots therein and forming supports parallel to the sides of the slots, the slots in said ribs being located below said pins and adapted to support a coin and hold it to project between said flanges to form a shoulder, a dog mounted to rotate independently within said wheel and between said flanges said dog being adapted to engage the coin carried by said wheel and rotate said wheel on the rotation of said dog.

1,662,473. SHEAR. HARLEY C. RALSTON, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Mar. 5, 1927. Serial No. 173,101. 10 Claims. (Cl. 164—74.)



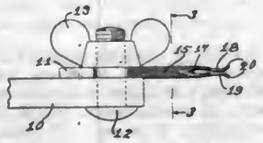
1. The combination with a suspension member, of a circular track member suspended therefrom, and a shear member mounted in said track member and rotatable therein.

1,662,474. ADJUSTABLE ERASER HOLDER. FRANK E. RANDALL, Los Angeles, Calif., assignor of two-thirds to Theodore Holmes and J. Edward Glenn, Los Angeles, Calif. Filed Feb. 16, 1926. Serial No. 88,539. 1 Claim. (Cl. 120—38.)



An eraser holder comprising a tubiform body having a longitudinal slot, a ring-shaped eraser carrier fitted slidably within said tubiform body, a cylindrical eraser fitting slidably within said tubiform body, said eraser having a diametrically reduced inner end portion which fits within said ring-shaped carrier, said carrier being provided with a screw-threaded hole, and a stud slidable along the aforementioned slot, said stud being screwed into said hole in the eraser carrier and at its inner end projecting into said eraser to secure said eraser and carrier together.

1,662,475. THREAD-SPOOLER GUIDE. CHARLES F. ROYCE, Watertown, Conn., assignor to Heminway & Bartlett Silk Company, Watertown, Conn., a Corporation of Connecticut. Filed June 1, 1927. Serial No. 195,642. 5 Claims. (Cl. 242—157.)

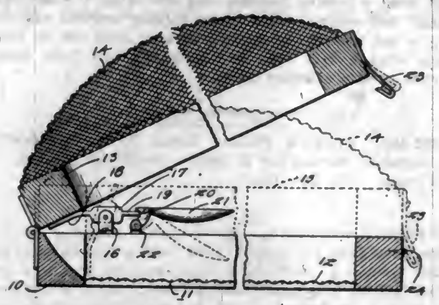


1. In a thread spooler guide, a body member adapted to be attached to the pivoted carrier member of a spooling machine, said body member having a curved guiding groove in its forward part, and a pair of finger plates integral with said body member and extending forwardly of said guiding groove for maintaining the thread in said guide while the spools are being changed, the overall width of said fingers not exceeding the width of the body member of the standard form of guide.

1,662,476. TRAP. SYLVESTER S. SADOSKY, Staples, Minn. Filed Dec. 8, 1926, Serial No. 153,352. Renewed Jan. 13, 1928. 1 Claim. (Cl. 43—62.)

An animal trap including a base having a frame member and a transverse strip intersecting the latter, a member pivoted on the strip and having a bent end, a cover hinged to the frame member and arranged to be

engaged by said bent end whereby to support the cover in elevated position, the other end of the pivoted member being formed with a lug, and a pivoted bait pan



mounted on the said strip and provided with a notch receiving the said lug whereby to releasably hold the pivoted member in cover supporting position.

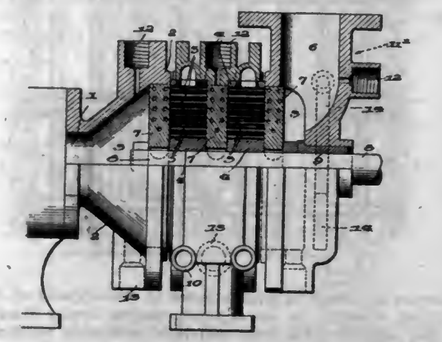
1,662,477. FORM FOR DISPLAYING NECKWEAR. SAMUEL L. SAMTER, San Francisco, Calif., assignor to L. Samter & Sons, San Francisco, Calif., a Corporation of California. Filed Jan. 29, 1927. Serial No. 164,443. 3 Claims. (Cl. 35—17.)



1. In a display folder, the combination of an illustrated portion representative of a garment and collar in their proper relation, said illustrated portion having an aperture conforming to the neck opening of said garment and in which aperture the article to be displayed will be positioned, side wing members integral with said illustrated portion of the folder and adapted to be folded to the rear and against the back of said illustrated portion, struck-out portions on one of said wing members for securing the article to be displayed thereto, whereby the folding back of the article-carrying member will place the article in the desired position to cooperate with the garment and collar to illustrate the actual appearance of the article when in use, and means for holding said wing members in folded relation.

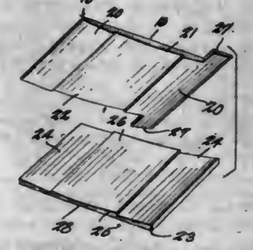
1,662,478. APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL SILK. FRIEDRICH WILHELM SCHUBERT, Apperley Bridge, near Bradford, England, assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Original application filed June 21, 1926, Serial No. 117,532, and in Great Britain July 2, 1925. Divided and this application filed July 7, 1927. Serial No. 204,079. 8 Claims. (Cl. 18—18.)

1. In an apparatus for the purpose described, the combination of a casing provided with an inlet and an outlet and interiorly divided into a plurality of chambers by transverse partitions, a series of tubes extending in the direction of the line of flow between the inlet and outlet across one of said chambers and having their ends opening through the partitions forming opposite walls of that



chamber, a rotary blade in each chamber on both sides of that containing said tubes adapted to travel in a path close to the adjacent ends of the tubes, and means for causing a viscous liquid or solution for use in the manufacture of artificial silk to flow through the casing.

1,662,479. TAKE-UP FOR BEARINGS. JOHN A. SMITH, Canonsburg, Pa. Filed Aug. 5, 1926. Serial No. 127,430. 1 Claim. (Cl. 308—72.)



A take-up for bearings, comprising a pair of superposed plate-like members, one of said members being provided on its inner surface with a recess which extends but partway through that member, the outer member having a rib, received in the recess, the recess being large enough so that the rib may have limited movement therein, the said members having contacting surfaces on opposite sides of the rib and the groove, the rib and the groove having contacting surfaces, all of said surfaces on one of said members being correspondingly convexed, and all of said surfaces on the other of said members being concaved to fit upon the convexed surfaces.

1,662,480. CONSTRUCTION OF FIREPROOF BUILDINGS. HENRY SORENSEN, San Francisco, Calif. Original application filed Dec. 7, 1925, Serial No. 73,717. Divided and this application filed Apr. 10, 1926. Serial No. 101,223. 2 Claims. (Cl. 72—71.)

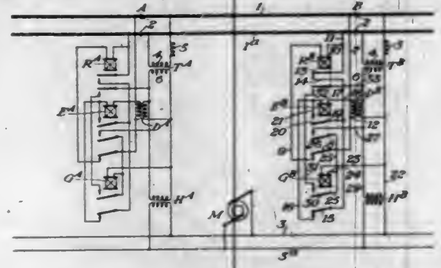
1. In reinforcements embedded in the infilling of fireproof floors, main pairs of vertically extending spaced bands in combination with lateral pairs of vertically extending spaced bands intermediate said main pairs of bands, said pairs of bands extending from the bottom of said floor, the individual bands of said pairs of bands

sloping towards each other, openings between the edges of said pairs of bands accessible for said infilling, and



means to attach said main bands to the supports of said floors, whereby the rectangularly shaped sloping sides of said pairs of bands form individual preferably reinforced wedge shaped slabs when said infilling is poured.

1,662,481. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HERBERT A. WALLACE, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 20, 1923. Serial No. 658,196. 15 Claims. (Cl. 246—34.)



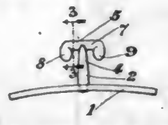
1. In combination, a section of railway track, a source of alternating train governing energy constantly connected across the rails of said section, a second source of alternating train governing energy, and means for connecting said second source across the rails only when such section is occupied by a train.

1,662,482. LOCKING MECHANISM FOR FILLING-TUBE CAPS. ROBERT K. WARD, Kansas City, Mo. Filed May 26, 1926, Serial No. 111,786. Renewed Jan. 25, 1928. 2 Claims. (Cl. 220—55.)



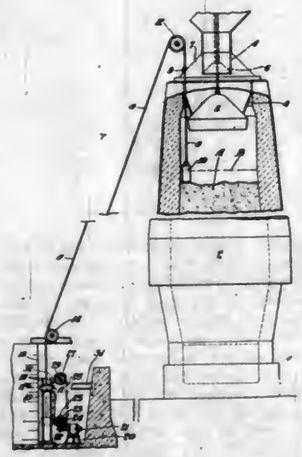
1. In a locking mechanism for filling tube caps, the combination with a filling tube having an annular inwardly extending portion having at inner edge a notch, of a cap having on its under side an annular flange provided with an outwardly extending arm adapted to pass through said notch and, when the cap is turned from the entering position of said arm, to engage the under side of said portion, and a lock having a casing fitted in said annular flange, and a bolt movable in said casing to and from a locking position and extending through said flange, and adapted when in the locking position and the cap is not in said entering position of said arm to lockingly engage said tube and hold the cap from being turned to said entering position.

1,662,483. COLLAR STUD. BASIL WOOD, Manchester, England. Filed June 6, 1927. Serial No. 196,849. 3 Claims. (Cl. 24—101.)



1. A collar stud comprising a base, a shank part of cylindrical unvarying cross-section provided thereon; a tapered shank part provided on the top of the cylindrical shank part and having its smallest cross-section at its upper end; straight, horizontal head parts provided on the top of the tapered shank part of the same thickness as the smallest end of the tapered shank part and flattened globular lugs of substantially the same thickness as the head parts provided on and depending only from the undersides of the said head parts and projecting from the said head parts at right angles thereto, for the hereinbefore specified purpose.

1,662,484. STOCK-LEVEL INDICATOR. PAUL D. WRIGHT, Edgewood Borough, Pa. Filed Oct. 7, 1927. Serial No. 224,643. 3 Claims. (Cl. 116—114.)



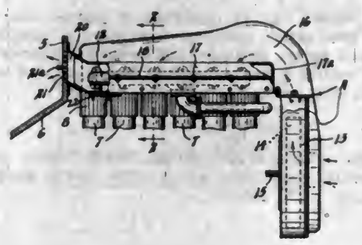
2. The combination with a furnace, of a stock level indicator comprising, a weight within the furnace, an indicator block, a flexible connection between the block and weight, guide-rods on which the block is mounted for vertical reciprocatory movement, a pair of said guide-rods, a chain trained over the sprockets, a motor connected to and adapted to rotate one of said sprockets, and means carried by said chain adapted to engage with and pull the block downwardly along the guide-rods so as to raise the weight within the furnace, and to automatically release the block at a predetermined point and thereby permit the weight to descend in the furnace and to elevate the block on said guide-rods.

1,662,485. REVERSIBLE LATCH CONTROL. THOMAS P. ARCHER and FRANK M. EDGAR, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed July 29, 1925. Serial No. 46,829. 12 Claims. (Cl. 292—164.)



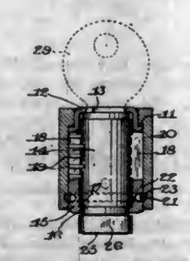
1. In a remote control latch for automobile doors of the class having a latch unit, a remotely positioned control unit and connections therebetween, a control unit provided with an actuating handle and a reversibly operable single acting actuator arm to permit of a right or left hand assembly of said control unit.

1,662,486. AUTOMOBILE HEATER. ENOS ASHLEY, Minneapolis, Minn. Filed Dec. 10, 1925. Serial No. 74,510. 5 Claims. (Cl. 237—12.3.)



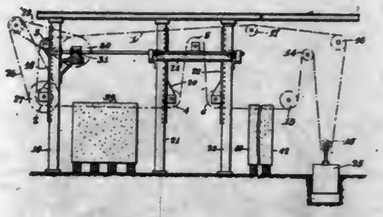
1. The combination with an automobile and the blower casing of an air cooled engine, said casing having lateral apertures therethrough for the passage of exhaust pipes of said engine, of a casing extending along the side of said first mentioned casing and enclosing the apertures and extending rearwardly to have communication with the body of the automobile whereby air will pass out of said apertures from said first mentioned casing into said second mentioned casing and into the automobile body.

1,662,487. LOCK. STEPHEN F. BRIGGS, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 23, 1925. Serial No. 77,296. 7 Claims. (Cl. 70—46.)



2. In a lock, a lock-case having a bore, a cap member engaged within the bore, a lock barrel fitting in the cap member, and a cover bushing fitting between the lock barrel and the lock-case and having a flange engaging the end of the lock barrel, said cover bushing being provided with openings to receive the tumblers of the lock barrel.

1,662,488. STONE SAW. OTTO BURKHARDT, Bayreuth, Germany. Filed July 13, 1923, Serial No. 651,424, and in Germany May 26, 1923. 1 Claim. (Cl. 125—21.)

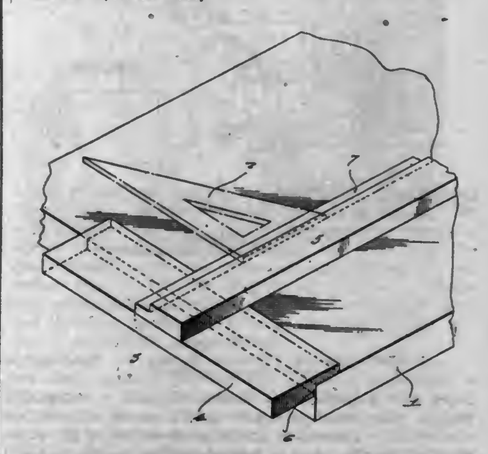


A stone saw comprising in combination several wire ropes arranged the one at the side of the others, a supporting frame for these wire ropes said supporting frame comprising a number of successive working points for each rope, a set of guide pulleys in front of each working point, and a set of guide pulleys behind each working point, the lower pulley of each set of pulleys serving to guide the cutting side of the wire rope with regard to the work and the upper guide pulley of each set of puleys serving to conduct the wire rope from the one cutting plane into the next following cutting plane, and means for stretching each wire rope independently of the other wire ropes.

1,662,489. PHOSPHORUS MATERIAL. HARRY WILLIAMS CHARLTON, New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Aug. 2, 1923. Serial No. 655,209. 3 Claims. (Cl. 71—9.)

1. A method of producing compounds of phosphorus which comprises mixing phosphoric anhydride, and calcium cyanamid; substantially as described.

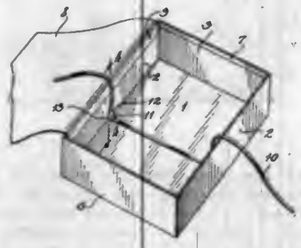
1,662,490. T SQUARE. NOBLE O. COCHRAN, Morrisville, Pa. Filed Feb. 16, 1927. Serial No. 168,682. 1 Claim. (Cl. 33—75.)



As a new article of manufacture, a T-square having a head and a stem extending at an angle to the head; the

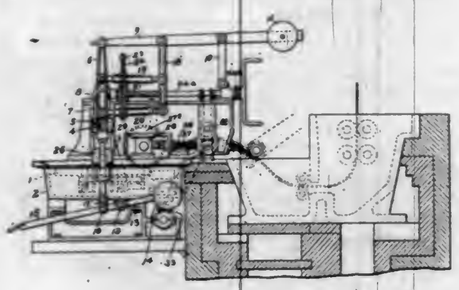
head having the lower corner of its edge for use in opposed relation to a drawing board, rabbeted to seat one corner of an edge of the board, and the stem having one of its upper longitudinal edges similarly rabbeted.

1,662,491. PAPER BOX. ALFRED H. CRANKSHAW, Lyndhurst, N. J., assignor to Owens Manufacturing Co., Hoboken, N. J., a Corporation of New Jersey. Filed May 21, 1927. Serial No. 193,209. 13 Claims. (Cl. 229—6.)



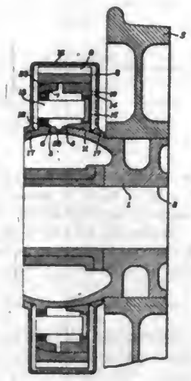
1. A box part blank including a body and side and end flaps, and having integral holding tabs formed from material of the box and connected thereto along a straight line to facilitate bending of the tabs laterally from the plane of the material, said tabs being arranged in pairs transversely of the box, and the tape or ribbon being held beneath the tabs with the tabs in the plane of the blank.

1,662,492. FEEDING SHEETS. SAMUEL E. DIESCHER and AUGUST P. DIESCHER, Pittsburgh, Pa., assignors to S. Diescher & Sons, Pittsburgh, Pa., a Partnership consisting of Samuel E. Diescher and August P. Diescher. Filed July 16, 1923. Serial No. 651,980. 14 Claims. (Cl. 271—27.)



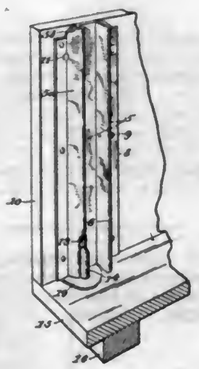
1. A sheet feeding machine having in combination a support, a rotatable and laterally moving drum provided with a plurality of devices adapted to engage the first or outer sheet of a pile resting on the support, an abutment for preventing edgewise movement of the outer sheet of the pile when in normal position on the pile and yielding means for holding the drum in normal position laterally.

1,662,493. FLEXIBLE GEAR. GEORGE M. EATON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 24, 1924. Serial No. 701,353. 11 Claims. (Cl. 74—28.)



1. A flexible element comprising a hub portion, a rim portion and spring elements co-operatively engaging the same, said spring elements comprising a cylindrical base having spring leaves extending therefrom and axially disposed with respect to said hub portion.

1,662,494. WAGON-END-GATE SEAT. MILO ELSON, Toddville, Iowa. Filed Apr. 1, 1926. Serial No. 99,043. 1 Claim. (Cl. 296—52.)



A wagon-box end-gate seat formed of sheet metal folded endwise, with outer, lateral flanges, the folds forming end-gate-retaining ribs braced outwardly and closed at the upper ends, one of the ribs having a reentrant depression to partially admit a bolt, and pierced for the hook of said bolt, and a hook-bolt secured therein.

1,662,495. WELTING FOR BOOTS AND SHOES. WILLIAM J. FALLON, Jr., Boston, Mass. Filed Apr. 7, 1927. Serial No. 181,856. 7 Claims. (Cl. 36—78.)

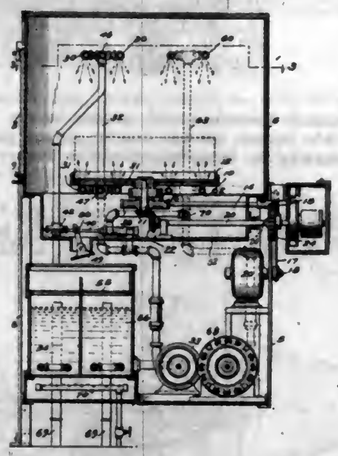
1. As an article of manufacture, a strip of welting for use in making boots and shoes having a joint therein comprising two separate pieces of welt each of which is

scarfed to form a feather edge at the hair side of the welt and having the scarfed portions superimposed in



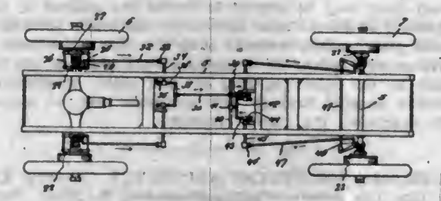
overlapping relation and secured together by cementing the scarfed face of one to the hair side of the other, and having a filler strip secured across the joint.

1,662,496. DISHWASHING MACHINE. EDWARD F. FORSGARD, Waco, Tex. Filed Aug. 16, 1926. Serial No. 129,572. 14 Claims. (Cl. 141—9.)



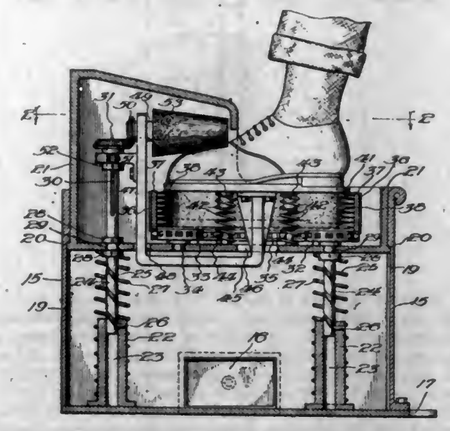
1. A dishwashing machine comprising a plurality of fluid discharge members having connection with sources of supply, pumping units for pumping the fluid from certain of the sources of supply to said discharge members, and means whereby the flow of fluid through one of the discharge members is controlled by a flow of fluid through the other discharge members.

1,662,497. BRAKE. ALFRED F. FRASCA, ALBERT FRASCA, and ARNOLD A. FRASCA, Sandy Ridge, Pa. Filed Dec. 29, 1926. Serial No. 157,727. 1 Claim. (Cl. 188—72.)



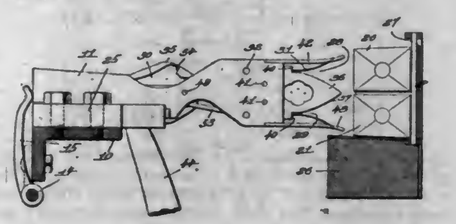
A brake structure of the class described including a stationary drum, a rotatable drum disposed about the stationary drum, discs on both the drums in alternate arrangement, a pressure annulus, a plurality of levers pivotally mounted on the stationary drum and having their outer ends engaged with the annulus to force the annulus against the discs to cause them to frictionally engage with one another for braking the movable drum in relation to the stationary drum, a slidable sleeve having a flange engaging the other ends of the levers, a clamp, a link pivoted to one end of the clamp, arms pivoted to the link and engaged with the sleeve, a bell crank on the other end of clamp having one end engaged with a link engaged with the other end of the arm, means for rocking the bell crank, and spring means positioned between the slidable sleeve and the clamp.

1,662,498. SHOE-BRUSHING MACHINE. CHARLES H. GILL and THOMAS M. THOMSON, Chicago, Ill. Filed Sept. 16, 1925. Serial No. 56,659. 4 Claims. (Cl. 15—36.)



1. In shoe polishing mechanism, the combination of a flexible belt provided with a continuous polishing surface and adapted to encircle a shoe with the said polishing surface in contact therewith, a conically shaped rotary brush adapted to contact with the shoe, and spirally threaded means actuated by foot-power for causing travel of said belt and rotation of said brush.

1,662,499. WEFT STOP MECHANISM FOR LOOMS. EDMOND GUILBERT, Jr., Woonsocket, R. I. Filed Mar. 26, 1927. Serial No. 178,586. 12 Claims. (Cl. 139—377.)



1. A plush loom having, in combination, a lay having two shuttles for simultaneous picking movement, two weft detectors on one side of the loom, one detector having a down-feeling fork to feel the weft from the upper shuttle, and the other detector having an up-feeling fork to feel the weft from the lower shuttle, stop mechanism, and connections between each detector and the stop mechanism to stop the loom on the failure of weft from either shuttle.

1,662,500. TOOL-HANDLE FASTENING. CONRAD HENNECK, Frisco, Colo. Filed Sept. 25, 1926. Serial No. 137,698. 1 Claim. (Cl. 306—28.)

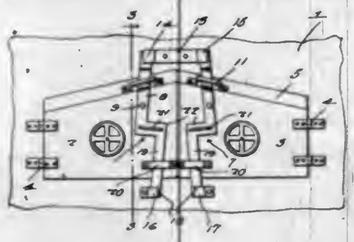
In a tool handle fastening of the class described, wherein the tool is provided with a reduced externally threaded extension on the outer end of its shank, an

elongated sleeve constructed for slidable engagement over the tool end of the handle, a transverse wall formed in the sleeve adjacent its outer end for abutting engagement with the inner end of the tool handle, a screw extending centrally through the wall into the adjacent end of the tool handle, the outer end of the sleeve



being internally threaded for receiving the externally threaded reduced extension formed on the shank of the tool, the outer end of said reduced extension abutting the inner side of said transverse wall, and a bolt extending transversely through the inner end of the sleeve and the adjacent portion of the handle.

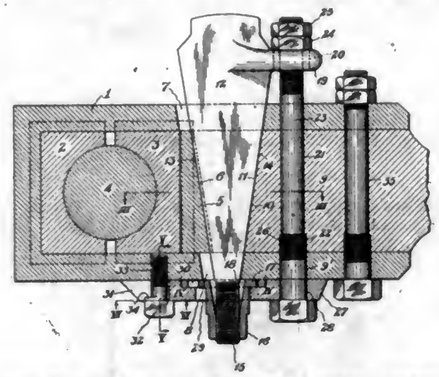
1,662,501. CLOSURE FASTENER. CHARLES E. JONES and DONALD A. WHOOLERY, Outcrop, Pa. Filed June 3, 1927. Serial No. 196,305. 2 Claims. (Cl. 292—238.)



1. In a closure fastener for the vertically swinging closure of a boiler, a double L-shaped latch pivoted adjacent its upper end on the closure, a pair of oppositely disposed keepers secured on the boiler above and below the closure, the weight of the lower end of the latch tending to normally hold the extremities of the double L-shaped latch in engagement with the respective keepers.

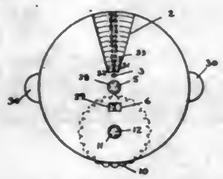
1,662,502. PITMAN CONNECTION. JAMES C. KAHLE, Erie, Pa. Filed Dec. 3, 1924. Serial No. 753,647. 3 Claims. (Cl. 308—68.)

2. In a device of the character described, the combination of a pitman; a pitman-strap fixed in relation to the latter; bearing blocks mounted in said strap; a wrist-pin journaled in said blocks; a wedge passing through said strap and between the pitman end and one of said blocks; a nut on one end of said wedge mounted so as to be capable of moving said wedge in both its



longitudinal directions; and locking means consisting of a bolt passing through said strap and pitman end and engaging the other end of said wedge.

1,662,503. APPLIANCE FOR TEACHING ARITHMETIC. KATHRYN G. KRIEGER, Baltimore, Md. Filed Apr. 15, 1927. Serial No. 184,080. 4 Claims. (Cl. 35—2.)

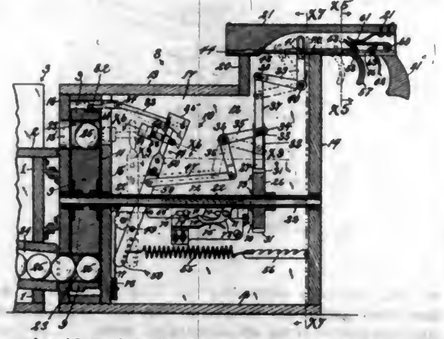


1. An arithmetic instruction appliance, having a circular front plate with two differently shaped openings therein, centrally and diametrically disposed in the upper and lower portions thereof, a chart whose diameter is less than the radius of said plate and on which are numerals printed in regular sequence from left to right in an annular line near its edge, a circular disc on which are equally spaced annular and radial series of numerals printed in regular sequence ranging along the radii from left to right and circles equally spaced passing through said annular series of numerals, means whereby the said chart may be secured beneath said plate, and the said disc may be secured beneath both plate and chart and overlap said chart, means whereby said chart may be rotated to expose any addend or subtrahend of the problem thereon in the lower opening of said plate, means whereby said disc may be rotated to expose any addend or minuend of the problem and circles in the upper opening of said plate, whereby the circles passing through said numerals may be counted to determine the correct answer.

1,662,504. AMUSEMENT APPARATUS. ADOLPH KUDLER, Los Angeles, Calif. Filed July 8, 1924. Serial No. 724,774. 5 Claims. (Cl. 273—122.)

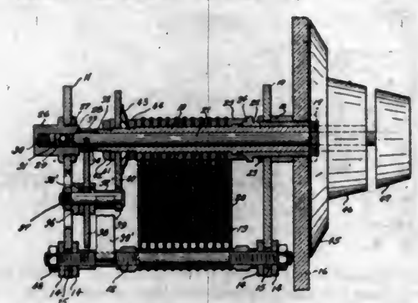
1. The amusement apparatus set forth comprising an elevated ball course having front and rear ends; a return ball runway under said course; balls adapted to be driven over said course; a main housing secured to the forward end of said course; a stationary auxiliary housing on said main housing; said auxiliary housing having the appearance of a gun, a shaft in said main housing; a wheel on said shaft for elevating said balls from said runway to the upper surface of and in position to be driven over said course; a hammer for driving

said balls over said course; a spring for driving said hammer against said balls; a draw bar in said auxiliary housing, links connecting said draw bar and said hammer whereby said hammer may be set against the ten-



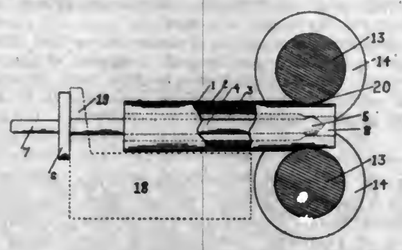
sion of said spring, locking means for said draw bar, a trigger in said auxiliary housing adapted to release said locking means; and means for locking said wheel against rotation after a number of balls have been driven over said course.

1,662,505. VARIABLE CONDENSER. GIOVANNI LOMBARDI, Derby, Conn. Filed Dec. 10, 1924. Serial No. 754,968. 11 Claims. (Cl. 74—7.)



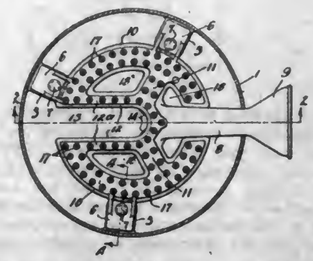
1. In a device of the character described, a pair of concentric shafts, independent means for operating said shafts, spaced supports, cooperating tapered thrust bearings carried by the outer shaft and one of said said supports, means carried by the other support having a chamber receiving the end of the inner shaft, and a reducing driving connection between the shafts.

1,662,506. METHOD OF ROLLING STAYBOLT IRON. GEORGE HENRY MANSFIELD, Cuyahoga Falls, Ohio. Filed Nov. 25, 1925. Serial No. 71,364. 2 Claims. (Cl. 80—62.)



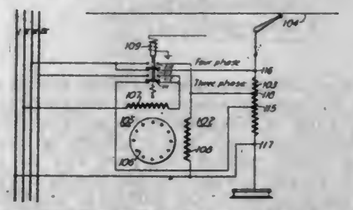
1. The method of making hollow staybolts which consists in assembling metal pieces to form a hollow pile, heating said pile, welding said pieces together and reducing the cross sectional diameter of said pile in successive stages, controlling the diameter of hole in the pile with mandrels during the first stages of reduction and controlling the diameter of hole by a core in the last stages of said reduction, said core being inserted in said pile while said pile is still hot.

1,662,507. BURNER. CLARENCE H. MORROW, Cleveland, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 22, 1925. Serial No. 32,101. 4 Claims. (Cl. 158—99.)



1. A side gas burner for heaters of the type including a substantially vertical pipe, comprising outer oppositely disposed substantially semi-circular chambered portions, and a substantially U-shaped chambered portion spaced therefrom and connected thereto, said substantially U-shaped portion having its arms spaced to form an open ended slot extending from one side of the burner to the central axis thereof for lateral assembly of the burner with the vertical pipe, and a mixture feeding portion having a passage in communication with the chambers of said semi-circular and U-shaped portions.

1,662,508. ALTERNATING-CURRENT MOTOR. STANLEY G. NOTTAGE, Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 13, 1924. Serial No. 698,881. 2 Claims. (Cl. 172—274.)

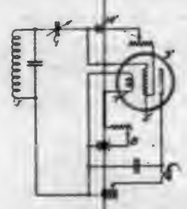


2. The combination with an energizing winding supplying single phase currents, of a phase-balancer comprising two quarter-phase windings, means for supplying one of said phase-balancer windings from said energizing winding, the voltage across said phase-balancer windings being approximately $\frac{1}{2}\sqrt{3}$ of the voltage of said energizing winding, means for connecting, at times, the other of said phase-balancer windings in T-relation to a midpoint of said energizing winding to provide a source of balanced three-phase currents and means for connecting at other times said last-mentioned phase-balancer windings and a portion of said energizing winding to provide a source of balanced quarter-phase currents.

1,662,509. SAFETY PAPER. WILLIAM R. ORNDORFF, Ithaca, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 8, 1925. Serial No. 1,211. 7 Claims. (Cl. 91—67.05.)

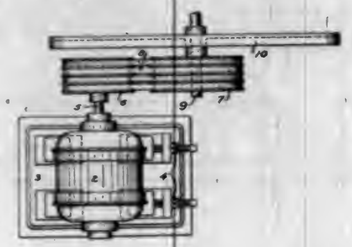
1. A safety paper containing 1,3-dimethyl ether of pyrogallol.

1,662,510. CONTROLLABLE GRID LEAK. ABRAHAM PRESS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 25, 1920. Serial No. 391,648. 2 Claims. (Cl. 250—27.)



2. In combination with the grid, a plate, and a filament of a hard triode, means for producing an electronic stream between said filament and said plate, said grid lying in the path taken by said stream, and additional means including a patential source for heating said grid, whereby an electronic stream may be controllably produced in the reverse direction between said filament and said grid and the action of a soft triode may be simulated.

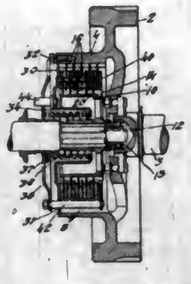
1,662,511. POWER-TRANSMITTING MECHANISM. WALTER GEIST, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 24, 1925. Serial No. 4,412. 9 Claims. (Cl. 74—21.)



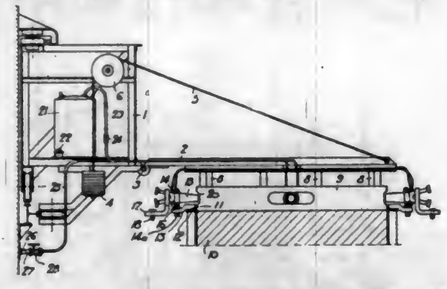
1. In combination, driving and driven sheaves rotatable about substantially parallel axes and providing a plurality of sets of alined V-grooves, and a plurality of independent V-belts each having opposite continuous side driving surface portions cooperable with the side surfaces of a set of said grooves, said grooves and said belts being relatively elastic and resilient to automatically establish equal driving ratios for all of said belts during rotation of said sheaves.

1,662,512. CLUTCH WITH TOOTH PLATES. HARRY S. GOLDEN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 28, 1925. Serial No. 53,137. 2 Claims. (Cl. 192—69.)

1. The combination of a driving member provided on one side thereof with an annular flange having a plurality of internal teeth, a driven member extending in alignment with the said driving member and having a plurality of external teeth, driving and driven friction disks housed within said flange and having teeth for engagement with said internal and external teeth, respectively, a member secured to said flange and closing the outer end of the drum formed thereby, said member being provided with an inwardly extending socket, a spring housed in said socket and bearing at one end against the inner end of the socket, a plate against which the outer end of the spring bears, and means connected to said plate for moving the disks into engagement with each other, said last-named means including a plate lying between the innermost disk and the driving member and members connecting the said plate to the first-mentioned plate, said members lying substantially in line with the outer circle of interfitting teeth.



1,662,513. IGNITING APPARATUS FOR SINTERING PANS. ANDERS HOLMBERG, Stockholm, Sweden, assignor to Helge Gustaf Torulf, Stockholm, Sweden. Filed Nov. 23, 1925, Serial No. 71,004, and in Sweden Dec. 1, 1924. 1 Claim. (Cl. 266—21.)



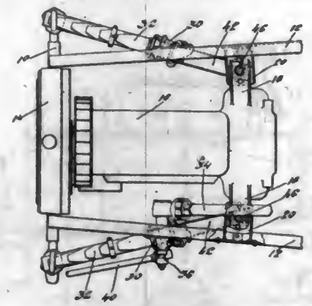
An apparatus for igniting the charge of circular sintering pans for fine ores and the like, comprising a ring-shaped frame adapted to be placed above the pan to be ignited, a plurality of burners rotatably journalled in said frame, and an operating ring connected to the burners and adapted to rotate the latter simultaneously to and fro so as to cause the flames from the burners to sweep a large portion of the surface of the charge.

1,662,514. PROCESS FOR DYEING CELLULOSE ESTERS AND ETHERS. RONALD SMITH HORSFALL, LESLIE GORDON LAWRIE, and JAMES HILL, Blackley, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Filed Mar. 2, 1927, Serial No. 172,195, and in Great Britain June 11, 1926. 6 Claims. (Cl. 8—5.)

1. The process of dyeing cellulose esters and ethers, comprising applying azo dyestuffs prepared by coupling diazotized amino-arylsulphonarylamides with unsulphonated arylamines to the cellulose derivative to be dyed in the presence of water.

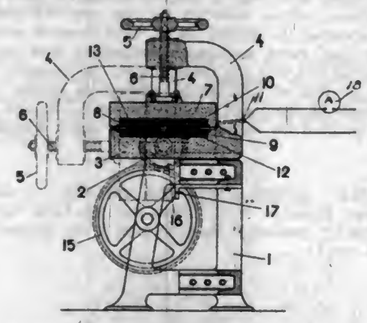
1,662,515. AUTOMOBILE CHASSIS. ORMOND E. HUNT and ALBERT G. GEISTERT, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 8, 1924. Serial No. 730,859. 5 Claims. (Cl. 280—106.5.)

1. A chassis comprising, in combination, an axle, a frame having spaced side members, above the axle, a cross member connecting the side members, a bracket depending from each side member between the axle and the cross member, a pair of quarter-elliptic springs extending from the brackets to the axle, a pair of channel members,



each embracing the end of one of the springs and connected to the cross member inside of the corresponding side member, and means for clamping each bracket and its spring and channel member together.

1,662,516. MACHINE FOR TEMPERING SAW BLADES, PLANE KNIVES, AND SIMILAR TOOLS. PAUL HUSTADT and KARL HUSTADT, Remscheid-Hasten, Germany. Filed July 10, 1923. Serial No. 650,694. 6 Claims. (Cl. 266—5.)

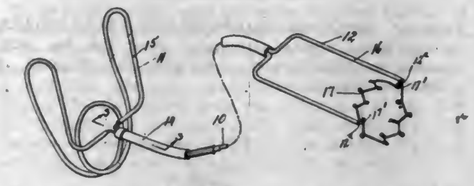


1. A machine for tempering saw blades and similar tools comprising in combination, a lower stationary frame part, an upper frame part pivotally mounted on said lower frame part, said upper frame part including inverted L-shaped members having joined upper horizontal portions, means for tilting said upper part through an arc of 90°, a stationary lower press plate in said oscillatable upper frame part, a screw spindle threaded through the junction of said L-shaped members of said oscillatable frame part, an upper press plate adapted to be moved toward and from said lower press plate by said screw spindle, a heating plate in each of said press plates adapted to hold the work to be placed between the same and transmit heat thereto, a heating coil in each of said press plates, and means for supplying electric current to said heating coils.

1,662,517. METHOD OF TEMPERING SAW BLADES, PLANE KNIVES, AND SIMILAR TOOLS. PAUL HUSTADT and KARL HUSTADT, Remscheid-Hasten, Germany. Original application filed July 10, 1923, Serial No. 650,694, and in Germany Aug. 31, 1922. Divided and this application filed Feb. 17, 1927. Serial No. 169,125. 9 Claims. (Cl. 148—12.)

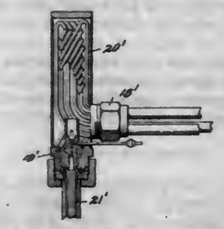
8. The method of tempering previously-hardened saw blades, knives, cutters and other thin articles which consists in slowly subjecting said articles to heat uniformly diffused throughout their mass simultaneously with the gradual application of pressure to said articles to remove irregularities of shape and of molecular structure which have resulted from hardening, followed by substantially instantaneous cessation of heat and pressure treatment on all parts of both faces of said articles simultaneously.

1,662,518. HOLDER FOR NURSING BOTTLES OR OTHER VESSELS. MAURICE J. JAFFE, New Haven, Conn., and JOSEPH CHANKIN, New York, N. Y. Filed Oct. 21, 1926. Serial No. 143,108. 4 Claims. (Cl. 248—65.)



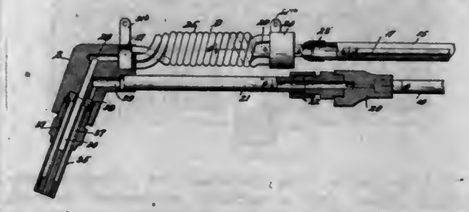
2. A holder for a nursing bottle or the like comprising a flexible arm having a bifurcated portion at one end and at its opposite end resilient means for its removable attachment to a stationary support, a lattice shaped annular resilient member serving to frictionally engage said bottle, said resilient member being pivotally supported on said bifurcated member above its center of gravity so that when released said bottle will tend to tilt into upright position preventing the dripping of the contents thereof.

1,662,519. CUTTING AND WELDING TORCH. ALEXANDER F. JENKINS, Baltimore, Md. Filed May 28, 1926. Serial No. 112,354. 2 Claims. (Cl. 158—27.4.)



1. A torch head comprising a block provided with inlet ducts, a block provided with outlet ducts, a plurality of small tubes connecting said inlet ducts with said outlet ducts, said tubes being disposed to form a substantially cylindrical cage, a burner adapted to project a flame within said cage, and an envelope surrounding said cage of tubes, said envelope being perforated to provide means of egress for products of combustion.

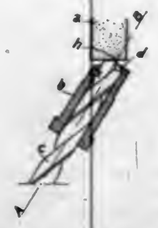
1,662,520. CUTTING AND WELDING TORCH. ALEXANDER F. JENKINS, Baltimore, Md. Filed Jan. 20, 1927. Serial No. 162,375. 3 Claims. (Cl. 158—27.4.)



1. In a torch, in combination, spaced handle and head portions, conduits for gases connecting said portions, and a heating means disposed along the conduits adja-

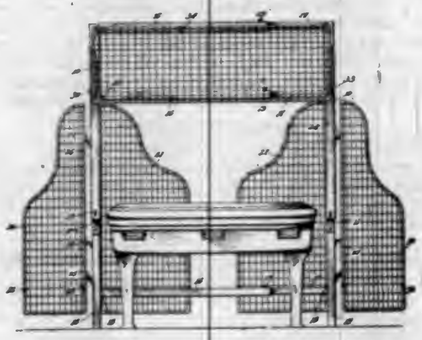
cent the head portion of the torch for heating at least a portion of the gases passing through the conduits, said heating means comprising a series of small spirally arranged tubes branching from one or more of the conduits, all of said small tubes being arranged in one group in the form of a hollow cylinder which is in alignment with said conduits, a manifold at each end of the cylinder for connecting the small tubes directly to the conduits and head portion respectively, and a gas burner arranged within the hollow interior of said cylinder and in alignment therewith.

1,662,521. GRINDING MACHINE FOR TWIST DRILLS. CARL KOBIS, Berlin, Germany. Filed Feb. 14, 1927, Serial No. 168,144, and in Germany Feb. 9, 1926. 4 Claims. (Cl. 51—219.)



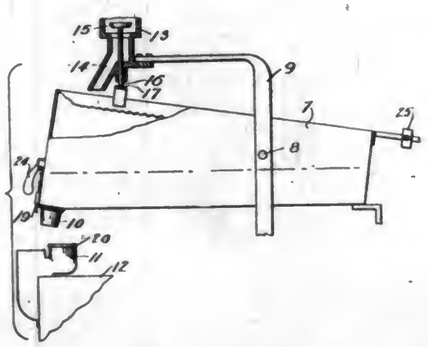
1. In a twist drill grinding machine, the combination with a grinding surface and a drill guide casing mounted oblique to the grinding plane, a gage-stop arranged to engage the end of the drill lip opposite to the one being ground and a screw spindle for adjusting said guide casing to and from said grinding surface, a second adjusting member adapted to adjust said guide casing to and from said grinding surface and having a predetermined "throw" or range of action, so that its reverse action repositions the gage stop to determine on a later grinding of one lip an amount of reduction equal to that produced by a previous grinding of the other lip, thereby bringing the point of the drill accurately into the center.

1,662,522. COMBINED FUNERAL CANOPY AND STAND. WALTER O. LAUBE, Chicago, Ill., assignor to Olga Laube, Chicago, Ill. Filed Nov. 19, 1926. Serial No. 149,418. 9 Claims. (Cl. 211—180.)



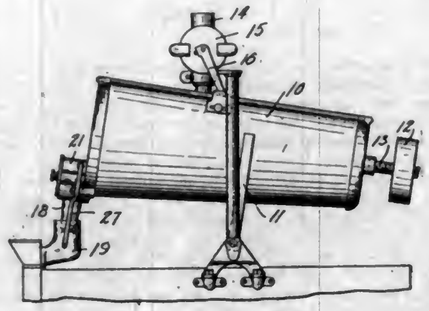
1. A decorative form comprising an adjustable supporting frame, and a sectional ornamental receiving canopy at one side of the frame detachably connected at its top thereto and having a depending portion engaging the frame to bracingly sustain the canopy in operative position.

1,662,523. MEASURING APPARATUS. ALBERT T. LIGHT, New York, N. Y. Filed Oct. 5, 1921. Serial No. 505,514. 5 Claims. (Cl. 249—54.)



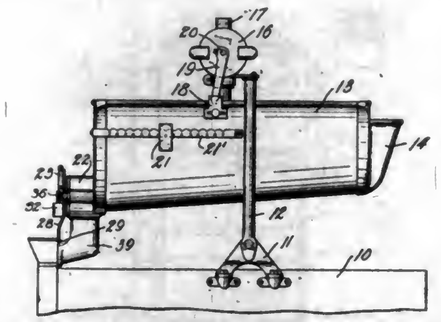
1. Cream measuring apparatus for ice cream freezers comprising in combination with a freezer having an inlet, a source of supply having a supply valve above the freezer, a measuring pan pivoted to swing between the supply valve and the inlet of the freezer and balanced to swing upward when empty and to automatically lower itself upon receiving a desired measured quantity of the cream, means actuated by the pan for automatically opening the supply valve upon upward movement of the pan, valve mechanism controlling flow from the measuring pan into the freezer inlet, and coupling means under control of said valve mechanism during closing movement of the valve mechanism, said coupling means being adapted for holding the pan in lowered position.

1,662,524. BATCH-WEIGHING DEVICE. ALBERT T. LIGHT, Brooklyn, N. Y. Filed Nov. 10, 1923, Serial No. 673,914. Renewed May 6, 1927. 10 Claims. (Cl. 249—54.)



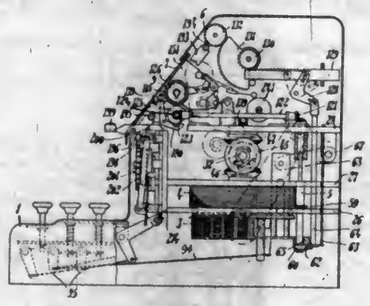
1. In a batch weighing device, a receptacle having a pivotal support and adapted to normally assume a certain angular position with relation to the support, a supply valve and means connecting the receptacle and the valve for positively moving the valve to open position when the receptacle occupies said position, said receptacle acting to tilt to discharging position when a predetermined weight of material has been received therein, said connecting means operating to positively move the supply valve to closed position when the receptacle is in discharging position, a discharge valve, and means under control of the operator for locking the receptacle and opening the discharge valve when the receptacle is in discharging position.

1,662,525. BATCH-MEASURING DEVICE. ALBERT T. LIGHT, Brooklyn, N. Y. Filed Sept. 24, 1924. Serial No. 739,745. 14 Claims. (Cl. 249—54.)



1. In a batch weighing device, a receptacle arranged to tilt to discharging position when a predetermined weight of material has been received therein, a discharge valve, means for operating the valve, and means cooperating with the valve operating means for locking the valve in closed position when the receptacle is in charge receiving position.

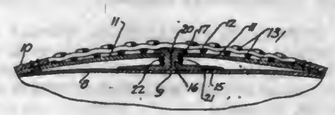
1,662,526. CALCULATING MACHINE. CONRAD LUTTROPP, Stockholm, Sweden, assignor of one-half to Anders Lindahl, Stockholm, Sweden. Filed Aug. 13, 1923, Serial No. 657,148, and in Sweden Aug. 14, 1922. 15 Claims. (Cl. 235—63.)



1. A calculating machine, comprising ten digit keys, a rotatable selector having groups of adjustable stops, means for actuating said stops by pressing the digit keys, a rotatable counting drum journalled coaxially with the selector and having series of teeth corresponding to the digit numerals, counting spindles adapted to be set into operative positions under the control of the stops of the selector and to be rotated by said counting drum, and a main counting register adapted to be operated by the rotation of said spindles.

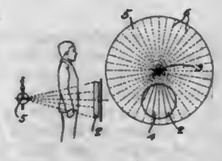
1,662,527. SPORT BALL. WILLIAM W. MACDONALD, Chicopee, Mass. Filed May 18, 1927. Serial No. 192,442. 3 Claims. (Cl. 273—65.)

1. A valve for inflatable sport balls comprising, a filling tube extending outwardly a relatively short distance from the bladder of the ball, and a substantially U-shaped spring, the legs of which are disposed transversely to the axis of the filling tube and act to press the walls of the latter together to close the filling opening.



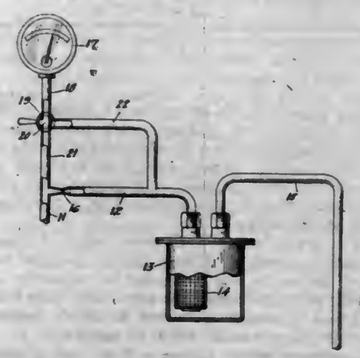
2. The combination with the cover, flap and bladder of a sport ball, of a body of rubber or the like having a flange attached to the bladder, a neck upstanding from the flange and terminating with a button adapted to fasten to said flap, said body having a normally closed filling opening therein leading from the outer face of the button through said neck and flange into the bladder, the entrance to said opening being accessible through the laced opening of said cover without unlacing the same.

1,662,528. X-RAY SCREEN FOR TAKING SKIAGRAMS. RUDOLF MANNL, Karlsbad, Czechoslovakia. Filed Dec. 12, 1924, Serial No. 755,427, and in Czechoslovakia Dec. 24, 1923. 2 Claims. (Cl. 250—34.)



1. An X-ray screen adapted to prevent lateral secondary radiation, having plates extending across the screen and all converging toward a common intersection point disposed outside the screen and in the plane of its working surface.

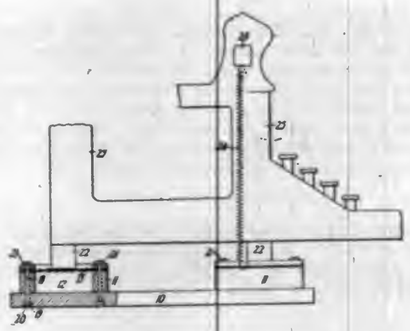
1,662,529. MEANS FOR TESTING FILTERS. CHARLES W. MCKINLEY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Oct. 27, 1926. Serial No. 144,497. 9 Claims. (Cl. 73—51.)



1. Means for testing filters, including in combination, a supply conduit for fluid under pressure leading to a filter to be tested, the clogging of which filter offers resistance

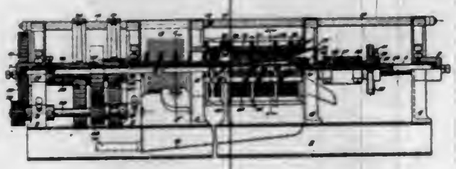
to the flow of fluid, means to restrict the flow of fluid to the filter, and thereby offer resistance to such flow, and means to gage the respective resistances to determine filter activity.

1,662,530. TYPEWRITING MACHINE. THOMAS J. MCMAHON, Albany, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 4, 1923. Serial No. 610,560. 5 Claims. (Cl. 45—137.)



2. As a new article of manufacture, a sound deadening base block to be used as a support for the foot of a typewriter or like apparatus, said block being hollowed out and covered with a meshwork of wire strands superposed on the block, a cap on the meshwork and extending around the hollowed portion of the block for preventing displacement of a typewriter foot and for holding the meshwork to the block.

1,662,531. CONTINUOUS PRESS. EDGAR T. MEAKIN, Berkeley, Calif. Filed Feb. 18, 1924. Serial No. 693,580. 6 Claims. (Cl. 100—48.)

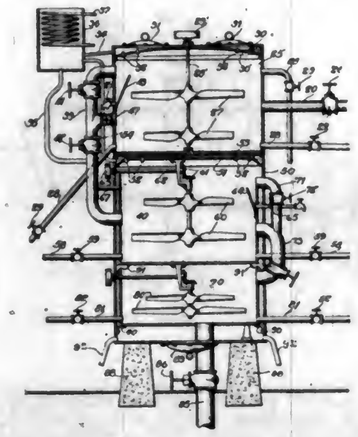


3. In a press for the extraction of liquids, a plurality of bars, in cylindrical assembly, each bar having a flat side and a longitudinally extending rabbet in said flat side at the inner edge thereof and a transversely grooved flange on the opposite side, said longitudinal rabbet in one bar providing a side entrance into the transverse grooves of the adjacent bar.

5. In a press having a pressure screw, a feed wheel comprising a plurality of teeth formed to mesh with the flight of the screw, and journaled to rotate in a plane coincident with the axis of the screw and lying below and to that side of the screw toward which the lowest point of the periphery of the flight is moving.

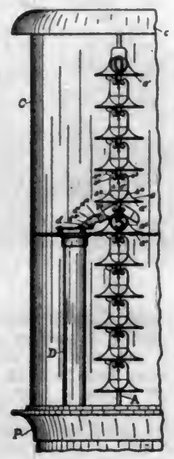
6. A pressure screw having a body and a continuous spiral flight thereon, and spiral vanes each of less length than the circumference of the flight on said body adjacent one end of the flight, the spiral of the vanes differing from the spiral of the flight.

1,662,532. PROCESS FOR COOKING AND CONDENSATING SEMILIQUID FOODS. FRANCESCO MENNILLO, Washington, D. C. Filed Jan. 30, 1925, Serial No. 5,859. Renewed Jan. 19, 1928. 6 Claims. (Cl. 99—11.)



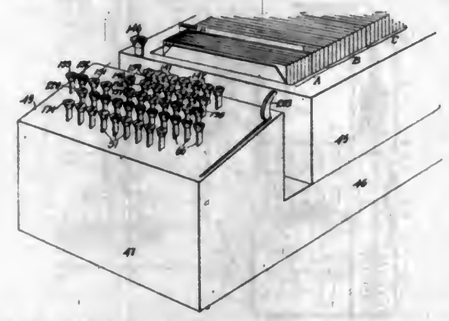
1. That step in the process of cooking semi-liquid material which consists in forcing it through a coil and simultaneously heating the coil and introducing into the coil of material hot air to dry the material and assist in forcing it through the coil.

1,662,533. MEASURING SCALE FOR TRANSPARENT LIQUID CONTAINERS. CARROLL L. MERRIMAN, Fort Wayne, Ind., assignor to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Mar. 8, 1926. Serial No. 93,182. 4 Claims. (Cl. 73—165.)



1. A scale for transparent liquid containers, comprising a setting bar fixed in a vertical position within said container, an adjustable tab mounted on said bar, means for fixing the position of said tab on said bar, there being a suitable numeral on the front side of said tab, means for normally keeping said numeral covered and mechanical means within said container for temporarily adjusting said covering means so as to expose said numeral to view.

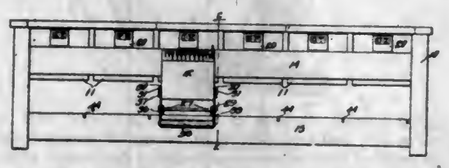
1,662,534. CARD-INDEXING DEVICE. DONALD A. NEVIN, Waynesboro, Pa., assignor to Autodex Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Feb. 20, 1925. Serial No. 10,712. 56 Claims. (Cl. 129—16.1.)



1. A card-indexing device comprising a container, cards in the container divided into groups and sub-groups, means for selecting a group, means for selecting a subgroup in said group, means to isolate a plurality of cards from the sub-group, and means to reject certain of the cards so isolated, substantially as set forth.

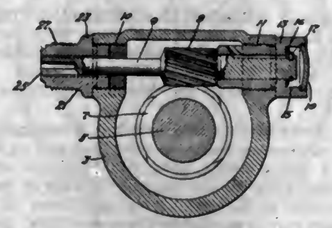
31. In a card index, a row of keys for making a preliminary selection, a row of keys for making a secondary selection, and means operable by any key in the second row to lock in place all keys in the first row, substantially as set forth.

1,662,535. CARD-INDEXING MACHINE. DONALD A. NEVIN, Waynesboro, Pa., assignor to Autodex Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed July 13, 1926. Serial No. 122,233. 7 Claims. (Cl. 129—16.1.)



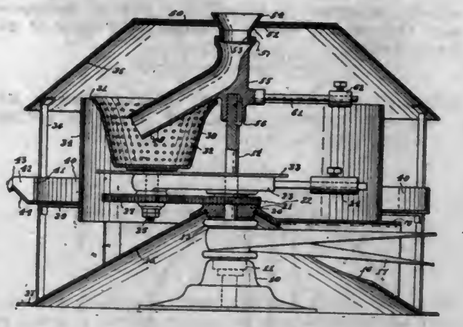
7. A device of the class described including a cabinet, a series of card-holding trays in said cabinet, a selecting device, means for supporting said selecting device for movement beneath said trays, means for alining the selecting device beneath one of said trays, and means for raising the selecting device into operative engagement with said trays, substantially as set forth.

1,662,536. SPEEDOMETER DRIVE. FRANK N. NUTT, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 26, 1926. Serial No. 97,069. 3 Claims. (Cl. 74—7.)



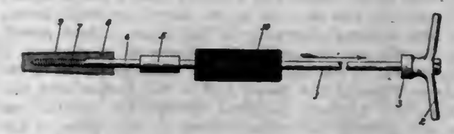
1. In means for driving a speedometer or the like, a housing having a transmission shaft extending therethrough, a driven shaft arranged transversely thereof and driven thereby, two aligned openings through which said shaft passes, two sleeves, one in each opening, one sleeve having an elongated bearing opening in which the transverse shaft is journalled, and the other sleeve having an opening through which the transverse shaft freely passes.

1,662,537. MACHINE AND PROCESS FOR REMOVING EXCESS MOLTEN MATERIAL. HENRY W. PLEISTER, Westfield, N. J., assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Filed Sept. 3, 1926. Serial No. 133,446. 12 Claims. (Cl. 210—63.)



1. A process for removing excess molten metal from articles, said process comprising violently jarring the articles; and immediately subjecting the articles to planetary motion.

1,662,538. AUTO TOP SOCKET BOW PULLER. REXFORD B. RICHMOND and RICHARD H. DODD, Stockton, Calif. Filed Aug. 20, 1923. Serial No. 658,284. 1 Claim. (Cl. 81—3.)

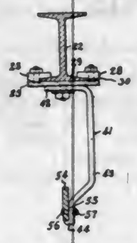


A device for use in removing wooden elements from metal sockets, comprising the combination of a rod having a screw-thread at one terminal for entry into the wood within the socket, a handle at the opposite terminal of the rod for use in screwing the threaded terminal into the wood, an abutment on the rod adjacent the handle terminal, and a sliding hammer weight on the rod between the screw-threads and the abutment whereby when the screw-threads have been embedded in the wood the hammer weight may be operated against the abutment to cause the rod to pull the wood from the socket.

1,662,539. SUPPORTING MEANS FOR OVERHEAD TRACKS. OSCAR C. SCHMIDT, Cincinnati, Ohio, assignor to The Cincinnati Butchers Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 15, 1927. Serial No. 213,159. 10 Claims. (Cl. 104—111.)

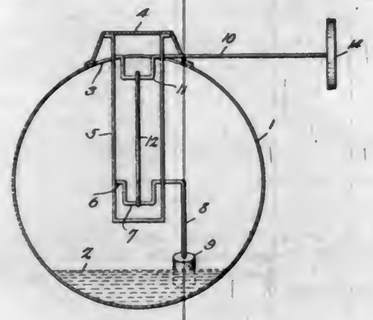
1. A hanger-plate of the character described, provided with apertures in substantially elliptical arrangement

about a common center, opposite apertures arranged in pairs, the opposite apertures of each pair being at a different distance from said common center than the



opposite apertures of an adjacent pair to correspond with the different widths of flanges of I-beams of different heights.

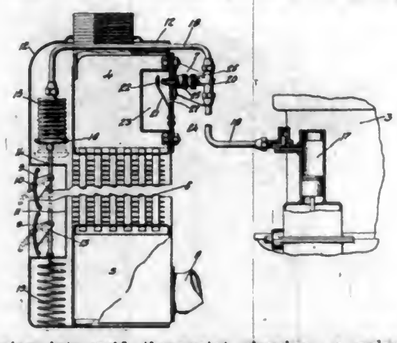
1,662,540. GASOLINE GAUGE. JOSEPH SCHWAN, Milwaukee, Wis. Filed June 2, 1926. Serial No. 113,245. 1 Claim. (Cl. 73—82.)



In a device of the class described, a tank having an opening, a closure for the opening and mounted on the tank, a depending U-shaped bearing frame extended downwardly into the tank through the opening and carried by the closure, a lower shaft journaled in the side portions of the frame and provided with a crank located between the side portions of the frame, the shaft having an arm disposed externally of the frame, a float mounted directly on the arm and responsive to changes of liquid level in the tank, an upper shaft journaled in the side portions of the frame and in the closure and provided with a crank operating through the opening and located between the side portions of the frame, a pitman having its extreme ends mounted upon the cranks, and an indicating hand mounted directly upon the upper shaft.

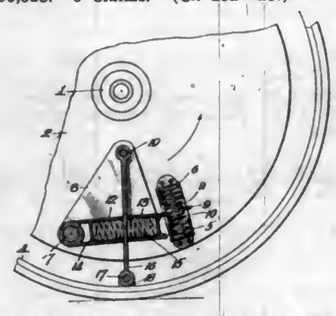
1,662,541. THERMOSTATICALLY-CONTROLLED DAMPER MECHANISM FOR RADIATORS. ERNEST W. SEAHOLM, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 28, 1922. Serial No. 609,434. 1 Claim. (Cl. 123—174.)

In a device of the class described and in combination with an internal combustion engine, an air pump separate and independent of the engine and operated thereby, a radiator having an upper water chamber and a cellular structure below said chamber, and means for controlling the flow of air past or through said cellular structure; an air operated member operatively connected with said air flow controlling means; a conduit connecting said pump with said air operated member; a thermostat chamber located within said upper water chamber, and which thermostat chamber is open at one side; a cover for closing the open side of said thermostat chamber, and which cover is provided with an opening through which said chamber is placed in communication with the external atmosphere; a by-pass passage leading from said conduit through said cover and dis-



charging into said thermostat chamber; a valve for controlling the flow through said by-pass passage; and a thermostat carried by said cover and located within said thermostat chamber, and which thermostat is operatively connected with said valve.

1,662,542. SPRING WHEEL. JEFFERSON D. SHORT, Albuquerque, N. Mex. Filed June 20, 1927. Serial No. 200,023. 6 Claims. (Cl. 152—28.)

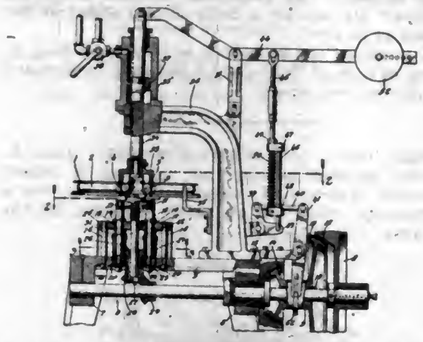


1. A cushion wheel comprising a hub, a disk secured thereto, a rim surrounding the disk, a plurality of castings pivoted to the disk and each provided with an arm extending transversely of a radial plane of the wheel, means carried by said disk and adapted for yieldingly applying inward and outward force on each of said arms, spokes extending in a direction generally radial of the wheel and each pivoted at its outer end to the rim and at its inner end to a casing, and means carried by the casings and adapted to apply yielding force on the spokes tending to oscillate the same in opposite directions in a plane transverse with respect to the axis of the wheel.

1,662,543. WHEEL-HUB-ASSEMBLING DEVICE. WESTON R. SMITH and RICHARD FRED WIENEKE, Jackson, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 22, 1926. Serial No. 96,545. 10 Claims. (Cl. 81—57.)

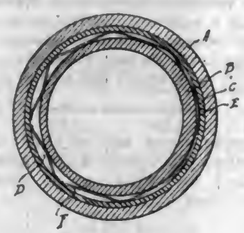
1. In a device of the class described, a vertically movable head adapted to receive a wheel hub and to support a wheel; a spring acting upon said head and arranged to hold the same in its normal uppermost position, and to return it thereinto after said head has been moved downward; a plurality of vertically arranged rotatable spindles the upper ends of which are disposed about said head, and each of which has a nut holding and driving chuck at its upper extremity; means for driving said several spindles in unison; yieldable friction

driving devices associated one with each of said spindles and through which said spindles and chucks are normally driven; and means engaging a wheel supported



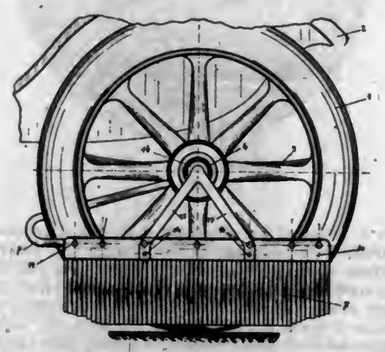
by said head to move the wheel and head downward against the resistance of said spring and cause the threaded ends of bolts carried by the wheel to engage nuts carried by the chucks aforesaid.

1,662,544. PISTON RING. DEAN M. SOLENBERGER, Kansas City, Mo., assignor to Simplex Piston Ring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 1, 1926. Serial No. 91,601. 3 Claims. (Cl. 74—109.)



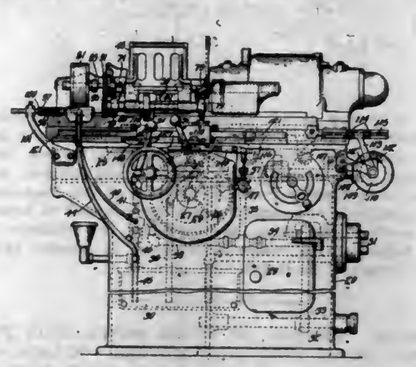
1. The combination with a cylinder and a piston loosely fitting the same, of a ring engaging the groove in said piston and a ribbon expander located between the ring and the bottom of the groove having a corrugated portion for exerting a preponderance of pressure against said ring on one side of the axis of the cylinder.

1,662,545. SPRAY SCREEN. EGIDIO SPELTA, Turin, Italy. Filed Feb. 23, 1926, Serial No. 90,044, and in Italy Feb. 26, 1925. 3 Claims. (Cl. 280—157.)



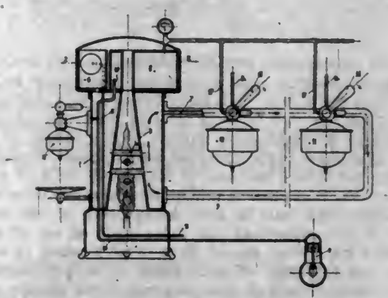
1. The combination with a vehicle wheel, of a spray screen comprising a support arranged parallel to the wheel, a screen composed of a plurality of independent juxtaposed flexible tubes freely suspended from said support, each tube having a resilient metallic core, and means for holding said support in fixed relation to the wheel.

1,662,546. GRINDING MACHINE. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed June 20, 1924. Serial No. 721,292. 24 Claims. (Cl. 51—215.)



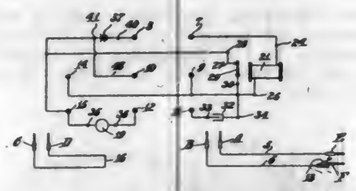
1. In a grinding machine, abrading means, work-holding means, a carriage for one of said means having traversing movement relatively to the other, a workholding magazine, means for successively feeding unfinished articles from the magazine to the workholding means, a fluid motor for operating said feeding means, and connections whereby the traversing carriage sets the motor in operation at predetermined times, substantially as set forth.

1,662,547. APPARATUS FOR PREPARING COFFEE AND OTHER INFUSIONS. CESARE UERTIS, Turin, Italy, assignor to Giovanni Sartorio, Turin, Italy. Filed Dec. 10, 1926, Serial No. 153,900, and in Austria Nov. 22, 1926. 4 Claims. (Cl. 53—3.)



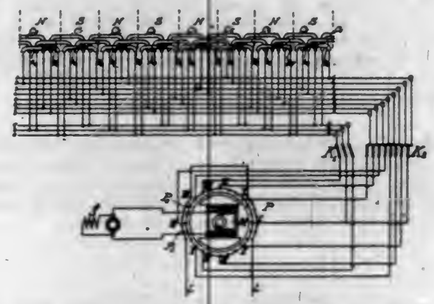
1. Apparatus for the rapid preparation of infusions comprising a vessel connected with the atmosphere and adapted to heat water to a temperature below 100° C., a constant level tank communicating with said vessel, a source adapted to contain pressure air, a pipe connecting the upper and lower portion of the vessel, so as to obtain an automatic continuous circulation of the heated water, a plurality of infusion generators branched from said pipe, a three-way cock on each of said branch pipes, a pipe connecting the source of pressure air with each of said cock so as to connect said infusion generator first with the hot water pipe and successively with the pressure air source.

1,662,548. TESTING DEVICE. HARRY R. VAN DEVENTER, New York, N. Y., assignor to Dubilier Condenser Corporation, a Corporation of Delaware. Filed Feb. 14, 1924. Serial No. 692,784. 6 Claims. (Cl. 175—183.)



4. A testing device comprising a casing, a telephone receiver, a buzzer, a condenser, a voltmeter, and a battery carried by said casing, connections between said receiver, buzzer, condenser, voltmeter and battery, and terminals accessible from the exterior of the condenser, said terminals and connections being arranged to permit the receiver, the buzzer, the condenser, the voltmeter or the battery to be connected singly or in selected pairs, to a circuit to be tested.

1,662,549. METHOD OF SPEED REGULATION FOR POLYPHASE INDUCTION MOTORS. KALMAN VON KANDO, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 28, 1922, Serial No. 540,034, and in Hungary Mar. 2, 1921. 5 Claims. (Cl. 172—274.)



1. The combination with an induction motor having a three-phase winding with $n\times 8$ poles, where n is an integer, with one coil in each phase for each pole, and each coil overlapping two coils of each of the other phases; of a source of three-phase current and a source of so-called eight-phase current; means including switch mechanism for connecting one end of all of said coils in $n\times 3$ groups to the respective terminals of said three-phase current source, the coils in each group being of the same phase, or for connecting the other ends of all of said coils in $n\times 8$ groups spaced $60/n$ degrees apart to each of the two terminals of each phase of said eight-phase current source, each of said last mentioned groups consisting of $n\times 3$ coils of different phases spaced apart $120/n$ degrees.

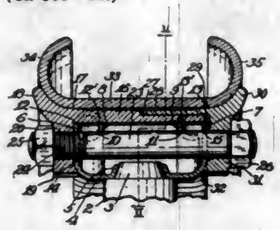
4. A polyphase induction motor having a three-range winding comprising $n\times 24$ coils, n being an integer, each coil overlapping two coils of the other two ranges, the coils being arranged in eight groups, each group containing three coils spaced apart $120/n$ degrees, the coils of the respective groups being united at one end and connected to separate current leads, current leads the number of which is a multiple of three connected to the other ends of the coils, said last mentioned current leads each being connected to the same number of coils belonging to the same range of the winding.

1,662,550. SULPHUR FUNGICIDE AND INSECTICIDE. CORNELIUS D. VREELAND, Vineland, N. J. Filed Nov. 24, 1925. Serial No. 71,203. 9 Claims. (Cl. 167—6.)

1. A fungicidal and insecticidal material comprising an intimate dry mixture of finely divided elemental sulphur and an acetate.

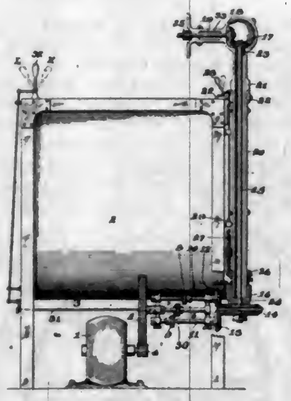
4. A fungicidal and insecticidal material comprising an intimate mixture of finely divided elemental sulphur and crude pyroligneous acetate.

1,662,551. METALLIC VEHICLE WHEEL. JOHN R. WELCH, deceased, Muncie, Ind., by Viola M. Welch, executrix, Muncie, Ind., assignor to Viola M. Welch individually. Filed Dec. 14, 1923. Serial No. 680,640. 3 Claims. (Cl. 301—11.)



1. A vehicle wheel felly having two side members provided with tread ribs respectively, each rib having a plurality of recesses therein, a plurality of bridge bars secured in the recesses respectively of the two tread ribs, each bar having a guide channel therein and also a head, and a plurality of keys removably arranged in the channels and having heads thereon respectively, the keys being adjustable in the channels and having securing means.

1,662,552. REVERSIBLE MECHANISM FOR OPERATING WASHING-MACHINE WRINGERS. DAVID M. WENGER, Leola, Pa. Filed June 19, 1926. Serial No. 117,114. 2 Claims. (Cl. 74—58.)



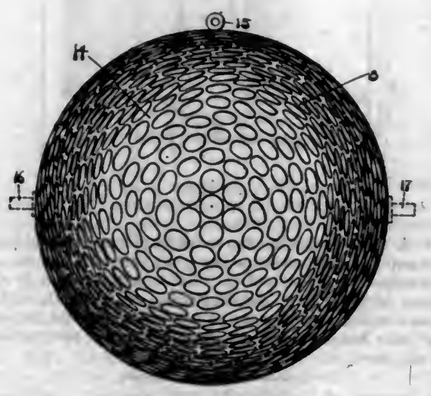
1. In a device of the character described, a support, a vertical shaft thereon, means for driving and reversing the motion of the vertical shaft comprising a two tooth faced element fixed to the vertical shaft, a driving shaft, auxiliary shafts spaced parallel to the driving shaft, suitably formed gears on the auxiliary shafts for meshing with the two tooth faced element, a sliding gear mounted on the driving shaft, gears mounted on the auxiliary shaft for cooperating with the sliding gear, and means for operating the sliding gear in such a manner that it will function to mesh with either one of the cooperating gears on the auxiliary shafts as may be desired, thereby providing means for reversing direction of motion of the vertical shaft.

1,662,553. INTERNAL-COMBUSTION ENGINE. ALPHONSE P. M. WILKINO, Belmont, Mass. Filed Nov. 8, 1926. Serial No. 146,941. 4 Claims. (Cl. 123—32.)



1. In an oil burning engine of the type in which liquid fuel is ignited through contact with compressed air, the combination of a cylinder, a piston operable within the cylinder, a fuel injection valve having a plurality of orifices, and a plurality of separate combustion pockets for said orifices extending radially from the valve and each approximating the shape of the spray emitted from its orifice.

1,662,554. MYRIAD REFLECTOR. LOUIS BERNARD WORSTE, Cincinnati, Ohio, assignor of one-half to William A. Stephens, Cincinnati, Ohio. Filed Nov. 24, 1924. Serial No. 751,854. 1 Claim. (Cl. 88—1.)



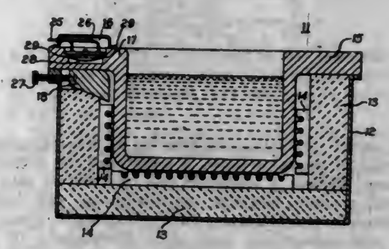
A myriad reflector of any geometrical form adapted to be rotated upon a substantially vertical axis, consisting of a base of desired shape, a series of facet holding plates fastened to the base and a light reflecting facet secured to each plate, each plate consisting of a piece of metal of substantially rectangular shape having diagonally opposite corners secured to the base, each facet being of substantially circular shape and having the diagonally opposite free corners of its mounting plate bent over into retaining relation to its face, and a cementitious non-reflecting material occupying the spaces between adjacent mounted facets on the base to cover the assembly with the exception of facet faces and turned over corners of the mounting plates.

1,662,555. UNIVERSAL BOTTLE HEATER. EDWARD WOJCIECHOWSKI, Aberdeen, Wash. Filed Dec. 18, 1926. Serial No. 155,716. 4 Claims. (Cl. 219—41.)



1. An electrical heater comprising a member provided with a central opening, an insulating base fixed within the lower end of said opening and having a pair of spaced contact strips projecting upwardly therefrom within said opening, a resistance carrying casing attached to the lower end of said member and having the terminal wires of its resistance connected to the respective contact strips, and a plug member removably fitted in said opening above the insulating base and provided with a pair of internal longitudinal contact strips respectively engageable with said first named contact strips and adapted to have conductors connected to the upper ends thereof.

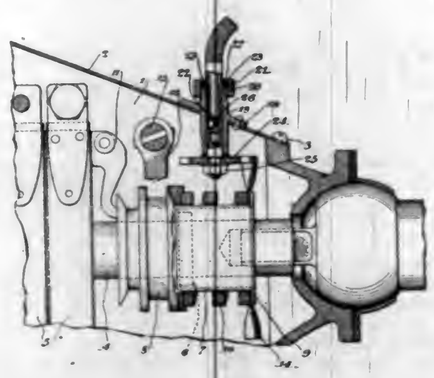
1,662,556. THERMOSTATIC CONTROL DEVICE. JAMES C. WOODSON, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1926. Serial No. 117,924. 7 Claims. (Cl. 219—44.)



1. In an electric heating device, the combination with a vessel for containing a body of material to be heated, electric heating means disposed in thermal conductive

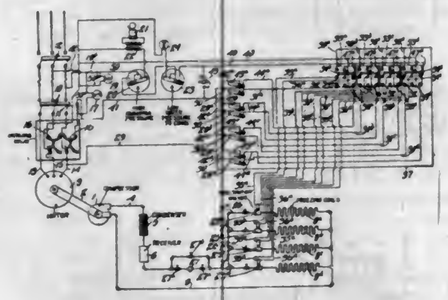
relation thereto, a thermostat for controlling the energization of said heating means, of means for varying the amount of heat conveyed to said thermostat from the material to be heated in accordance with a predetermined temperature to be maintained in said material.

1,662,557. SPEEDOMETER DRIVE ON PROPELLER SHAFTS. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Jan. 29, 1926. Serial No. 84,790. 4 Claims. (Cl. 74—7.)



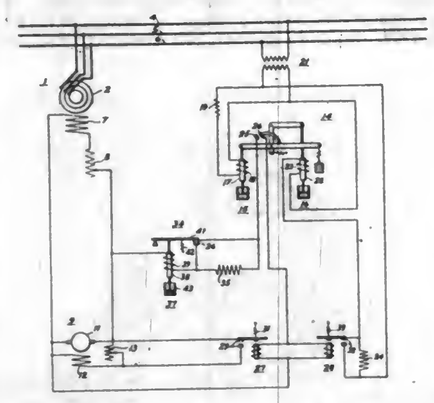
1. A gear composed of a plurality of adjoining parts, crimped teeth on the outer periphery thereof, the end teeth of the parts interengaging to make a complete gear.

1,662,558. REFRIGERATING SYSTEM WITH AUTOMATIC CONTROL. FRANK R. ZUMBRO, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed May 13, 1925. Serial No. 30,061. 3 Claims. (Cl. 62—8.)



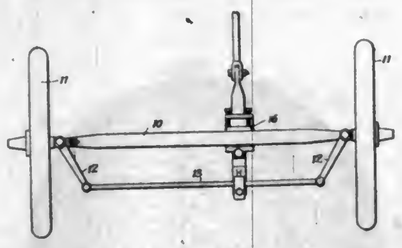
1. A direct expansion refrigerating system comprising a plurality of rooms or tanks, a compressor for supplying refrigerant thereto, a condenser and receiver for said refrigerant, a motor operating the compressor, two double-pole snap-action thermostats in the respective rooms or tanks, and connections from such thermostats to the motor whereby the motor will be stopped when all the thermostats are in off position, audible means for indicating high refrigerant pressure and visible means for indicating low water pressure to the condenser in circuit with said thermostats, substantially as set forth.

1,662,559. REGULATOR SYSTEM. JOHN H. ASHBAUGH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 4, 1924. Serial No. 753,866. 3 Claims. (Cl. 171—229.)



1. In a regulator system, a dynamo-electric machine, a regulator for controlling the excitation of said dynamo-electric machine, a plurality of relays controlled by said regulator, and a constant-current regulator in series-circuit relation with said relays.

1,662,560. STEERING DEVICE. JAMES OTIS BOLT, Leeds, Ala. Filed June 14, 1927. Serial No. 198,851. 5 Claims. (Cl. 280—33.55.)

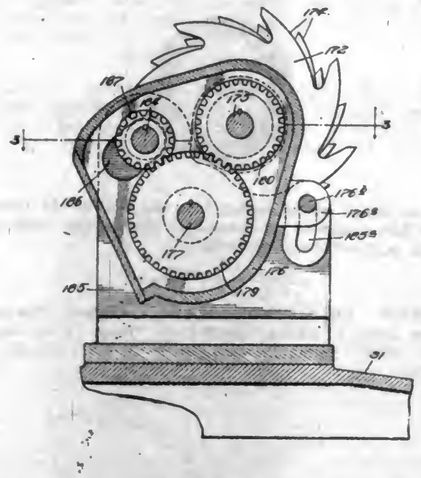


1. A steering device for a trailing vehicle comprising a clamp for attachment to the front axle, a clamp for attachment to the tie rod, a draft tongue pivoted to the clamp on the front axle rearwardly of said axle and a pivotal connection between the clamp on the tie rod and the draft tongue forwardly of said tie rod, substantially as set forth.

1,662,561. LATHE. STANLEY E. BOYNTON, Oak Park, Ill., assignor to Charles E. Reed, McHenry Township, Ill. Filed July 7, 1923. Serial No. 650,170. 1 Claim. (Cl. 142—15.)

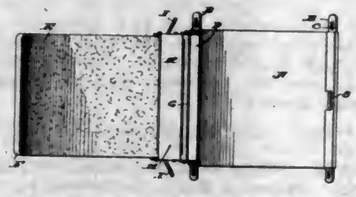
A detachable unitary mount for a cutter head for lathes mounted on the lathe tool carriage and comprising a fixed housing, a drive gear mounted therein, spaced bearings therein in fixed relation to the drive gear, a finishing cutter shaft mounted in said spaced bearings, a gear on said shaft in mesh with the drive gear, a member on said housing disposed at right angles to said drive gear and provided with an arcuate slot, a movable roughing cutter gear housing mounted between said spaced bearings provided with an ear having a hole in register

with said slot, clamping means extending through said slot and ear, arcuate openings in the side walls of said movable housing through which the finishing cutter



shaft extends, a roughing cutter shaft mounted in said movable housing, and a gear on said roughing cutter shaft continually in mesh with the drive gear in all positions of adjustment of said movable housing.

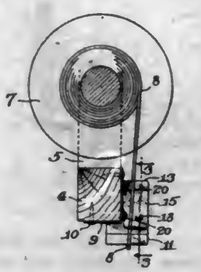
1,662,562. NECKTIE PRESS. HARRISON D. BRANDT, Sharon Hill, Pa. Filed Nov. 2, 1926. Serial No. 145,827. 3 Claims. (Cl. 100—57.)



1. A tie press comprising a supporting member, a hanger and presser leaf pivotally mounted thereon, and a presser leaf mounted to cooperate with said hanger and presser leaf and to have movement with relation thereto, in combination with interengaging locking means carried by said supporting member and said hanger and presser leaf to lock the latter parallel to, and adjacent to, said supporting member, and releasable movable means for holding said presser leaf and said presser leaf and holder in tight contact, said releasable means being formed with portions adapted to pry said hanger and presser leaf away from said supporting element to disengage said locking means during the movement of said movable means to release said presser leaf and said holder and presser leaf therefrom.

1,662,563. TUBE FRAME FOR TUFTED-PILE-FABRIC LOOMS. EUGENE F. CLARK, Leaksville, N. C., assignor to Marshall Field Mills Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 9, 1925. Serial No. 42,393. 15 Claims. (Cl. 139—10.)

1. In a tuft yarn frame a body bar, a row of spaced walls projecting therefrom and forming yarn strand passages between them, each passage having an entrance opening and an exit opening connected by a front opening through which a yarn strand may be threaded, and a yielding barrier in each passage permitting a yarn



strand to be threaded into the same through its front opening and preventing a yarn strand from accidentally leaving the passage through its front opening.

1,662,564. METHOD OF MAKING MIRRORS. GEORGE F. COLBERT and WILLIAM H. COLBERT, Pittsburgh, Pa. Original application filed Apr. 30, 1926, Serial No. 105,884, now Patent No. 1,603,936, granted Oct. 19, 1926. Divided and this application filed July 30, 1926. Serial No. 126,086. 6 Claims. (Cl. 91—70.)

1. The method of making a non-glaring mirror, which consists in preparing a mixture of solutions of a lead salt, sodium hydroxide, and thiourea, pouring such mixture immediately after its preparation upon the upper surface of a glass plate, while such plate is maintained with such upper surface in a horizontal position, and allowing the plate to stand until a dense opaque coating of lead sulphide is precipitated upon the plate.

1,662,565. NONGLARE MIRROR. GEORGE FIELDING COLBERT and WILLIAM HARRY COLBERT, Pittsburgh, Pa. Filed May 3, 1927. Serial No. 188,433. 6 Claims. (Cl. 91—68.)

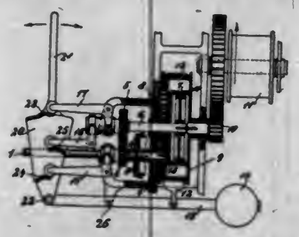


1. The herein described operation of producing a light absorbing non-glare mirror, which consists in subjecting one surface of a glass sheet to a treatment adapted to remove all grease and other foreign matter therefrom, and then exposing the said treated surface to the action of a mixed solution of a metallic salt, an alkali thiourea, and ethyl alcohol, to thereby deposit thereon a dense uniform lustrous coat of metallic sulphide.

1,662,566. TRANSMISSION MECHANISM. FRITZ DÖHLE, Wilmersdorf, near Berlin, Germany. Filed Apr. 4, 1922, Serial No. 549,580, and in Germany Apr. 5, 1921. 6 Claims. (Cl. 192—17.)

4. Transmission mechanism comprising a clutch including driving and driven elements constructed so as to be coupled together, a brake upon said driven element arranged to be normally applied whenever said elements are uncoupled, and means for sequentially coupling said elements and releasing said brake, said brake including a brake lever, said operating member including a plate supported by said brake lever, cams on the plate for actuating said clutch means, the cams being positioned so that the brake is released only after the clutch means is brought into active position by pressure on the brake

lever, the plate being pivoted to the brake lever, clutch operating arms engaging said cams, whereby movement of the plate, in either direction about its pivot first



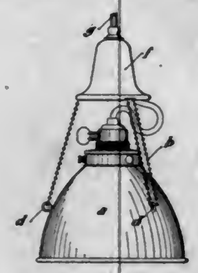
actuates a clutch operating arm, and then actuates the brake lever to release the brake, and vice versa upon return movement of the plate.

1,662,567. EXPANSION JOINT. ALBERT C. FISCHER, Chicago, Ill. Filed May 25, 1921. Serial No. 472,819. Renewed Dec. 19, 1924. 7 Claims. (Cl. 94—18.)



1. Constructional material comprising a waterproofed, flexible, preformed strip, embodying in its structure interrupted and substantially parallel mats of fibrous material irregularly overlapping one another.

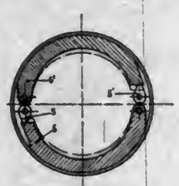
1,662,568. LAMP SUSPENSION. JOSEF FOELL, Dusseldorf, Germany. Filed May 26, 1926, Serial No. 111,794, and in Germany May 28, 1925. 1 Claim. (Cl. 240—88.)



The combination with an electric lamp and its reflector, of a bell carried by the lamp wire, said bell being formed with a tubular rim divided by slots into segments, a plurality of eyelets connected to the reflector, and a flexible suspending element threaded through said eyelets and through different segments of the bell rim so that it can be adjusted therein for holding the reflector and the lamp suspended from the bell in different angular positions.

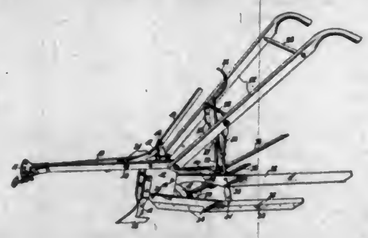
1,662,569. BRAKE OF THE EXPANDING-SHOE TYPE. GUIDO FORNACA, Turin, Italy. Filed Dec. 8, 1926, Serial No. 153,382, and in Italy Dec. 12, 1925. 2 Claims. (Cl. 188—194.)

1. A brake mechanism comprising in combination a steering swivel, oppositely extending parallel arms fixed to the latter, a bush having end walls mounted in the free ends of each pair of arms, a pin concentrically journalled in the end walls of each bush, a cylindrical member mounted on each pin and having a cam surface, a lever connected with each cylindrical member extending through a slot in the bush, a pair of brake shoes, each shoe having one end pivoted on one of the bushes



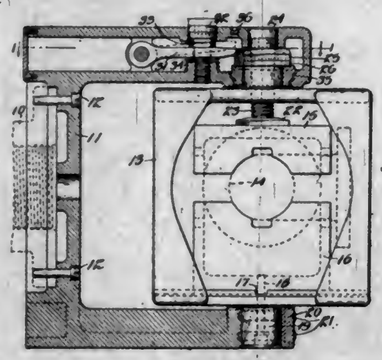
and its other end extending into the slot of the other bush, and means to simultaneously operate the levers to rotate said cylindrical members.

1,662,570. CULTIVATOR BLADE. EDWARD FOWLER and JOHN V. LEWIS, Chattanooga, Tenn. Filed Aug. 27, 1925. Serial No. 52,794. 4 Claims. (Cl. 97—183.)



1. In a cultivator including horizontally spaced frame elements for supporting a blade, the combination of means for attaching the blade, said means comprising a stud on one of said elements, the other of said elements having a notched portion, said blade having an oblique slot in one of its edges, said stud being engageable in said slot, and clamping means in connection with said blade and selectively engageable with the notches of said notched element.

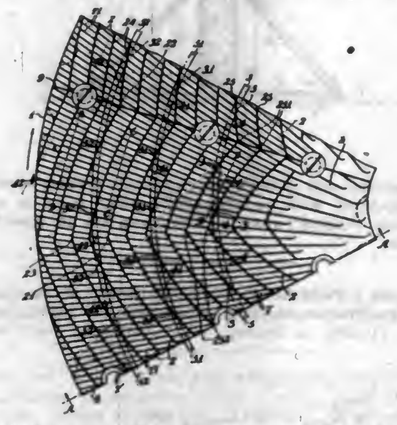
1,662,571. WORK-HOLDING CHUCK FOR HEADSTOCKS. FREDERICK FRICK, Waynesboro, Pa. Filed Sept. 22, 1924. Serial No. 739,191. 2 Claims. (Cl. 279—5.)



1. In a chuck, a frame, a yoke pivotally mounted in the frame for indexing movement, said yoke having a plurality of flat faces in fixed relation about the axis

of the yoke, rigid pivoted locking means on the frame having a flat face adapted to engage the entire length of one of said faces on the yoke, a screw for forcing the locking means positively into engagement with said face, and resilient means for disengaging the locking plate from said face when the screw is backed off, substantially as set forth.

1,662,572. REDUCING OR REFINING APPARATUS FOR CHOCOLATE, COCOA, AND THE LIKE. FREDERICK GEORGE FRYER, York, England. Filed July 19, 1926. Serial No. 123,471. 19 Claims. (Cl. 83—3.)



1. Reducing or refining apparatus for chocolate, cocoa or the like, comprising a pair of relatively rotatable discs having operative faces pressed together into a single plane under yielding pressure, each disc having a surface made up of elemental annular disc-areas and having reducing walls forming reducing surfaces, the total area of all those elements of said reducing surfaces which lie in an elemental annular disc-area increasing substantially proportionately with the radius of the elemental annular disc-area.

1,662,573. JOINT BINDER. EDOUARD CHARLES GLARDON, Lausanne, Switzerland. Filed June 22, 1927, Serial No. 200,712, and in Germany May 28, 1925. 3 Claims. (Cl. 20—92.)

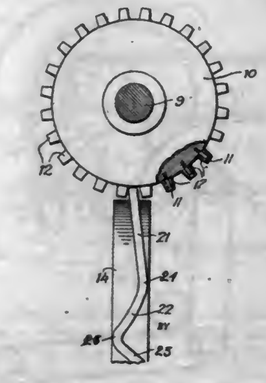


1. A joint binder comprising a U-shaped clamp, the two shanks of which are perforated and adapted to enter the two members to be secured together, a flat barbed nail adapted to be driven into the said two members and through the perforations of the shanks, and a re-inforcement for the edge portions of the perforations in the shanks adapted to prevent the head of the flat barbed nail being driven through the edge portions.

1,662,574. PROCESS OF COLORING FOIL. WILLIAM G. GOLDEN, Louisville, Ky., assignor to United States Foil Co., Louisville, Ky., a Corporation of Kentucky. Filed Oct. 26, 1925. Serial No. 65,052. 7 Claims. (Cl. 41—18.)

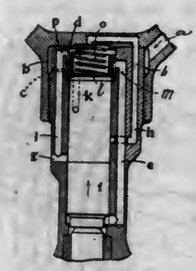
1. A process of converting tin foil of a silver color into a gold colored foil by the application of heat thereto for a predetermined period of time.

1,662,575. CONVEYER. CHARLES HAYES, Paris, France, assignor to Coal Carbonization Company, a Corporation of Delaware. Filed Nov. 30, 1926. Serial No. 151,804. 4 Claims. (Cl. 198—203.)



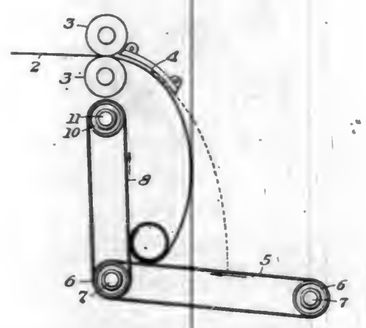
1. In combination with a screw conveyer, means for rotating the shaft of the conveyer a predetermined number of turns in a direction to advance the material acted on, reversing the direction of rotation of the conveyer for a less number of turns and again rotating the conveyer in a direction to advance the material.

1,662,576. VALVE FOR PNEUMATIC TOOLS. HERBERT JESCHKE, Duisburg, Germany, assignor to Demag Aktiengesellschaft, Duisburg, Germany. Filed Nov. 6, 1926, Serial No. 146,733, and in Germany Sept. 15, 1925. 1 Claim. (Cl. 121—19.)



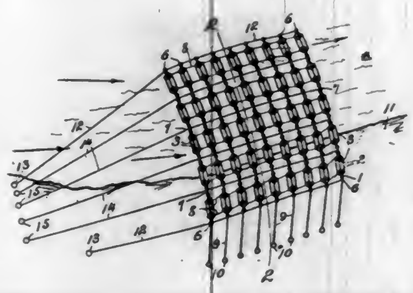
In a percussive tool the combination of a cylinder, a valve chest having communication with opposite ends of said cylinder and having a port adjacent one end communicating with a source of operating fluid and an exhaust port communicating with the opposite end, a cylindrical valve slidably mounted in said valve chest and adapted to control communication between said source of compressed fluid and opposite ends of said cylinder, a spring operatively engaging one side of said valve and serving to normally hold said valve in position to close communication to one end of said cylinder, said cylinder having a piston controlled relief port and a piston controlled pressure equalizing port each normally communicating with said valve chest on the spring pressed side of said valve, whereby fluid pressure is equalized on opposite sides of said valve during the major portion of the travel of said piston toward the end of said cylinder normally closed by said valve under the action of said spring, until said pressure equalizing port is covered by said piston, permitting sufficient fluid pressure to be built up under said valve to cause said valve to move in said valve chest to reverse the direction of flow of said operating fluid.

1,662,577. METHOD OF COILING MATERIAL AND APPARATUS THEREFOR. LANE JOHNSON, Ingram, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 29, 1926. Serial No. 112,630. 23 Claims. (Cl. 242—78.)



11. A coiling apparatus, comprising a pair of belts extending at substantially right angles to each other, and means for driving said belts.

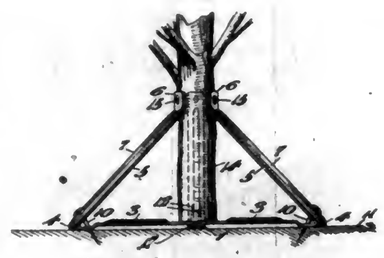
1,662,578. JETTY. HENRY F. KELLNER, Silver Lake, Kans. Filed Aug. 23, 1926. Serial No. 130,927. 3 Claims. (Cl. 61—3.)



1. In a jetty, a jetty mat comprising collecting jetty units arranged in longitudinal and transverse rows, spacing connectors connecting the units of each transverse row with each other, spacing connectors connecting the units in the longitudinal rows with each other, spaced anchoring transverse cables respectively connecting with the adjacent units of the transverse rows, and longitudinal anchoring-cables fastened to the lowermost transverse row of units and having longitudinal slidable connection with the other transverse rows of units.

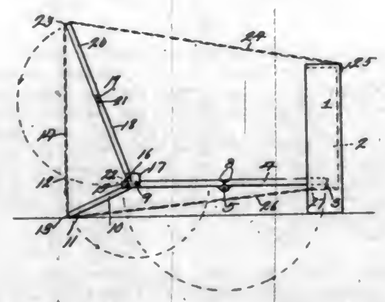
1,662,579. CHRISTMAS-TREE SUPPORT. ABRAHAM KIRSHNER, Philadelphia, Pa. Filed Apr. 13, 1927. Serial No. 183,266. 3 Claims. (Cl. 248—38.)

1. In a device of the character stated, a tripod construction consisting of base members pivotally connected together at their innermost ends and having their outer ends bent upwardly and inwardly at an acute angle to form arms, the extremity of each of which is bent upwardly to form vertical extensions, the end of one of said base members being provided with four holes and



the coacting ends of the other two members being bevelled and provided with two holes, the outer holes in said members aligning, when said members are in operative position.

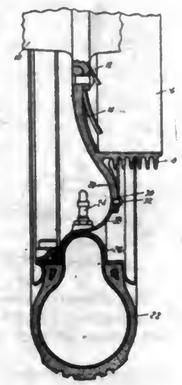
1,662,580. FOLDABLE TOURIST BED. ANTHONY E. KUHN, Mishawaka, Ind. Filed June 14, 1926. Serial No. 115,886. 6 Claims. (Cl. 5—119.)



1. A foldable bed comprising a casing, a foldable bed frame hingedly mounted within said casing and extending outwardly therefrom, a tent connected to the upper end of the casing, said tent extending outwardly, downwardly and inwardly over the bed frame and anchored to the casing below the bed frame, supporting legs from said frame, said supporting legs inclining downwardly and outwardly and engaging the inner side of the tent a substantial distance from the bed frame and a tent engaging frame hingedly connected to the outer end of the bed frame and inclining upwardly and outwardly and terminating above the leg engaging points and in combination with the legs and tent forming a compartment beyond the end of the frame in which a person can stand with his feet on the tent adjacent the legs.

1,662,581. TWO-PART WHEEL. LUDGER ELIZE LA BRIE, South Bend, Ind., assignor to Motor Industries, Inc., a Corporation of Illinois. Original application filed Oct. 15, 1923, Serial No. 668,709. Divided and this application filed Sept. 21, 1925. Serial No. 57,555. 7 Claims. (Cl. 301—6.)

1. A wheel comprising a relatively heavy midsection formed with a brake drum and flared inwardly from the midplane of the wheel at its outer edge, in combination with a relatively light annular part secured thereto and carrying a rim and tire and flaring back across the mid-

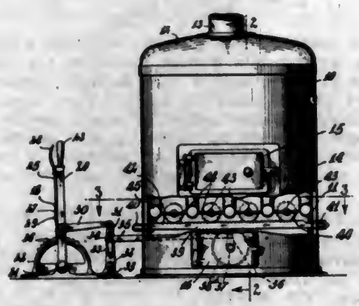


plane of the wheel, with the valve of the tire projecting through the annular part and accessible from the front of the wheel.

1,662,582. CLEANSING AND POLISHING COMPOUND. CHARLES H. MCALEER, Detroit, Mich. Filed Dec. 12, 1924. Serial No. 755,368. 2 Claims. (Cl. 87—5.)

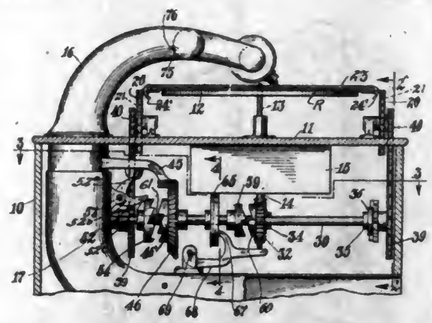
1. A cleansing and polishing compound consisting of the following ingredients—namely, 30 pounds double ground cream tripoli, 10 pounds powdered rottenstone, 3½ pounds Kitigumi Japan wax, 2½ pounds double pressed stearic acid, 9 pounds kerosene and 2 pounds light rubbing oil.

1,662,583. FURNACE. DAVID MARTIN, Milwaukee, Wis. Filed Nov. 27, 1926. Serial No. 151,059. 2 Claims. (Cl. 126—160.)



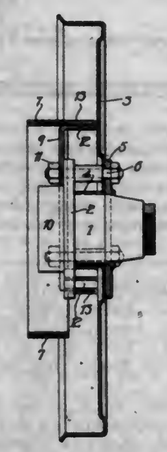
1. In a furnace of the class described, spaced apart rotatively mounted grate sections having gear segments attached thereto, a rod disposed within said furnace and slidably mounted at its extremities in the walls thereof, teeth on the upper edge of said rod engaged with the teeth of said gear segments, a standard mounted in the floor of said furnace having an aperture therein, a shaft journaled in said aperture, a gear attached to said shaft, teeth on the lower edge of said slidably mounted rod meshed with the teeth of said gear and actuating mechanism operatively connected with said gear and mounted externally of said furnace for oscillating the same to reciprocate said rod for rotating said grate section.

1,662,584. TALKING MACHINE. COSTANTINO MOCCIA, Lynch Mines, Ky. Filed Jan. 2, 1924, Serial No. 683,865. Renewed Aug. 13, 1927. 2 Claims. (Cl. 274—10.)



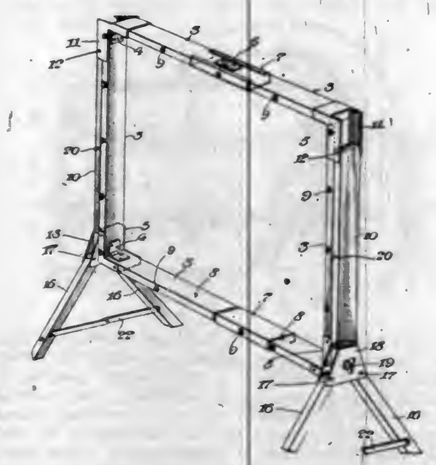
1. In a talking machine of the class described, a tone arm having a bevel gear segment projecting therefrom, a shaft rotatably mounted in said talking machine, a bevel gear loosely engaged on said shaft, and meshing with said bevel gear segment, said bevel gear being formed on one side with a clutch face, a collar slidable on said shaft, and formed with a complementary clutch face, means for normally urging said clutch faces into disengagement, said shaft being formed with a central bore, and provided with elongated slots communicating with said central bore, a rod slidable in said central bore, a cross pin fixed to one end of said rod, and projecting through said elongated slots, engaging said collar, a clutch element slidable on said shaft, another cross pin fixed to the other end of said rod, and projecting through said elongated slots, engaging said clutch element, a driven gear loosely mounted on said shaft, and provided with a complementary integral clutch element, and means for pressing forward said collar to cause engagement of said clutches, when the tone arm is in record playing finished position, and releasing said collar to cause disengagement of said clutches, when the tone arm is in record playing starting position.

1,662,585. BRAKE DRUM. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Mar. 11, 1924. Serial No. 698,398. 1 Claim. (Cl. 188—218.)



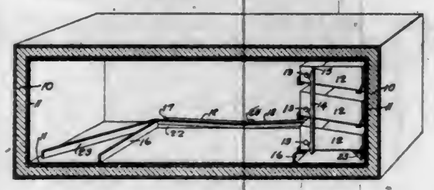
The combination with a wheel having a hub with a flange 2, of a brake drum 7 having butt welded to one edge fastening members with portions 9 extending radially inward and fastened against said flange 2.

1,662,586. FOLDABLE SUPPORTING FRAME FOR SCREENS. HUGO NEWMAN, New York, N. Y. Filed Nov. 7, 1925. Serial No. 67,557. 17 Claims. (Cl. 88—24.)



1. An upright reversible projection screen supporting frame comprising a top and bottom and a pair of side bars, and supporting legs at the outside of and hinged nearer to one end than to the other of said side bars, each of said legs having a length at least substantially equal to the distance between said hinge and the farther end of said side bars thereby to support the frame at one height and foldable in the direction of the plane of the frame to support it at a different height on the reversal of the top and bottom of said frame.

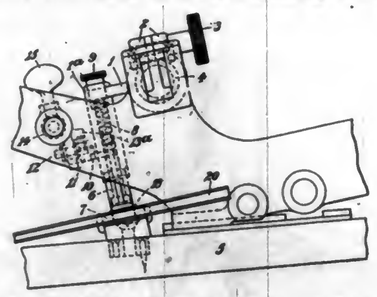
1,662,587. REFRIGERATOR. FAY T. RODGERS, Memphis, Tenn. Filed July 24, 1926. Serial No. 124,648. 4 Claims. (Cl. 62—37.)



1. In a refrigerator, a plurality of individual refrigerant containers, a common drip pipe therefrom, means connecting each of said containers with said drip pipe, said pipe being removable independently of said containers and said containers being individually removable from the refrigerator, and a drip pan into which said pipe discharges.

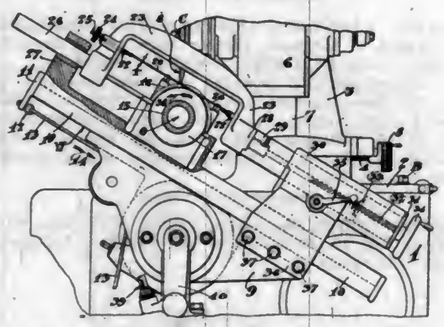
1,662,588. SIDE-REGISTER DEVICE FOR PRINTING MACHINES. JOHN SHUTTLEWORTH, Altrincham, England, assignor to Linotype and Machinery Limited, London, England. Filed Nov. 6, 1925, Serial No. 67,226, and in Great Britain Nov. 24, 1924. 5 Claims. (Cl. 271—59.)

1. In a side register device of the type described for printing machines, the combination with upper and lower side-register feet adapted to grip between them the sheets to be registered, and means for reciprocating in rectilinear direction said feet inwards and outwards transversely of a feed board, of a guide for the upper side-register foot constantly perpendicular to the plane of the sheet to be gripped, by which, movement of said foot relatively to the other foot is restricted to recilinear direcion perpendicular to the plane of the sheet, and a cam adapted to move the upper side-register foot rectilinearly away from the lower one during the mutual



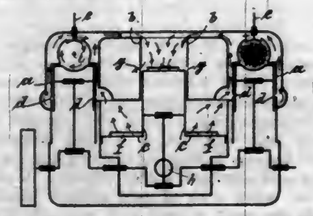
travel of the feet in one direction over the feed board and to allow the said upper foot to travel in the reverse direction over the feed board without moving relatively to the lower one.

1,662,589. MEANS FOR CONTROLLING MOVEMENTS OF WORK-CARRYING SPINDLE WITH RESPECT TO A CUTTING ELEMENT IN GEAR-GRINDING MACHINES AND THE LIKE. OLIVER G. SIMMONS, Lakewood, Ohio. Filed Nov. 26, 1926. Serial No. 150,865. 5 Claims. (Cl. 51—52.)



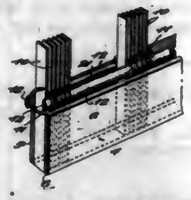
1. In a machine of the character set forth, a slide, a guideway for the slide, a work spindle on the slide, a disc fixed to the spindle, a yoke partially surrounding said work spindle, oppositely disposed tapes secured to the periphery of the disc and to the yoke at opposite sides of the spindle, means for oscillating said spindle, and means for moving the yoke along the guideway and for securing the same in adjusted positions with respect thereto.

1,662,590. INTERNAL-COMBUSTION ENGINE. HANS THORMEYER, Berlin, Germany. Filed June 16, 1926, Serial No. 116,265, and in Germany May 28, 1925. 2 Claims. (Cl. 60—15.)



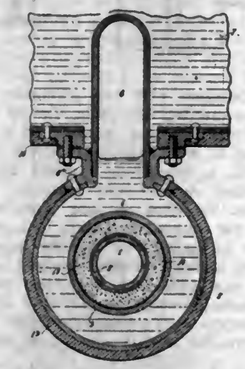
1. A compound internal combustion engine comprising two high pressure engines and an intermediate low pressure engine, said low pressure engine including a stepped piston comprising a cylindrical portion and a disk shaped portion, cylinders for said portions, a conduit connecting the said cylinders, an air intake port in the cylinder containing the disk shaped portion, an exhaust port in the cylinder containing said cylindrical portion, and a valve in the cylinder of each high pressure engine receiving compressed air from, and exhausting products of combustion to, said conduit.

1,662,591. TEXTILE REED OR COMB. HARRY TITMAS, Pawtucket, R. I. Filed Feb. 3, 1926. Serial No. 85,705. 6 Claims. (Cl. 139—192.)



1. A reed or comb comprising a frame having separate groups of dents permanently fixed therein at spaced intervals therealong and provided with openings between the groups of fixed dents for the insertion of other dent elements to adapte them to be withdrawn for repair or replacement.

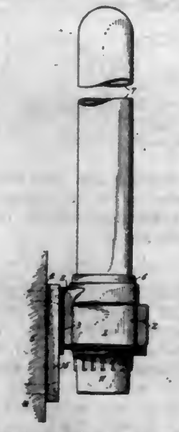
1,662,592. ROTARY CASTING. WILLIAM W. WEITLING, College Point, and AUGUSTUS M. HENRY, Brooklyn, N. Y., assignors to William W. Weitling, College Point, Long Island, N. Y., trustee for himself; Augustus M. Henry, and Roberto M. Peake. Filed Sept. 5, 1924. Serial No. 736,098. 7 Claims. (Cl. 22—212.)



1. In the art of rotary casting, the method of controlling the rate of heat-conduction from the molten-metal pour through the mold, which involves rotating the mold while maintaining the mold in heat-transfer relation to a connection of linseed oil, and confining such collection of oil adjacent to the mold to vaporize a portion of said liquid.

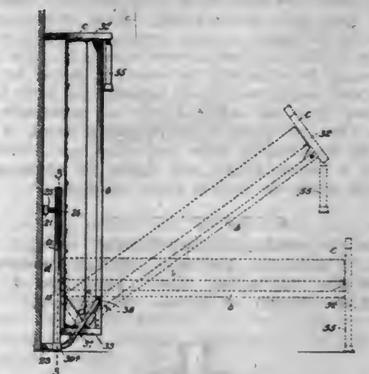
1,662,593. DISPENSING DEVICE. EDWIN G. WESSMAN, Easton, Pa., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Original application filed July 20, 1921, Serial No. 486,071. Divided and this application filed Jan. 9, 1922. Serial No. 527,900. 26 Claims. (Cl. 312—44.)

1. In an apparatus of the class described, a casing having a delivery opening, a casing part extending along one side of the casing, a door to close the delivery opening, having a sliding pivotal connection at one end with the casing part, said door being adapted to be positioned within said casing part when opened and to be moved



therefrom to closed position over the delivery opening, and means in the casing part for holding the door in open and closed positions.

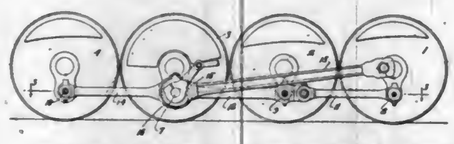
1,662,594. DISAPPEARING BED. CHARLES C. WHITE, Chicago, Ill. Filed Sept. 23, 1921. Serial No. 502,699. 8 Claims. (Cl. 5—140.)



1. In a disappearing bed, the combination of a fixed head-frame comprising corner posts and cross bars between the posts, means to support the head-frame from a wall or door, a bed-frame, pivots fixed on the sides of the bed-frame, rectilinear guides in the posts for said pivots forming a sliding connection between the bed-frame and the head-frame, the pivots extending outward from the bed and into the inner sides of and being transversely aligned with the corner posts, and fulcrum links having their lower ends pivoted in the head-frame close to the plane of movement of the pivots and their upper ends pivoted to the bed-frame at a point disposed away from said plane.

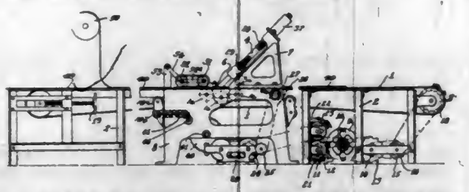
7. In a disappearing bed, the combination of a fixed head-frame, means to support the head-frame from a wall or door comprising corner posts and cross-bars, a bed-frame having a pivot and slidably connected to and supported by the head-frame, and counterbalancing means transversely aligned with and between the corner posts of the head-frame, comprising casings mounted on the inner sides of the corner posts of the head-frame, drums in the casings, convolute springs between the casings and the drum, and metallic tapes between the drums and the bed-frame.

1,662,595. LOCOMOTIVE ROD MECHANISM. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed May 2, 1925, Serial No. 27,432. Renewed Jan. 26, 1928. 12 Claims. (Cl. 105—84.)



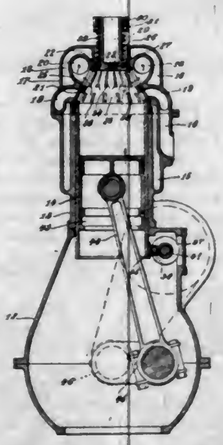
1. A multi-part driving rod for locomotive driving wheels having adjacent parts articulated together as an operative unit for unitary application to and removable from a driving wheel pin.

1,662,596. APPARATUS FOR CUTTING SINGLE OR PLIED-UP STOCK. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan. Filed July 30, 1926. Serial No. 125,931. 12 Claims. (Cl. 164—48.)



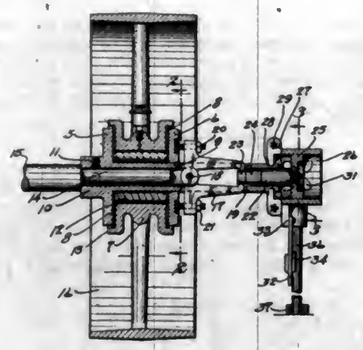
1. An apparatus for cutting sheet material comprising a knife, supporting means rigidly affixed thereto, means for guiding the same in reciprocating movement, a conveyor for conducting sheet material across the path of the knife, means for actuating the conveyor, means for moving the knife supporting means whereby the knife is carried away from the conveyor and for maintaining the same in this position for a predetermined length of time, means for thrusting the knife supporting means forwardly to effect a cutting stroke, and means for adjusting the force with which the knife is thrust forward.

1,662,597. INTERNAL-COMBUSTION MOTOR. ARTHUR S. BALDWIN, Baltimore, Md., and EVERETT E. RICHMOND, Huntington, Mass. Filed Dec. 9, 1926. Serial No. 153,500. 3 Claims. (Cl. 123—81.)



1. In an internal combustion motor the combination with a cylinder having a conical end with intake and exhaust ports arranged in said conical end with one set of ports in a plane above the other, of a head having annular intake and exhaust passages which passages are arranged in the head also in a plane one above another, a liner in said head and provided with a conical chamber to receive the conical end of the cylinder said liner having a series of intake ports in its conical wall in one plane and another series of exhaust ports in its conical wall in another plane said two series of ports in the liner being always open respectively to the two annular passages in the head, the ports in one of said parts being staggered while those in the other part are in radial alinement, a piston for the cylinder and means for oscillating one of the parts that carry the ports with respect to the other whereby the two sets of intake ports will register while the two sets of exhaust ports are out of register.

1,662,598. CLUTCH AND CLUTCH-ACTUATING MECHANISM. FRANK H. BIERMAN, Minneapolis, Minn. Filed Jan. 15, 1927. Serial No. 161,318. 3 Claims. (Cl. 192—68.)



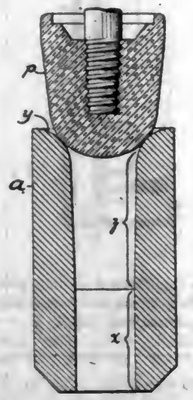
3. The combination with two revoluble members and a clutch for connecting the same, one of said members having an axially extended support, of a pair of bell-cranks pivoted to said extended support and operative on said clutch, a cam-acting member axially movable in said extended support and operative on said bell-cranks, a head swivelled on said extended support so that it will not rotate therewith, a lever pivoted to said head for movements in a plane approximately at right angles to the axis of said members, and a connection between said lever and cam-acting member including a cam device reacting against said head and operative to transform the pivotal movement of said lever into axial movement in said cam-acting member.

1,662,599. TIRE. LE ADAM BROWN, Alto, Mich., assignor to Corduroy Tire Company, Grand Rapids, Mich., a Corporation of Delaware. Filed May 14, 1924. Serial No. 718,243. 1 Claim. (Cl. 152—14.)



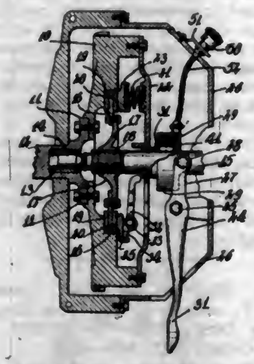
In a low pressure tire having a carcass of greater flexibility than the carcass of a high pressure tire for the same load and adapted to carry a predetermined load at an inflation pressure substantially reduced below that of a high pressure tire for the same load, said tire being substantially increased in cross sectional area and decreased in ratio of wall thickness to cross sectional area with respect to a high pressure tire for the same load, the combination of a relatively thick tread sub-divided by grooves proportioned with respect to the increased flexibility of the carcass and the thickness of the tread to be closed by the greater flexing of the carcass under normal loading to present a substantially solid tread surface to the road under normal load and without detrimental friction to the carcass.

1,662,600. NOZZLE FOR LADLES. JOHN L. COX, Philadelphia, and RADCLYFFE FURNESS, Jenkintown, Pa. Filed Dec. 21, 1923. Serial No. 681,937. 3 Claims. (Cl. 22—85.)



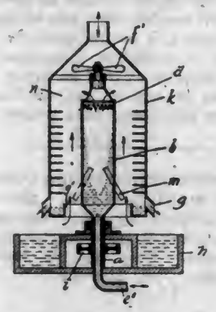
1. A nozzle for a ladle having a passageway which in its lower portion is of cylindrical shape and which above its lower portion is of frusto-conical form and of substantially greater length than diameter, the mouth of the nozzle above its frusto-conical portion being convexly rounded and adapted to be engaged by a plug.

1,662,601. CLUTCH BEARING FOR VEHICLES. PETER DEMCHUK, Brooklyn, N. Y. Filed Apr. 21, 1927. Serial No. 185,480. 4 Claims. (Cl. 308—236.)



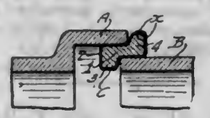
1. In a device of the class described, the combination with a clutch release bearing, of a clutch release collar holding the bearing, and formed with a circular groove, a split retaining ring engaged in the groove and adapted to hold the bearing in place, and adjustable means comprising cam levers supported by said collar and disposed in the split of said retaining ring adapted to spread the end portions thereof for securing the ring against displacement.

1,662,602. APPARATUS FOR COOLING WATER. KARL DÜNKELBERG, Gelsenkirchen, Germany. Filed Oct. 28, 1924, Serial No. 746,271, and in Germany Nov. 5, 1923. 14 Claims. (Cl. 261—83.)



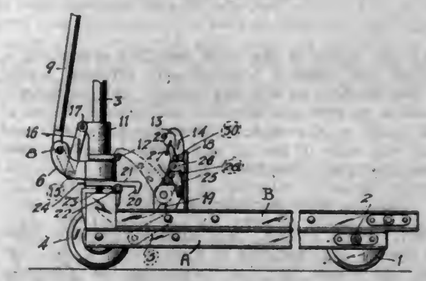
1. In an apparatus for cooling liquids, a rotary receptacle having at one end an inlet for the liquid to be cooled, said receptacle being open at its opposite end and adapted to eject the liquid laterally therefrom when rotated, means to produce a current of air through said rotary receptacle upon rotation, a casing surrounding the said receptacle, and means to produce a current of air through said casing transversely of the liquid ejected from the receptacle.

1,662,603. PIPE-JOINTING ELEMENT. WILLIAM C. FERGUSON, St. Louis, Mo. Filed Oct. 22, 1926. Serial No. 143,386. 7 Claims. (Cl. 154—45.5.)



1. A jointing element for bell and spigot pipe consisting of a fabric casing filled with a plastic substance of such consistency that the element can be rolled into a pipe bell and packed tightly between the bell and the co-operating spigot by longitudinal pressure exerted on the inner side of the element, and means for preventing said element from slipping relatively to the bell when it is being installed.

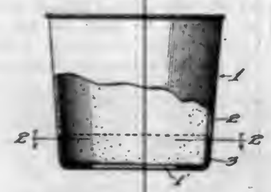
1,662,604. ELEVATING TRUCK. HENRY S. GERMOND, Jr., Bayonne, N. J. Filed May 5, 1926. Serial No. 106,858. 6 Claims. (Cl. 254—10.)



1. An elevating truck comprising a main frame mounted on wheels at its rear end, a steering swivel carrying wheels journaled in the front end of said frame, a rotat-

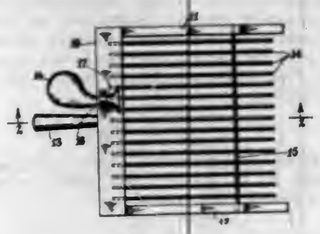
able member movable vertically in substantially the line of axis of said steering swivel and having a horizontal coaxial arcuate flange, an elevating platform mounted on said frame for vertical movement, means operatively connecting said flange of said member and said platform so that vertical movement of said member elevates said platform and said member may rotate independently of said connecting means, a handle pivotally mounted upon said swivel, and an operative connection between said handle and said member so that swinging of said handle in vertical planes in any of the steering positions of said handle raises and lowers said member.

1,662,605. REENFORCED FIBROUS CONTAINER AND METHOD OF MANUFACTURE. RICHARD E. HALL, Olean, N. Y., assignor, by mesne assignments, to The Arvey Manufacturing Co., Wilmington, Del., a Corporation of Delaware. Filed Apr. 8, 1925. Serial No. 21,463. 3 Claims. (Cl. 229—3.5.)



1. A seamless fibrous container formed of felted, interlocked fibres, having integral base and side walls, and reenforcing wire mesh imbedded in the base and side walls, said fibres passing through the spaces between the wire mesh and interlocking therewith and with each other on both sides of the wire mesh to provide a compacted unitary structure.

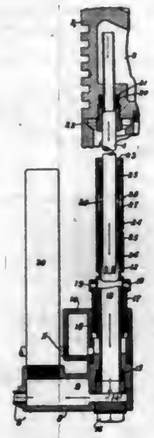
1,662,606. ASH SIFTER. JOHN F. HARGADON, South Boston, Mass. Filed Nov. 7, 1927. Serial No. 231,506. 2 Claims. (Cl. 209—419.)



1. An ash sifter of the class described comprising a transverse end member, longitudinally extended spaced apart side members on said end member, tapered forward end portion on said side members, and adjacent series of spaced apart rods extending forwardly from said end member, the rods of one of said series being in closer together than the rods of the other series.

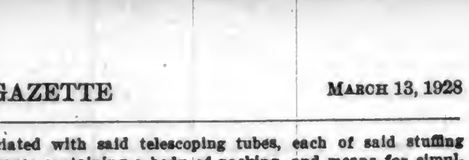
1,662,607. PIPE JOINT. REINHARD HILDEBRAND, Webster Groves, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 27, 1922. Serial No. 603,617. 1 Claim. (Cl. 285—162.)

A packing device for an extensible conduit composed of telescoping tubes, comprising stuffing boxes associated with said telescoping tubes, each of said stuffing boxes containing a body of packing, and means for simultaneously tightening the packing in the respective stuffing



boxes, said means including a double gland extending into both of said stuffing boxes and provided with a drainage outlet between said stuffing boxes.

1,662,608. WORKBENCH. JABE HILL, Phoenix, Ariz. Filed Mar. 21, 1927. Serial No. 177,149. 1 Claim. (Cl. 144—1.)



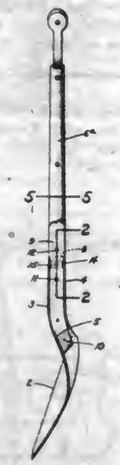
A machine of the character described, comprising a lower deck and an upper deck, a portion of the upper deck being hinged transversely of the machine to adapt it to tilt in the direction of the length of the machine, and a circular saw supported from the lower deck and projecting through the tilting portion of the upper deck through an opening which extends longitudinally of the machine, a pair of guide-ways carried by the tilting portion of the machine, one upon each side of the saw, a miter box mounted to slide upon said guideways, lying partly upon one side of the saw and partly upon the other side of the saw, a goose-neck connecting said portions of the miter box, and means thrusting between the lower deck and the tilting top for adjusting the same to varying heights.

1,662,609. ELASTIC WEBBING. JOSEPH HIRSCH, Yonkers, N. Y., assignor to Kops Bros. Inc., a Corporation of New York. Filed Feb. 1, 1927. Serial No. 165,058. 5 Claims. (Cl. 139—421.)



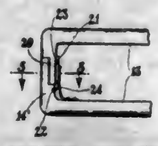
1. An elastic strand comprising a core, and a cover thread having knots therein at relatively close intervals.

1,662,610. TOOL HANDLE. MARTIN HOKANSON, Duluth, Minn., assignor to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey. Filed May 5, 1924. Serial No. 711,115. 10 Claims. (Cl. 294—57.)



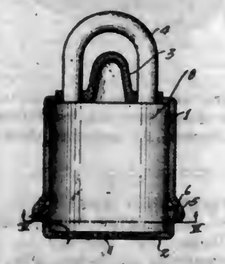
1. A hollow back shovel comprising a blade having an extension at one end, folded to form a tubular handle socket with abutting edges of the socket wall longitudinally disposed and arranged at the rear of the blade, a handle having an end fitting in the socket, a reinforcing blade within said handle arranged opposite the opening and a sleeve upon the handle adapted to prevent separation of the edges of the socket wall and deformation of the socket wall during use.

1,662,611. STAIR-RISER PROTECTOR. ELIAS HYMAN, Brooklyn, N. Y. Filed May 4, 1927. Serial No. 188,850. 3 Claims. (Cl. 20—79.)



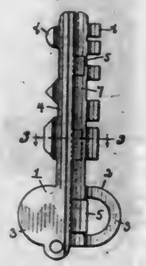
1. A stair riser protector, comprising a frame having substantially vertical and horizontal sides, the frame being adapted to support protector material and the said vertical sides being adjustable in height.

1,662,612. CUSHIONING CASING FOR LOCKS. JOHN JUNKUNC, Chicago, Ill. Filed Dec. 17, 1924. Serial No. 756,431. 3 Claims. (Cl. 150—52.)



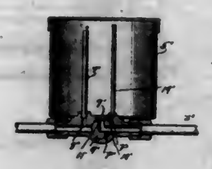
1. A cover for a padlock comprising a cushioning casing, through which the shackle of the lock protrudes, an extension on the casing adjacent the lock, a removable lower portion and a means for securing said portion on the lock.

1,662,613. SECTIONAL KEY. ROGER C. LAYNOR, Elkridge, Md. Filed Apr. 18, 1927. Serial No. 184,582. 4 Claims. (Cl. 70—9.)



1. A key comprising sections having spine portions, one of the sections having outstanding lugs adapted to receive the spine portion of the other section between them, said sections adapted to move longitudinally with relation to each other to engage the spine portions and the spine portions being provided with outstanding blades.

1,662,614. FUEL SYSTEM. CAESAR A. MANDOLINI, New York, N. Y., assignor to Remington Automotive Corporation, New York, N. Y., a Corporation of New York. Filed May 18, 1923. Serial No. 639,770. 10 Claims. (Cl. 158—46.5.)



1. An auxiliary tank adapted for use in a fuel system provided with a discharge port and an inlet port, a discharge tube at said discharge port extending vertically in said auxiliary tank, an air vent tube in said auxiliary tank extending above the level of said discharge tube and means for closing the inlet port and establishing communication between said air vent tube and the atmosphere when fuel is to be discharge from the auxiliary tank through said discharge tube.

1,662,615. HEATER OR COOLER. DANIEL RAYMOND MCNEAL, Palmyra, N. J., assignor to Andale Engineering Company, a Corporation of Pennsylvania. Filed Nov. 22, 1923, Serial No. 676,296. Renewed Aug. 12, 1927. 2 Claims. (Cl. 257—222.)

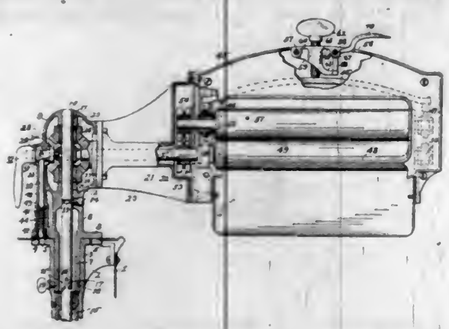
1. A heater or cooler comprising in combination, a casing having an open end, a plurality of tubes, a tube sheet for the tubes seated in the open end of the casing, a duct on the casing wall having an opening adjacent to and facing in the same direction as said open casing end, a detachable cover, a U-shaped conduit in

the cover establishing communication between the duct opening and the tubes, packing between the tube sheet



and said cover, at one end of said cover conduit, packing around the duct opening at the other end of said cover conduit, and a vent between said packings.

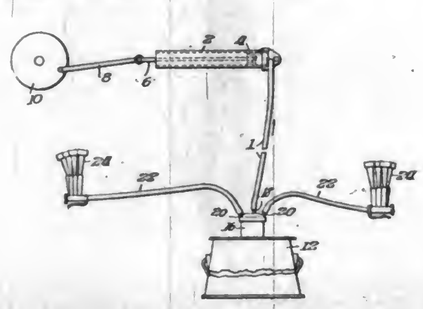
1,662,616. WRINGER MECHANISM. HARRY W. MITCHELL, Cleveland, Ohio, assignor to G. F. Mitchell & Son, a Partnership of George F. Mitchell, George R. Mitchell, and Harry W. Mitchell, Cleveland, Ohio. Filed Apr. 2, 1923. Serial No. 629,276. 5 Claims. (Cl. 68—32.)



1. In a wringer mechanism, the combination with a support having a cylindrical vertically disposed socket, of a wringer supporting standard rotatably supported in said socket, and a vertically disposed drive shaft having a section carried by the fixed support and a section carried by the standard, said shaft sections having one a substantially flat tongue and the other a groove in the end thereof in which the tongue is adapted to fit whereby said standard together with the shaft section carried thereby can be bodily removed from the socket, said groove having a flared outer portion to facilitate the insertion of the tongue therein.

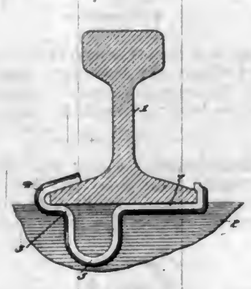
5. In a wringer mechanism, a support, a supporting standard rotatably mounted on said support, a wringer carried by said standard, means including a movable locking element for releasably locking said standard against turning movement on said support, wringer driving means having a movable controlling member by which the wringer may be started and stopped, and a manually operable lever having means for moving said controlling member to start and stop the wringer, said lever having a part engageable with the locking element for actuating the same to lock the standard to the support simultaneously with the starting of the wringer and a part engageable with the locking element after the standard is locked to hold said locking element in locking position while the lever is actuated to move said controlling member to start or stop the wringer.

1,662,617. VALVE FOR MILKING MACHINES. DAVID W. MYERS, Winnetka, and RALPH L. SHERMAN, Oak Park, Ill. Filed Jan. 5, 1925. Serial No. 481. 2 Claims. (Cl. 251—114.)



1. A valve chamber having a floor concave on the under side, the floor having a port for the downward passage of fluid, a shouldered pin at the center of the floor on the under side, and a rubber valve disc having an aperture at the center slightly less than the diameter of the shoulder on the pin whereby the disc may be secured to the pin in contact with the under surface of the floor by stretching the aperture in the disc sufficiently to enable it to pass over the shoulder.

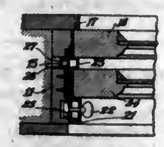
1,662,618. RAILWAY-RAIL ANCHOR. HARRY G. NORWOOD, Baltimore, Md., assignor to Continental Railway Supply Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 29, 1927. Serial No. 222,764. 6 Claims. (Cl. 238—330.)



1. A single piece rail anchor comprising a bar of spring steel corrugated throughout its length and having an off-set clamping member at each end thereof.

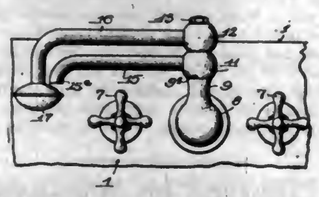
1,662,619. WINDOW-SASH MOUNTING. HUBERT PALLADA, New York, N. Y. Filed Feb. 7, 1927. Serial No. 166,326. 1 Claim. (Cl. 20—12.)

A window comprising a frame, side rails in said frame, double-hung sashes slidable in said frame, each side rail having a longitudinal groove therein, a parting strip in each groove and adapted to separate the sashes, and inner stop beads pivoted at their lower ends to the side rails, the parting strips being adapted to be



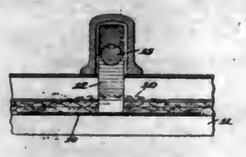
retracted into the grooves when the stop beads are moved outwardly on their pivots to permit removal of the sashes without disconnecting the sash cords.

1,662,620. SWING-SPOUT FAUCET. ERICH J. PATELSKI, Chicago, Ill. Filed Mar. 5, 1927, Serial No. 172,978. Renewed Feb. 2, 1928. 14 Claims. (Cl. 277—59.)



3. In a faucet of the character described, the combination of a base portion adapted for connection with a source of water supply and provided with a tubular extension closed at its free end, a plurality of spouts pivotally mounted on said extension to swing independently of each other, said extension having ports adapted to register with said spouts in one position of swinging movement thereof.

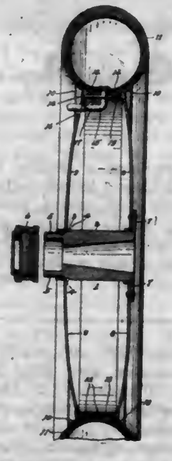
1,662,621. TEMPERATURE-INDICATING DEVICE FOR WAFFLE IRONS. LUDWIG REICHOLD, Winsted, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Nov. 3, 1927. Serial No. 230,784. 1 Claim. (Cl. 116—114.)



A temperature indicating device for waffle irons comprising a housing having an opening therein, a movable signal member located within the housing and adapted to move so as to be viewed through the opening, a normally straight thermostatic element resting on the upper face of the heating element of the upper member of the waffle iron, a standard secured to said thermostatic element intermediate its ends and extending up into said housing and carrying said signal member, said thermostatic element and said standard being so proportioned that the signaling member will assume a predetermined position relative to the opening when the heating element is at proper temperature for cooking a waffle.

1,662,622. DISK WHEEL. HERBERT WALTERS and ROMAN A. HOERMAN, Detroit, Mich. Filed May 16, 1927. Serial No. 191,902. 3 Claims. (Cl. 301—63.)

1. A wheel including a hub, a disk movable longitudinally of the hub and having an annular groove adjacent its periphery, a disk fixed on the hub and spaced from the movable disk, a laterally extending integral annular flange on the fixed disk adjacent its periphery to detachably engage at its free edge within said annular groove in the movable disk and peripherally space the



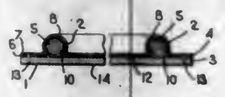
disks apart, said flange and peripheral portion of said disks forming a channel rim to receive a tire, and means on the hub for moving the movable disk toward the fixed disk and securing the same to the hub.

1,662,623. SAFETY WINDOW. ADOLF WEISS, East Pittsburgh, Pa. Filed Mar. 22, 1927. Serial No. 177,428. 2 Claims. (Cl. 20—48.)



1. A window comprising upper and lower slidably mounted window frames, inner frames concentrically mounted within said upper and lower slidably mounted frames, pins rigidly mounted on the end members of said inner frames and journaled on the end members of said slidably mounted frames for pivotally attaching said inner frames to said slidably mounted frames, a plate mounted on the end of the lower pin of said upper inner frame having a slot therein, and an arm mounted on the upper pin of said lower inner frame adapted to engage said plate, said arm and said plate being adapted to rotate in unison with the respective pins to which they are attached, said arm being positioned to register with the slot of said plate when both the inner frames are in closed position to permit raising and lowering of said slidably mounted frames and adapted to engage said plate when either of said inner frames is rotated to open position for preventing raising or lowering of said slidably mounted frames.

1,662,624. INSOLE. LORING Q. WHITE, Palm Beach, Fla., assignor to L. Q. White Shoe Company, Bridgewater, Mass., a Corporation of Massachusetts. Filed Apr. 12, 1927. Serial No. 183,166. 4 Claims. (Cl. 36—22.)



1. An insole comprising a leather layer, a layer of fabric having a fold formed therein adjacent the marginal edge, a cord in said fold, means securing the cord in the fold, and other means independent of the cord for uniting the fabric layer and the leather layer, said cord and fold forming an inseam-receiving rib, said cord being retained in place only by the fold and said first-named means.

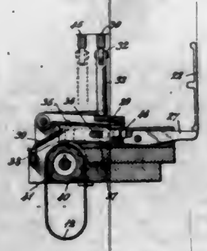
1,662,625. COMPOSITION OF MATTER. LIEBESKIND WILLIAMS, Philadelphia, Pa. Filed May 7, 1927. Serial No. 189,746. 6 Claims. (Cl. 134—58.)

1. The method of preparing white pigment, consisting in mixing and grinding 60 grams of zinc oxide, 2 grams of sulphur, 1½ grams of sodium carbonate, 1 gram of sodium chloride and ½ gram of ultramarine blue, heating the same in a closed, chemically inactive retort until all of the free sulphur has disappeared, stirring said mixture while it is being heated, cooling the product and grinding the same.

1,662,626. PROCESS FOR THE MANUFACTURE OF DIPHENYLGUANIDINE. HAROLD S. ADAMS and LUDWIG MEUSER, Naugatuck, Conn., assignors to The Naugatuck Chemical Company, a Corporation of Connecticut. Filed June 19, 1922. Serial No. 569,427. 7 Claims. (Cl. 260—125.)

1. A process of the kind described which comprises treating a suspension of a water in soluble symmetrical disubstituted thiourea in water containing ammonia with a compound of a metal capable of removing sulphur from the thiouren, and recovering a disubstituted guanidine.

1,662,627. KNITTING MACHINE. ALFRED A. ADLER, New York, N. Y., and HARRY ALBERTMAN, Philadelphia, Pa., assignors to Jacquard Knitting Machine Co., Inc., Union Hill, N. J., a Corporation of New York. Filed Sept. 9, 1920. Serial No. 409,201. 72 Claims. (Cl. 66—50.)



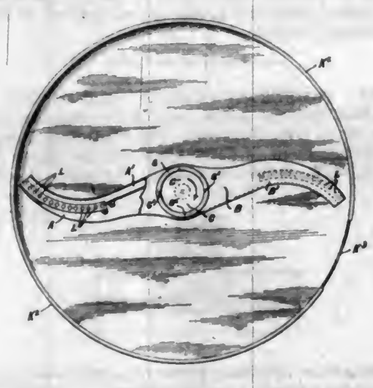
1. The combination in a knitting machine, of a circular bank of stitch-forming elements, a pattern-controlling element, a plurality of feelers to co-act therewith, couplings extending from said feelers to control the action of said stitch-forming elements, and other means to actuate said couplings in accordance with the call of the pattern-controlling element on the feelers, said means being so timed with respect to the formation of stitches that said means can actuate each coupling intermediate the completing of loops by the respectively corresponding stitch-forming element and while other stitch-forming elements are completing loops.

1,662,628. BRACELET END HOOK. KARL AUGENSTEIN, Cranston, R. I., assignor to Automatic Gold Chain Company, Providence, R. I., a Firm comprising Edwin F. M. Speidel and Albert R. Speidel. Filed Aug. 23, 1927. Serial No. 214,883. 3 Claims. (Cl. 24—236.)



1. A bracelet end hook comprising a body, a sheet metal shank with an opening therein extending from the body, said shank being formed into an open hook at its end, a sheet metal tongue for engaging the inner surface of said hook and closing the opening thereto by the inherent tension of its stock, a latch part on said tongue for extending through the opening in said shank and a detent on said latch part to snap over the edge of said opening and hold said tongue in open position.

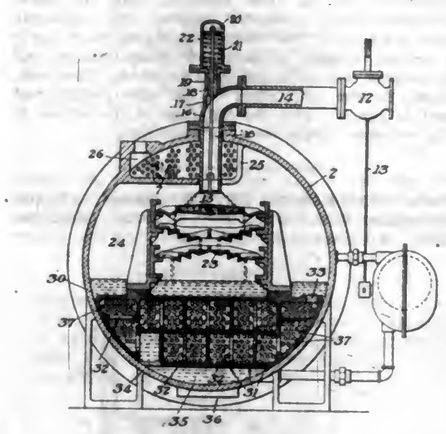
1,662,629. APPARATUS FOR DISCHARGING PROJECTILES BY CENTRIFUGAL FORCE. BADEN FLETCHER SMYTH BADEN-POWELL, Sevenoaks, England. Filed June 6, 1927, Serial No. 196,768, and in Great Britain June 18, 1926. 7 Claims. (Cl. 89—10.)



1. Apparatus for discharging projectiles by centrifugal force comprising a central chamber, a rotatable shaft to carry said chamber, means for rotating said shaft, barrels carried by and radiating from said chamber, a trigger-operated stop to co-act with a ring forming part of the barrel casing, said ring having cut-away portions on its inner periphery to allow said trigger-operated stop to be moved and projectiles supplied to said central chamber to be discharged therefrom through said barrels by centrifugal force.

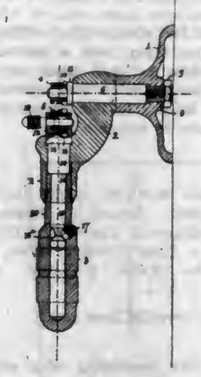
1,662,630. LIQUID-TREATING APPARATUS. HUGO BERQUIST, Swissvale, Pa., assignor to William S. Elliott, Pittsburgh, Pa. Filed Mar. 29, 1922, Serial No. 547,868. Renewed Dec. 29, 1926. 6 Claims. (Cl. 183—25.)

1. In a liquid treating apparatus, a container having an evaporating chamber therein, means for spraying liquid into said chamber to permit the release of air and gases from the liquid, means within said chamber for reducing the temperature of the liquid after the escape of the air and gases therefrom, and means within said



chamber for condensing the condensable portion of the air and gases released from the liquid, said two last mentioned means being connected in series.

1,662,631. APPARATUS FOR THE ENLARGING OF RINGS. FÉLIX BLOIS, Paris, France. Filed July 21, 1925, Serial No. 44,972, and in France Aug. 14, 1924. 1 Claim. (Cl. 80—5.)



In an apparatus for enlarging rings, a base, an axle, a ring supporting roller fixed on said axle, a handle rotatably secured on said axle, a roller support longitudinally movable in said handle, a spindle in said roller support, a grooved roller rotatably mounted on said spindle, intermeshing pinions associated with said ring supporting roller and said grooved roller to cause rotation of said grooved roller on movement of said handle about said axis, and means comprising rotation of the handle about its axis to move said support for adjustably positioning said grooved roller in relation to said ring supporting roller.

1,662,632. PHOTOGRAPHIC TRANSFER. EDWARD BLUM, Jr., and WILLIAM BLUM, Chicago, Ill. Filed Feb. 14, 1924. Serial No. 692,885. 1 Claim. (Cl. 41—22.)



That improvement in making photographic transfers which consists in first dipping a strip of undeveloped printed carbon tissue in cold water, then pressing the film side of the wetted strip against one face of a rigid transparent plate, then drying the strip, then developing the film while the strip is on the plate and removing the backing of the strip during development, then drying the developed film, then applying a bronze coating to the back side of the developed film which will appear through the plate and the light spots of the film to form a background, and then applying a protective covering to the bronze coating.

1,662,633. CONCENTRATION OF BARITE. WALTER O. BORCHERDT, Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1924. Serial No. 734,545. 16 Claims. (Cl. 209—166.)

1. The method of concentrating barite-bearing material by froth-flotation which comprises subjecting the barite-bearing material to froth-flotation in the presence of a barite-selective flotation agent containing soap and thereby effecting a substantial recovery of the barite in the resulting concentrate.

1,662,634. CONCENTRATION OF BARITE. WALTER O. BORCHERDT, Mountain Lakes, N. J., assignor to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 19, 1927. Serial No. 227,363. 9 Claims. (Cl. 209—166.)

1. The method of concentrating barite-bearing material which comprises subjecting the barite-bearing material in the form of a pulp to a froth flotation operation in the presence of cotton seed oil pitch.

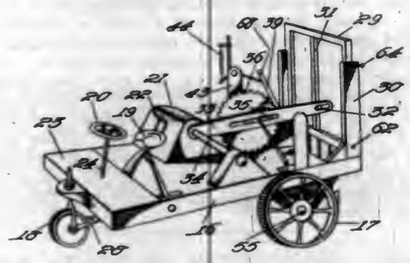
1,662,635. AUTOMATIC BRAKE. PAUL BURKE and ARTHUR ORLOFF, Green Bay, Wis., assignors to Northwest Engineering Corporation, Green Bay, Wis., a Corporation of Wisconsin. Filed Sept. 15, 1926. Serial No. 135,627. 5 Claims. (Cl. 188—82.)



1. In an automatic brake, the combination with a brake drum and a brake band therefor, of a pair of members movable relative to each other and having the brake band associated therewith whereby the band is automatically applied by the movement of one of said mem-

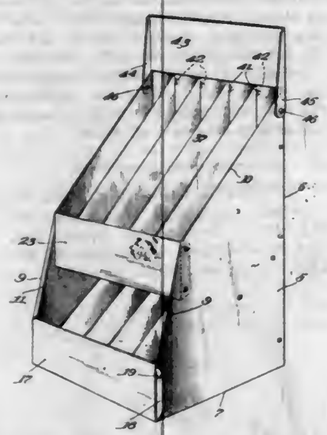
bers and independently released by the movement of the other member, and means for moving both members together to effect a complete automatic release of said brake band.

1,662,636. PLOW. PIETRO CANDREVA, Chicago, Ill. Filed Sept. 22, 1926. Serial No. 136,937. 4 Claims. (Cl. 97—36.)



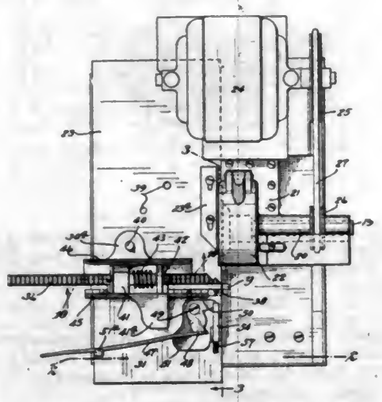
1. In a soil treating tool means for supporting a plurality of plowshares for combined vertical and reciprocating movement said means comprising a vertically movable frame, and means for imparting a vertical reciprocating motion to said frame said means comprising a beam, a slot in the beam, a driven gear wheel and a pin on the gear wheel operating in said slot.

1,662,637. CANDY MENU STAND. CHARLES CHILTON CHASE, St. Joseph, Mo. Filed Mar. 5, 1927. Serial No. 173,041. 9 Claims. (Cl. 211—126.)



9. In a menu stand of the class described, side walls having vertical rear edges, vertical portions at their front edges near the bottom, said edges being then directed upwardly and rearwardly at an inclination for a distance and then at an obtuse angle rearwardly to the top edge of the edges of the sides at the back, a brace member between said sides at the bottom of their rear edges, upper and lower brace members between said sides at the lower vertical portion and at the juncture of the inclined portions to set the upper brace member rearwardly from the lower inclined portions at the bottom, said braces having turned edges and slots in the top edges thereof with a flange at the bottom, bottom portions spaced apart between the sides and having their forward ends engaging the braces at the front and having the sides anchored to the sides of the stand and their rear edges directed upwardly and secured to said sides, the upper bottom portion extending downwardly at converging relation to the lower bottom portion providing upper and lower supports spaced apart, partitions on said walls and having their forward ends fitting the slots of the front braces and having tongues connected to said bottom walls and upwardly directed portions, to provide compartments running from front to rear, the lower compartment being accessible between the upwardly directed portions at the rear, and having their lower ends exposed in front of the upper compartments, and a sign member secured to the sides above the upper compartments at the rear edges of the side portion and adapted to contact with the top edge at its bottom to prevent rearward displacement of said sign.

1,662,638. SLUG-SAWING DEVICE. GEORGE L. CURLE, Minneapolis, Minn. Filed Dec. 5, 1925. Serial No. 73,381. 4 Claims. (Cl. 29—69.)



1. In a sawing device, the combination with a base support, of a vise and a saw mounted on said base support, means for moving one of said mounted elements toward and from the other to produce a sawing action, said vise having clamping jaws, one of the vise members being mounted for straight-line sliding movement toward and from the other, and a self-releasing jaw-closing device including a hand piece movable in the plane of the vise-closing action and operative to close the vise only while subject to hand pressure, said lever having a shiftable base of reaction.

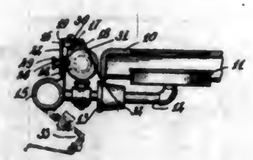
1,662,639. ENDLESS SCREEN BELT AND METHOD OF MAKING SAME. ROGER W. DISBRO, Cleveland Heights, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 20, 1925. Serial No. 31,658. 7 Claims. (Cl. 24—33.)



1. A woven wire belt consisting of a strip of woven wire screen cloth provided with rebent end portions, such end portions being fastened to said screen and being cut away to provide alternated interlocking hinges, and being provided with fastening means adjacent each such cut-out portion, and a removable fastening member pivotally securing said hinges together.

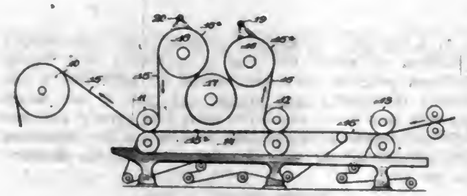
1,662,640. SAFETY JET GUARD FOR GAS RANGES. LOUIS GARRETSON, New York, N. Y. Filed Feb. 16, 1927. Serial No. 168,605. 3 Claims. (Cl. 126—42.)

1. The combination with a gas range having a top member, and a main gas pipe with valves, of a main guard provided with openings, extension members slidably arranged on the main guard, and also provided with openings, the said openings being in the vicinity of the valves, doors slidably arranged on the main guard and



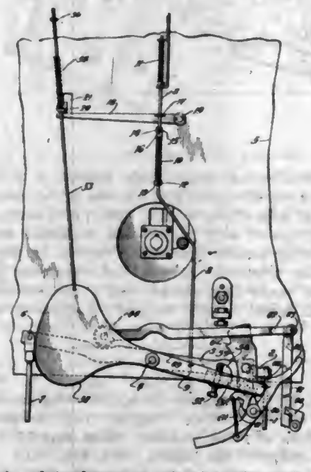
extensions, forming a closure for the openings, means for movably supporting the extension members to the main gas pipe, and a hook shaped clip secured on the main guard and engageable with the said top member.

1,662,641. PROCESS FOR SIZING PAPER. THOMAS HANS, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1927. Serial No. 169,857. 9 Claims. (Cl. 92—40.)



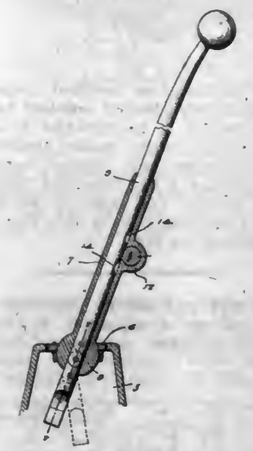
1. In the manufacture of paper in a continuous web, the process of sizing which includes the spraying of a sizing solution upon a surface of the advancing sheet at a point preliminary to its passage to the drying rolls.

1,662,642. COIN-SLOT CLOSURE FOR SCALES. GUSTAV F. HOCHRIEM, Chicago, Ill., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed June 26, 1926. Serial No. 118,672. 5 Claims. (Cl. 194—95.)



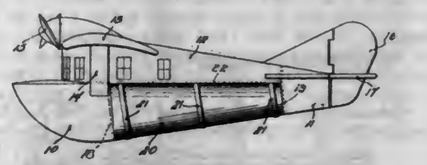
1. A coin slot closure mechanism for coin-controlled ticket printing scales comprising in combination a lever actuable by a weight being placed on the scale platform, an upright rod connected to said lever, a pivotally mounted arm having cooperative engagement with said upright rod, a second arm extending at substantially right angles to said first mentioned arm and cooperatively associated therewith, a movably mounted coin slot shutter engaged by said second arm and functioned by the movement of the latter to open or close the coin slot opening.

1,662,643. GEAR-SHIFTING-LEVER LOCK. JOHN LESTER HOSFORD, Boonville, Mo. Filed Dec. 17, 1926. Serial No. 155,450. 4 Claims. (Cl. 70—128.)



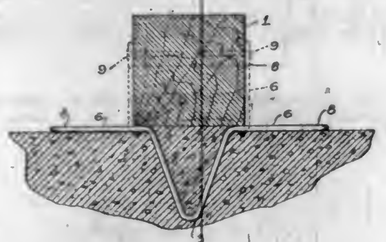
1. In a transmission shifting lever lock, an elongated sleeve universally mounted at one end in the transmission case, a shifting lever slidable in the sleeve, an extension pivoted to the inner end of the lever and adapted for engagement with the shifting mechanism of the transmission, said extension being rigidly connected to the lever when the same is moved partially within the sleeve so as to facilitate the shifting of the gears, said extension being free to swing with respect to the lever when the same is moved entirely out of the sleeve, for preventing the shifting of the gears and means whereby the lever may be rigidly locked in either position.

1,662,644. HYDROAIRPLANE. MILTON M. KARGER, Milwaukee, Wis. Filed June 27, 1927. Serial No. 201,726. 1 Claim. (Cl. 244—2.)



In a hydro-airplane the combination of a hull having longitudinally spaced prow and stern portions, partitions closing said prow and stern portions, a cabin above said prow and stern portions connecting the same, and a plurality of substantially circular tanks extending lengthwise beneath said cabin and between said prow and stern portions, said tanks being disposed at opposite sides of the longitudinal axis of said hull.

1,662,645. ANCHOR FOR FLOOR SLEEPERS. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 8, 1927. Serial No. 182,032. 7 Claims. (Cl. 72—101.)



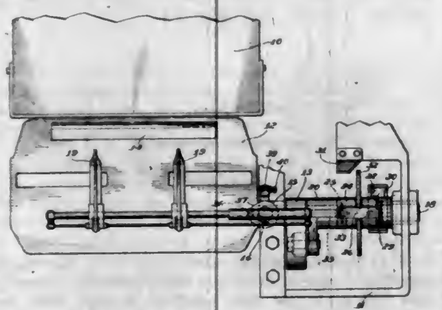
1. A device of the class described comprising a plurality of substantially identical members having anchoring portions adapted to be embedded in a support, a pair of substantially parallel spacing elements rigidly secured to said members, said members having seat portions for supporting a bar extending longitudinally of said spacing element, and fastening portions arranged on respectively opposite sides of said seat portions and adapted to embrace the bar.

1,662,646. STRAP FOR BELTS AND THE LIKE. MORRIS H. SKALETSKY, Brooklyn, N. Y. Filed Jan. 23, 1925. Serial No. 4,232. 3 Claims. (Cl. 154—48.)



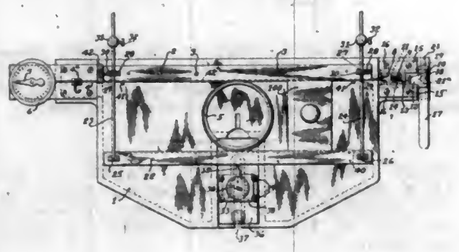
1. A strap of the class characterized, comprising a unitary flat tubular seamless strip of normally stretchable fabric material, and a nonstretchable flat flexible strip within the tubular strip, said inner strip having its faces adhesively secured to the inner faces of the side walls of the tubular strip.

1,662,647. SHEET-DELIVERY DEVICE. WALTER H. SMITH, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 15, 1926. Serial No. 116,138. 3 Claims. (Cl. 101—287.)



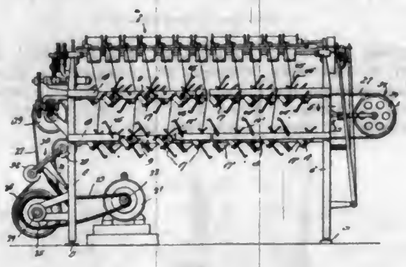
1. In a sheet delivery device, a delivery table, means for mounting said delivery table to permit it to be swung into and out of operative position, a sheet-delivering member, mechanism for actuating said member, releasable connection means between said member and said mechanism, and an interlocking device for preventing swinging of said table except when said connection means is released.

1,662,648. GAUGING MACHINE AND PROCESS FOR GAUGING PACKING RINGS. ROBERT B. WASSON, Cranford, N. J. Filed Aug. 13, 1921. Serial No. 492,018. 23 Claims. (Cl. 265—18.)



1. A machine for gauging packing rings comprising a platform on which the ring is supported, and travels between gauging operations, means for imparting a uniformly distributed load around the ring, a bar, means whereby said bar is enabled to move into parallel positions and to contact with the ring, and means for indicating the position of the bar, thereby indicating the diameter of the ring.

1,662,649. THREAD SPINNING AND TWISTING MACHINE. FRED C. WEBBER, Wilkes-Barre, Pa. Filed Dec. 18, 1926. Serial No. 154,577. 9 Claims. (Cl. 117—26.)

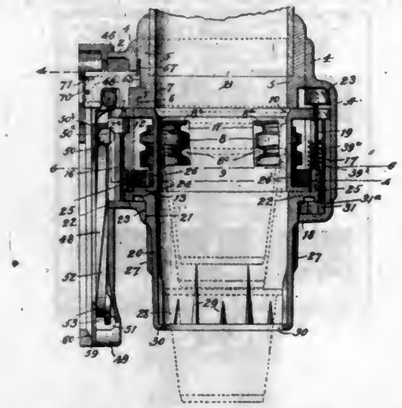


1. In combination, supporting means, a plurality of spaced, transversely arranged, horizontal belt pulleys carried by said supporting means, flyer units carried by the ends of certain of said pulleys and alongside one side of the supporting means, flyer units carried by the opposite ends of the alternate pulleys and alongside the other side of the supporting means, and a belt stretch or run movable at right angles to and contacting with said pulleys.

1,662,650. CUP DISPENSER. EDWIN G. WESSMAN, Boonton, N. J., assignor, by mesne assignments, to Individual Drinking Cup Company Inc., Easton, Pa., a Corporation of Pennsylvania. Filed July 20, 1921. Serial No. 486,071. 36 Claims. (Cl. 315—44.)

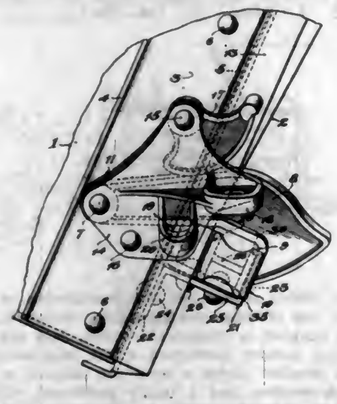
1. In an apparatus of the class described, a cup container, escapement mechanism for delivering cups singly from the container, and a tubular part at the lower end

of the container adapted to receive and hold the cups as they are delivered from the container in position for withdrawal with a lower portion of the cup projecting



outside of the same, said tubular part being axially rotatable and adapted to be turned by hand to operate the escapement mechanism.

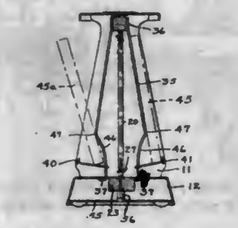
1,662,651. CAR-DOOR-MECHANISM. WILLIAM E. WINE, Toledo, Ohio. Filed July 27, 1927. Serial No. 208,809. 15 Claims. (Cl. 105—308.)



1. In a car door mechanism, the combination with a car having a hopper provided with a lading discharge opening, of a door for closing said opening, a reinforcing member extending along the side sheet of the hopper adjacent the discharge opening thereof, said member having a plurality of laterally spaced flanges substantially normal to the side sheet, and means for retaining the door in closed position involving a movable member and a fixed member, the movable member being secured to the hopper intermediate the spaced flanges of the reinforcing member.

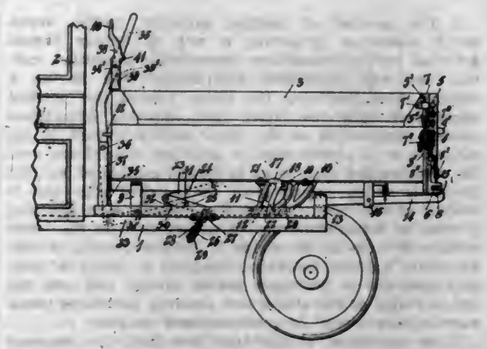
1,662,652. ELECTRIC TOASTER. ERNEST B. ZIMMER, Cleveland, Ohio, assignor to Liberty Gauge & Instrument Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 24, 1925. Serial No. 17,911. 4 Claims. (Cl. 53—5.)

1. In a device of the character described, the combination with a frame having a base, upright end members and a top, a heating element extending from the top to the base and substantially from one end member to the other, a bread rack extending from the top to the base and having an offset near the base, a bread rest extending outwardly from the rack above the base,



the offset being sufficiently recessed toward the element that bread supported on the rest may be tipped outwardly when the bottom inner edge of the bread is forced inwardly until it engages the offset portion of said rack.

1,662,653. DUMPING DEVICE. CHARLES F. YOUNG and EDMOND M. RIES, Covington, Ky., assignors to The Stewart Iron Works Company, Covington, Ky., a Corporation of Kentucky. Filed Apr. 2, 1924. Serial No. 703,742. 2 Claims. (Cl. 298—10.)

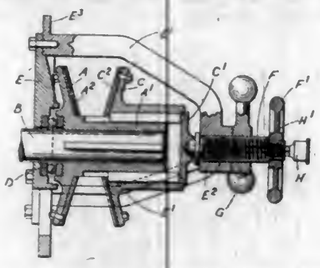


1. In a device of the character described, a support, a bed having a rocker on said support, said rocker having one end projected away from said bed, a compound-curved guide on said support, engaged by said end, and mutually engaging means on said rocker and said guide, respectively, engaging and disengaging during travel of said end in one of the curved parts of said guide, to lock said bed to or unlock said bed from said support.

1,662,654. EXPANDING PULLEY. GEOFFREY JOSEPH ABBOTT, London, England. Filed Oct. 9, 1926. Serial No. 140,636. 2 Claims. (Cl. 64—8.)

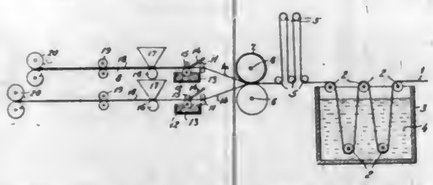
1. In an expanding pulley of the kind in which the oppositely inclined flange faces have alternate ribs and depressions, the combination of a flange adapted to be secured to a rotatable shaft, a second flange axially movable relatively to the first flange, means for adjust-

ing the relative positions of the two flanges, and means for supporting said adjusting means solely from the pulley shaft comprising a free member journaled on said



shaft, a framework rigidly connected thereto, and a boss therein coaxial with the shaft but axially spaced therefrom.

1,662,655. PROCESS AND APPARATUS FOR MANUFACTURING PREPARED ROOFING STRIPS. HERBERT ABRAHAM, New York, N. Y., assignor to The Ruberoid Co., New York, N. Y., a Corporation of New Jersey. Filed July 3, 1926. Serial No. 120,316. 5 Claims. (Cl. 91—68.)

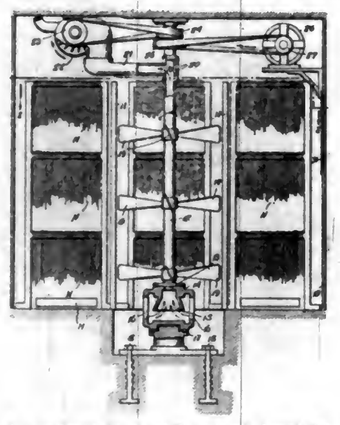


1. The process of making prepared roofing strips which comprises saturating a web of flexible fibrous material with a bituminous saturating composition, cutting the web lengthwise into strips each having a notched edge, inclining the strips toward the notched edges and with the latter free, applying bituminous coating composition on the upper surface of each of the strips so as to permit same to gravitate toward and over the free notched edge so as to form a coating of varying thickness which extends over the notched edge and is thicker at said edge than at the opposite edge, applying a layer of bituminous coating composition on the lower surface of each of the strips to form a coating of substantially uniform thickness, applying a facing of mineral particles on the upper coated surface and over the notched edge of the strips, and severing the strips transversely into pieces of predetermined lengths.

4. In apparatus of the type described, the combination of means for cutting a web of flexible material into strips each having a notched edge, a pair of rolls each of uniform diameter throughout arranged with their axes disposed in inclined relation and disposed to receive the strips therebetween and with the notched edges of the strips free and in a lower plane than the opposite edge, and means to deposit a weatherproof composition on the upper surfaces of the strips so that the composition extends over the free notched edges and is shaped by the rolls to form a coating on the said upper surface which is of gradually increasing thickness toward the notched edges.

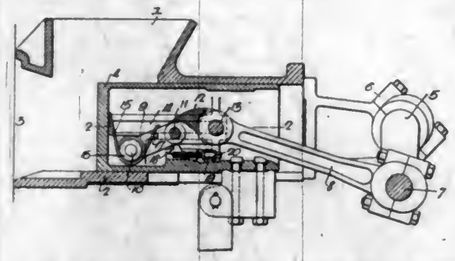
1,662,656. METHOD OF DRYING MACARONI, SPAGHETTI, AND LIKE DOUGH PRODUCTS. MAX ABRAMCHIK, Coney Island, N. Y. Filed Dec. 1, 1925. Serial No. 72,443. 4 Claims. (Cl. 34—19.)

1. A method of drying spaghetti, macaroni and the like dough products which consists in arranging said dough products in a substantially enclosed drying chamber in a lateral zone around a central zone which is free from said products, and forcing an air current downwardly through said central zone, while causing the downwardly directed air current to move away from



said dough products in a path spaced from the zone in which said dough products are located, the moisture in said lateral zone being free to diffuse towards and into said central zone.

1,662,657. SAFETY DEVICE FOR STOKERS. MAXWELL ALPERN, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1922. Serial No. 604,493. 4 Claims. (Cl. 198—226.)

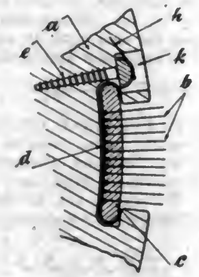


1. In a stoker mechanism, the combination of a fuel hopper, a ram chamber communicating therewith, a hollow ram adapted to reciprocate within said ram chamber, a track member positioned within said hollow ram, a driving member having a pivot pin adapted to engage said track member, and a toggle positioned within the hollow ram adapted under normal operating conditions to prevent movement of the driving member relative to the ram and to transmit the movement of the driving member to the ram and to yield under predetermined pressure conditions to permit the driving member to move relative to the ram to automatically reduce the length of the stroke of the ram when the ram contacts with an obstruction in the ram chamber.

1,662,658. ROLLER FOR CLEANING AND STRIPPING THE CYLINDERS OF CARDING MACHINES OR LOOSENING FIBER THEREFROM. JAMES BANCROFT, Accrington, England, assignor to H. & B. American Machine Company, Pawtucket, R. I. Filed May 14, 1927, Serial No. 191,500, and in Great Britain Aug. 24, 1926. 1 Claim. (Cl. 19—108.)

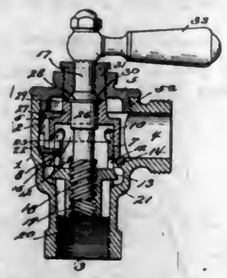
For cleaning and stripping the carding of carding machine cylinders or loosening fiber therefrom, an eliminating roller of the kind having spaced-apart operating

areas composed of headed pins passed through a backing adjacent to a foundation within slots in the roller-rim parts and having holding-down screws for attaching the backing and foundation to said rim parts, a foundation aforesaid of metal with turned-over edges gripping



the sides of the backing named, and spring-retained holding-down screws beyond the edges referred to, the heads of said screws in contact with said turned-over edges of the foundation for holding the same in position, substantially as herein set forth.

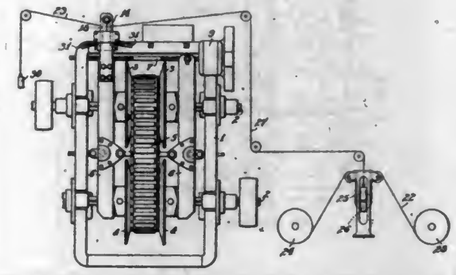
1,662,659. MODULATING VALVE. WILLIAM W. BIRNSTOCK, York, Pa., assignor to Vapor Heating Company, York, Pa., a Corporation of Pennsylvania. Filed Apr. 23, 1927. Serial No. 186,117. 7 Claims. (Cl. 251—156.)



2. A valve comprising a casing having a seat therein, a valve seat member adapted to engage said seat in the casing, a valve member cooperative with said seat member, a rotatable stem having a thread connection with the valve member and also having a collar fixed thereon and arranged to abut against said seat member, and an element operative to form a fluid tight joint with said collar on the stem and to hold the seat member against its seat in the casing.

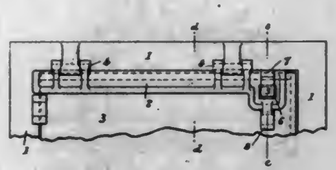
1,662,660. CONTROLLER FOR VARIABLE-SPEED TRANSMISSION. HARRY C. CLAY, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a Corporation of Indiana. Filed Feb. 25, 1927. Serial No. 171,017. 4 Claims. (Cl. 242—75.)

1. The combination with a variable speed mechanism, of an electric motor for operating said mechanism to cause the same to drive at varying speeds, a switch for controlling the operation of said motor including an arm movable by said electric motor, switch contacts mounted on said arm, a controller arm movably mounted on said first arm, switch contacts mounted on said controller arm arranged to co-operate with the first mentioned



switch contacts and means for moving said controller arm to close said switch contacts and maintain said arm in a stationary position during the movement of said first mentioned arm to cause said contacts to move to open position.

1,662,661. CONTROL MECHANISM. ALBERT FREDERICK COATES, Bristol, England. Filed Aug. 17, 1926, Serial No. 129,750, and in Great Britain Aug. 21, 1925. 4 Claims. (Cl. 74—5.)

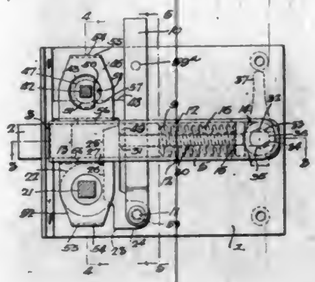


1. Control mechanism comprising a stationary member, and a movable member associated with said stationary member, in combination with an operating member pivotally mounted on said stationary member in the path of said movable member, means connected to said operating member adapted through movement of the latter to actuate an associated mechanism, and inter-engaging parts upon said movable member and said operating member, said inter-engaging parts being adapted positively to move said operating member into open position as the movable member begins to move and to hold said operating member in open position during further movement of the movable member, and said inter-engaging parts being also adapted positively to move said operating member into closed position as the movable member ends its movement in the other direction.

1,662,662. LOCK FOR AUTOMOBILE DOORS. NORMAN W. CUMMINS, Plymouth, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed Apr. 20, 1926. Serial No. 103,293. 12 Claims. (Cl. 70—29.)

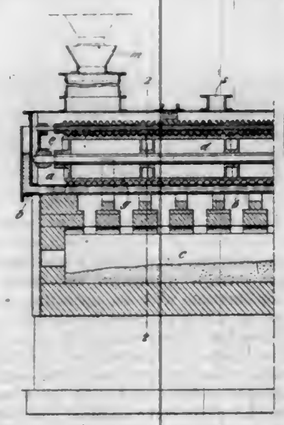
1. An automobile door lock, adapted for use on either right or left hand doors and comprising an invertible base plate; a bolt operatively mounted on said base plate at the longitudinal centre thereof; a handle operated retractor for said bolt operable from the outside of said automobile; a mounting for said retractor; identically

formed apertures, symmetrically positioned in said base plate, adjacent each side of said bolt, for operatively receiving said retractor and its mounting, at either side



of said bolt; and an abutment lock co-operatively aligned with said bolt, on said base plate, operable from the inside of said automobile.

1,662,663. HEAT TREATMENT OF MATERIALS FOR DISTILLING, DRYING, OR CARBONIZING THEM. ARTHUR MCDOUGALL DUCKHAM, DOUGLAS RIDER, and JOHN SIMKINS WATTS, London, England. Filed Jan. 12, 1925, Serial No. 2,011, and in Great Britain Jan. 17, 1924. 2 Claims. (Cl. 202—3.)



1. Apparatus for the continuous distillation of a subdivided solid material, comprising a horizontal trough-shaped vessel adapted to be heated, and having its lower portion substantially part-cylindrical, a cylinder mounted to rotate in said vessel on a horizontal axis parallel to the longitudinal axis of said vessel, with part of its periphery in close proximity to said part-cylindrical portion of the inner surface of the vessel, a screw thread carried by the cylinder and extending between the said cylinder and said portion of the inner surface of the vessel, means for feeding material to said thread, a scraping screw of diameter less than that of said cylinder, said screw having a thread intermeshing with and of hand different from the thread carried by the cylinder and adapted to remove material adhering thereto, and means for continuously rotating the said cylinder, and the said scraping screw with the same angular velocity in directions which are opposite in sense.

1,662,664. PROCESS FOR THE OXIDATION OF ALKYL-ARYL-SUBSTITUTED DITHIOCARBAMIC ACIDS TO THE CORRESPONDING DISULPHIDES. WALTER FLEMMING, Mannheim, Germany, assignor to Silesia Verein Chemischer Fabriken, Ida- und Marienhutte, Post Saarau, Kreis Schweidnitz, Germany. Filed Aug. 16, 1927, Serial No. 213,446, and in Germany Oct. 30, 1926. 1 Claim. (Cl. 260—16.)

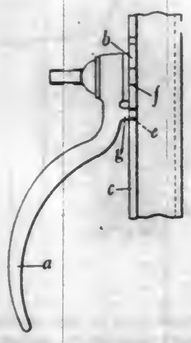
A process for the oxidation of alkyl-aryl-substituted dithiocarbamic acids to the corresponding disulphides, consisting in oxidizing the said acids in alkaline solution by a mixture of nitric oxide and atmospheric oxygen.

1,662,665. COUPLING FOR BEAD CHAINS. WILLIAM J. GAGNON, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 25, 1927. Serial No. 201,541. 5 Claims. (Cl. 59—95.)



2. A coupling device for bead chains comprising a sheet metal plate apertured to accommodate a jump ring or the like, and to accommodate a plurality of chain balls, the aperture for the accommodation of the terminal ball of the chain corresponding substantially to the diameter of the ball, but receiving the latter with a drive fit, the plate offset intermediate the chain ball apertures to accommodate a link interconnecting the balls.

1,662,666. CASEMENT FASTENER. HECTOR HENRY GARRATT, Smethwick, England, assignor to Henry Hope & Sons Limited, Smethwick, England. Filed July 16, 1926, Serial No. 122,981, and in Great Britain Sept. 7, 1925. 1 Claim. (Cl. 292—202.)

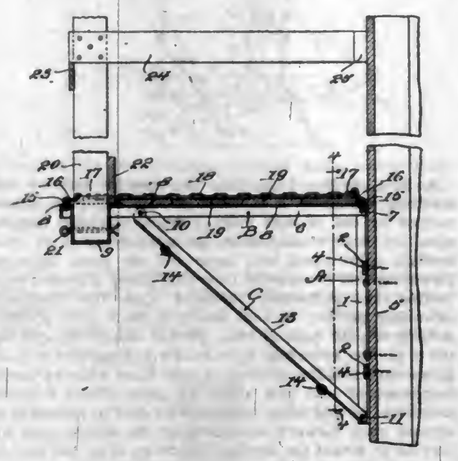


In casement fasteners, the combination of a handle plate having a peripheral portion which is symmetrical about a central axis, a pivot on said plate, a handle carried on the pivot, two pairs of symmetrically arranged complementary stops integral with the peripheral portion of the handle plate, and a projection on the handle adapted to co-operate with either pair of stops for limiting the handle movement, substantially as described, the pairs of symmetrically arranged complementary stops permitting the handle plate being attached in reversed positions.

1,662,667. BRACKET. JAMES F. GOLDSBORO, Fairchance, Pa. Filed Aug. 4, 1927. Serial No. 210,669. 1 Claim. (Cl. 304—38.)

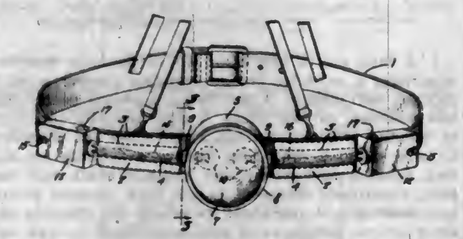
A bracket for supporting platform boards including a horizontal support member, a vertical back member adapted to be adjustably fixed on the face of a building

or the like and a brace member between the support and back member, all of said members being pivotally connected and one of the pivots being removable to permit of the members being folded against each other, the support member having spaced depending socket portions at the outer end thereof designed for the reception of uprights for a protective rail for the platform boards,



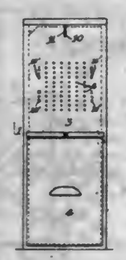
means passing through the socket for sustaining the uprights therein, a flexible element loosely connected to one end of the support member designed to be arranged over the boards and means for adjustably securing the flexible element to the second end of the support member for holding said flexible element in tight engagement with the boards.

1,662,668. LIGHT SUPPORT. JOHN N. GOSSETT, Sheridan, Mont. Filed Nov. 18, 1926. Serial No. 149,228. 1 Claim. (Cl. 240—59.)



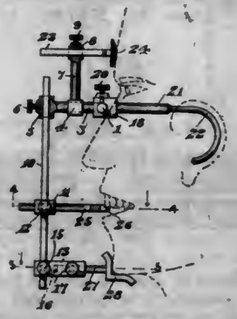
In a device of the character described, a belt, strips secured to said belt by spaced rows of stitching arranged in a manner to provide longitudinal loops, a lamp housing, spaced parallel loops formed with said lamp housing and receiving said belt for securing the lamp housing between said strips and centrally of the ends of said belt, a pair of battery casings having spaced parallel loops for securing the same to said belt upon opposite sides of said strips, covers formed with latching means for retaining batteries within said battery casings, lamp sockets disposed upon diametrically opposite sides of said lamp housing, conductors extending from said battery casings and passing through the longitudinal loops for connection with the sockets, lamps in said sockets, and means carried by said battery casings for controlling the passage of current through said conductors to said lamps.

1,662,669. CONTAINER FOR SEPARATING SLOTTED CARDS. GEORGE H. HALLETT, Jr., Lansdowne, Pa. Filed July 31, 1919, Serial No. 314,579. Renewed June 12, 1926. 11 Claims. (Cl. 129—16.1.)



1. The combination, in card-separating means, of a container having an upper receptacle for the said cards, a removable drawer in the lower portion of said container adapted to receive said cards, and removable separating means between the upper receptacle and the drawer.

1,662,670. MEASURING INSTRUMENT. ARTHUR L. HARTER, Kokomo, Ind. Filed Sept. 19, 1927. Serial No. 220,527. 4 Claims. (Cl. 33—174.)

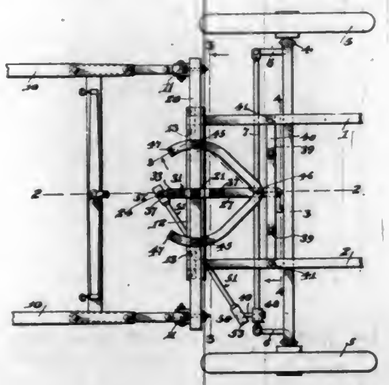


1. A measuring instrument for the purpose set forth comprising a supporting member provided with a nose bridge, a horizontally adjustable, graduated forehead abutment element, means for connecting said element with and for spacing it from said member, a vertically and horizontally adjustable, graduated tooth abutment element positioned below said member, a vertically and horizontally adjustable, graduated chin abutment element arranged below the tooth abutment element, a vertically adjustable, graduated bar connected with said member and common to said tooth and chin abutment elements for supporting them, and a pair of attaching elements carried by said member.

1,662,671. COMBINED DRAFT AND STEERING GEAR. HARVEY L. HEGLAND, Aitkin, Minn. Filed July 26, 1927. Serial No. 208,590. 5 Claims. (Cl. 280—103.)

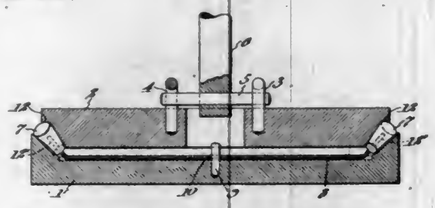
1. A combined draft and steering gear for horse drawn vehicles comprising a support adapted to be secured with the body of the vehicle forwardly thereof, a draft bar for connection with the shaft of the vehicle, pivotally connected with said support and adapted to be shifted by the animal on a change in the direction of travel thereof, a combined draft bar guide and steering arm actuating member extending forwardly and rearwardly

with respect to said bar and bodily shifted with the latter, means for connecting said member to said bar, a steering arm, means for connecting the forward end of



said arm to the forward end of said member, and means for connecting the rear end of said arm with the steering means for the front wheels of the vehicle.

1,662,672. METHOD AND APPARATUS FOR GRINDING. WILLIAM E. HOKE, Baltimore, Md. Filed Dec. 23, 1924. Serial No. 757,740. 12 Claims. (Cl. 51—278.)

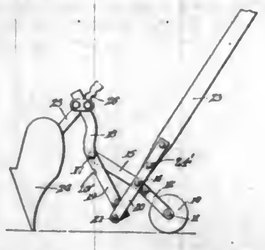


1. The method of grinding articles having curved surfaces which consists in subjecting said articles to abrasion between relatively moving abrading surfaces at least one of which is a curved surface of revolution having the characteristic that through any point of the surface two rectilinear surface elements may be drawn.

1,662,673. GARDEN IMPLEMENT. FRANK HURKA, New York, N. Y. Filed June 10, 1922, Serial No. 567,868. Renewed Dec. 6, 1927. 4 Claims. (Cl. 97—58.)

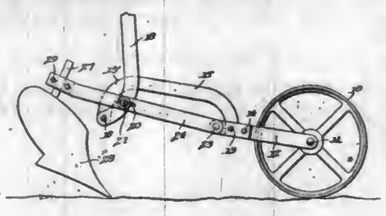
1. In a device of the class described, a pair of links pivotally connected, a rotatable ground engaging member mounted on one of said links, a beam secured to the other of said links, a ground penetrating tool mounted on said beam, a draft arm operatively connected to said links and engaging said beam, said arm upon movement actuating the beam to cause said tool upon forward movement of the device to penetrate the ground.

3. In a device of the class described, a pair of links pivotally connected, a rotatable ground engaging member carried by one of said links, a beam pivotally mounted upon the other of said links, the pivot being at an intermediate point along said beam and the beam extending forwardly and rearwardly from said pivot, a ground penetrating tool mounted upon the rearwardly extending portion of said beam, a draft arm pivotally secured to said links and having a portion extending downwardly and operatively connected to the forwardly extending portion of said beam whereby pivotal movement of said arm about its pivot effects a pivotal movement of said beam to cause said tool to penetrate the ground upon forward movement of the device, said arm serving as means for moving the device after the tool has penetrated the ground.



4. In a device of the class described, a pair of links pivotally connected, a rotatable ground engaging member carried by one of said links, a beam pivotally mounted upon the other of said links, the pivot being at an intermediate point along said beam and the beam extending forwardly and rearwardly from said pivot, a ground penetrating tool adjustably mounted upon the rearwardly extending portion of said beam, a draft arm pivotally secured to said links at their pivotal connection and having a portion extending downwardly and connected to the forwardly extending portion of said beam whereby pivotal movement of said arm about its pivot effects a pivotal movement of said beam to cause said tool to penetrate the ground upon forward movement of the device, said arm serving as means for moving the device after the tool has penetrated the ground.

1,662,674. GARDEN IMPLEMENT. FRANK HURKA, Ballston Spa, N. Y. Filed June 24, 1924. Serial No. 722,087. 18 Claims. (Cl. 97—59.)

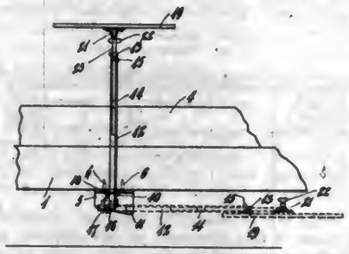


1. A hand garden implement tool of the class described comprising a rotatable ground engaging member, a shaft carrying said member, a tool beam, a ground penetrating tool mounted on said beam, a link pivotally connected at one end to said beam and at its other end connected to said shaft, a draft arm having a fulcrum on said link, between said ground tool and said shaft, said arm being operatively connected to said beam whereby pivotal movement of said arm about its axis in one direction will effect pivotal movement of said beam about its own axis to cause said tool upon forward movement of the implement to penetrate the ground.

1,662,675. BED TABLE ATTACHMENT. HARRY C. INNES, Cincinnati, Ohio. Filed Dec. 9, 1926. Serial No. 153,612. 3 Claims. (Cl. 45—82.)

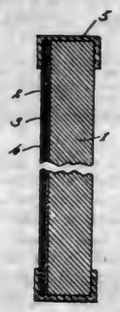
1. In a bed table attachment, a table element, a standard to which said table element is connected, a bracket of L-shaped cross-section to be attached to the lower edge of a bed rail by one member of its cross-section which is horizontal, with the other member vertical and in from the outer edge of the rail, an eye bolt turning in said vertical member on an axis at right angles to the rail, said standard having an ear extended inward and pivoted to said eye bolt, and said standard extending upward past the outer side of the rail, means

on said bracket horizontal member between which said ear engages when said standard extends upward as aforesaid, and means on said bracket vertical member



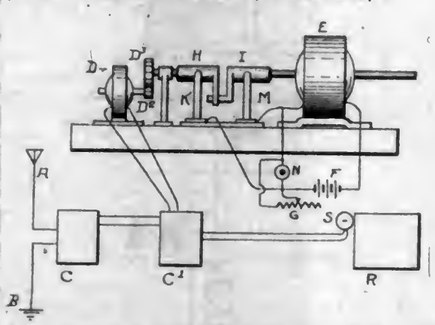
between which said standard engages when swung down into a horizontal plane by turning of said eye bolt, and inward on said plane by turning of said standard on said eye bolt.

1,662,676. OUTDOOR SIGN. WILL C. JAMES, Norwood, Ohio, assignor to The Kemper-Thomas Company, Norwood, Ohio, a Corporation of Ohio. Filed Oct. 29, 1923. Serial No. 671,406. 5 Claims. (Cl. 91—67.9.)



1. The process of manufacturing an outdoor sign, consisting first in filling the interstices of a fiber board sheet, by capping them with an insolubilized casein, secondly coating the board with an ink receptive medium, thirdly decorating the sign with a suitable announcement, fourthly varnishing the board.

1,662,677. ROTARY RELAY. CHARLES FRANCIS JENKINS, Washington, D. C. Filed July 21, 1924. Serial No. 727,271. 4 Claims. (Cl. 172—293.)



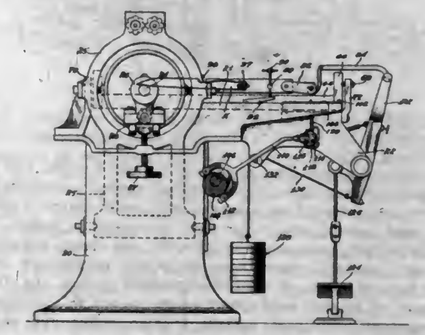
3. In combination, a power motor, a control motor, a rotatable contact member driven by each motor, said contact members co-acting to close a circuit to control the speed of the power motor, and means independent of said contact members for closing said circuit.

1,662,678. HOOK BAR FOR FOOTING MACHINES. NATHANIEL JUDSON, New York, N. Y. Filed Sept. 30, 1927. Serial No. 223,107. 4 Claims. (Cl. 66—149.)



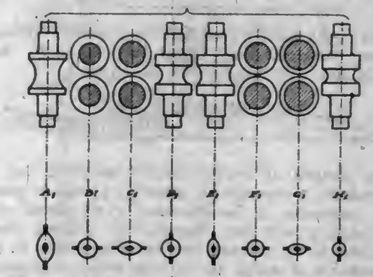
1. In a hook bar for footing machines, a body, a clamping structure connected to said body, said clamping structure including a yielding stationary jaw and a yielding movable jaw, manually actuated means for moving the movable jaw away from the stationary jaw, and automatically acting means for moving the movable jaw toward the stationary jaw.

1,662,679. CUTLERY GRINDING AND POLISHING MACHINE. HEINRICH KESSEL, Haan, Germany. Filed Apr. 27, 1927, Serial No. 187,092, and in Germany May 2, 1924. 12 Claims. (Cl. 51—115.)



8. In a machine of the class described, the combination of a pivotally mounted cradle, said cradle being carried on a pair of adjustable centers so that the pivotal axis of the cradle may be shifted, work-holding means reciprocable upon said cradle, said means comprising a pair of plates adapted to hold the pieces of work on their outer faces, a rigid cross-piece and resilient means normally tending to move said plates toward each other; means to reciprocate said work-holding means, means to spread said plates apart during a portion of their stroke, adjustable means to rock said cradle, and adjustable means to swing said plates outwardly during a portion of their reciprocatory stroke.

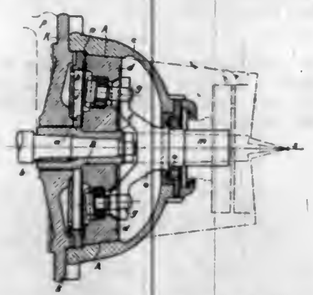
1,662,680. METHOD OF ROLLING DOWN HOLLOW BODIES. GUSTAF ABRAHAM LINDGREN, Sandviken, Sweden. Filed May 1, 1924, Serial No. 710,468, and in Sweden May 9, 1923. 2 Claims. (Cl. 80—62.)



1. The method of rolling hollow billets without a hard mandrel for producing hollow bodies with circular channel consisting in first rolling down said billet to a
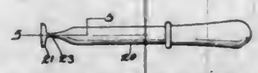
substantially oval shape, then rolling down said oval shaped billet with the longer axis of the oval as the pressure axis to a substantially round shape, then rolling down the billet, maintaining the same pressure axis as in the foregoing pass to produce an oval shape thereby augmenting the ovality of the hole, and then rolling down the billet with the longer axis as the pressure axis to produce a round shape.

1,662,681. FRICTION WHEEL GEAR. WALTHER LINDNER, Dusseldorf-Grafenberg, Germany, assignor to Hohenzollern Aktiegesellschaft fur Lokomotivbau, Dusseldorf-Grafenberg, Germany. Filed Mar. 10, 1927, Serial No. 174,368, and in Germany Mar. 6, 1926. 16 Claims. (Cl. 74—34.)



1. In a friction gear, a central conical friction roller, a conical rolling race, at least three conical intermediate rollers in frictional engagement with said central roller and said race, journals for said intermediate rollers, a rotatable body carrying said journals, and means adapted to exert an axial pressure on peripheral portions of the end face of each of said intermediate rollers for the purpose of holding said intermediate rollers in frictional engagement with said central friction roller and said rolling race.

1,662,682. MEDICINE DROPPER OR SYRINGE. JOHN URI LLOYD, Cincinnati, Ohio. Filed Mar. 29, 1926. Serial No. 98,068. 3 Claims. (Cl. 128—233.)



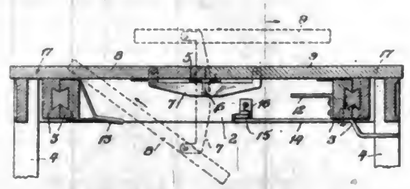
3. As a new article of manufacture, a dropper comprising a collapsible member and a tubular member attached to the collapsible member at its one end and provided adjacent its opposite end with a reduced bore, said last mentioned end being enlarged and extended to provide a cup with an enlarged mouth, said cup, when inverted being adapted to hold, by adhesion, a minim of ordinary liquid and to discharge the contents of the cup-like portion upon actuation of the collapsible member.

1,662,683. SEAGOING LOG RAFT. JOHNSTON PUGSLEY PORTER, Portland, Oreg. Filed July 30, 1926. Serial No. 125,998. 4 Claims. (Cl. 9—15.)
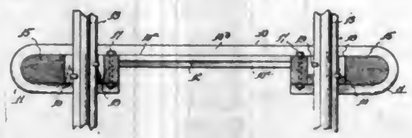


1. The method of constructing a sea-going log raft which consists in arranging a plurality of logs in parallel relation transverse to the direction of movement of the raft, attaching said logs together by passing one or more cables freely through one or more series of apertured members of which one of each series is secured to each log, suspending a cable or cables beneath a number of said logs independently thereof, and securing said upper and lower cables to leading and following logs.

1,662,684. COLLAPSIBLE TABLE. FRANCIS M. SANDERS, Brooklyn, N. Y. Filed Mar. 17, 1927. Serial No. 176,221. 3 Claims. (Cl. 45—112.)



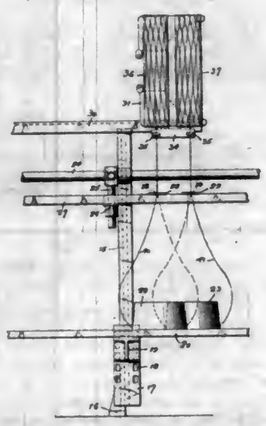
1. A table of the character described, comprising movable sections, a leaf composed of two sections, and members pivotally mounted between their ends on the table sections and pivotally connected at their ends to the edges of the respective leaf sections whereby the movement of these members causes the leaf sections to be positioned one above the other in a plane below the table top, or positioned in alinement in a plane flush with the table top.

1,662,685. METAL RAILROAD TIE. ERNST G. TRICHART, Duquesne, Pa., assignor of one-half to Henry Howden, Homestead, Pa. Filed June 16, 1927. Serial No. 199,289. 3 Claims. (Cl. 238—43.)



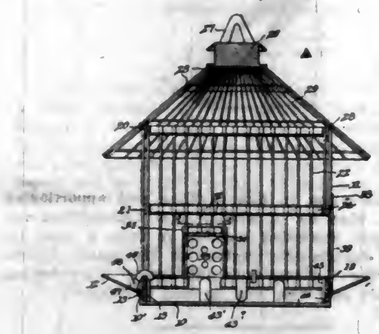
1. In combination with a metal railroad tie having loops at its ends and base flanges within the loops, of a block for the loop end of the tie fitting between the side members of the loop and having laterally projecting upper end portions overlying the upper edge of the body portion of the tie.

1,662,686. SKEINING APPARATUS. CHARLES S. THOMPSON, Ridley Park, Pa., assignor to The Viscose Company, Marcus Hook, Pa., a Corporation of Pennsylvania. Filed June 15, 1927. Serial No. 199,046. 3 Claims. (Cl. 242—53.)



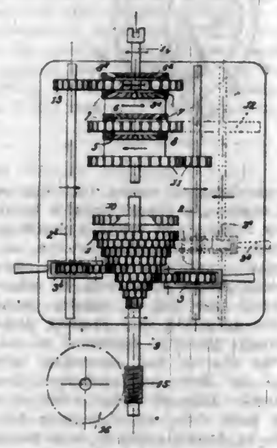
1. In a skeining machine, a reel, a traverse cooperating with said reel and having a plurality of guides for forming a plurality of skeins on the reel, a plurality of fixed guides for leading the thread to the traverse guides, means for supporting a plurality of thread masses below the stationary guides, said traverse guides in their median positions and their respectively cooperating fixed guides and thread masses having their centers substantially in parallel planes normal to the reel axis and median to their respective skeins.

1,662,687. CELLULOSE BIRD CAGE. ROSS L. TULLIS, New Haven, Conn. Continuation of application Serial No. 693,828, filed Feb. 19, 1924. This application filed Mar. 19, 1926. Serial No. 96,076. 7 Claims. (Cl. 119—17.)



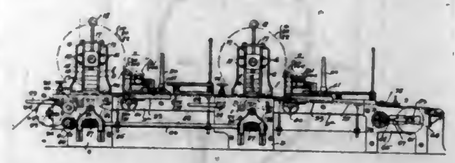
1. A bird cage having a frame structure formed from cellulose ester stock with the parts thereof secured together by direct adhesion, and bars of a cellulose ester secured to said frame parts.

1,662,688. CHANGE-SPEED GEAR BOX OR UNIVERSAL DIVISOR. GEORGES VEBER, Epinal, France, assignor to Société des Etablissements Singrün, Epinal, France, a Corporation of France. Filed July 28, 1926, Serial No. 125,538, and in France July 29, 1925. 5 Claims. (Cl. 74—34.)



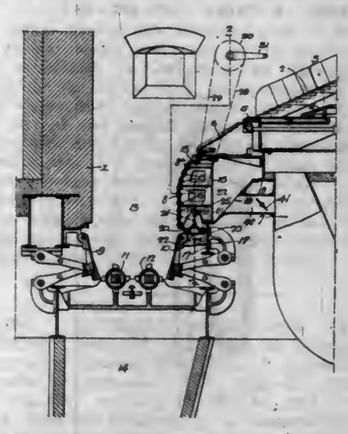
1. A change speed gear, comprising a frame, a drive member, a stepped wheel gear driven thereby, a number of countershafts journalled in said frame, a tumbler gear slidably mounted upon each of said countershafts and adapted to engage with any one of the toothed wheels of the stepped wheel gear, a planet gear comprising a number of planet gear units, one of the sun wheels of one of the planet gear units being fast with one of the sun wheels of the next planet gear unit, a driven member fast with one of the sun wheels of one of said planet gear units, a gear driven by one of the countershafts adapted to actuate that one of the sunwheels of the first planet gear unit, which is not fast with the sun wheel of the second planet gear unit, a gear driven by each of the other countershafts and adapted to actuate the planet-pinion carrier of each of the planet gear units.

1,662,689. PRINTING MACHINE. WILLIAM H. WALDRON and LYNN B. CASE, New Brunswick, N. J., assignors to John Waldron Corporation, New Brunswick, N. J., a Corporation of New Jersey. Filed Oct. 18, 1926. Serial No. 142,331. 1 Claim. (Cl. 101—181.)



In a printing machine of the class described, a printing unit comprising side frames; a print roll rotatably mounted in said unit; a color carriage slidably mounted on said side frames and comprising primary slides, adapted to said side frames; a color pan secured to said primary slides; secondary slides slidably mounted on said primary slides; a color roll rotatably mounted in said secondary slides; a feed roll engaging said color roll; bearings slidably mounted on said secondary slides in which said feed roll is rotatably mounted; means for adjusting said sliding bearings on said secondary slides; mans for adjusting said secondary slides on said primary slides; and means for moving said secondary slides and the adjusting means therefor, relative to said primary slides.

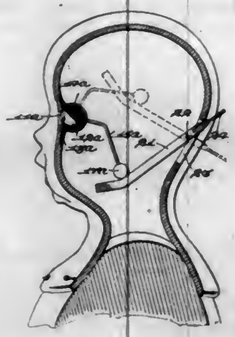
1,662,690. SIFTINGS DUMP FOR STOKERS. ANTHONY E. WEINGARTNER, Bethlehem, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1923. Serial No. 617,295. 2 Claims. (Cl. 110—165.)



1. The combination in a stoker having tuyères, a stationary curtain structure and an ash pit; of a transversely extending collecting chamber disposed below the

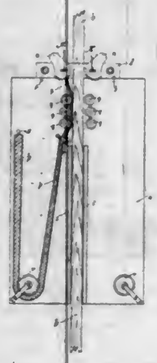
tuyères and to one side of said stationary curtain structure, having a series of outlets opening into the ash pit; a series of valves normally closing said outlets; an operating shaft extending through the chamber and projecting at one side of the stoker; flexible members connecting said shaft with the valves; and means for turning the shaft at will to unseat the valves and permit the discharge of material from the chamber into the ash pit.

1,662,691. DOLL HEAD. JAMES COLLORD WHITE, Sewickley, Pa., assignor of one-half to Winifred Scott White and one-half to Mary Thorn White, Sewickley, Pa. Filed Dec. 28, 1925. Serial No. 77,905. 2 Claims. (Cl. 46—40.)



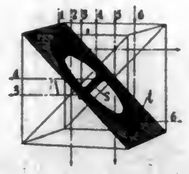
2. A doll head of hollow form having eye sockets, eyes independently movable in said sockets, and each provided with a weighted controlling arm within the head arranged to shift the eye by gravity in accordance with the position of the head, and manual means for separately shifting each of the eyes independent of the gravity controlling arms, said means being engageable with the said controlling arms at a point within the head and said head having openings at the rear thereof through which the said manual controlling means project exteriorly of the head, for the purpose described.

1,662,692. SAFETY DEVICE FOR MINE SKIPS, LIFTS, AND THE LIKE. JOHN ADSERO, Messina, Transvaal, South Africa. Filed Nov. 5, 1926. Serial No. 146,497. 3 Claims. (Cl. 187—88.)



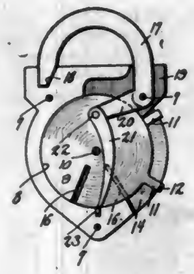
1. A safety device for mine skips, lifts and the like including a skip body and guides therefor, bearing members on said body, a plurality of lengths of tapered cable passing between the guides and the bearing members, and means actuated in response to breakage or slackness of hauling gear for the skip body to cause the tapered cable to become firmly wedged and to bring the skip to a stop.

1,662,693. OPTICAL SYSTEM. MICHAEL ASTAFIEV, Chelsea, London, England. Filed Jan. 21, 1926, Serial No. 82,805, and in Great Britain Jan. 26, 1925. 7 Claims. (Cl. 88—1.)



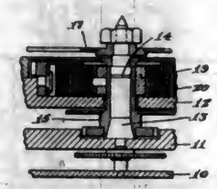
7. In combination in light-dividing and apportioning apparatus a plurality of similar light transmitting triangular prisms assembled together to form a cube, reflecting and transmitting regions on the planes formed by the interfaces of said cube and opaque non-reflecting regions within said cube and on said interfaces.

1,662,694. LOCK. WILLIAM E. BARTMESS, Kenwood Okla. Filed Oct. 7, 1926. Serial No. 140,170. 5 Claims. (Cl. 70—112.)



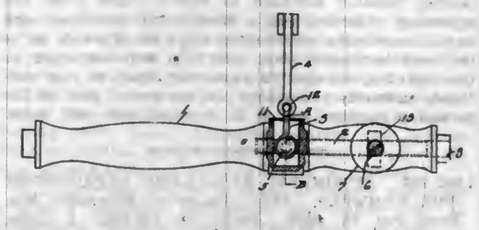
1. A lock comprising a casing including assembled relatively fixed sections, a shackle carried by the casing and movable to locking and released positions, a plurality of slotted disks arranged in the casing and rotatable to relative positions with their slots in registry at a predetermined point and to other relative position with their slots out of registry, manually operable means for adjusting said tumbler disks, and a member operatively pivotally connected to an angular extension of the shackle and extending substantially diametrically of the disks and restrained from movement by the tumbler disks when the latter are relatively positioned with their slots out of registry for restraining the shackle in locked position, said member being movable into the slots of the tumbler disks when the latter are positioned with their slots in registry for permitting movement of the shackle to released position, said casing having circumferential slots in its periphery, and said manually operable means embodying arms rigid with the tumbler disks and projecting outwardly through and movable in said slots.

1,662,695. FUSE. FREDERICK W. BOLD, Chelsea, Mass., assignor to Charles H. Pearson, Brookline, Mass. Original application filed Jan. 2, 1925, Serial No. 285. Divided and this application filed Dec. 4, 1925. Serial No. 73,276. 3 Claims. (Cl. 102—36.)



1. In a time fuse, the combination of a timing train, a sleeve associated therewith and movable relatively thereto, a staff, means thereon for transmitting power to the timing mechanism, and means associated with said staff and said sleeve for permitting locking of the sleeve and the staff together on the shock of firing.

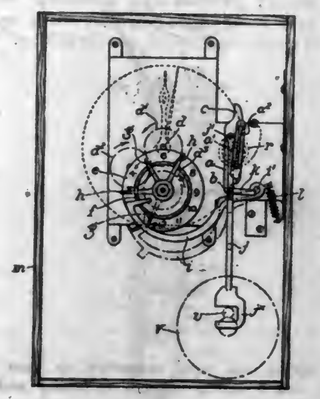
1,662,696. CLOTHES-PRESSING MACHINE. HARRY H. CALLAN, Lexington, Ky. Filed May 15, 1926. Serial No. 109,441. 1 Claim. (Cl. 68—9.)



In combination with the handle and valve stem of a garment pressing machine, a rock shaft arranged in the handle, a stud projecting laterally from the shaft, a link connected with the stud, a lever pivoted to a part of the machine and connected with the link, said lever engaging the valve stem, the handle having a slot therein, a member passing through the slot and fastened to the rock shaft and a knob on said member.

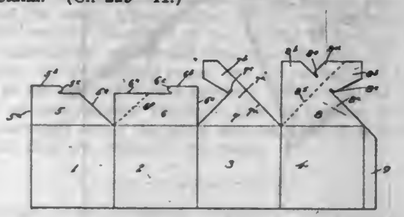
1,662,697. TIME SWITCH. JAMES CLIFTON, JAMES ROBINSON, and JOHN SPENCER, London, England. Filed May 5, 1922, Serial No. 558,619, and in Great Britain Feb. 13, 1922. 8 Claims. (Cl. 200—38.)

3. A device of the character described, comprising a switch and means for controlling the opening and closing thereof, said means consisting of a clock mechanism, a tappet carrier driven by said clock mechanism and carrying a ring of teeth, spring controlled tappets mounted on the carrier, said tappets being adapted to be moved freely over said teeth and to take up a definite and positive time position when the movement ceases; a spring-controlled pivotally mounted trip-lever having an abutment face at its axis end, and a tappet abutment face at its free end disposed in the path of said tappets and adapted to be in turn deflected downwardly by each of said tappets; a partially rotatable escapement member having two contact faces in the path of which the abutment face is normally held, one of the abutment faces being at a greater distance from the axis than the other abutment face; permanently fixed means for winding the said escapement member, an electric switch, a switch-rod having a controlled vertical movement pivoted at one end to the escapement member and at the other end detachably engaging the electric switch, said mechanism being arranged in a casing



comprising hinged parts, the switch and controlling mechanism therefor being secured respectively on one of the hinged parts, the other on the other hinged part of the casing, substantially as herein described.

1,662,698. CARTON. ARTHUR C. CRAMER, Cincinnati, Ohio. Filed Mar. 7, 1924. Serial No. 697,670. 1 Claim. (Cl. 229—41.)

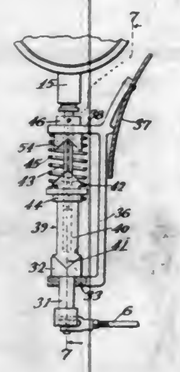


A carton having side walls adapted to be extended into tubular shape, and flaps having overlapping portions articulated to the walls for forming an end closure for the carton with the extension of the walls of the carton into tubular shape, one pair of said flaps being so cut and shaped that when overlapping parts of said flaps are secured together a triangular aperture will be formed, and another pair of flaps being so cut and shaped that when overlapping parts of said flaps are secured together an interlocking member will be formed which, with the extension of the walls into tubular shape, will interlock in the triangular shaped aperture formed by the other pair of flaps.

1,662,699. DIRIGIBLE REFLECTOR IN HEADLIGHTS. JOHN V. CUNNIFF, Los Angeles, Calif., assignor to Safeway Headlights, Incorporated, a Corporation of Delaware. Filed Aug. 31, 1926. Serial No. 132,695. 5 Claims. (Cl. 240—44.)

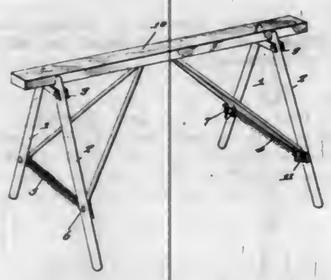
1. A headlight comprising in combination a fixed headlight housing having a pivoted reflector therein, a telescopic shaft having a lower sleeve and an upper splined shaft connected thereto, said upper shaft being connected to the reflector, a crank shaft having a clutch

element, means connecting said crank shaft to a moving part of a steering mechanism, a clutch element on the crank shaft, a cooperating clutch element on the



sleeve, a spring, an arm connected to part of the automobile, and a spring between said arm and a connection to the sleeve.

1,662,700. TRESTLE. FRANK P. DYER, St. Louis, Mo. Filed Feb. 7, 1927. Serial No. 166,561. 1 Claim. (Cl. 304—5.)

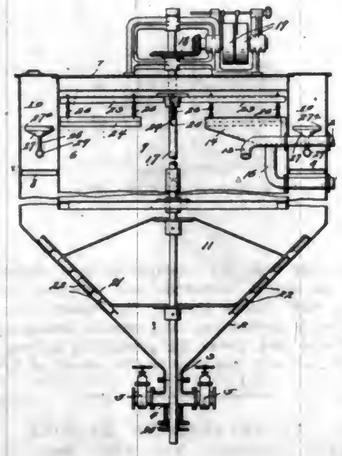


A trestle of the character described comprising a pair of upwardly converging legs spaced at their upper ends, a pair of of spaced oppositely disposed cross members pivotally connected to said legs adjacent their upper ends, a cross beam received between said upper ends and supported by said cross members, a longitudinally slotted cross member and bolts and wing nuts for adjustably connecting said slotted cross member to said legs at intermediate points of said legs, said bolts being slidably extended through said slot, brace members pivotally connected to said legs by said bolts and converging upwardly toward the center of said cross beam, said brace members having penetrating points formed thereon and arranged at angles thereto and embedded in said cross beam substantially as described.

1,662,701. RECLAIMING PROCESS FOR USED CRANKCASE OIL. WILLIAM H. ELLERINGTON, Naples, N. Y. Filed Jan. 23, 1926. Serial No. 83,400. 1 Claim. (Cl. 196—16.)

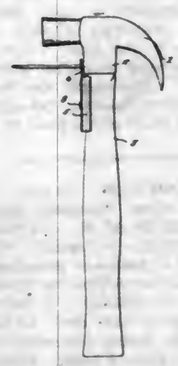
The process of removing carbon, dust, grit, sand, metal particles and like impurities from used lubricating oil which comprises intimately mixing lubricating oil containing such impurities with a mixture including soap, sodium silicate and talc.

1,662,702. DECANTER. JOHN C. HEBDEN, New York, N. Y., assignor to Hebden Sugar Process Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1923. Serial No. 682,488. 10 Claims. (Cl. 210—55.)



1. A decanter comprising an impurity-separating chamber adapted to receive the liquid to be treated and a decanting chamber arranged to receive liquid from the separating chamber, and a plurality of decanting cups having upstanding surrounding edges all of which lie in the same horizontal plane and form weirs arranged in the decanting chamber to cause the liquid to flow uniformly upwardly throughout the horizontal area of the decanting chamber and to be decanted over said weirs.

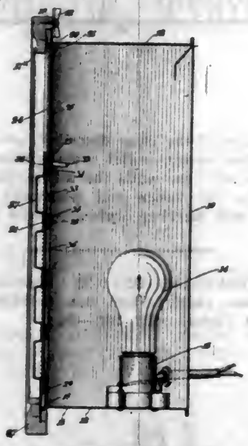
1,662,703. AUTOMATIC NAIL-CLAMP ATTACHMENT FOR HAMMERS. ANTON HELFRICH, Milwaukee, Wis. Filed Feb. 19, 1927. Serial No. 169,590. 1 Claim. (Cl. 145—30.)



The combination with a hammer head having a wooden handle and said handle having a pocket therein arranged in a plane with the poll of the hammer head, of a metal plate which is arched in cross section to loosely embrace the handle of the hammer and which plate has one of its ends centrally formed with a claw extension, said plate having a central opening therethrough, a screw passing through the opening and threaded into the handle and a helical spring in the pocket exerting a pressure against the plate at one end thereof to swing said plate on its fulcrum to bring the claw against the eye

portion of the hammer head and whereby a nail engaged by the claw will have its head portion forced against the eye of the hammer and sustained at a right angle with respect to the said eye portion of the hammer.

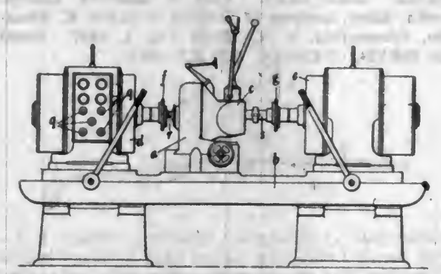
1,662,704. DISPLAY SIGN. WILLIAM HERRSCHAFT, New York, N. Y. Filed Nov. 5, 1926. Serial No. 146,400. 21 Claims. (Cl. 40—140.)



1. An illuminated display sign comprising a casing having a front cover plate provided with tiers of rectangular apertures therein, translucent rectangular character carrying devices protruding forward through the apertures to form words or sentences, and each provided with a rim extending in back of the front plate, and a backing plate, means releasably securing said backing plate in position against said front plate to secure the rims of said character carrying devices in position.

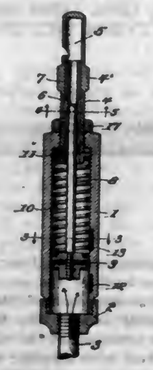
9. A character unit for a luminous display sign comprising a generally rectangular tray-shaped body of translucent material having the symbol thereon in opaque pigment, said tray having fastening means unitary therewith and protruding outward therefrom for attachment of the unit in position.

1,662,705. ELECTRICAL APPARATUS FOR TESTING MOTOR VEHICLE AND OTHER MECHANICAL POWER-TRANSMISSION MECHANISMS. FRANK WILLIAM HIGHFIELD, Coventry, England. Filed May 23, 1927, Serial No. 193,687, and in Great Britain July 21, 1926. 4 Claims. (Cl. 73—51.)



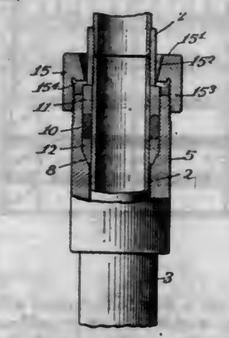
1. In apparatus for testing motor vehicle and other mechanical power transmission mechanisms, the combination comprising an electric motor, an electric generator, means whereby the mechanism to be tested can be mounted detachably between the motor and generator, interconnected shunt field windings in the motor and generator, and a regulator which is common to the said windings, substantially as described.

1,662,706. WHISTLE AND SAFETY VALVE. CHARLES WESLEY HILL, Oakdale, Tenn. Filed Sept. 29, 1926. Serial No. 138,461. 1 Claim. (Cl. 116—70.)



A device of the class described comprising a cylinder, a piston therein, a threaded tubular member passing through the top of the cylinder, a sleeve fitting snugly in the tubular member and having one side flattened to form a passage between itself and the member, said sleeve receiving the top portion of the piston rod, the upper part of the tubular member having a whistle formed therewith so that compressed fluid entering the cylinder will pass through the passage to the whistle part and sound the same, a coil spring on the rod between the piston and the inner end of the tubular member so that the adjustment of the tubular member will affect the tension of the spring, means for connecting the lower end of the cylinder with a pressure system and the inner wall of the cylinder having a pair of notches therein, one arranged above the other, with each notch of greater length than the width of the piston.

1,662,707. CASING HEAD. CHESTER C. HOSMER, Huntington Beach, Calif. Original application filed Sept. 15, 1922, Serial No. 588,391. Divided and this application filed Nov. 6, 1924. Serial No. 748,105. 8 Claims. (Cl. 166—14.)



1. A casing head comprising a sleeve applied to an exterior casing, said sleeve having an interior seat, a packer positioned in said sleeve and resting on said seat to embrace an interior casing, a clamping spider connected to said sleeve and adapted on its downward movement

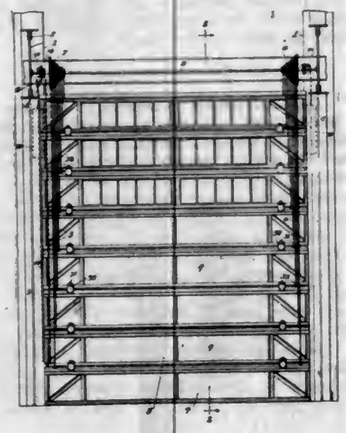
to compress said packer, to seal the joint between the casing head and the interior casing, said clamping spider having an aperture of sufficient size for a coupling of the interior casing to rest directly upon said packer without touching said clamping spider, whereby the packer may be compressed by either the clamping spider, the weight of the interior casing, or both, as desired.

1,662,708. SECTIONAL FURNACE GRATE. ORVILLE J. JONES, Emmett, Idaho. Filed June 22, 1926. Serial No. 117,788. 1 Claim. (Cl. 126—167.)



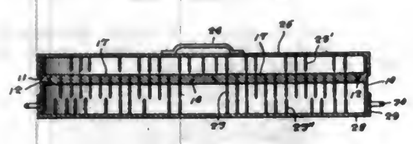
A grate bar comprising terminal sections having sides provided at the inner ends of the sections with vertical edges and with circular ears located below said edges and extending longitudinally beyond the same, intermediate sections having sides provided at the ends of the sections with vertical edges and with circular ears located below said edges and extending longitudinally beyond the same, ears of one terminal section and the ears at one end of each intermediate section being laterally offset to permit them to be arranged in overlapped relation with respect to the remaining ears and to provide arcuate shoulders contacting with the upper sides of the remaining ears, and pivot pins passing through the ears.

1,662,709. PIER-SHED DOOR. MAXIMILIAN H. KORN, Teaneck, N. J. Filed Aug. 18, 1925. Serial No. 50,964. 3 Claims. (Cl. 20—19.)



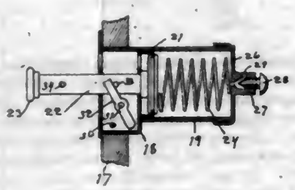
1. In a shed door, a door body formed with a plurality of sections, each section having a stiffened frame, a covering body therefor, a pin at each end acting as guides, a rotatable member mounted on each pin, locking rollers intermediate the ends, and wind locks on the opposite side to said rollers but in line therewith, the wind locks of one section co-acting with the rollers of the next adjacent section.

1,662,710. CONFECTIONER'S PATTERN-MAKING DEVICE. CARL MARCH, Chicago, Ill. Filed Mar. 23, 1927. Serial No. 177,697. 4 Claims. (Cl. 107—47.)



1. In a device of the class described, an outer element having an inner flange, radial arms within said element and connected with the walls thereof, segmental plates to be carried by the flange and positioned between the radial arms, and marking devices carried by the plates.

1,662,711. SIGNALING DEVICE. MILTON ALLEN MAYNARD, Suisun, Calif. Filed Oct. 4, 1926. Serial No. 139,496. 1 Claim. (Cl. 200—34.)



In a switch mechanism, a housing, a pair of binding posts positioned on said housing, a lever connected to one of said binding posts, a contact connected to other of said binding posts, a tubular projection secured to said switch housing, a piston movable in said tubular projection, a plunger secured to said piston, pins secured to said plunger and adapted to actuate said lever so as to move said lever into and out of engagement with said contact, and means for retarding the movement of said piston in one direction.

1,662,712. GOLF CLUB. CARL F. MENSING, Leavenworth, Kans., assignor of one-half to James K. Thomson, Schenectady, N. Y. Filed Aug. 1, 1927. Serial No. 209,824. 2 Claims. (Cl. 273—80.)



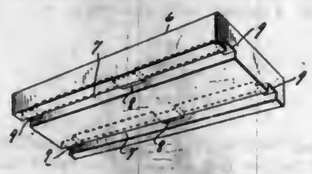
1. A golf club of which the shaft is so limber for the greater part of its length that, in the making of a stroke, it bends in a substantially continuous arc from the grip to the head, to such a material degree that the bending action is clearly perceptible to observers of the swing or stroke.

1,662,713. ATTACHMENT FOR HOISTING SLINGS. LEE ROBERT MILLER, New York, N. Y. Filed May 27, 1927. Serial No. 194,773. 5 Claims. (Cl. 294—74.)



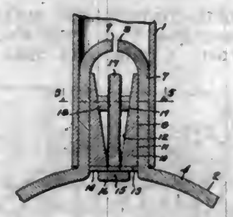
1. An attachment for hoisting slings, including a pair of members adapted to be clamped to the runs of the loop of the sling intermediate the ends of the sling and engage a beam or other article to be hoisted.

1,662,714. ROAD CULVERT. JAMES M. MORGAN, Bristow, Okla. Filed Feb. 21, 1927. Serial No. 169,931. 1 Claim. (Cl. 72—52.)



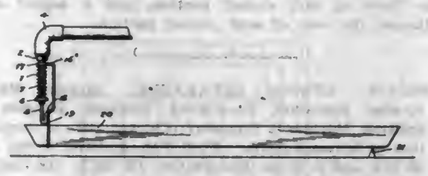
A culvert structure comprising a bottom wall, side wall panels resting upon the bottom wall and provided at their upper edges with recesses, top wall sections provided at their under faces with longitudinally disposed grooves which are spaced from the side edges thereof, said grooves adapted to receive the upper portions of the side panels and top panels being provided with block portions lying in the grooves and which are adapted to enter the recesses of the side panels.

1,662,715. HANDLE. RICHARD H. MORROW, Los Angeles, Calif. Filed Mar. 10, 1926. Serial No. 93,606. 3 Claims. (Cl. 306—45.)



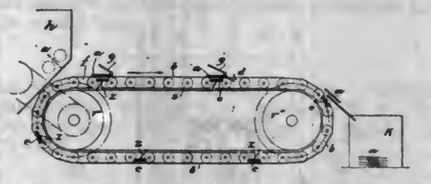
1. A handle attachment comprising in combination a tubular handle, a yoke having split ends inserted in the handle, the ends having curved outer surfaces and flat inner surfaces, a plurality of wedging blocks having wedging surfaces tapering from the inside towards the open end of the handle, a screw threaded bolt and a wedging nut on the bolt in contact with the wedging surfaces of the wedging blocks.

1,662,716. REGULATING VALVE FOR WATER TROUGHS. JOHN B. PETERSON, Blaine, Wash. Filed May 21, 1927. Serial No. 193,139. 2 Claims. (Cl. 119—81.)



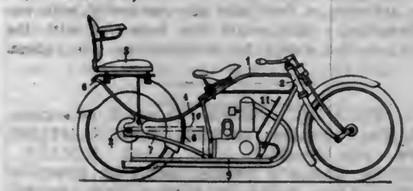
1. A regulating cut-off valve for automatically preserving a predetermined supply of water in a drinking receptacle, a tube threaded at the top for screwing into a water supply pipe and at the lower end for carrying an adjusting nut, a valve stem extending from the bottom to near the top of the tube, a ball valve and valve seat located near the top of the tube, the ball placed in a chamber over the seat in position to automatically roll on to the seat except as prevented by the top of the valve stem, a guard to hold the ball in the chamber, a screen over the chamber to prevent obstructive matter from clogging the valve seat, the stem bent around from the bottom of the tube outward and upward along and parallel with the tube to a point near the valve seat and there bent inward and around the tube to form a slidable eye around the tube, a spring mounted around the tube between the eye and the nut for normally holding the top of the stem above the valve seat, supporting means near the lower bend of the stem for holding up a water receptacle of a predetermined water supply.

1,662,717. METHOD OF RENDERING PAPER SHEETS LOCALLY TRANSPARENT. OTTO POEPPEL, Esslingen-on-the-Neckar, Germany. Filed Apr. 19, 1926, Serial No. 103,141, and in Germany May 20, 1925. 1 Claim. (Cl. 91—70.)



In the treatment of paper sheets to render the same locally transparent, transferring the sheets, precoated at the desired locality with medium to render the paper transparent, to the field of influence of travelling heating elements each of the form and dimensions corresponding to those of the "windows" to be formed, and maintaining the sheets subject to such influence until the paper is transparent and the coating medium completely dried.

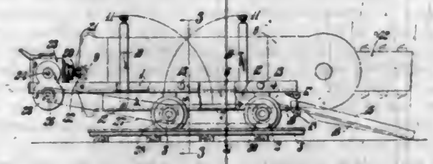
1,662,718. MOTOR CYCLE. GEORGES LOUIS REGARD, Geneva, Switzerland. Filed Mar. 18, 1926, Serial No. 95,733, and in Switzerland July 6, 1925. 5 Claims. (Cl. 208—24.)



1. A motorcycle frame comprising upper tubes, lower tubes, a bridge connecting said tubes, said upper tubes

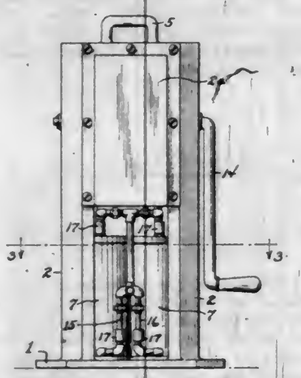
being arched downwardly adjacent the rear end thereof, said lower tubes extending from the rear end of said frame to a point intermediate the rear and front ends of the frame and being arched upwardly, a seat adjacent the front of said arched portion, and a second seat adjacent the rear of said arched portion.

1,662,719. MINING APPARATUS. EDWARD BUCKMASTER ROBINSON, Brentwood, England, assignor to Sullivan Machinery Company, Chicago, Ill., a Corporation of Massachusetts. Filed Feb. 4, 1926, Serial No. 85,913, and in Great Britain Oct. 13, 1925. 18 Claims. (Cl. 262—28.)



1. In a mining machine truck the combination with horizontal supports which support the machine in a working position in which it lies on its bottom or top lengthwise on the truck, of another horizontal support which is at a lower level than that of the other supports and is between them and can support the machine when it is horizontal but on its side.

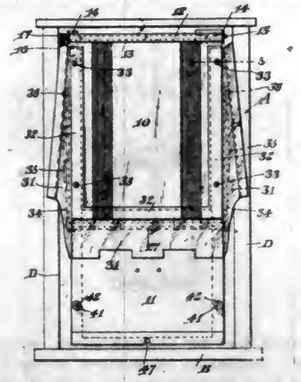
1,662,720. PUMP. MAXIMILIANO SANCHEZ, New York, N. Y. Filed Apr. 13, 1927. Serial No. 183,578. 2 Claims. (Cl. 103—177.)



1. In a double acting portable pump, a base having spaced upstanding sides and a top plate connecting the sides, a pair of cylinders arranged on the base, contacting with the sides and with each other, a piston in each cylinder, a bypass in the respective sides of the cylinders and establishing communications between the top and adjacent to the bottom of the respective cylinders, check valves in the bypass adjacent the connections thereof with the cylinders, a fluid inlet pipe connected with one of the bypasses, a fluid outlet pipe connected with the second bypass and means for reciprocating the pistons.

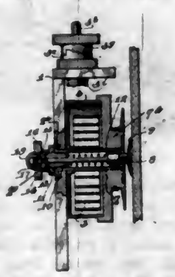
1,662,721. METALLIC AWNING. GEORGE R. SCHNEIDER, Miami, Fla. Filed Mar. 22, 1927. Serial No. 177,362. 1 Claim. (Cl. 189—55.)

A combined blind and awning comprising a pair of superposed sections, means for hinging them together, said lower section foldable to abut against said upper section, said sections having coacting means for maintaining them in abutting engagement, means for swingingly suspending said upper section, shiftable means engaging with said swinging means for angularly adjusting said



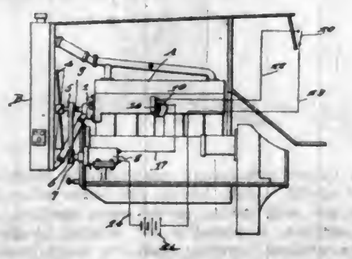
sections when in abutting engagement, and means connected with the upper section for maintaining the section in angular position.

1,662,722. MEANS FOR OPENING OR CLOSING SLIDING WINDOWS AND THE LIKE. HENRY SMITH, London, England. Filed May 11, 1926. Serial No. 108,375. 4 Claims. (Cl. 16—198.)



1. An arrangement of the character described, the combination of a frame and a window slidable therein, of a bracket fastened to the frame, a shaft carried with the bracket, a window actuating device mounted exteriorly of the shaft and flexibly connected with the window, adjustable control means for the actuating device, and secondary holding means mounted interiorly of the shaft for engagement with the window to prevent movement of the window.

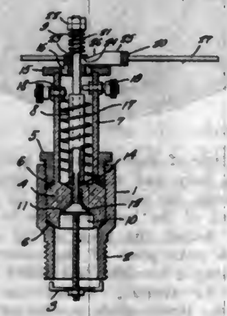
1,662,723. FLUID-CONTROLLING MEANS. CHESTER L. SNOW, Washington, D. C. Filed Mar. 7, 1927. Serial No. 173,541. 1 Claim. (Cl. 123—178.)



The combination with an internal combustion engine and its cooling system, together with the radiator of the latter, of a fluid pump in communication with the fluid

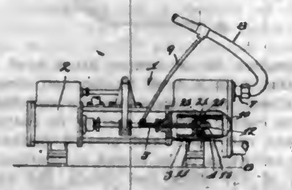
jacket of the engine and radiator respectively, an electric motor supported by the engine, means between said electric motor and pump for operating the latter, a housing arranged in the fluid jacket, a thermostat disposed in said housing so as to be acted upon by the temperature of the fluid in the jacket, a closure for said housing, a rod passing through the closure and secured to a portion of the thermostat for movement thereby, a rheostat disposed in close proximity to the housing, a shaft included in said rheostat, an arm normally depending from said shaft and having connection with said rod, a contact member secured to said shaft for movement on the resistance unit of the rheostat, a source of energy, and conductors between the source of energy, motor and rheostat respectively.

1,662,724. SPARK PLUG. CHARLES M. TANSILL, Woodlawn, Md., assignor of one-third to Charles E. Nolte and one-third to Walter E. Windsor, Baltimore, Md. Filed July 23, 1926. Serial No. 124,482. 5 Claims. (Cl. 123—169.)



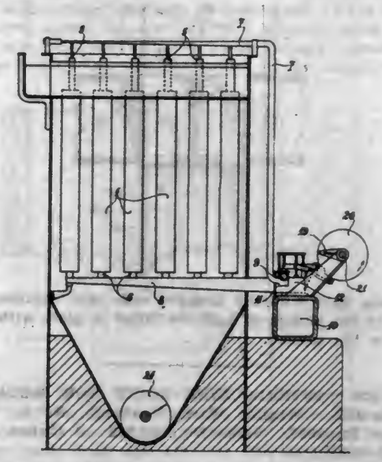
1. A spark plug of the character described comprising a shell, a core including a housing and secured therein, a sleeve included in said core and rising therefrom, an electrode mounted for movement in said sleeve, core and shell, a cap for said housing and being provided with openings for admitting air within said housing, means carried by said electrode for controlling the air passing through said core, compression means for said last mentioned means and including a coil spring surrounding said electrode, adjusting means for said spring and receiving one of the end convolutions thereof, a washer receiving the opposite end convolution thereof, cam means movable on said electrode and engageable with said washer for changing the compression of said spring for regulating movement of said electrode, whereby the air controlling means is regulated accordingly.

1,662,725. PISTON. CHARLES BARFIELD TONEY, Jr., Los Angeles, Calif. Filed Jan. 27, 1927. Serial No. 163,910. 7 Claims. (Cl. 74—109.)



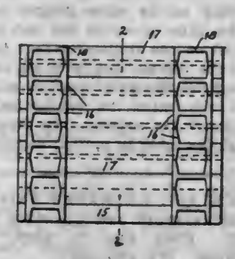
1. In the art described, the combination of a cylinder, a piston having a resilient packing thereon, a hollow piston rod, there being a chamber between the packing and the rod, ports through the rod to said chamber, a discharge pipe operatively connected to the cylinder, and means to by-pass some of the fluid pumped from such discharge pipe to the hollow piston rod, such fluid expanding the packing against the cylinder.

1,662,726. FILTERING APPARATUS. JEAN BAPTISTE VERNAY, Villeurbanne, France. Filed Feb. 16, 1927, Serial No. 168,736, and in France Feb. 24, 1926. 7 Claims. (Cl. 210—184.)



1. A filtering apparatus, comprising in combination a set of filtering cells of substantially cylindrical shape, each having an inner perforated tube extending therethrough from end to end; a tank wherein said cells are disposed, adapted to contain a diluted mixture of liquid and solid matter to be filtered; the upper ends of said tubes being connected to a source of fluid under pressure and their lower ends to a low-pressure line; valves in both connections; and means for automatically operating said valves in order to connect said cells alternately with the low-pressure line through the lower ends of their tubes and with the fluid under pressure through the upper ends of said tubes.

1,662,727. METALLIC BONDING FOR CONCRETE SUPPORTS. WESLEY WAIT, Newburgh, N. Y. Filed Feb. 9, 1927. Serial No. 167,006. 7 Claims. (Cl. 72—77.)

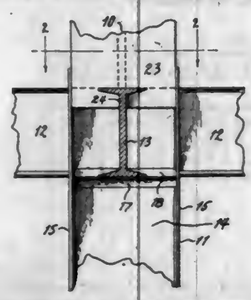


1. A metallic bonding structure including walls in angularly disposed relation, each wall comprising a series of superimposed channel irons arranged with their flanges in abutting relation and with the channel irons of one wall breaking joint with the channel irons of the other wall, and an interlock connection between the channel irons of both walls that mutually break joint.

1,662,728. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Feb. 9, 1927. Serial No. 167,009. 5 Claims. (Cl. 189—36.)

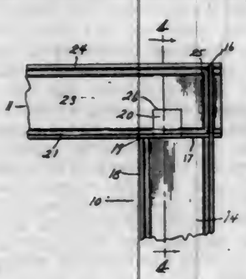
1. In an interlocking joint for metallic frames, the combination with a column formed of upper and lower H-shaped sections having mutually engaged ends with

their webs normal to each other and spaced apart, and girders having ends seated between the mutually engaged ends of the column sections and between the webs of said



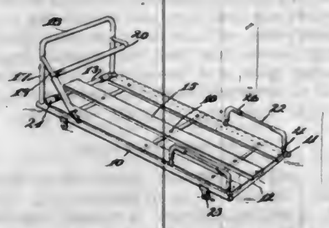
sections, said mutually engaged ends also engaging the ends of the girders to hold the latter in place with relation to the column.

1,662,729. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Mar. 31, 1927. Serial No. 180,012. 3 Claims. (Cl. 189—36.)



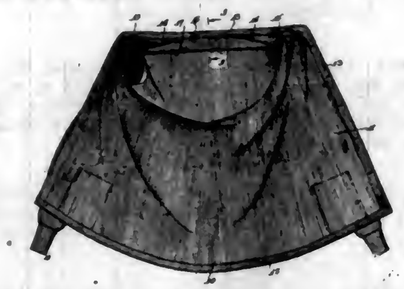
1. The combination of a column with a girder in transverse interlocking relation, each being formed with a web and flanges on both sides at each edge of the web, said column at the interlock having one flanged side and the web cut away to form a transverse seat coextensive at its outer part with the cross-area of said side and said column also having in its other flanged side a longitudinal slot in the same plane as the web thereof; said girder being seated on the transverse seat formed in the cut-away side of the column and with an intact part of the girder imposed on the outer part of said seat, said girder having its web fitting the longitudinal slot in the other flanged side of the column, the flanged sides of the column and girder being in mutual engagement.

1,662,730. TRUCK FOR BATHTUBS AND THE LIKE. EDWIN G. WERTENBERGER and CLARENCE KLEIST, Los Angeles, Calif. Filed Aug. 9, 1926. Serial No. 128,134. 3 Claims. (Cl. 280—49.)



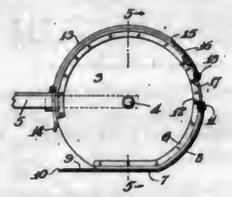
1. A truck of the class described comprising a truck floor mounted upon caster wheels, means providing an end wall on one end of the floor, an inclined bar secured to a side of the end wall and extending downwardly therefrom to the side of the floor, and a horizontal bar having one end secured to the other side of the end wall and the other end secured to the inclined bar, said horizontal bar being disposed inwardly from the end wall so as to keep articles placed on the truck from contacting with the end wall.

1,662,731. SWEATER. JACOB ZIMMERMAN, Philadelphia, Pa., assignor to Paramount Knitting Mills, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 29, 1927. Serial No. 187,620. 1 Claim. (Cl. 2—90.)



As a new article of manufacture a knitted coat sweater including a body and sleeves, a marginal band attached to the body, the ends of which lie along the adjacent front edges of the body and the intermediate portion of which defines the neck of the garment, a removable narrow yoke piece of sag resisting reinforcing material including a straight free lower edge extending from armhole to armhole within the garment, the upper edge of the intermediate portion of the yoke lying substantially parallel with its lower edge and being attached to that portion of the band lying between the ends of the shoulder line of the sweater, the ends of said upper edge being inclined downwardly relatively to the lower edge and coincident with and attached to the shoulder lines of the garment, the relatively narrow ends of the yoke itself being connected to the sleeves at the armholes.

1,662,732. EXTENSION FOR SCRAPER BOWLS. JOHN ADAMS and WILLIAM H. ADAMS, Burlington, N. J. Filed Mar. 26, 1927. Serial No. 178,696. 5 Claims. (Cl. 37—140.)



1. An extension for a scraper hitch bowl comprising in combination with a bowl having end discs provided with a rear wall and flanges on the end discs, an extension plate curved in cross-section to conform to the flanges of the end discs, and pivoted fasteners on the ends of the extension to be moved in position to overlie the flanges of the discs and retain the extension in position.

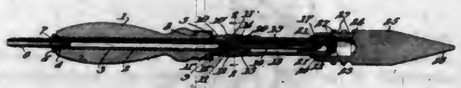
1,662,733. WIRE STRETCHER. CHARLES A. ALDERSON, Virden, Ill. Filed Dec. 31, 1926. Serial No. 158,284. 3 Claims. (Cl. 254—77.)

1. A fence wire stretcher comprising a standard having an offset plate adjacent the lower end thereof, an elongated and apertured plate provided with offset end portions carried upon one side of the standard at right angles to that of the offset plate, an operating lever pivotally mounted off center at an appropriate point in the length of the standard and elongated plate and within the space defined therebetween, a cross arm carried



upon one end of the operating lever adapted to engage the upper portion of the wire and to stretch the latter from the offset plate, and a pawl detachably mounted upon the standard adapted to follow and lock the operating lever in a desired position during the stretching of the wire.

1,662,734. SOLDERING IRON. HARRY J. BAKER, Indianapolis, Ind., assignor to The Prest-O-Lite Company, Inc., a Corporation of New York. Filed Aug. 11, 1925. Serial No. 49,610. 5 Claims. (Cl. 158—26.)



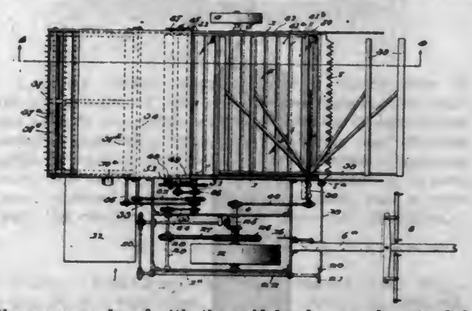
1. A soldering iron comprising a gas passage terminating in a nozzle, said passage also having a throat intermediate its ends and air inlet means between said throat and said nozzle; a mixing chamber into which said nozzle discharges; a soldering bit having a combustion chamber provided with exhaust means; and a burner tip communicating with said mixing chamber and projecting into said combustion chamber.

1,662,735. PROCESS OF MAKING ALKALI-METAL SULPHYDRATES. HARRY P. BASSETT, Cynthiana, Ky. Filed Dec. 15, 1925. Serial No. 75,643. 9 Claims. (Cl. 23—134.)

7. In the production of sodium sulphydrate, the steps comprising crystallizing out a portion of the sodium sulphide contained in a solution of sodium sulphide, treating the mother liquor with sodium acid sulphate to produce hydrogen sulphide and sodium sulphate and reacting upon a solution of the sodium sulphide crystals with the hydrogen sulphide to produce sodium sulphydrate.

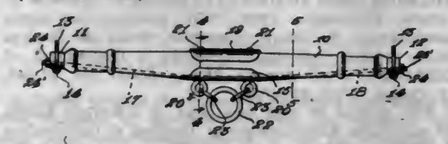
1,662,736. HARVESTER THRASHER. ROBERT D. BROWNING, Orange, Va., assignor of one-third to C. M. Crafton, Orange, Va., and one-third to Edward V. Breeden, Gordonsville, Va. Filed Apr. 19, 1926. Serial No. 103,127. 15 Claims. (Cl. 56—128.)

1. In a combined harvesting and thrashing machine, the combination of a wheel supported main frame, a reel journalled transversely on said main frame at the front end thereof, cutting mechanism across the front end of the frame, an elevator conveyor extending from a point adjacent to said cutting mechanism to the upper rear portion of the frame, a pressure drum with means adapted to maintain the same pressed downward the rearwardly moving end of the elevator, means to drive said elevator and said pressure drum at the same peripheral speed, to move together, whereby grain laid thereon by the reel with the heads or pods rearwardly will be held by the combined motion of the elevator and



the pressure drum with the said heads or pods extended while the stems thereof are held tightly when the end of the elevator is reached, and a thrasher journalled beyond said pressure drum and elevator and adapted to beat the grain out of the extended heads or pods while thus held into an open space beneath the thrasher whereby the grain and straw after beating may fall continuously away from the beater.

1,662,737. NECK YOKE. CARROLL C. CARTER, Cairo, Ill. Filed Mar. 5, 1927. Serial No. 173,118. 1 Claim. (Cl. 278—119.)



A device of the class described, comprising an elongated member having longitudinal channels therein, a truss including a central plate member and laterally extending arms, the arms resting in the channels, means connecting the plate member with the elongated element, the central portion of the plate and the adjacent portions of the arms merging in approximately the same plane at the points where the arms enter the channels and means connecting the arms, at their ends, with the end portions of the elongated member.

1,662,738. SANITARY DEVICE FOR REPELLING MOSQUITOES AND OTHER INSECTS. CHARLES P. COOGLE, Greenwood, Miss., assignor to United States of America. Filed Sept. 6, 1927. Serial No. 217,818. (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.) 5 Claims. (Cl. 299—24.)

1. A sanitary device for repelling mosquitoes comprising a perforated body, a perforated bottom, an imperforate top for said body, and a perforated ventilating column positioned within said body and spaced therefrom so as to provide a chamber within said body for the purpose of receiving chemicals or other odorous substances.

5. A sanitary device for repelling mosquitoes comprising a wire mesh body, a wire mesh bottom for said body of larger diameter than the diameter of said body and having upturned edges engaging the side walls of the body, said body and bottom including end strands of wire interlaced with each other to secure said bottom to said body, a wire mesh ventilating column within said body and spaced therefrom to form an annular chamber for the reception of chemicals or other odorous substance, said ventilating column having vertical wire

strands at the bottom thereof passed through and clinched upon the underside of the bottom to affix said ventilating column to said bottom and to hold said ventilating column in substantially vertical position within said body, an imperforate conical top the base of

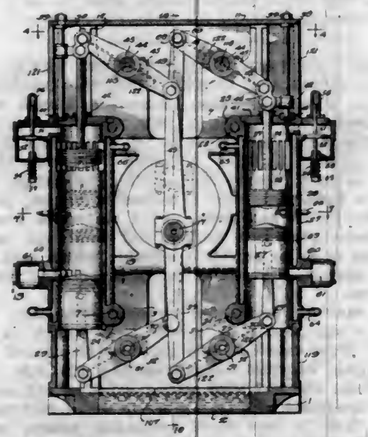


which is of substantially the same diameter as the said body and fitted therein, the upper end of said body being crimped and folded upon said conical top, and means for suspending the device, substantially as described.

1,662,739. METHOD OF HEAT TREATMENT OF ALUMINA AND OTHER MATERIALS. THOMAS S. CURTIS, Huntington Park, Calif., assignor, by mesne assignments, to Pacific-Southwest Trust & Savings Bank, trustee, Los Angeles, Calif., a Corporation of California. Filed Apr. 7, 1925. Serial No. 21,349. 11 Claims. (Cl. 23—142.)

8. The method of heat treatment of difficultly fusible solid materials which comprises forming a fragmentary body of material to be treated and burning an explosive mixture of gas and air in direct contact with such fragmentary body to heat the same and cause a change in the properties thereof.

1,662,740. INTERNAL-COMBUSTION ENGINE. ROBERT L. DENNISON, New York, N. Y. Filed Dec. 22, 1924. Serial No. 757,547. 4 Claims. (Cl. 123—51.)

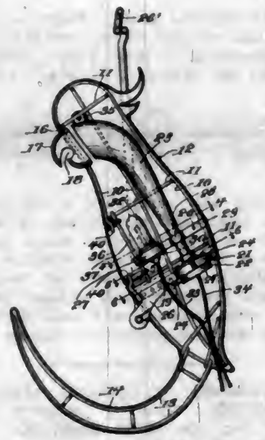


3. In an internal combustion engine, a cylinder having an inlet opening adjacent one end and an exhaust opening adjacent the other end, the central portion of said cylinder forming the explosion chamber, a pair of pistons mounted in said cylinder, a vertically reciprocating piston rod connected to one of said pistons, a cross head secured to said piston rod, a guide rod arranged adjacent said piston, a portion of said cross head being adapted to receive said guide rod, a link pivotally secured to said cross head adjacent said piston rod, a short connecting rod connected to the other piston, rocker arms pivotally mounted adjacent the ends of said cylinder and connected to said link and said short connecting rod, connecting rods connected to said rocker arm, a crank shaft arranged adjacent said cylinder, and crank pins mounted on said shaft diametrically opposite each other and connected to said connecting rods.

1,662,741. PAINTS, ENAMELS, JAPANS, AND THE LIKE. DANIEL GARDNER, Weybridge, England. Filed Aug. 6, 1922, Serial No. 656,119, and in Great Britain Aug. 21, 1922. 7 Claims. (Cl. 134—39.)

1. A non-aqueous colloidal lead-free paint, enamel, japan or the like, including a pigment and a vehicle, the pigment comprising a base constituent and at least one filler constituent, the oxide of said base constituent being positively charged relatively to the charge carried by the oxide or oxides forming the filler, and all the constituents introduced into the vehicle being compounds of the same metal as that in the base.

1,662,742. LOUD SPEAKER. JACK A. GLASSMAN, Chicago, Ill. Filed Feb. 23, 1927. Serial No. 170,391. 4 Claims. (Cl. 181—27.)
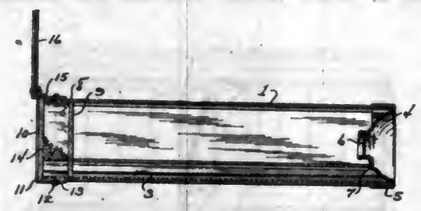


1. In a loud speaker, a hollow member shaped to conform to the shape of a bird provided with feet and having an open mouth to provide a sound outlet, said member comprising a frame and a translucent cover for the frame, spaced spiders secured to and positioned transversely within the frame, a reproducer unit and horn supported by the spiders with the outlet end of the horn located adjacent the sound outlet, and the feet of the bird secured to one of the spiders and extending through the cover, and a support engaged by the feet of the bird.

1,662,743. KALEIDOSCOPE. OSSIAN B. N. HANSON, Warren, Ohio. Filed Feb. 23, 1927. Serial No. 170,325. 2 Claims. (Cl. 88—15.)

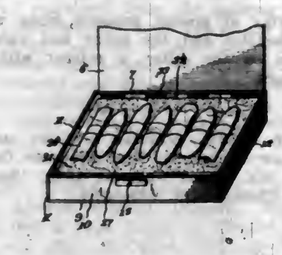
1. A kaleidoscope comprising a tubular body, an eye piece at one end thereof, a cap removably attached to the other end, a triangular shaped casing, a transparent

plate on each side thereof, said casing and plates being held in the body by the cap, a triangular shaped member formed of three mirrors placed in the body between



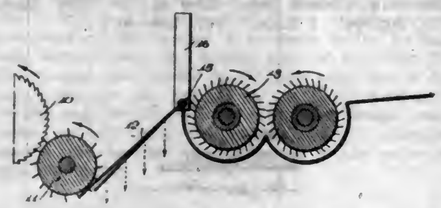
the casing and the eye piece and transparent disks of different colors pivotally connected with the cap and arranged to be moved over the cap end of the device.

1,662,744. DISPLAY CONTAINER. GEORGE W. HARDEN, Jacksonville, Fla. Filed Oct. 27, 1926. Serial No. 144,539. 2 Claims. (Cl. 206—44.)
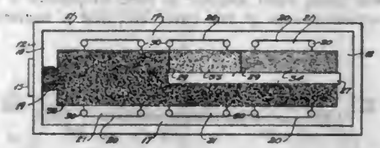


1. A display construction comprising a box body, headed pins mounted therein in a relative conformation approximating the shape of, but greater in dimension than the article to be displayed, said pins having their heads disposed upwardly spaced from the bottom of the box body, and a wadding material compacted in the box body and in and about said headed pins and being caught under the heads of said pins, said wadding having embedded therein within the confines of the pins spaces of an outline to snugly receive the articles to be displayed.

1,662,745. SCREEN FOR COTTON CLEANERS. WILLIAM B. HOUSE, Ada, Okla. Filed Mar. 18, 1927. Serial No. 176,464. 9 Claims. (Cl. 19—67.)



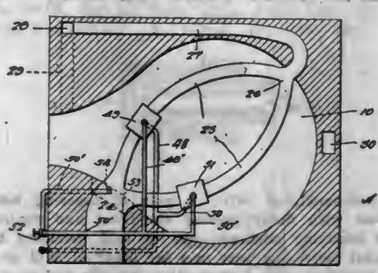
1. In a cotton cleaning apparatus, an apron for receiving the cotton, the cotton moving by gravity on said apron from the receiving end to the discharging end, said apron consisting of means forming a plurality of unobstructed slots paralleling the line of movement of the cotton, and said slots being open at the discharge end of the surface.

1,662,746. ELECTRIC SUPERHEATER. EMIL HOWE, San Gabriel, Calif. Filed Feb. 17, 1927. Serial No. 169,100. 4 Claims. (Cl. 219—38.)



1. In an electric heating device, a casing open at the top, a series of pairs of electrodes supported at opposite sides of the casing, heating resistances of comminuted material contacting with said electrodes and forming paths for current flow between the electrodes of separate pairs, said heating resistances being respectively of powdered charcoal, coffee grounds and sand, and a wire mesh top covering the spaces between said electrodes.

1,662,747. BAKER'S OVEN. BONAVENTURO IZZO, Paterson, N. J. Filed Sept. 10, 1921. Serial No. 499,683. 1 Claim. (Cl. 107—55.)



A baking oven of the character described comprising an oven chamber, a partition dividing the chamber into upper and lower compartments, a fire box arranged at one side of said oven chamber and formed with an upwardly curved portion, said upper compartment forming the oven proper and the lower compartment being a flue compartment, a conduit having one end opening into the curved portion and being formed with oppositely curved branches connected adjacent the walls of the upper compartment in a manner to arrange said branches in a substantially oval shaped formation, an additional conduit establishing communication between the adjacent ends of the curved branches and the lower compartment, said branches merging into the last mentioned conduit, a passage-way in the back wall of the oven and arranged in communication with the atmosphere and with the upper and lower compartments respectively, oppositely disposed independently operable valves controlling the communication between the passage-way and the lower compartment, a similar controlled valve for controlling the communication between the passage-way and the upper compartment and being disposed in the upper rear portion thereof, a water jacket surrounding each of the curved branches of the conduit, means for supplying water to the jackets, means leading from said jackets and communicating with a perforated receptacle having communication with the oven compartment, and means for illuminating said last mentioned compartment.

1,662,748. ARTICLE-SUPPORTING ATTACHMENT FOR IRONING BOARDS. FLORENCE M. JOHNSON, Nampa, Idaho. Filed Mar. 27, 1924, Serial No. 702,360. Renewed Aug. 16, 1927. 6 Claims. (Cl. 68—10.)

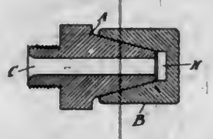
1. The combination with an ironing board, of means for supporting large articles when being ironed comprising two supporting members mounted upon the under

face of the board for sliding movement laterally of said board into a projected position or into a retracted position and entirely beneath the board, said supporting members each being right angular in form to provide a laterally extending arm at the outer end and a horizontally



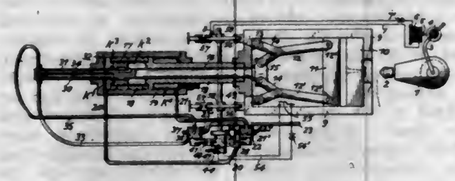
extending element connected at its ends to the upper ends of the arms and projectable or retractable therewith, said supporting members being oscillatable to carry said arms into a plane parallel to the plane of the ironing board or into an upwardly projected position, and means to hold said arms in said last named position.

1,662,749. HOMOGENIZING VALVE. CHRISTIAN JØRGENSEN, Copenhagen, Denmark. Filed Aug. 3, 1926. Serial No. 126,920. 1 Claim. (Cl. 99—2.)



In homogenizing valve, a pair of coacting members provided with finely ground elongated and conical coacting engaging surfaces, one of said members having a central delivering bore and the other of said members being provided with a spreading chamber and connecting with the bore and the engaging surfaces, substantially as and for the purposes set forth.

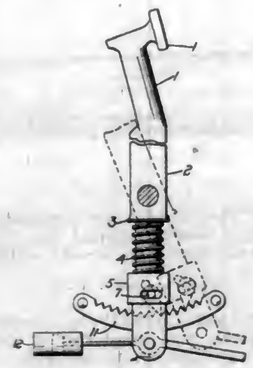
1,662,750. DIE-CASTING MACHINE. ALBERT KAUFMANN, Berlin, Germany. Filed July 17, 1926, Serial No. 123,157, and in Germany Aug. 3, 1925. 7 Claims. (Cl. 22—69.)



1. Die-casting machine comprising an injection nozzle, a frame, a die on said frame, a cylinder adapted to displace said frame with respect to said nozzle, a cylinder inserted in said first cylinder and adapted to control the opening and closing of said die, means for supplying fluid under pressure to said two cylinders, and means for regulating the operation of said supplying means.

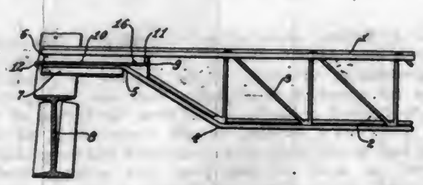
1,662,751. AUTOMATIC LOCK HAND LEVER. ARTHUR LA ROCHELLE, Chicago, Ill. Filed July 23, 1926, Serial No. 124,461. Renewed Feb. 3, 1928. 1 Claim. (Cl. 74—39.)

The combination of a hand lever pivoted between its ends, and provided with a slot, a collar on said lever having a slot therein, a shaft passing through the lever slot and the collar slot, a catch pivotally mounted on said shaft, a spring for normally holding the catch in alinement with the lever, a shoulder on the lever, a spring of greater pressure than said first mentioned



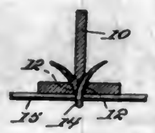
spring, the spring of greater pressure being mounted between the shoulder and the collar and exerting a downward force on the collar, a ratchet with which the catch engages.

1,662,752. BAR JOIST. THOMAS A. LUCY, Asheville, N. C., assignor to Ingalls Steel Products Company, Birmingham, Ala. Filed Aug. 30, 1926. Serial No. 132,400. 16 Claims. (Cl. 189—37.)



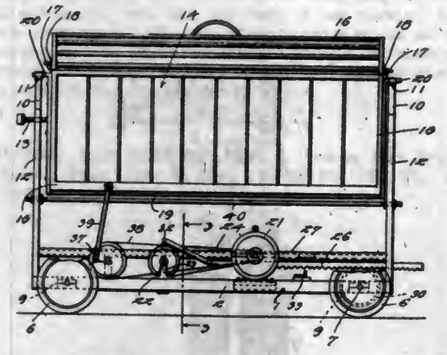
1. A bar joist having upper and lower chords consisting of pairs of bars and joined by a web, and having its ends formed by a gusset plate secured to said chords, said gusset plate having means thereon to engage an anchor.

1,662,753. FENCE-WIRE FASTENING. VICTOR S. MCDONOUGH, Camden, Ohio. Filed Apr. 30, 1926. Serial No. 105,826. 1 Claim. (Cl. 256—54.)



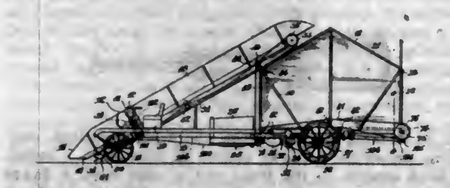
As a new article of manufacture, a metallic fence post having pairs of oppositely and horizontally disposed openings entering the post in alignment and formed obliquely therethrough at spaced intervals along the length thereof, and staples having their respective arms fitted and driven within the openings which cause the arms to diverge outwardly in opposed directions for retaining lengths of wire upon the post.

1,662,754. AUTOMATIC REVERSING SELF-ROCKING CRADLE CARRIAGE. HERMAN H. MILLARD, Corry, Pa. Filed Feb. 10, 1927. Serial No. 167,292. 4 Claims. (Cl. 180—1.)



1. An apparatus of the character set forth, comprising wheels, axles supported by the wheels, a frame mounted on the axles, uprights secured to the frame, a guiding and supporting bar secured to the uprights, a rack bar suspended from the guiding and supporting bar, a pinion mounted upon one of the axles and meshing with the rack bar, a shaft journaled in the frame and provded with a crank connected to the rack bar, a cradle rockably supported by the uprights, a shaft journaled in the frame and provided with a crank connected to the cradle, and shaft operating means.

1,662,755. STOCK LOADER AND CONVEYER. WILLIAM ARTHUR MCQUAY, Dauphin, Manitoba, Canada. Filed Dec. 9, 1924, Serial No. 754,796, and in Canada Sept. 17, 1924. 5 Claims. (Cl. 56—27.)



1. In a machine of the character described comprising a vehicle including a chassis, a body mounted on the rear end of the chassis, said body having an open upper end and an open rear end closure means for the rear end, an inclined elevator means extending upwardly from the forward end of the chassis to a point above the open upper end of the body, means at the forward end of the elevator for picking up and discharging the material in the path of movement of the vehicle onto the lower end of the elevator, a conveyer having its upper lead movable over the bottom floor of the body from the forward end thereof to the rear open end, a common motor on the chassis for relatively driving the vehicle and the loading and unloading means and a clutch operable from the driver's seat to operatively connect the loading and unloading means selectively with the motor.

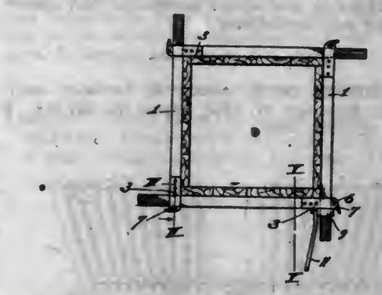
1,662,756. SUPPLEMENTAL OUTSOLE FOR SHOES. BONIFACIO MONTANTE, San Luis Potosi, Mexico. Filed Oct. 31, 1923. Serial No. 671,913. 1 Claim. (Cl. 36—32.)

As a new article of manufacture, a pair of supplemental out-soles adapted to be applied to a pair of shoes for maintaining the shape of the shoe and preventing the entrance of dampness through the sole, said pair of supplemental out-soles each consisting of an inner layer of rubberized canvas and an outer tread layer of vulcanized rubber secured to the inner layer to form an integral part thereof, the said pair of soles having



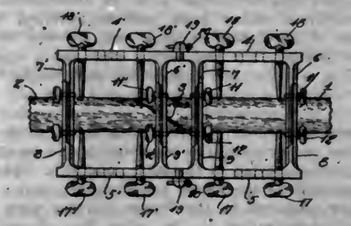
adhesive inner faces on the inner layers thereof, and a strip of separator material interposed therebetween permitting of ready separation of the pair of soles for application.

1,662,757. CAM COLUMN CLAMP. GEORGE F. NEWTON, Kansas City, Mo., assignor of one-half to Sebastian Patti, Kansas City, Mo. Filed Oct. 18, 1926. Serial No. 142,418. 2 Claims. (Cl. 144—291.)



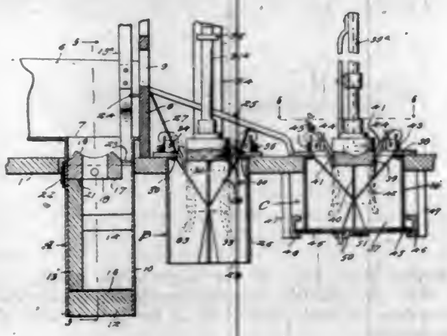
1. In a concrete column clamp, a flat bar, a pair of flat bars fitting against opposite sides of the first-named bar and projecting beyond one end of the same to provide a fork therefor, a lug secured in the fork and against the extremity of the first-named bar so as to be incapable of turning or accidental dislodgment, and provided on its outer edge with a series of vertical teeth facing toward the open end of the fork, and a pivoted cam clamp spaced from the lug and mounted in the fork, to clamp an object extending crosswise through the fork, inwardly against the outwardly-facing teeth of said lug.

1,662,758. FEMUR SPLINT. JAMES H. NICHOLSON and WILLIAM D. CAVIN, Madison, Ga. Filed May 31, 1927. Serial No. 195,470. 4 Claims. (Cl. 128—92.)



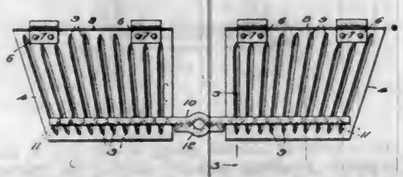
1. A femur splint comprising side bars connected by cradle arms, the side bars on opposite sides of the femur being hinged at their meeting ends, and means passing through the side bars and adapted to penetrate the femur.

1,662,759. SEED-POTATO-CUTTING MACHINE. JOHN R. POLLAN, Fort Smith, Ark. Filed Oct. 8, 1925. Serial No. 61,247. 6 Claims. (Cl. 146—169.)



5. A potato cutting machine comprising a cutting mechanism, a hopper discharging directly into said mechanism, a second cutting mechanism, sorting means forming part of said first cutting mechanism and adapted to permit potatoes of certain sizes only to pass thereto from the hopper and adapted to discharge potatoes of other sizes from the hopper to said second mechanism, and operating means for said mechanisms.

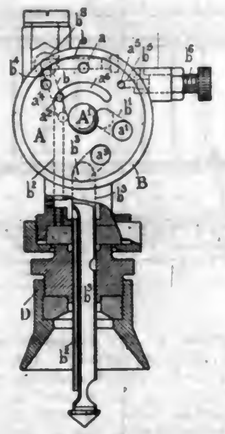
1,662,760. HOPPER DOOR. AUGUST G. SANDMAN, Baltimore, Md. Filed Oct. 27, 1922. Serial No. 597,378. 9 Claims. (Cl. 105—280.)



9. A hopper door for railway dump cars provided with surface configurations over substantially the full area thereof and forming passageways, and a stiffening member connected to said door, said stiffening member being arranged to extend across said surface configurations and being located above the lowermost ends of said passageways to permit self cleaning thereof.

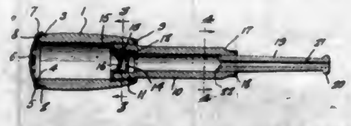
1,662,761. FILLING HEAD OF BOTTLE-FILLING MACHINES. ALBERT WOODALL SMITH, Manchester, England. Filed Aug. 6, 1924, Serial No. 730,481, and in Great Britain Aug. 18, 1923. 1 Claim. (Cl. 225—122.)

In a bottle-filling machine embodying a head having a snift conduit communicating with the atmosphere, a gas inlet conduit, a liquor inlet conduit provided with a valve, and a gas return conduit, and wherein the head carries a gas delivery and escape pipe and a liquor delivery pipe, a valve for controlling said conduits, said valve comprising a disk carried by said head and having a gas inlet port connected to the gas inlet conduit, a gas escape port connected to the gas return conduit, a gas outlet port connected to the gas delivery and escape pipe, a snift port connected to the snift conduit, a liquor inlet port connected to the liquor inlet conduit, and a liquor outlet por conneced to the liquor delivery pipe, all of said ports terminating in the outer face of said disk, said disk also having an arcuate groove formed in its outer face and connected with said gas outlet port; a second disk contacting with and adapted to oscillate relatively to said first-named disk, said second disk having in its contacting face a radial groove always opposite to and in communication with the arcuate groove of said first-named disk and adapted by oscillating movements of said second-named disk to be brought opposite to said gas inlet port, said gas escape port, or said snift port;



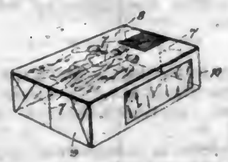
said second-named disk also having a second groove formed in its contacting face and adapted, when said radial groove is opposite said gas escape port, to register with and establish communication between the liquor inlet port and liquor outlet port of said first-named disk.

1,662,762. SMOKING DEVICE. ORA E. TATE, Sr., Elberton, Ga. Filed Feb. 18, 1927. Serial No. 169,289. 4 Claims. (Cl. 131—22.)



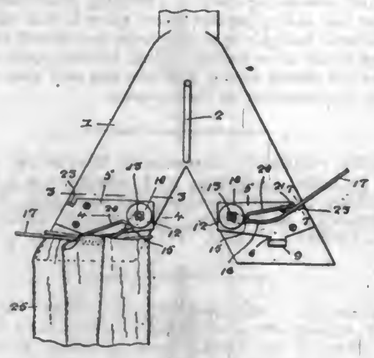
4. A smoking device of the character described comprising an elongated bowl opened at both ends, a metallic band secured to the front end of said bowl, a flange included in said band and disposed within the bowl, an apertured closure pivotally secured to said band, means formed with said apertured closure for securing the same in operative position to close the front end, a stem and mouth piece telescopically associated with the bowl, and means for retaining said stem and mouth piece in their inoperative positions and including a shell adapted to be disposed between the bowl and mouth piece when the device is folded, a ring formed on the shell and a thimble frictionally held on said shell and being engageable with said ring.

1,662,763. PACKAGE. VOLNEY WAYNE THOMSON, El Paso, Tex. Filed June 2, 1924. Serial No. 717,396. 4 Claims. (Cl. 229—51.)



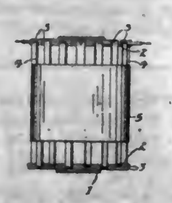
1. A merchandise package comprising, in combination, an inner tubular wrapper having its longitudinal edge portions overlapping each other on one face of the package and its end portions interfolded to form a closed container in such a manner as to facilitate the separation of the folds on the three sides, and an outer wrapper completely enveloping said inner wrapper, said outer wrapper being provided with a line of weakening extending across said face and the ends of the package, in close proximity to said overlapping portions of the inner wrapper, whereby the folded portions and the overlapping portions of the inner wrapper are readily separated when the outer wrapper is broken.

1,662,764. BAG HOLDER. OTTO E. TOMAN, Pine City, Minn. Filed Apr. 8, 1927. Serial No. 182,127. 2 Claims. (Cl. 83—26.)



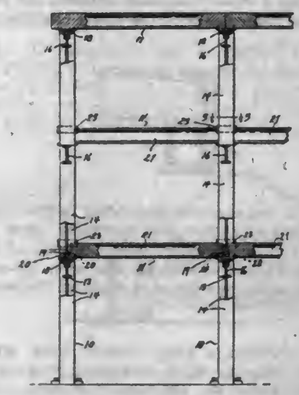
1. A bag holder for a spout or hopper including angle plates fixed on one of the sides of the spout or hopper, adjacent to the mouth thereof, and the lateral portions of said plates being arranged in a line with the edges of said spout or hopper and a flat plate fixed on the opposite face of the spout or hopper, said flat plate having a reduced depending portion on its lower edge which is flanged outwardly and from thence upwardly to provide a hook, the outer lip of the hook having its corners rounded, a pivotally supported spring influenced lever on the plate movable into the hook but of a width not to contact with the outer element of the hook, an angle finger on the plate disposed adjacent to one of the corners thereof, and a lug on the lever engageable with said finger for holding the lever raised away from the hook.

1,662,765. ADJUSTABLE COIL MOUNTING. RICHARD VARLEY, Englewood, N. J., assignor to Varley Duplex Magnet Co., a Corporation of New Jersey. Filed Nov. 23, 1926. Serial No. 150,366. 6 Claims. (Cl. 175—359.)



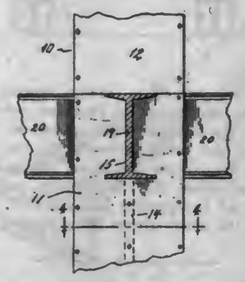
1. A coil mounting, comprising a core adapted to have a coil mounted thereon, and spaced end plates adjustably mounted upon said core, means for securing said plates in any desired position lengthwise of the core against a coil, and means for locking the plates in their secured position to the coil so as to prevent relative movement thereto.

1,662,766. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Feb. 9, 1927. Serial No. 167,007. 3 Claims. (Cl. 189—36.)



1. In an interlocking joint for metallic frames, the combination with a column of I-section, a transverse support between the flanges on one side of the column, a girder having an end positioned on the transverse support between the flanges of the column, and a yoke carried on the column and engaging the girder to hold the latter in upright position on the support.

1,662,767. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Feb. 9, 1927. Serial No. 167,008. 3 Claims. (Cl. 189—36.)

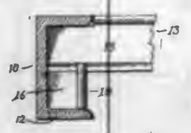


1. In an interlocking joint for metallic frames, the combination with a column formed of upper and lower sections of H-shape, each section having an end with the web removed between the flange sides and said sides having slots therein in the same plane as the web of the section, said sections being interfitted with the ends of the flange sides of one section seated between similar ends of the other section and with the webs of the two sections normal to each other, and flanged girders seated in the slots in the ends of the column sections, the flanges of said girders being notched for the insertion of the flange sides of the column sections.

1,662,768. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Mar. 31, 1927. Serial No. 180,011. 1 Claim. (Cl. 189—36.)

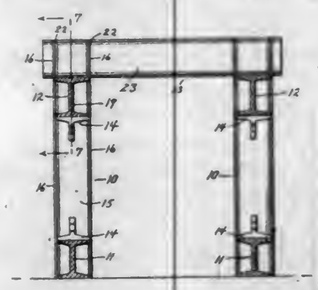
The combination with a horizontal channeled girder having a mortise notched in its upper flange and also having a socket in its lower flange opposite to the mortise, of a horizontal beam entering at one end the channeled side of the girder to abut the web thereof, said beam having upper and lower flanges on both sides with the upper flanges flush with the upper flange of the girder,

said upper flanges of the beam being oppositely notched to form a tenon engaging the mortise, the lower flanges of the beam being transversely slotted adjacent the end of the beam, and a chair interposed between the end of the beam and the lower flange of the girder comprising a body



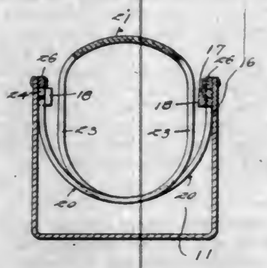
part having a lug engaging the socket in the lower flange of the girder and a face part extending above the body part, said face part being vertically bifurcated to extend through the transverse slots in the lower flanges of the beam and on opposite sides of the web of the beam.

1,662,769. INTERLOCKING JOINT FOR METALLIC FRAMES. WESLEY WAIT, Newburgh, N. Y. Filed Mar. 31, 1927. Serial No. 180,013. 4 Claims. (Cl. 189—36.)



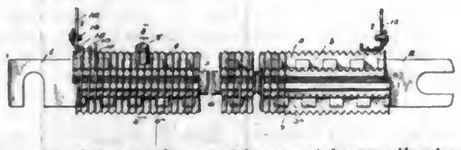
1. The combination of a column having a web and flanged sides at each edge of the web, with girders interlocked with the column, said column at the interlock having its web cut away between the flanged sides to form an upper transverse abutment, the web also having a median longitudinal slot to form a lower transverse abutment, one of the girders being seated on the lower abutment and the other girder being seated on the upper abutment.

1,662,770. CUSHION TIRE FOR WHEELS. HOMER A. WELLS, Rico, Colo. Filed Apr. 12, 1927. Serial No. 183,112. 4 Claims. (Cl. 152—8.)



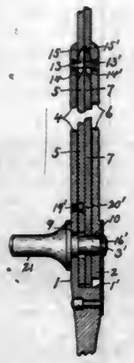
1. In a cushion tire for wheels, an annulus embodying spaced opposed walls, a plurality of plates combining to produce a ciphered annulus, each of said plates having a curved extension forming a spring whereby the plate is supported, the terminal portions of said springs being secured to one of confronting faces of the walls of the annulus.

1,662,771. RESISTANCE UNIT. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed May 8, 1926. Serial No. 107,613. 6 Claims. (Cl. 201—63.)



5. A resistance unit comprising a metal supporting bar, an insulating covering thereon composed of refractory material, said covering having a plurality of toothed ribs and intervening channels extending longitudinally of the bar and having pockets spaced apart in said channels, a connector having a base resting on one of said ribs and having forked arms projecting into adjacent pockets, and a wire coil wound around said ribs and said base and securing the connector to the covering.

1,662,772. SHEARS. CLARENCE H. WILKES and GEORGE E. CALHOUN, Amsterdam, N. Y., assignors to A-Kee-Na Products Company, Incorporated, Amsterdam, N. Y., a Corporation of Delaware. Filed Nov. 8, 1926. Serial No. 147,082. 1 Claim. (Cl. 30—13.)

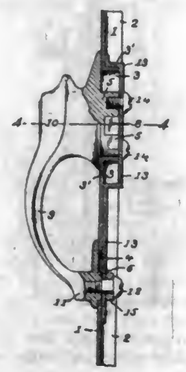


In a shears, a pair of levers crossing each other, separate shearing blades detachably applied to the inner faces of the front arms of the levers to overlap at the crossing, a pivotal stud secured to one lever and projecting through registering apertures in the other lever and blades, the blade attached to the stud-carrying lever having an elongated aperture to allow limited lengthwise movement thereof relatively to its supporting lever, means for locking said blade and preventing such lengthwise movement, and a latch on the stud-carrying lever movable into and out of engagement with the other lever for holding the latter against axial displacement from the pivotal stud.

1,662,773. LOCKING MECHANISM FOR LOCKERS. FRANK ALBACH, St. Louis, Mo., assignor to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 16, 1927. Serial No. 184,266. 8 Claims. (Cl. 70—91.)

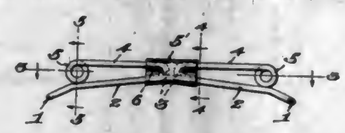
1. In a locking and latch operating mechanism for locker doors, the combination of a locker door provided with an elongated guide orifice having holding notches at its respective sides, a slidingly mounted operating handle provided with an inwardly extending guide extension adapted for movement in the guide orifice of the locker door, said guide extension having a transversely arranged guide slot at its rear end, a transverse bolt having movement in said guide slot and adapted for

locking engagement in a side notch of the locker door orifice aforesaid, said transverse bolt forming a member of a block mechanism arranged in the guide extension



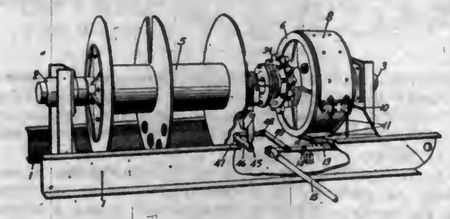
of the handle, and means for holding said operating handle in position on the locker door, said handle being adapted for operative engagement with the latching means of the locker door.

1,662,774. SOFT-COLLAR HOLDER. LAWRENCE E. BARR, Attleboro, Mass., assignor to The Baer & Wilde Company, Attleboro, Mass. Filed July 8, 1927. Serial No. 204,331. 5 Claims. (Cl. 24—81.)



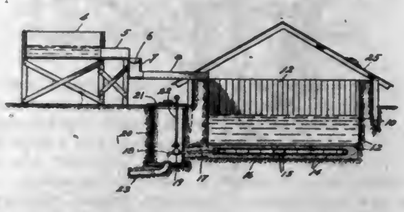
1. In a soft collar holder, a sheet metal clamp having open ends and a pair of collar engaging members each composed of wire doubled upon itself intermediate the end of the wire to form a rear jaw, one end portion of the wire being curved to overlie the rear jaw and forming a front jaw and having the terminal of said end portion curled to form a grip which engages the rear jaw, the curved parts of the members being received in the respective open ends of the clamp and the latter being pinched to frictionally hold the members to the clamp.

1,662,775. SAND-REEL STRUCTURE. RICHARD R. BLOSS, ROY C. PFEIL, and ELMER B. MAURER, Columbus, Ohio, assignors to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed May 21, 1927. Serial No. 193,332. 26 Claims. (Cl. 192—17.)



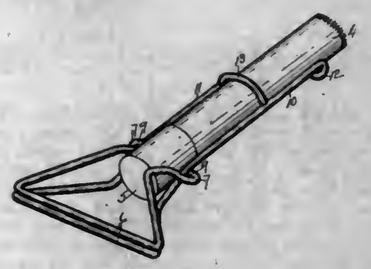
11. Sand reel structure comprising a sand reel shaft, a drum, clutching mechanism insertible into said drum and operable against the interior thereof, said mechanism embodying an expansible band structure and operating cam therefor, said band structure and operating cam being removable as a unit.

1,662,776. APPARATUS FOR SLAKING LIME INTO LIME PUTTY. DAVID A. EVANS, Kansas City, Mo., assignor to The Evans Lime Putty Company, Kansas City, Kans., a Corporation of Kansas. Filed Dec. 14, 1925. Serial No. 75,285. 3 Claims. (Cl. 23—287.)



1. Apparatus for the curing of lime putty comprising a floor of lumber for supporting the putty mass, a layer of filter material in position for draining off the excess water from the putty mass, drainage means for conducting off said excess water from the filter material, and a wall structure superposed above and surrounding said floor to a height for maintaining the top level of the putty mass above the receiving points of said drainage means.

1,662,777. MOP HOLDER. FREDERICK C. HOFFMAN, West Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 26, 1926. Serial No. 97,709. 3 Claims. (Cl. 15—160.)

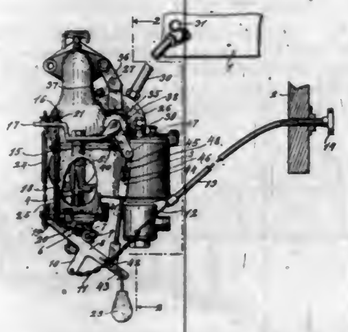


1. A mop holder comprising a handle provided with pivot bearings near one end thereof, a pair of frames carried by said handle, each frame comprising a member having a pintle pivoted in one of said bearings, a jaw extending transversely of the handle end, and a bowed portion abutting the jaw and pintle, a free shank connected with the free end of the jaw, the shank of one frame passing through the bowed portion of the other frame and normally extending along the handle when the jaws are in clamped position, and means on each of the shanks for locking the same to the handle with the jaws in clamping position.

1,662,778. THERMOSTATIC CARBURETOR CONTROL. HAVARD FARMER HUDSON, Wichita, Kans. Filed Mar. 30, 1925. Serial No. 19,326. 2 Claims. (Cl. 261—39.)

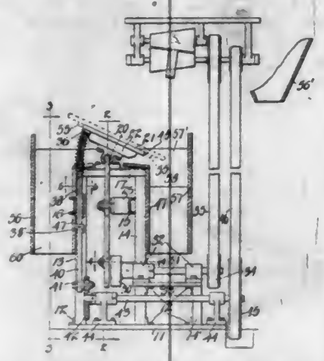
1. In a carburetor, having a movable member for varying the richness of the fuel mixture, means for exerting a continuous force tending to move the member to lean mixture position, manually operable means for moving the member to rich mixture position, thermo-responsive means for holding the member against return to lean mixture position while the thermo-responsive

device is cold, but permitting it to return to lean mixture position when the thermo-responsive device becomes heated above a predetermined temperature and



means permitting the manually operable means to return to normal position independent of the position of said holding means.

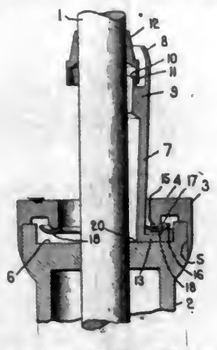
1,662,779. MECHANICAL SHAKER FOR CERAMIC TILE. LOUIS S. JONES, CARL G. HENRIKSON, and GARFIELD W. FISHER, Anderson, Ind., assignors, by mesne assignments, to The National Tile Company, Anderson, Ind., a Corporation of Ohio. Filed Apr. 4, 1925. Serial No. 20,823. 12 Claims. (Cl. 154—1.)



1. The combination of means for supporting a mounting board for tiles, means for rocking the board, means for varying the speed of the rocking motion including a lever connected to the supporting means, a crankshaft, a crank adjustably mounted thereon, and connections between the crank and the lever, substantially as set forth.

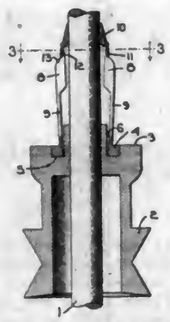
1,662,780. BOBBIN-CLUTCHING MEANS FOR ROTATABLE SPINDLES. JOSEPH A. MILLER, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 17, 1926. Serial No. 136,044. 2 Claims. (Cl. 242—46.4.)

1. A rotatable spindle comprising a blade, a whirl secured to the blade, and presenting an annular surface transversely of, and surrounding, the blade, a plurality of bobbin clutching members each having an arm extending up alongside the blade and a sector-shaped foot projecting outwardly from, and at an acute angle to, the arm and seated on said annular surface, and an annular whirl cap surrounding and spaced from said arms secured to the whirl, and having an annular depending flange located above, and spaced from, the feet between the arms and the periphery of the feet, and a resilient washer engaging on concentric lines the bottom of said flange and the outer portions of said feet, the resiliency of the washer reacting against the flange



and the outer portions of said feet to force the upper ends of the bobbin clutching arms radially outward from the blade.

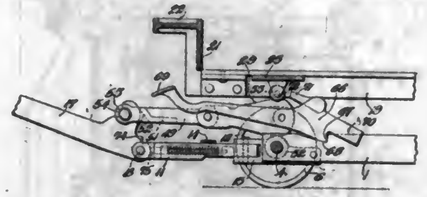
1,662,781. BOBBIN-CLUTCHING MEANS FOR ROTATABLE SPINDLES. JOSEPH A. MILLER, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 5, 1926. Serial No. 146,398. 3 Claims. (Cl. 242—46.6.)



1. A rotatable spindle comprising a blade, a bobbin rest secured thereto, an integral one-piece bobbin clutching sleeve concentric with the blade having a cylindrical lower end rigidly secured in the bobbin rest and spaced from the blade, the said sleeve presenting a plurality of similar upwardly extending arms symmetrically arranged around the blade, said arms being much heavier at their upper free ends than at their intermediate portions and the intermediate portions being resilient, a collar on the blade cooperatively related to the arms to limit the outward, while permiting the inward, movement of the upper free ends of the arms, the said arms first acting yieldingly to engage the bore of the bobbin placed on the blade and seated on the bobbin rest and then, upon rotation of the spindle, acting by centrifugal force firmly to clutch the bobbin.

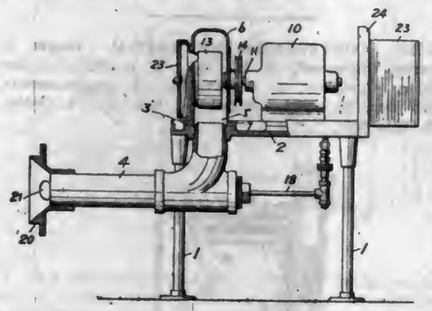
1,662,782. ELEVATING TRUCK. BERNARD E. SCRIVEN, Sound Beach, Conn., assignor to The Excelsior Plimtruck Co., Stamford, Conn., a Corporation of Connecticut. Filed Mar. 15, 1923. Serial No. 625,891. 9 Claims. (Cl. 254—5.)

1. An elevating truck having, in combination, a carriage, an elevating table, means for raising the table on the carriage, a link pivoted on said means, a handle mounted to turn upon a horizontal axis, the handle and the free end of the link being provided with complemental surfaces for connecting the handle and link when the handle is lowered and for initiating a disconnecting movement of the link when the handle is raised, a tension spring secured at one end to the elevating mechanism and at the other to the link, the line of action of the spring passing substantially through the pivotal axis of the link whereby the spring is inoper-



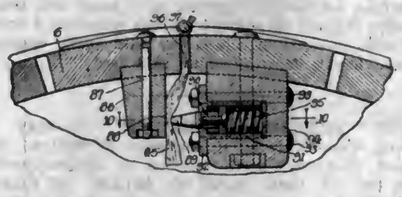
ative when the handle is first raised to impart a positive disconnecting movement to the link and until the line of action of the spring is carried a sufficient distrance from the pivotal axis of the link to render the spring operative to complete the disconnecting of the link.

1,662,783. OIL-BURNER EQUIPMENT. LEROY TABOR, Riverton, and JOHN TAIT, Palmyra, N. J., assignors to The Tabor Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 5, 1927. Serial No. 237,656. 3 Claims. (Cl. 158—28.)



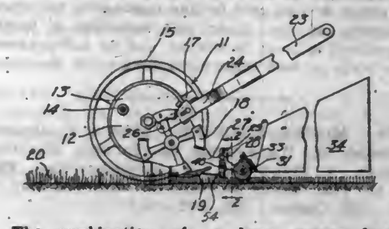
1. Oil burner equipment including a table top having therethrough a burner air pipe opening, a motor mounted on the table top and having a motor shaft, an extension on the motor shaft, a blower mounted on the extension and having its casing turnable into connection with said opening and away therefrom to provide space, a driving pulley on the extension and arranged between the motor and blower, an oil pump mounted on the table top and having a pulley aligned with said driving pulley and arranged above the table top, a belt for said pulleys introducable and removable through said space, and a burner air pipe extending from under the table top and mounted in said opening.

1,662,784. LAUNDRY WASHING MACHINE. WILLIAM P. LABOR, Chicago, Ill. Filed May 14, 1924. Serial No. 718,177. 5 Claims. (Cl. 68—18.)



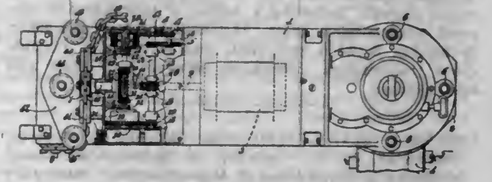
1. In a device of the class described, the combination with a rotary washing drum, of a bag clamp attached to an inner surface of said drum.

1,662,785. LAWN-MOWER COMB ATTACHMENT. JOHN ROBERTSON, Pasadena, Calif. Filed Sept. 13, 1926. Serial No. 135,016. 6 Claims. (Cl. 56—249.)



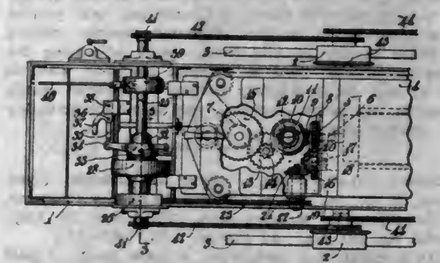
1. The combination of: a lawn mower having a wheeled carriage, a mowing mechanism provided thereon between the wheels thereof, a transverse roller disposed behind said mowing mechanism, and brackets carrying said roller and mounted on said carriage for vertical adjustment thereon; a toothed comb extending transversely between said mowing mechanism and said roller; and adjustable means for mounting said comb on said brackets, so that said comb is vertically movable with said brackets relative to said carriage, said adjustable means being operable to vertically adjust said comb relative to said roller.

1,662,786. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 5, 1919, Serial No. 301,917. Renewed May 11, 1927. 111 Claims. (Cl. 262—30.)



1. The combination with a mining machine frame having a cutter bar projecting from one end thereof, of feeding means including a flexible feeding portion adapted during feeding to cooperate with a fixed point outside the machine frame, and means on said frame cooperating with said flexible feeding portion including a motor and a feed operating member driven thereby and operatively engaging said flexible portion and rotatable on an axis extending longitudinally of the machine frame on the opposite end of said frame from said cutter bar to effect movement of said machine to extend its cut in the direction of said fixed point.

1,662,787. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 1, 1920, Serial No. 385,651. Renewed May 21, 1927. 10 Claims. (Cl. 105—161.)



2. In combination, a mining machine slidable on its bottom on a mine bottom during cutting and including

a motor and feeding mechanism driven thereby through a friction clutch, a truck carrying said machine, truck driving mechanism positively driven by the same end of said motor driving said feeding mechanism but wholly independently of the latter and including a friction clutch controlling truck movement, and an independently operable brake on said truck controlling truck movement.

1,662,788. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 18, 1921, Serial No. 478,473. Renewed May 11, 1927. 133 Claims. (Cl. 262—30.)



1. In a mining machine, the combination with a feed operating member adapted to cooperate directly with flexible feeding means and rotatable upon an axis disposed longitudinally of the machine, of actuating means therefor including a motor, a longitudinally disposed transmission shaft, variable speed transmission mechanism between said shaft and motor, and variable speed transmission mechanism between said shaft and said member.

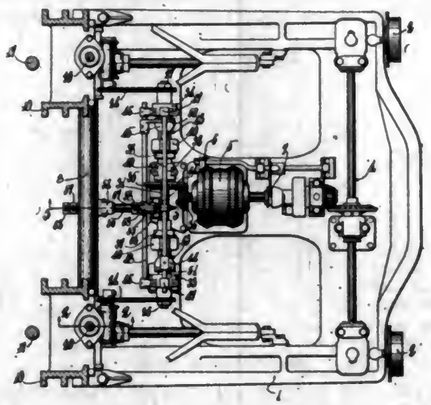
1,662,789. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 18, 1921, Serial No. 485,690. Renewed June 16, 1927. 165 Claims. (Cl. 262—30.)



1. In a mining machine, a frame having a forwardly extending mine bottom engaging portion, a head detachably secured to said frame and overlying said portion and adapted to be in part supported thereon, cutting mechanism carried by said head, means permitting the disposition of said head in different positions with respect to said frame whereby cutting in different planes is possible, and means carried by said frame for actuating said cutting mechanism.

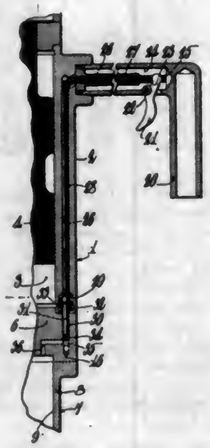
1,662,790. CHANNELER. HENRY H. MERCER, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 25, 1922. Serial No. 546,921. 10 Claims. (Cl. 262—18.)

1. In a channeling mechanism, a main frame, a pair of standards thereon, normally independently or simultaneously operable channeling devices adjustably mounted on said standards and each having usual channeling steels, and means for adjusting said channeling devices



in a direction longitudinally of said steels including control levers separately or simultaneously operable by a single hand of the operator.

1,662,791. CONTROLLING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 26, 1922. Serial No. 609,131. 3 Claims. (Cl. 121—9.)

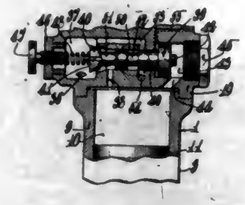


1. In a drilling mechanism, a drilling motor and feeding means therefor adapted to support and advance said motor during drilling, a handle for manually supporting said drilling mechanism arranged at a point well above the center of mass thereof, and means including a valve and flexible controlling means for said valve operable from said handle for controlling said feed.

1,662,792. DRILLING MECHANISM. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 19, 1923. Serial No. 681,598. 28 Claims. (Cl. 121—5.)

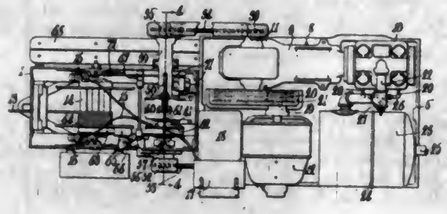
1. In a drilling apparatus, work performing means comprising a plurality of motors, feeding means for said

work performing means comprising a plurality of relatively movable feeding elements, and means effective when an abnormal rate of relative longitudinal move-



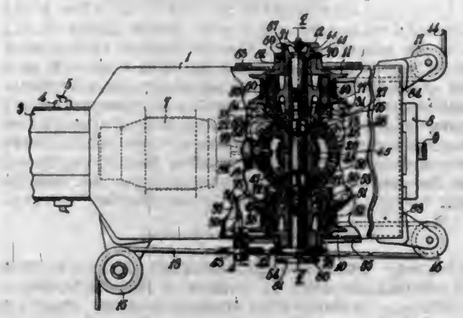
ment between said feeding elements occurs during feeding for automatically varying the power of said feeding means and one of said motors.

1,662,793. COMPRESSOR MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 12, 1924. Serial No. 737,228. 12 Claims. (Cl. 105—27.)



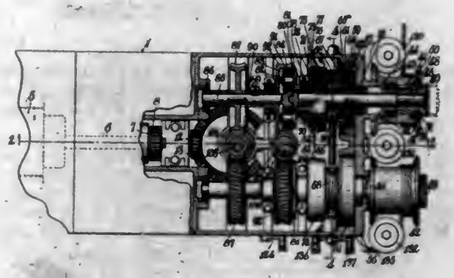
1. In a compressor mechanism, a truck having running gear, a driving motor, reduction gearing, a compressor on said truck including an element driven by said reduction gearing, and driving connections between said element and said running gear.

1,662,794. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Corporation, a Corporation of Massachusetts. Original application filed July 21, 1919, Serial No. 312,846. Divided and this application filed Dec. 11, 1924. Serial No. 755,259. 51 Claims. (Cl. 262—30.)



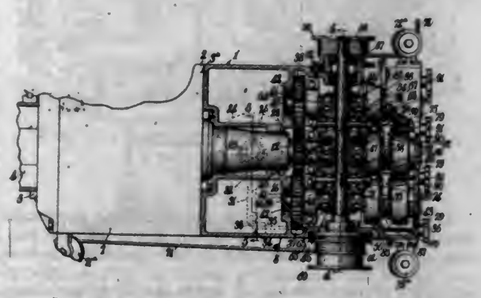
1. In a mining machine, feeding mechanism including a shaft, a feed member and a controlling member each disposed coaxially with said shaft, said feed and controlling members being relatively rotatable and each adapted to cooperate directly with flexible feeding means during machine feeding and to cooperate in effecting guided movements of the machine, and friction means operable to effect simultaneous independent control of said members.

1,662,795. MINING MACHINE. LOUIS A. MAXSON, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 31, 1925. Serial No. 53,554. 55 Claims. (Cl. 262—30.)



1. In a mining machine, a motor, cutting mechanism driven thereby, and feeding means including a feed operating member adapted to cooperate directly with flexible feeding means, and means for actuating and controlling rotation of said member including a plurality of coaxial members, two of which support coaxial gear members and another of which supports planet means meshing with said gear members, means for operatively connecting one of said coaxial members to said feed operating member, and means cooperating with said other coaxial members to cause said member operatively connected with said feed operating member to rotate the latter at a predetermined cutting, a predetermined higher sumping, and a predetermined still higher machine moving speed.

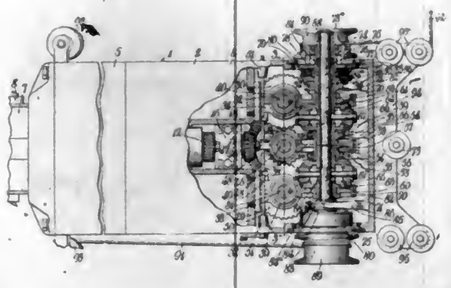
1,662,796. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 31, 1925. Serial No. 53,723. 202 Claims. (Cl. 262—30.)



1. In a mining machine, a motor, and feeding mechanism operated by said motor including a flexible feeding portion, a rotatable feed operating and controlling mem-

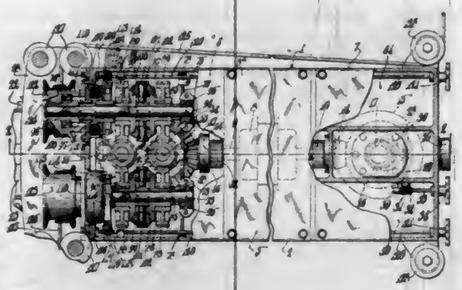
ber cooperating directly therewith, and operating and controlling means for said member including coaxial elements rotating on transversely extending horizontal axes, planet means cooperating with said elements and rotatable thereby, worms operatively connected to said coaxial elements, and means for effecting rotation of said member on orbital movement of said planet means.

1,662,797. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 31, 1925. Serial No. 53,726. 90 Claims. (Cl. 262—30.)



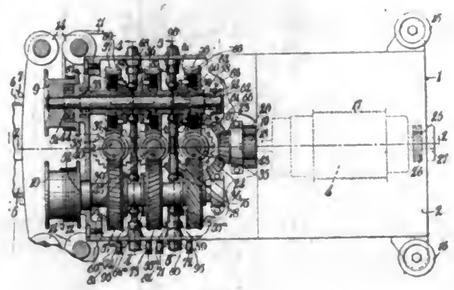
1. In a mining machine, a motor, and feeding mechanism driven by said motor including coaxial elements rotating on transversely extending horizontal axes, planet means cooperating with said elements, and vertical worms operatively connected to said coaxial elements respectively.

1,662,798. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 31, 1925. Serial No. 53,725. 234 Claims. (Cl. 262—30.)



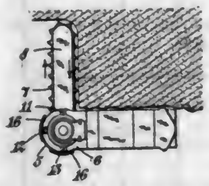
1. In a mining machine, a motor, cutting mechanism driven thereby, and feeding means driven by the front end of said motor comprising a feed operating member, and means for transmitting power to said member including a plurality of coaxial members, two of which support coaxial gear members and another of which supports planet means meshing with said gear members, means for effecting rotation of two of said members by power from said motor, and means connecting the other of said members in driving relation to said feed operating member.

1,662,799. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 31, 1925. Serial No. 53,724. 49 Claims. (Cl. 262—30.)



1. In a mining machine, a driving motor and feeding means driven thereby including a feed operating member adapted to cooperate directly with flexible feeding means and rotatable upon a longitudinally extending axis, and more than two worm gears disposed coaxially therewith and through which said feed operating member is driven at different speeds.

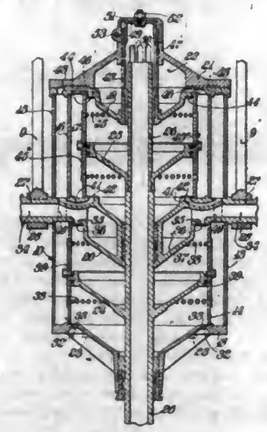
1,662,800. MINING MACHINE. GILBERT RIMMER, London, England, assignor to Sullivan Machinery Company, Chicago, Ill., a Corporation of Massachusetts. Filed Dec. 9, 1926, Serial No. 153,676, and in Great Britain Aug. 6, 1926. 7 Claims. (Cl. 262—30.)



1. In a mining machine of the type whose frame is slidable upon its bottom upon a mine bottom during cutting, a bottom engaging frame, a motor thereon, cutting mechanism actuated by said motor including a cutting member of the jib and chain type adapted to cut a horizontal kerf in the mine wall, and a guide wall supported on said frame and extending around the heel of the jib and forming a compartment arranged at one end to receive the cuttings removed at the leading face of the jib and at the other end to direct said cuttings back into the kerf in rear of the following face of the jib.

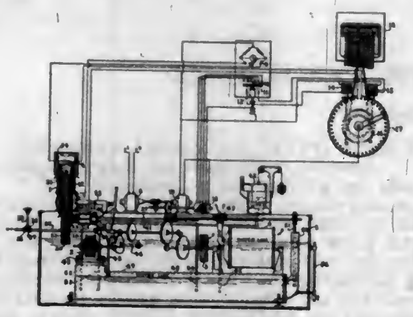
1,662,801. DRILLING APPARATUS. HENRY H. MERCER, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 26, 1927. Serial No. 208,599. 9 Claims. (Cl. 255—37.)

1. A rock drilling apparatus comprising a power reciprocated member, a drill steel actuated thereby, means for providing a pneumatic connection between said member and said steel comprising a plurality of cylinders and



pistons cooperating therewith, and fluid conducting and valve means associated with said cylinders and pistons whereby they act as a compound fluid compressor pump.

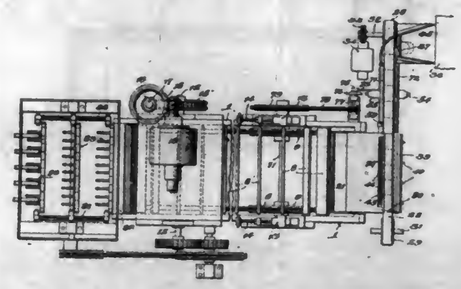
1,662,802. APPARATUS PARTICULARLY APPLICABLE TO MEASUREMENTS OF THE CALORIFIC VALUE OF COMBUSTIBLE FLUIDS. HORACE N. PACKARD, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 28, 1921. Serial No. 440,616. 18 Claims. (Cl. 73—184.)



1. The method of carrying on combustion of fluids, which comprises maintaining a supply of definitely proportioned quantities of such fluids under like conditions of temperature, pressure and saturation, mixing certain of said fluids prior to combustion with less than the total quantity of other of such fluids, and utilizing the remainder of such other of said fluids to support and assist in the combustion.

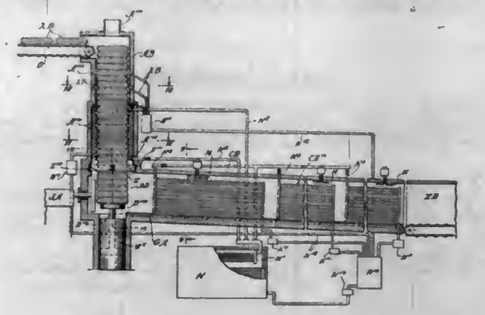
1,662,803. CAN-COOLING APPARATUS. GEORGE G. FRELINGHUYSEN, Newark, N. J. Filed July 9, 1925. Serial No. 42,614. 8 Claims. (Cl. 198—31.)

1. A can handling apparatus including a can feeding mechanism comprising a feeding belt arranged at or adjacent a feeding position, a can guiding device positioned at an angle to said belt and having means for directing cans while in an upright position in a direction toward the belt, means for overturning the individual cans from



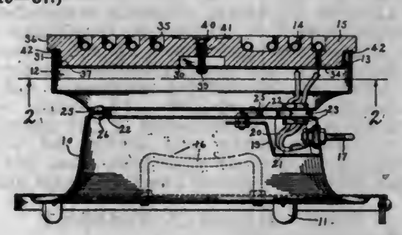
the upright to a horizontal position, and means for turning the upset cans onto the feeding belt longitudinally thereof.

1,662,804. METHOD OF AND APPARATUS FOR VULCANIZING. CONRAD DRESSLER, New York, N. Y., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 24, 1919. Serial No. 340,308. 34 Claims. (Cl. 18—6.)



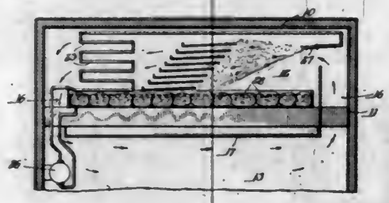
1. The method of vulcanizing rubber articles which consists in moving the articles through a chamber, supplying heat to the chamber as required to vulcanize the articles during their passage through said chamber, and injecting a cooling medium into the chamber when necessary to protect the articles against overheating.

1,662,805. ELECTRICAL STOVE. HUGO FRANK, Hartford, Conn., assignor to The Frank E. Wolcott Manufacturing Co., a Corporation of Connecticut. Filed July 23, 1926. Serial No. 124,513. 36 Claims. (Cl. 219—37.)



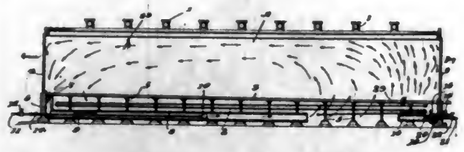
1. An electrical stove comprising an upright cup-shaped member, a heating unit support, said support having an upwardly projecting flange about the periphery thereof, radially located means securing said support to said upright member in laterally spaced relation thereto, and a heating unit seated within said flange and supported by said support.

1,662,806. REFRIGERATION SYSTEM. GEORGE HILGER, Chicago, Ill. Filed Apr. 30, 1926. Serial No. 105,619. 8 Claims. (Cl. 62—104.)



1. A cold storage room having, in combination, a partition wall dividing the room into upper and lower chambers, said wall being shorter than said room whereby to provide connecting passageways between opposite ends of said chambers, means for containing a supply of cooling liquid, refrigerating means to cool said liquid, means operable to mix said liquid with the air in said upper chamber, said mixing means being located near the inlet end of said upper chamber, a coiled pipe positioned near the outlet end of said upper chamber, and means operable to supply said liquid to said coil and then to deliver the liquid to said mixing means.

1,662,807. DRY KILN. FRANK M. CREIGHTON, Americus, Ga., and WILLIAM E. GRAY, Memphis, Tenn., assignors to Moore Dry Kiln Company, Jacksonville, Fla., a Corporation of Florida. Filed Apr. 13, 1926. Serial No. 101,761. 5 Claims. (Cl. 34—46.)



1. A kiln of the character described including a drying chamber, a heating system, humidizers, air intakes at opposite ends, a return conduit leading from one air intake and discharging well into the interior of the kiln, a plurality of air conduits extending inwardly from the intake at the opposite end of the kiln and discharging upwardly into the kiln, and means located within the several conduits for creating a suction of air from the kiln into the air intakes, and for causing its discharge therefrom, into the kiln, and valve mechanism for regulating and controlling the passage of air through these conduits.

Patents Nos. 1,662,808 to 1,663,535.

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Total	1,271		

Adjudicated Patents.

(C. C. A. Mass.) The Bruckman patent, No. 1,071,027, for automatic pastry-making machine, *Held* infringed. *Denaro v. McLaren Consolidated Cone Corporation*, 23 F. (2d) 384.

(D. C. Ill.) The Anthony patent, No. 1,827,936, for a card index, claims 2, 3, 12, 19, and 23 *Held* valid and infringed. *Acme Card System Co. v. Globe-Wernicke Co.*, 23 F. (2d) 523.

(D. C. Ill.) The Mayer patent, No. 1,486,779, for girdle brassières, *Held* valid and infringed. *Nature's Rival Co. v. Venus Brassiere Co.*, 23 F. (2d) 407.

AMENDMENT TO RULES OF PRACTICE.

(Order No. 2,984.)

Effective January 1, 1927, Rule 73 is amended by inserting after paragraph 1 a paragraph to read as follows:

"The original numbering of the claims must be preserved throughout the prosecution. When the application is ready for allowance the Examiner will renumber the claims consecutively in such order as requested by the applicant or as indicated when the claims were first presented. Where claims are added by amendment or substituted for canceled claims they must be numbered by the applicant consecutively, beginning with the number next following the highest numbered claim previously in the case. Provided, however, that where a substitute claim either rewritten to include amendments already made, or to take the place of another claim, is presented and the applicant desires it to finally appear in the relative position occupied by the canceled claim, the substitute claim will be given the number it would have if it were an added claim, and the number will be followed by a directing clause as, for example: Claim 16 (to take the place of claim 3), or claim 24 (to follow claim 2). When, by subsequent amendment, still another claim is substituted for a substitute claim already presented, such last presented claim should be given the number following the highest numbered claim previously in the case and this should be followed by such a directing clause as will indicate the desired final position of the claim with respect to the other claims."

November 1, 1926.

THOMAS E. ROBERTSON,
Commissioner.

This amended rule will apply to all amendments filed after January 1, 1927, whether the applications were filed before or after that date.

Applicants and attorneys are requested to assist in carrying out the simplified system contemplated by the rule with the least possible confusion by carefully observing its provisions in amending their cases.

Condition of Applications Under Examination at Close of Business March 9, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 94,452; Trade-Mark Division. 2,161. Oldest new case, June 7, 1927; oldest amended, June 18, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 18	Aug. 4	1,415
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Sept. 15	Sept. 21	1,261
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 30	Oct. 1	1,913
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	June 25	July 1	2,127
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	July 12	July 12	1,423
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	July 23	Sept. 10	2,298
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	July 15	July 19	2,181
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Aug. 16	Sept. 7	1,919
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 27	Nov. 1	1,458
118	10. HUNTER, O. P., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 11	Oct. 22	1,749
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 3	Sept. 21	1,416
380	12. PIERCE, P. P., Machine Elements	July 1	July 2	1,855
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 22	July 16	1,885
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 2	June 29	1,588
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Aug. 22	Sept. 6	1,917
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Sept. 6	Sept. 29	1,287
307	17. RAFTER, O. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Sept. 2	Sept. 26	1,112
229	18. PORTER, M. E., Motors; Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 4	Aug. 12	1,309
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Sept. 23	Sept. 29	1,384
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Oct. 17	Oct. 18	1,385
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 8	Aug. 24	1,284
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 8	Sept. 6	1,586
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	June 22	June 24	1,370
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 22	June 29	1,523
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 24	Sept. 12	1,888
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 2	July 1	1,220
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 7	Oct. 15	1,291
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 15	Aug. 9	1,877
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	June 28	June 18	1,690
243	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	July 16	Oct. 27	1,607
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Aug. 4	Aug. 5	2,340
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 13	Aug. 15	1,785
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Nov. 2	Nov. 4	1,868
304	34. SIMPSON, O. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 16	June 18	1,375
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 10	Oct. 24	1,419
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Oct. 17	Oct. 17	1,559
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Aug. 15	Aug. 22	1,945
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Sept. 1	Aug. 27	1,615
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 7	June 22	1,484
209	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	July 25	Aug. 20	2,292
126	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Sept. 26	Sept. 12	914
228*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	July 16	July 14	1,904
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Aug. 26	Sept. 27	1,926
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	June 20	July 21	1,871
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 3	Oct. 18	1,278
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 22	Aug. 16	1,563
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Aug. 6	Aug. 11	2,427
218*	48. ROEPKE, O. B., Electricity, General Applications	Sept. 9	Sept. 13	1,372
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 13	Sept. 13	1,343
260	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Aug. 16	Aug. 17	2,280
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Aug. 15	Aug. 13	1,935
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Sept. 14	Sept. 20	2,154
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Aug. 12	Aug. 22	1,551
241*	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Aug. 15	Aug. 9	2,076
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery / Designs	July 18 / †Feb. 3	July 20 / †Feb. 10	853 / 830
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	June 11	July 7	2,280
168	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND { Trade-Marks / Labels and Prints	†Feb. 9 / †Feb. 6	†Feb. 27 / †Feb. 24	1,868 / 293

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

FISCHER *v.* PATER.

Decided February 28, 1928.

1. SECTION 4915, REVISED STATUTES—CONSTRUED.
   A final refusal of a patent by the Office, other than the decision of the Board of Appeals in the interference, is not necessary in order to give the losing party a right to bring a suit under section 4915, Revised Statutes, where he elects not to appeal to the Court of Appeals of the District of Columbia.
2. SAME—SUIT THEREUNDER—WITHHOLDING PATENT OF OTHER PARTY.
   The Commissioner of Patents has no authority to withhold the issuance of a patent to the successful party before the Board of Appeals pending the determination of a suit under section 4915, Revised Statutes, brought by the other party unless such other party had elected to appeal to the court of appeals and his opponent had had that appeal dismissed.

ON PETITION.

EXPANSION JOINT.

Messrs. Wilkinson, Huxley, Byron & Knight for Fischer.

Messrs. Kenyon & Kenyon for Pater.

KINNAN, *Acting Commissioner:*

This is a petition by Fischer giving notice of his intention to seek a remedy by a bill in equity, under 4915, Revised Statutes, from the action of the Commissioner of Patents awarding priority of invention to the party Pater (the decision of the Board of Appeals was rendered on January 18, 1928) and praying (1) that the final refusal of the Commissioner of Patents in the application of Fischer "be issued forthwith" and (2) that the issuance of a patent to the party Pater be withheld pending the final determination of the suit under section 4915.

[1] A final refusal by the Office, other than the decision in the interference, is not necessary in order to give the petitioner the right to bring his suit in equity (see *McKnight* v. *Metal Volatilization Co.*, 128 F. R. 51).

[2] The Commissioner of Patents has no authority to withhold the issuance of the patent to the winning party in the interference pending the determination of the suit under section 4915 (see *Wells* v. *Boyle*, 43 O. G. 753, 1888 C. D. 36, and *McIntyre* v. *Perry*, 169 O. G. 943, 1911 C. D. 92, and cases therein cited; also *Whipple* v. *Miner*, 15 F. R. 117).

Section 4911 as amended provides that where, after appeal is taken to the court of appeals from a decision of the Board of Appeals, the other party files notice that he elects to have proceedings in accordance with 4915, Revised Statutes, and such suit is brought, the issue of the patent to the other party shall be withheld pending the determination of the suit. No such action, however, was taken in this case, and that portion of the section is not applicable thereto.

It is noted that petitioner requests an oral hearing. It is not customary to set petitions of this kind for hearing and no reason is seen for making an exception in this case.

The petition is denied.

Supreme Court of the United States.

RICHMOND SCREW ANCHOR COMPANY, INC., *v.* THE UNITED STATES.

Decided January 3, 1928.

1. PATENTABILITY—DEVELOPMENT OF NEW IDEA.
   A cargo beam employing a single I-beam *Held* not a natural and normal modification of existing ideas, but the development of a new idea, and the patent therefor *Held* valid, it appearing that the weight of the beam had been reduced two-thirds and that the new beam had almost universally superseded the old one.
2. COURTS—DECISION—OBITER DICTUM.
   One of two reasons given by the court for same conclusion is not obiter dictum and should not be denied consideration as authority merely because the other reason was more dwelt on and more fully argued and considered.
3. ASSIGNMENT OF CLAIMS AGAINST THE UNITED STATES—CONSTRUCTION OF STATUTE.
   Section 3477 Revised Statutes, providing that assignment of claim against United States shall be void unless stipulated conditions are complied with, *Held* applicable to assignment of claim for infringement of patent as against contention that such claim grows out of rights created by statutes covering patents and provisions for assignment and for suits by assignee.
4. SAME—SAME—NOT APPLICABLE TO ASSIGNMENT OF CLAIMS UNDER ACT OF JULY 1, 1918.
   Section 3477, Revised Statutes, providing that assignment of claim on United States shall be void unless stipulated conditions are complied with, *Held* not applicable to assignment of claim created by act June 25, 1910, as amended by act July 1, 1918, in so far as such act deprives owner of patent of remedy against infringing private contractor for infringements thereof and makes Government indemnitor for its manufacturer or contractor in his infringements.
5. SAME—SAME.
   Supreme Court must presume that Congress, in passing act July 1, 1918, under which owner of patent was deprived of remedy against infringing private contractor for infringements, and Government was made indemnitor for its manufacturer or contractor in his infringements, intended to secure to owner of patent exact equivalent of what it was taking away.
6. CONSTITUTIONAL LAW—CONSTRUCTION OF STATUTE.
   It is duty of Supreme Court in interpretation of Federal statutes to reach conclusion which will avoid serious doubt of their constitutionality.

Mr. Charles E. Hughes and *Mr. Joseph W. Cox* for Richmond Screw Anchor Co., Inc.

The Attorney General and *Mr. Herman J. Galloway, Assistant Attorney General*, for the United States.

ON WRIT of certiorari to the Court of Claims.

Mr. Chief Justice TAFT delivered the opinion of the Court.

This is a suit by the Anchor Company brought under the act of June 25, 1910 (c. 423, 36 Stat.

851), as amended July 1, 1918 (c. 114, 40 Stat. 704, 705), to recover for the infringement of Letters Patent No. 1,228,120 for a cargo beam, granted May 29, 1917, to Melchior Lenke, and assigned by Lenke to Thomas E. Chappell, and, by Chappell, to the Anchor Company.

The Court of Claims first decided that the plaintiff was entitled to recover from the United States. Thereafter the court made a second decision on December 7, 1925, in which it found as an additional fact that through the contractors who manufactured for the United States, the United States had installed, on or before January 1, 1919, 810 cargo beams covered by the Lenke patent, and that it did not thereafter install any more; that the use of the Lenke cargo beams by the United States resulted in a saving in the expense of installation of cargo beams used by it amounting in the case of each beam to 2,000 pounds of metal, with a value of 6½ cents per pound; that the single advantage which the United States gained by the use of the beams was the saving in cost of the same and the convenience resulting from their novelty.

Upon the additional findings of fact, the Government contended that the former judgment should be set aside, and a new one entered dismissing the plaintiff's petition, for the reason that the assignment of the claims for infringement to the plaintiff was void and of no effect under section 3477 of the Revised Statutes. The Court of Claims on the second hearing yielded to this contention and dismissed the petition.

A cargo beam is a beam employed in combination with other elements to carry the weight of cargo to be removed from the hold of vessels alongside a pier or wharf and deposited on the pier or in the warehouses fronting on the same. Such beams are old and have been used for years. The method existing prior to this invention was the use of two channel beams, spaced several inches apart, firmly riveted together at the top and bottom by means of angle irons or plates, and rigidly affixed at either end to two uprights extending upward through the roof of the warehouse in brackets designed for the purpose. The record showed that a beam adaptable for the purpose weighed 3,300 pounds and must possess the full strength of withstanding the pull of cargo weights from both a vertical and diagonal angle.

Lenke conceived the idea of substituting for the fixed beam a single I beam of about 1,300 pounds in weight. At each end of the I beam he attached laterally a strong bar by means of rivets and angle irons providing holes near its upper end, through which holes he introduced pivots, thereby enabling the cargo beam to swing into any angle from which the load was applied. Lenke fastened U bolts into the center or neutral zone of the beam to receive the hoisting tackle. The real worth of the invention lay in the lightness of the cargo beam he used because the operator could present it so as to make the strain on the beam to be vertical even when force was applied from an angle.

The patent was a combination patent, and in view of the prior art was limited to the exact terms of the claims which made it quite narrow as its course through the Patent Office clearly demonstrated.

[1] It is argued, on behalf of the United States, that Lenke's invention was unpatentable because it embodied nothing more than a natural and normal modification of existing ideas. Such modifications and their advantage were all very clear after the fact; but the old beams had been in use for a number of years and a heavy weight of metal had been used when, by Lenke's device, it was cut down two-thirds. Lenke's cargo beam almost universally superseded the old one. The United States used it and it was installed in nearly every pier in the country. No one else had foreseen its advantage. Lenke offered it as a solution of the problem at a minimum cost with a maximum efficiency. The United States conceded in the Court of Claims that Lenke's patent was novel in the sense that there was nothing in the prior art exactly like it, and that it was useful. While thus, in a way, he improved an existing idea, he developed a new idea. The question of its patentability was worked out in the Court of Claims and all the judges concurred in upholding its validity and did not change their conclusion in the second judgment. We see no reason for differing from that conclusion.

The Court of Claims based its second judgment against the plaintiff on the strength of section 3477 of the United States Revised Statutes, as construed by this Court in *Brothers* v. *United States*, 250 U. S. 88, 89. The section reads as follows:

> All transfers and assignments made of any claim upon the United States, or of any part or share thereof, or interest therein, whether absolute or conditional, and whatever may be the consideration therefor, and all powers of attorney, orders, or other authorities for receiving payment of any such claim, or of any part or share thereof, shall be absolutely null and void, unless they are freely made and executed in the presence of at least two attesting witnesses, after the allowance of such a claim, the ascertainment of the amount due, and the issuing of a warrant for the payment thereof. Such transfers, assignments, and powers of attorney, must recite the warrant for payment, and must be acknowledged by the person making them, before an officer having authority to take acknowledgements of deed, and shall be certified by the officer; and it must appear by the certificate that the officer, at the time of the acknowledgment, read and fully explained the transfer, assignment, or warrant of attorney to the person acknowledging the same.

In the Brothers case, Mr. Justice Pitney said the claim of Brothers for compensation for a patent he had secured by assignment could not apply to an—

> unliquidated claim against the Government arising prior to the time he became the owner of the patent. Rev. Stats., sec. 3477.

[2] Counsel for the petitioner here insist that this statement was not necessary to the decision because the conclusion in that case was clearly made to depend on the noninfringement of the patent and that the reference to section 3477 could only be regarded as obiter dictum. It does not make a reason given for a conclusion in a case obiter dictum because it is only one of two reasons for the same conclusion. It is true that in this case the other reason was more dwelt upon and perhaps it was more fully argued and considered than section 3477, but we can not hold that the use of the section in the opinion is not to be regarded as authority except by directly reversing the decision in that case on that point, which we do not wish to do.

[3] An elaborate argument has been made to show that the section should not apply to the assignment of claims for infringements of a patent, for the reason that a claim for infringements is not a common-law chose in action but grows out of rights created by the statutes covering patents, the provisions for their assignment and for suits by the assignee are to be found in sections 4898, 4919, 4921 and other related sections. *Crown Die & Tool Co.* v. *Nye Tool & Machine Works*, 261 U. S. 24, 42, 43. But there is no conflict between the patent sections and section 3477. The latter section was passed to protect the Government and prevent frauds upon the Treasury. *Western Pacific R. R. Co.* v. *United States*, 268 U. S. 271, 275; *Seaboard Air Line Ry.* v. *United States*, 256 U. S. 655, 657; *Goodman* v. *Niblack*, 102 U. S. 556, 559, 560. And it would seem that the danger of exploiting and harrassing the Government with the use of assignments of claims for patent infringement was within the general purpose of that section.

[4] We come then to the question whether section 3477 and the Brothers case apply to the case before us, and that requires an interpretation of the amending act of 1918 and its operation upon the rights of the assignee and owner of the patent and its claims for infringement. Exceptions to the general language of section 3477 have been recognized by this Court because not within the evil at which the statute aimed. *Seaboard Air Line Ry.* v. *United States*, *supra*; *Western Pacific R. R. Co.* v. *United States*, *supra*; *Goodman* v. *Niblack*, *supra*; *Price* v. *Forrest*, 173 U. S. 410, 421–423; *Parrington* v. *Davis*, 285 Fed. 741, 742. We think that the situation created by the provisions of the amending act of 1918 is such that section 3477 does not apply to all of the assigned claims of the petitioners for infringement under that act. The act of June 25, 1910 (c. 423, 36 Stat. 851), provided that whenever an invention described in and covered by a patent of the United States should hereafter be used by the United States without license of the owner thereof or lawful right to use the same, such owner might recover reasonable compensation for such use by suit in the Court of Claims. The act contained a number of provisos, only one of which is important here, namely, that in any such suit the United States might avail itself of any and all defenses, general or special, which might be pleaded by a defendant in an action for an infringement, as set forth in title 60 of the Revised Statutes or otherwise.

This Court held March 4, 1918, in *Cramp & Sons* v. *International Curtis Marine Turbine Company*, 246 U. S. 28, 42, 45, that the act of 1910 did not effect a license to the United States or the contractor, making the patented device, to make or use the invention, and that the contractor could be sued for an injunction and for infringement in spite of the operation of that act.

On April 20, 1918, the Acting Secretary of the Navy wrote a letter to the Chairman of the Committee on Naval Affairs of the Senate, in which he said, referring to the Cramp case, that the Department was—

> confronted with a difficult situation as the result of a recent decision by the Supreme Court affecting the Government's rights as to the manufacture and use of patented inventions, and it seems necessary that amendment be made of the act of June 25, 1910 * * * the decision is, in effect, so far as it is of importance here, that a contractor for the manufacture of a patented article for the Government is not exempt, unless he is only a contributory infringer, from injunction and other interference through litigation by the patentee.
>
> A prior decision of the Supreme Court, that in the case of *Crozier* v. *Krupp*, had been interpreted as having the opposite meaning, and the department was able up to the time of the later decision, on March 4th last, to proceed satisfactorily with the procuring of such patented articles as it needed, leaving the matter of compensation to patentees for adjustment by direct agreement, or, if necessary, by resort to the Court of Claims under the above mentioned act of 1910. Now, however, manufacturers are exposed to expensive litigation, involving the possibilities of prohibitive injunction payment of royalties, rendering of accounts, and payment of punitive damages, and they are reluctant to take contracts that may bring such severe consequences. The situation promised serious disadvantage to the public interests, and in order that vital activities of this department may not be restricted unduly at this time, and also with a view of enabling dissatisfied patentees to obtain just and adequate compensation in all cases conformably to the declared purpose of said act, I have the honor to request that the act be amended by the insertion of a proper provision therefor in the pending naval appropriation bill.

In response to this communication, the act of 1918 amending the act of 1910 was adopted. (See *Wood* v. *Atlantic Gulf & Pacific Co.*, 296 Fed. 718, 720, 721, and Congressional Record, 65th Congress, second session, proceedings of June 18, 1918, p. 7961). The amendment (c. 114, 40 Stat. 704, 705) reads as follows:

> That whenever an invention described in and covered by a patent of the United States shall hereafter be used or manufactured by or for the United States without license of the owner thereof or lawful right to use or manufacture the same, such owner's remedy shall be by suit against the United States in the Court of Claims for the recovery of his reasonable and entire compensation for such use and manufacture.

This is followed by the same provisos as in the act of 1910 which need not be repeated here.

The purpose of the amendment was to relieve the contractor entirely from liability of every kind for the infringement of patents in manufacturing anything for the Government and to limit the owner of the patent and his assigns and all claiming through or under him to suit against the United States in the Court of Claims for the recovery of his reasonable and entire compensation for such use and manufacture. The word "entire" emphasizes the exclusive and comprehensive character of the remedy provided. As the Solicitor General says in his brief with respect to the act, it is more than a waiver of immunity and effects an assumption of liability by the Government.

Under the act of 1910, the remedy of the owner of a patent where the United States had used the invention without his license or lawful right to use it, was to sue for reasonable compensation in the Court of Claims, and that remedy was open to Lenke for the cargo beams covered by his patent installed and used by the United States before July 1, 1918.

The evidence does not show at what time during the year 1918 the beams were installed. The first

finding is that Lenke wrote to an officer in the Quartermaster's Department on duty at the Army supply base at Brooklyn, on December 31, 1918, complaining that the Lenke cargo beam was being used by the Government at that supply base without permission from the patentee, but nothing happened but a fruitless correspondence.

The findings of the Court of Claims show that, on January 1, 1919, 810 of the beams had been installed at the instance of the Government, but how many were installed after July 1, 1918, when the law in question was passed, has not been found by the Court of Claims.

On September 29, 1920, the Lenke patent was assigned by Lenke to one Thomas E. Chappell, who in turn on March 7, 1921, assigned it to the plaintiff company, in accordance with the statute, and the assignment in each case covered all rights of action for past infringements of the patent and all rights to recoveries by suit for damages, profits and royalties for infringements of every kind whatsoever.

[5] It is settled that, but for the act of 1918, the two assignments vesting title in the Anchor Company would enable it to recover from the contractor for all his infringements (*Crown Die & Tool Co.* v. *Nye Tool & Machine Works, supra; Gordon* v. *Anthony*, 16 Blatchf. 234, Fed. Cas. No. 5,605; *Waterman* v. *Mackenzie*, 138 U. S. 252, 256, 261; *Gaylor* v. *Wilder*, 10 How. 477, 494; Robinson on Patents, vol. 3, sec. 937, p. 122). If now section 3477 applies and these assignments are rendered void, the effect of the act of 1918 is to take away from the assignee and present owner not only the cause of action against the Government, but also to deprive it of the cause of action which had existed in its favor, at the passage of the act, against the infringing contractor for injury by his infringement. The intention and purpose of Congress in the act of 1918 was to stimulate contractors to furnish what was needed for the war, without fear of becoming liable themselves for infringements to inventors or the owners or assignees of patents. The letter of the Assistant Secretary of the Navy, upon which the act of 1918 was passed, leaves no doubt that this was the occasion for it. To accomplish this governmental purpose, Congress exercised the power to take away the right of the owner of the patent to recover from the contractor for infringements. This is not a case of a mere declared immunity of the Government from liability for its own torts. It is an attempt to take away from a private citizen his lawful claim for damage to his property by another private person which but for this act he would have against the private wrongdoer. This result, if 3477 Revised Statutes applies and avoids the assignment, would seem to raise a serious question as to the constitutionality of the act of 1918 under the Fifth Amendment to the Federal Constitution. We must presume that Congress in the passage of the act of 1918 intended to secure to the owner of the patent the exact equivalent of what it was taking away from him. It was taking away his assignable claims against the contractor for the latter's infringement of his patent. The assignability of such claims was an important element in their value and a matter to be taken into account in providing for their just equivalent. If section 3477 applied, such equivalence was impossible.

[6] It is our duty in the interpretation of Federal statutes to reach a conclusion which will avoid serious doubt of their constitutionality. *Phelps* v. *United States*, 274 U. S. 341. Moreover, we should seek to carry out in our dealing with the act of 1918 and Revised Statutes 3477 the very important congressional purpose of the former, as already explained, in the promotion of the war as a special legislative intent. It is our duty to give effect to that special intent although it be not in harmony with a broad purpose manifested in a general statute avoiding assignment of claims against the Government enacted some 80 years ago. *In re Rouse, Hazard & Co.*, 91 Fed. 96, 100, 101; *Townsend* v. *Little*, 109 U. S. 504, 512; *Washington* v. *Miller*, 235 U. S. 422, 428. This is in accord with general rules of interpretation, as shown in these authorities, and reconciles the section 3477 Revised Statutes and the act of 1918, if we hold, as we do, that section 3477 does not apply to the assignment of a claim against the United States which is created by the act of 1918 in so far as the act deprives the owner of the patent of a remedy against the infringing private contractor for infringements thereof and makes the Government indemnitor for its manufacturer or contractor in his infringements.

Such a conclusion requires us to reverse the case and remand it to the Court of Claims for additional findings to show how many of the patented beams were made by contractors and furnished to the United States after the passage of the act of July 1, 1918, and what would have been a reasonable royalty therefor.

The question of the amount of or the rule for measuring the recovery we do not decide, but leave that for further argument and consideration by the Court of Claims, because of the novel and only partial application of section 3477 Revised Statutes.

Reversed and remanded.

Court of Appeals of the District of Columbia.

ENZ *v.* ROGERS.

No. 1,992. Decided December 5, 1927.

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS. Counts construed and R. *Held* entitled to make them and to award of priority on the record.

Mr. Edward W. Vaill for Enz.

Mr. Frank A. Bower for Rogers.

APPEAL from Patent Office. Affirmed.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding awarding priority of invention to the senior party, Rogers.

The interference originally involved four counts. Count 1 is illustrative of the two counts now involved and reads as follows:

1. In a water turbine having a runner and a plurality of gates for controlling the flow of water to the runner, a gate operating mechanism comprising a movable shifting member, and adjustable connecting means between said shifting member and the different gates, said means comprising for each gate a pair of movement transmitting members and an adjustable breakable connecting member.

The novelty of the device resides in the means for connecting the shifting members and the different gates. The means, it will be observed, are defined as "adjustable" and as comprising for each gate "a pair of movement transmitting members and an adjustable breakable connecting member."

When it was discovered that appellant's date of conception and disclosure was subsequent to appellee's filing date, notice was given appellant to show cause why judgment on the record should not go against him. He answered this notice with a motion to dissolve, on the ground that Rogers had no right to make the claims.

The Law Examiner sustained appellant's contentions as to count 3 but rejected them as to other three counts. Priority was awarded Rogers as matter of course by the Examiner of Interferences. The Examiners in Chief agreed with the Law Examiner as to counts 1 and 4 but reversed him and dissolved the interference as to count 2. On appeal, the Commissioner affirmed the decision of the Board as to counts 1 and 4, no appeal having been taken as to count 2.

The claims originated with Enz and are to be interpreted in the light of his disclosure, but they must be construed broadly. *Humiston* v. *Voorhees*, patent appeal No. 1959, present term. When so construed, we are convinced, as was the Patent Office, that Rogers has disclosed a breakable connecting member, even though the severance is induced by shearing. For the reasons fully stated by the Patent Office, the decision is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

738,635, 958,330, C. W. Sievert, Oil burner, D. C. Kans., 2d Div., Doc. E 391–N, *P. F. Gilbreath* v. *H. M. Dobbin et al.* Dismissed Jan. 18, 1928.

860,920, Merrell & Merrell, Process and apparatus for separating the moisture from the constituent solids of liquids; 1,000,931, same, Apparatus for recovering the constituent solids of liquids and semiliquids; 1,038,773, J. C. MacLachlan, Desiccating apparatus; 1,282,093, Lietzow & Fleischer, Desiccation process, D. C., W. D. N. Y., Doc. 639–D, *Merrell-Soule Co.* v. *G. Polley et al.* (*Polley & Craft*). Dismissed Jan. 10, 1928.

908,668, G. E. Heyl-Dia, Exhibiting machine; 1,131,917, W. L. Deming, Autographic register; 1,299,024, B. A. Proctor, Stock-quotation projector, appeals filed Jan. 27, 1928, C. C. A., 2d Cir., *News Projection Corp.* v. *Trans-Lux Daylight Picture Screen Corp. and H. Hornblower et al.* Doc. 9921, *News Projection Corp.* v. *E. F. Hutton.* Doc. 9922, *News Projection Corp.* v. *J. B. Clews et al.* Doc. 9923, *News Projection Corp.* v. *T. F. Allen et al.*

949,272, P. E. Herrmann, Process of hair waving; 959,527, 1,001,029, 1,168,000, 1,194,841, 1,199,550, 1,499,367, same, Hair-waving apparatus; 1,531,986, same, Electrical attachment plug, D. C., S. D. N. Y., Doc. E 42/21, *P. E. Herrmann et al.* v. *Eugene, Ltd.* Dismissed as to patents 1,001,029, 1,194,841, 1,199,550, 1,499,367 and 1,531,936 Jan. 26, 1928.

958,330. (See 738,635.)

959,527. (See 949,272.)

990,210, B. R. Myers, Casing for springs; 1,135,186, A. N. Jeavons, same, D. C., W. D. N. Y., Doc. 479–C, *A. N. Jeavons* v. *The Houdaille Co.* Dismissed Jan. 10, 1928.

1,000,931. (See 860,929.)

1,001,029. (See 949,272.)

1,018,502 (*a*), Just & Hanaman, Incandescent body for electric lamps; 1,082,933, W. D. Coolidge, Tungsten and method of making same; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., W. D. N. Y., Doc. E 978, *General Electric Co.* v. *Hawk Electric Co., Inc., et al.* Dismissed Jan. 10, 1928.

1,018,502 (*b*), Just & Hanaman, Incandescent body for electric lamps; 1,423,956, Mitchell & White, Tipless incandescent lamp, D. C. N. J. (Trenton), Doc. E 2951, *General Electric Co.* v. *A. J. Bussen* (*Hoboken Lamp Co.*). Consent decree Nov. 26, 1927.

1,027,570, J. R. Sheldon, Comforter-filling machine; 1,370,411, Contrado, Swanson & Schwartz, Mattress-filling machine, D. C. Mass., Doc. E 2706, *Triangle Kapok Machine Corp.* v. *Enterprise Upholstery Co.* Consent decree dismissing bill Dec. 28, 1926.

1,038,773. (See 860,929.)

1,082,933. (See 1,018,502 (*a*).).

1,090,881, J. F. Rowley, Ankle joint for artificial limbs; 1,322,059, same, Hinge joint for artificial limbs, D. C., N. D. Ohio, E. Div., Doc. 2317, *J. F. Rowley Co.* v. *A. T. Rowley.* Dismissed (notice dated Jan. 23, 1928).

1,131,917. (See 908,668.)

1,134,096, 1,256,509, E. D. Belknap, Addressing machine, filed Jan. 31, 1928, D. C., S. D. N. Y., Doc. E 44/186, *E. D. Belknap et al.* v. *Elliott Addressing Machine Co.*

1,135,186. (See 990,210.)

1,145,405. (See 1,863,200.)

1,168,000. (See 949,272.)

1,180,159. (See 1,018,502 (*a*).)

1,190,615, H. P. Willis, Plastic composition; 1,328,310, same, Asphaltic pavement and foundation for same, D. C., W. D. N. Y., Doc. 735–D, *American Willite Co. et al* v. *Rochester Vulcanite Paving Co.* Dismissed Jan. 10, 1928. Doc. 736–D, *American Willite Co. et al.* v. *Whitmore, Rauber & Vicinus, Inc.* Dismissed Jan. 10, 1928.

1,194,841. (See 949,272.)

1,198,860, Lesley & Enz, Circuit controller for mechanically-playing instruments; 1,198,861, Lesley & Schoen, same, filed Dec. 7, 1927, D. C., N. D. Ill., E. Div., Doc. 7693, *Mills Novelty Co.* v. *Nelson-Wiggen Piano Co.*

1,198,861. (See 1,198,860.)

1,199,550. (See 949,272.)

1,237,717, W. Sparks, Motor horn; 1,355,283, same, Motor, D. C., W. D. N. Y., Doc. 632–D, *The Sparks-Withington Co.* v. *North East Electric Co.* Dismissed Jan. 10, 1928.

1,238,825, L. S. Ross, Means for preventing boiler explosions, leakage, etc.; 1,388,383, 1,401,002, C. H. Smith, Safety relief valve for hot-water system, filed Jan. 31, 1928, D. C., N. D. Ohio, E. Div., Doc. 2510, *C. H. Smith* v. *The Sands Mfg. Co.*

1,256,509. (See 1,134,096.)

1,282,093. (See 860,929.)

1,291,588, T. W. Maves, Process of burning out invested models; Re. 14,730, same, Oven for burning out invested models, D. C., W. D. N. Y., Doc. 456–C, *T. W. Maves, et al.* v. *Buffalo Dental Mfg. Co.* Dismissed Jan. 10, 1928.

1,293,211. (See 1,388,898.)

1,299,024. (See 908,668.)

1,305,361, C. J. Holslag, Alternating-current welding transformers; Re. 16,012, same, Method of electric-arc welding, cutting, and repairing, D. C. N. J. (Trenton), Doc. E 2888, *Electric Arc Cutting & Welding Co.* v. *C. P. Witherell* (*Bayonne Welding Co.*). Dismissed Dec. 21, 1927.

1,322,059. (See 1,090,881.)

1,328,310. (See 1,190,615.)

1,355,283. (See 1,237,717.)

1,360,256, 1,528,178, E. Anderson, Can opener, D. C., S. D. Calif. (Los Angeles), Doc. E L-79-J, *Star Can Opener Co.* v. *National Metal Products Co. et al.* Interlocutory decree holding patents valid; claims 1 and 2 of 1,360,256 and claims 6 and 7 of 1,528,178 infringed, Jan. 18, 1928.

1,363,200, Wells & Hunter, Automatic feed and delivery for platen presses; 1,143,405, E. Cheshire, Paper feeding and handling device, D. C., E. D. Wis. (Milwaukee), Doc. 1340 C D, *Miller-Saw Trimmer Co.* v. *O. L. Schiffarth et al.* Held valid and infringed Jan. 16, 1928.

1,368,712, J. Galbraith, Wood-carving machine, filed Jan. 30, 1928, D. C. Minn., 4th Div., Doc. E 917, *J. N. Kirby* v. *J. Galbraith et al.*

1,370,411. (See 1,027,570.)

1,388,383. (See 1,238,825.)

1,388,898, Schmidt & Schmidt, Carcass dehairing and cleaning machine; 1,388,899, O. C. Schmidt, same; 1,293,211, H. Kornmann, Hog scraper, D. C., W. D. N. Y., Doc. 420-C, *The Cincinnati Butchers' Supply Co.* v. *Rochester Packing Co., Inc.* Dismissed Jan. 10, 1928.

1,388,899. (See 1,388,898.)

1,401,002. (See 1,238,825.)

1,423,956. (See 1,018,502 (b).)

1,499,367. (See 949,272.)

1,528,178. (See 1,360,256.)

1,531,936. (See 949,272.)

1,550,794. (See 1,593,406.)

1,587,387, H. Lichtman, Furniture cover, D. C., S. D. N. Y., Doc. E 38/151, *Powers, Friend & Lichtman* v. *Kemp & Beatley, Inc.* Consent order of discontinuance Feb. 1, 1928. Doc. 38/397, *Powers, Friend & Lichtman* v. *D. Metzger et al.* (*Campbell, Metzger & Jacobson*). Decree as above.

1,591,707. (See 1,591,772.)

1,591,772, 1,591,773, A. H. Nero, Attachment-plug receptacle; 1,591,707, W. H. Harrington, same, filed Jan. 30, 1928, D. C. Conn. (New Haven), Doc. 1946, *Arrow Electric Co.* v. *Gaynor Electric Co., Inc.*

1,591,773. (See 1,591,772.)

1,593,406, V. Himmer, Loud speaker; 1,550,794, R. D. Fay, Magnetotelephone, filed Jan. 28, 1928, D. C., S. D. N. Y., Doc. E 44/167, *V. Himmer* v. *G. R. P. Products Co., Inc.*

1,605,411. (See 1,650,353.)

1,623,832. (See Re. 16,589.)

1,644,105. (See 1,349,041.)

1,650,353, L. A. Hazeltine, Wave signaling system; 1,605,411, C. O. Weber, Nonoscillating radiofrequency selective amplifier, filed Jan. 23, 1928, D. C., S. D. N. Y., Doc. E 44/135, *Hazeltine Corp.* v. *Electric Service Engineering Corp.*

Re. 14,730. (See 1,291,588.)

Re. 15,782, Des. 57,640, A. R. Gross, Parking light for automobiles, appeal filed Jan. 26, 1928, C. C. A., 4th Cir., Doc. 2710, *A. R. Gross* v. *H. O. Norris* (*R. W. Norris & Sons*).

Re. 15,794, W. H. Cary, Shoe, D. C., W. D. N. Y., Doc. 615-D, *Avon Sole Co.* v. *Le-Hy Shoe Co.* Dismissed Jan. 10, 1928.

Re. 16,012. (See 1,305,361.)

Re. 16,589, A. K. Schaap, jr., Liquid-level gauge; 1,623,832, J. D. Durant, Indicator for fuel-supply tanks, filed Jan. 27, 1928. D. C., E. D. Mich., S. Div., Doc. 2424, *The Schaap-Durant Control Corp.* v. *King-Seeley Corp.*

Des. 48,213, J. K. Woznica, Wedding ring; T. M. 146,380, Traub Mfg. Co., Finger ring, D. C., N. D. Ohio, W. Div., Doc. E 823, *Traub Mfg. Co. et al.* v. *Home Furniture Co.* Held infringed Sept. 18, 1922.

Des. 57,640. (See Re. 15,782.)

T. M. 146,380. (See Des. 48,213.)

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,838,182, K. Honda, Magnet steel, decided February 6, 1928, claims 10, 11, and 15.

Pat. 1,338,133, K. Honda, Magnet steel, decided February 6, 1928, claim 2.

Pat. 1,338,134, K. Honda, Magnet steel, decided February 6, 1928, claim 3.

Pat. 1,410,421, Steele, Martin, and McCarthy, Electric welding, decided February 6, 1928, claims 4, 5, and 9.

Pat. 1,447,118, J. C. Black, Process and apparatus for refining petroleum oil, decided June 7, 1926, claim 11.

Pat. 1,533,653, W. A. MacDonald, Modulation, decided February 7, 1928, claims 1, 2, 3, and 4.

Pat. 1,549,464, R. W. Dinzl, Steam platen, decided February 11, 1928, claim 1.

Pat. 1,600,223, B. C. Goss, Cartridge containing gas-generating chemical, decided February 27, 1928, claims 1 and 2.

Pat. 1,633,891, V. A. Fynn, Nonsynchronous motor, decided January 31, 1928, claim 3.

Pat. 1,635,887, A. H. Haag, Combination phonograph and radiocabinet, decided February 11, 1928, claim 1.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 79,089, Clocks, The Western Clock Mfg. Co., Peru, Ill. Registered August 2, 1910. Decided March 1, 1928.

T. M. 218,921, Coffee, Wilson Coffee Company, Fort Smith, Ark. Registered June 8, 1926. Decided February 1, 1928.

Interference Notice.

U. S. PATENT OFFICE, *Washington, Feb. 23, 1928.*

Weeber & Don, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Farmer Seed & Nursery Co., 918 Fourth Street west, Faribault, Minn., for registration of a trade-mark and trade-mark registered December 30, 1913, No. 94,778, to Weeber & Don, 114 Chambers Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Weeber & Don at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Weeber & Don, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 20, 1928.

[VOL. 368. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 251,558. JEDDO-HIGHLAND COAL COMPANY, Jeddo, Pa. Filed July 6, 1927. Under 10-year proviso.

HIGHLAND

Particular description of goods.—Coal.
Claims use since 1892.

Ser. No. 257,525. CELITE PRODUCTS COMPANY, Los Angeles, Calif. Filed Nov. 14, 1927.

SNOW FLOSS

Particular description of goods.—Hydrated Amorphous Silica in Powdered Form.
Claims use since about Feb. 26, 1927.

Ser. No. 257,751. ALPINA A. G., Gumligen, near Bern, Switzerland. Filed Nov. 18, 1927.

ALPINA S A

Particular description of goods.—Leathers.
Claims use since Aug. 1, 1927.

Ser. No. 258,194. RUDY-PATRICK SEED COMPANY, Kansas City, Mo. Filed Nov. 29, 1927.

ROYAL

Particular description of goods.—Flower, Garden, Farm, and Field Seeds.
Claims use since Jan. 1, 1900.

Ser. No. 258,339. JULIUS F. MARLOWE, doing business as J. F. Marlowe and Company, Memphis, Tenn. Filed Dec. 2, 1927.

A Superior Coal
Black Ace
RED ASH LUMP and EGG

The words appearing on the trade-mark drawing—namely, "A Superior Coal," "Red Ash," and "Lump and Egg"—are hereby disclaimed.
Particular description of goods.—Coal.
Claims use since June 1, 1926.

Ser. No. 259,867. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Jan. 9, 1928.

F. F. V.

Particular description of goods.—Coal.
Claims use since Dec. 14, 1927.

Ser. No. 259,997. COAL HILL MINING COMPANY, INC., Dubois, Pa. Filed Jan. 12, 1928.

BEAR CREEK

Particular description of goods.—Coal.
Claims use since Dec. 7, 1927.

Ser. No. 260,046. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 13, 1928.

ISOPHANE

Particular description of goods.—Sheets and Foils Containing Organic Derivatives of Cellulose, Colored or Uncolored, Transparent or Opaque, Plain, Ornamented, Embossed, or Metallized.
Claims use since about Dec. 20, 1927.

Ser. No. 260,047. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 13, 1928.

NEOPHANE

Particular description of goods.—Sheets and Foils Containing Organic Derivatives of Cellulose, Colored or Uncolored, Transparent, or Opaque, Plain, Ornamented, Embossed, or Metallized.
Claims use since about Dec. 20, 1927.

Ser. No. 260,203. WEST VIRGINIA SOUTHERN COAL COMPANY, Huntington, W. Va. Filed Jan. 16, 1928.

BLUE STAR



The drawing is lined to indicate the color blue.
Particular description of goods.—Coal.
Claims use since Jan. 1, 1912.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 256,565. GEORGE H. CRAWFORD, Washington, D. C. Filed Oct. 25, 1927.

MADBAG

Particular description of goods.—Pocketbooks and Garter Bags in the Nature of Purses.
Claims use since Oct. 14, 1927.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 243,492. B. HELLER & COMPANY, Chicago, Ill. Filed Jan. 28, 1927.

B HELLER & CO
THE PLANT BEHIND THIS PRODUCT

CHICAGO U.S.A.

The word "Chicago," and the phrase "U. S. A." are hereby disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Metal Polishes—Namely, Silver Polishes, Gold Polishes, and Brass Polishes.
Claims use since June 15, 1926.

Ser. No. 258,402. COSBO PRODUCTS COMPANY, New York, N. Y. Filed Dec. 3, 1927.

OSOCLEAN

The drawing is lined to indicate the color orange.
Particular description of goods.—Cleaning Fluids for Clothing, Upholstery, Leather, and Fabrics.
Claims use since on or about Oct. 29, 1927.

Ser. No. 258,876. LAVO COMPANY OF AMERICA, Milwaukee, Wis. Filed Dec. 13, 1927.

LAVALINE
Twill Clean

The descriptive expression "'Twill Clean" is disclaimed apart from the mark shown.
Particular description of goods.—Cleaning Powder for Dishwashing, Washing Clothes, Silverware, and Other Articles.
Claims use since May, 1901.

Ser. No. 260,442. MAURICE H. GLASSMAN, Boston, Mass. Filed Jan. 21, 1928.

KLEENOLINE

Particular description of goods.—Liquid Dry Cleaner.
Claims use since Oct. 27, 1927.

Ser. No. 260,495. J. EAVENSON & SONS, INCORPORATED, Philadelphia, Pa. Filed Jan. 28, 1928.



The representation of a cake of soap as disclosed in the drawing is hereby disclaimed apart from the mark as shown.
Particular description of goods.—Soap.
Claims use since Jan. 10, 1928.

Ser. No. 261,093. AMERICAN WRITING MACHINE COMPANY, Ilion, N. Y., and Newark, N. J. Filed Feb. 3, 1928.

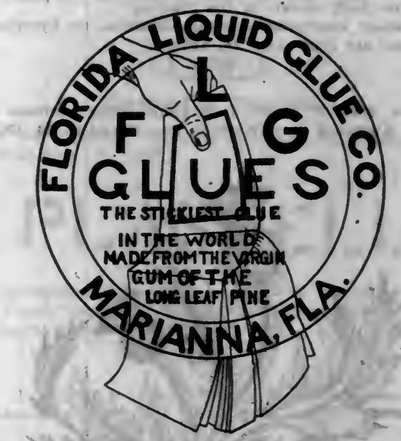
INVINCIBLE

The drawing shows the conventional lining for yellow or golden, this being the color in which the trade-mark is usually printed on the boxes or containers. However, color in itself is not of the essence of the trade-mark.
Particular description of goods.—Plastic Type Cleaner.
Claims use since about Oct. 17, 1927.

CLASS 5.

Adhesives.

Ser. No. 260,210. FRANK F. BRADSHAW, doing business as Florida Liquid Glue Company, Marianna, Fla. Filed Jan. 17, 1928.



Applicant disclaims all wording appearing on the drawing with the exception of "Florida Liquid Glue Co." and "F. L. G." except in connection with the other features of the mark.
Particular description of goods.—Liquid Glue.
Claims use since Dec. 27, 1927.

Ser. No 260,708. ASTORIA PHOTO-ENGRAVERS SUPPLY CO., Long Island City, N. Y. Filed Jan. 27, 1928.



Particular description of goods.—Rubber Cement.
Claims use since on or about April, 1918.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 237,065. PINK CHADWICK, Altus, Okla. Filed Sept. 10, 1926.

PINK CHADWICK'S

PC

No claim is made to the words "Pink Chadwick's" apart from the mark shown in the drawing.

Particular description of goods.—Medicine for Pyorrhea.

Claims use since Aug. 16, 1926.

Ser. No. 256,525. JOHN J. KLEMAN, doing business as J. J. Kleman & Sons, Windber, Pa. Filed Oct. 24, 1927.



Particular description of goods.—Preparation Used in the Treatment of Coughs, Colds, Hoarseness, Sore Throat, Lung Trouble, and Asthma.

Claims use since July 1, 1926.

Ser. No. 259,907. THE HARROWER LABORATORY, INC., Wilmington, Del., and Glendale, Calif. Filed Jan. 10, 1928.

LYDIN

Particular description of goods.—Solution Containing An Active Principle Secured from the Interstitial Cells of Leydig, a Medicinal Preparation for Stimulating the Endocrine Functioning of the Gonads and Dependent Endocrine Organs.

Claims use since Nov. 1, 1927.

Ser. No. 259,939. BETTY FAYE CO., New Haven, Conn. Filed Jan. 11, 1928.

André' Chenier

Jipsee Fleurs

The name "André Chenier" appearing in the trade-mark is the name of the noted French poet, deceased.

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Jan. 15, 1925.

Ser. No. 259,990. FELIX T. BERKMAN, New York, N. Y. Filed Jan. 12, 1928.

CREO-FER COMP.

No claim is made to the exclusive right to the use of the word "Comp." apart from the mark shown in the drawing.

Particular description of goods.—Cough Mixture.

Claims use since June 1, 1926.

Ser. No. 260,309. PASQUALE ATONNA, doing business as Atonna's Laboratory, Corona, N. Y. Filed Jan. 19, 1928.

AMBELINE

Particular description of goods.—Liniment for Rheumatic Pains, Sprains, Chest Colds, All Muscular Pains Due to Exposure.

Claims use since Nov. 15, 1927.

CLASS 7.

Cordage.

Ser. No. 259,903. THE EDWIN H. FITLER COMPANY, Philadelphia, Pa. Filed Jan. 10, 1928.



The trade-mark consists of an elongated lineal compound blue and yellow yarn, thread, twine, or the like separate from the structural parts of the rope or cable, but located in the interior of the rope or cable and inclosed by the strands thereof. No claim is made to the exclusive use of the representation of a rope or cable apart from the mark as shown in the drawing.

Particular description of goods.—Manila Rope Cable.

Claims use since on or about Dec. 22, 1927.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 257,051. COMMERCIAL NOVELTY FIRE WORKS MFG. CO., Willow Street, Pa. Filed Nov. 4, 1927.

COMMERCIAL O K

Particular description of goods.—Torpedoes and Flash Salutes.

Claims use since Sept. 21, 1925.

CLASS 10.

Fertilizers.

Ser. No. 259,753. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Jan. 6, 1928.

AMMO-PHOS-KO

Particular description of goods.—Fertilizer Mixtures.

Claims use since Dec. 7, 1927.

CLASS 11.

Inks and Inking Materials.

Ser. No. 260,617. THE AMERICAN PRINTING INK CO., Cincinnati, Ohio. Filed Jan. 25, 1928.

THE AMERICAN PRINTING INK CO
CINCINNATI, O. U.S.A.
PRINTING & LITHOGRAPHING INKS
No. Color Weight

No exclusive right is claimed in the words "The American Printing Ink Co., Cincinnati, O., U. S. A. High Grade Printing & Lithographing Inks, Dry Colors, Varnishes, No., Color, Weight" except in connection with the mark as shown in the drawing.

Particular description of goods.—Printing Inks.

Claims use since on or about May 20, 1904.

CLASS 12.

Construction Materials.

Ser. No. 257,882. WILLIAM R. LONG, St. Louis, Mo. Filed Nov. 21, 1927.

PLASTELL

Particular description of goods.—Wall Coating—Namely, Plastic Compositions and Mural Decorations.

Claims use since May 1, 1927.

Ser. No. 258,016. BREEN STONE & MARBLE COMPANY, Kasota, Minn. Filed Nov. 25, 1927.

MAN-SOTA

Particular description of goods.—Blocks of Stone Sawed and Polished and Finished Blocks of Material Sold as Marble.

Claims use since Sept. 1, 1926.

Ser. No. 259,362. HYDRAULIC DEVELOPMENT COMPANY, Boston, Mass. Filed Dec. 27, 1927.

HYDRO-TITE

Particular description of goods.—Pipe-Joint Compound.

Claims use since Dec. 16, 1927.

Ser. No. 259,532. CHEROKEE BRICK COMPANY, Macon, Ga. Filed Dec. 31, 1927.

BALLOON

Particular description of goods.—Building Brick.
Claims use since March, 1927.

Ser. No. 260,157. ACME BRICK COMPANY, Fort Worth, Tex. Filed Jan. 16, 1928.

SEQUOYAH

Particular description of goods.—Brick.
Claims use since June 9, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 256,978. SHIELDS AND CAMERON, Los Angeles, Calif. Filed Nov. 2, 1927.

SHOWER-FUME

The word "Shower" has been disclaimed apart from the mark as shown.
Particular description of goods.—Showers.
Claims use since July 1, 1927.

Ser. No. 260,190. MANFRED ROSENBLATT, Frankfort-on-the-Main, Germany. Filed Jan. 16, 1928.

Combinator

Particular description of goods.—Metal Belt Fastener.
Claims use since May, 1914.

Ser. No. 260,228. KOKOMO SANITARY POTTERY COMPANY, Kokomo, Ind. Filed Jan. 17, 1928.

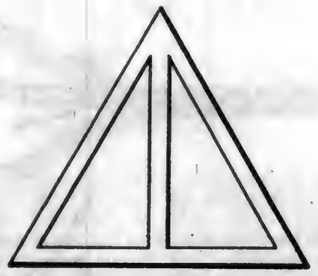
VITREDUR

Particular description of goods.—Closet Bowls, Closet Tanks, and Lavatories.
Claims use since Dec. 1, 1927.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 252,533. THE TITUSVILLE IRON WORKS COMPANY, Titusville, Pa. Filed July 25, 1927.



Particular description of goods.—Ferrous-Metal Castings, Stampings, and Forgings.
Claims use since on or about June 1, 1926.

Ser. No. 256,598. WHEELING STEEL CORPORATION, Wheeling, W. Va. Filed Oct. 25, 1927.



Applicant disclaims the words "Wheeling," "Silver," and "Steel" apart from the mark shown on the drawing.
Particular description of goods.—Steel Sheets, Tin Mill Sheets, and Steel Plates.
Claims use since May 17, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 249,560. GEORGE WISNER, Clichy, France. Filed May 25, 1927.

FILMAC

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Feb. 27, 1925.

Ser. No. 260,762. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXX

Particular description of goods.—Lubricating Oil.
Claims use since on or about Mar. 9, 1922.

Ser. No. 260,763. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXXI

Particular description of goods.—Lubricating Oil.
Claims use since on or about Mar. 9, 1922.

Ser. No. 260,765. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXXIII

Particular description of goods.—Lubricating Oil.
Claims use since on or about Mar. 9, 1922.

Ser. No. 260,766. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXXIV

Particular description of goods.—Lubricating Oil.
Claims use since on or about Mar. 9, 1922.

Ser. No. 260,767. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXXV

Particular description of goods.—Lubricating Oil.
Claims use since on or about Mar. 9, 1922.

Ser. No. 260,768. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXXVI

Particular description of goods.—Lubricating Oil.
Claims use since on or about Mar. 9, 1922.

Ser. No. 260,769. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

LXXXVII

Particular description of goods.—Lubricating Oil.
Claims use since on or about Feb. 14, 1925.

Ser. No. 260,771. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XC

Particular description of goods.—Lubricating Oil.
Claims use since on or about July 25, 1927.

Ser. No. 260,772. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCI

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,773. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCII

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,774. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCIII

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,775. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCIV

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,776. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCV

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,777. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCVI

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,778. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCVII

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 260,779. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.

XCVIII

Particular description of goods.—Lubricating Oil.
Claims use since on or about Sept. 29, 1924.

Ser. No. 261,095. THE BARTLES-MAGUIRE OIL COMPANY, Milwaukee, Wis. Filed Feb. 3, 1928.

Bonded

Particular description of goods.—Gasoline, Motor Oil, and Other Lubricating Oils and Greases.
Claims use since May 5, 1921.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 245,244. BAKER PAINT & VARNISH CO., Jersey City, N. J. Filed Mar. 5, 1927.



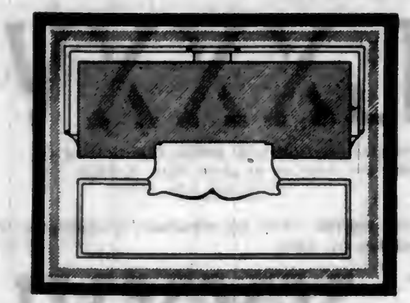
No claim is made to the term "Lead & Zinc" apart from the mark as shown.
Particular description of goods.—Dry, Paste, and Ready-Mixed Paints and Varnishes.
Claims use since about December, 1919.

Ser. No. 259,772. THE LINCOLN OIL AND PAINT COMPANY, Cleveland, Ohio. Filed Jan. 6, 1928.

HONEST ABE

Particular description of goods.—Ready-Mixed Paints, Varnishes, Roof or Surface Coatings and Preserves in the Nature of Paints, and Paint Pigments.
Claims use since about January, 1922.

Ser. No. 260,371. ARNESTO PAINT COMP. INC., New York, N. Y. Filed Jan. 20, 1927.



No claim is made to the representation of a label apart from the mark shown in the drawing. The lining on the drawing is for shading only.
Particular description of goods.—Ready-Mixed Exterior and Interior Paints.
Claims use since July 1, 1925.

Ser. No. 260,865. WESTERN PACIFIC PAINT CORPORATION, Los Angeles, Calif. Filed Jan. 28, 1928.



Particular description of goods.—Oil Paint for Use on the Exterior and Interior of Buildings.
Claims use since June 1, 1926.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 224,030. MARMET, LIMITED, New York, N. Y. Filed Nov. 30, 1925.

Marmet

Particular description of goods.—Perambulators and Gocarts.
Claims use since August, 1924.

Ser. No. 224,031. MARMET, LIMITED, New York, N. Y. Filed Nov. 30, 1925.

Glyda

Particular description of goods.—Perambulators and Gocarts.
Claims use since August, 1925.

Ser. No. 228,589. ATLANTIC AIRCRAFT CORPORATION, Teterboro, Hasbrouck Heights, N. J. Filed Mar. 18, 1926.



The mark consists of a panel in blue to indicate which color the drawing is lined applied to the side of the fuselage or body of the aircraft and extending from the nose thereto toward the tail, the rear terminus of said panel being located between the top and bottom of the side of the fuselage. The representation of the airplane is disclaimed.
Particular description of goods.—Airplanes, Seaplanes, Hydroplanes, Amphibians, and All Craft of the Heavier-Than-Air Type.
Claims use since April, 1922.

Ser. No. 253,807. D. N. KELLEY & SON, Fairhaven, Mass. Filed Aug. 24, 1927.

BABY WHALE

Particular description of goods.—Outboard-Motor Boats, Including Step Planes, and Inboard Step Planes.
Claims use since Jan. 1, 1926.

Ser. No. 259,875. RELAY MOTORS CORPORATION, Lima, Ohio. Filed Jan. 9, 1928.

RELAY

Particular description of goods.—Motor Vehicles—Namely, Motor Trucks and Busses.
Claims use since Mar. 1, 1927.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 261,351. CONGOLEUM-NAIRN, INC., Philadelphia, Pa. Filed Feb. 8, 1928.

DIXIE

Particular description of goods.—Prepared Floor Coverings of the Oilcloth Type.
Claims use since Jan. 24, 1928.

Ser. No. 261,353. CONGOLEUM-NAIRN, INC., Philadelphia, Pa. Filed Feb. 8, 1928.

SPARTAN



Particular description of goods.—Prepared Floor Coverings of the Oilcloth Type.
Claims use since Jan. 24, 1928.

Ser. No. 261,354. CONGOLEUM-NAIRN, INC., Philadelphia, Pa. Filed Feb. 8, 1928.

CRESCENT

Particular description of goods.—Prepared Floor Coverings of the Oilcloth Type.
Claims use since Jan. 24, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 255,748. FRENCH BATTERY COMPANY, Madison, Wis. Filed Oct. 7, 1927.

RAY-O-VAC

Particular description of goods.—Dry Cells for Electric Batteries, Portable Electric Flash Lights, or Electric Torches and Electric-Flash-Light Cases.
Claims use since Aug. 1, 1925.

Ser. No. 259,984. THE ACME WIRE COMPANY, New Haven, Conn. Filed Jan. 12, 1928.

PARVOLT

Particular description of goods.—Electrostatic Condensers.
Claims use since Apr. 20, 1927.

Ser. No. 260,005. DUPLEX ELECTRIC CO., New York, N. Y. Filed Jan. 12, 1928.

DUPLEX

Particular description of goods.—Electric Protection and Burglar-Alarm Systems, and Parts Thereof, Designated as Follows: Electric Vault Burglar-Alarm Systems, Electric Bank Alarm Systems, Electric Closed-Circuit Vault Alarm Systems, Electric Thermostatic Lining Systems for Vaults, Electric Thermostatic Vault-Door Protection Systems, Electric Vault Alarm Control Cabinets, Electric Safe-Protection Cabinets, Electric Vault Alarm Housings, Electric Outside Alarm Housings, Electric Time-Lock Time Controllers, Electric Automatic Cut-Outs, Electric Street Alarm Cables, Electric Automatic Light Switches, Electric Daylight Holdup Alarm Systems, Electric Daylight Holdup Alarm Control Cabinets, Electric Daylight Holdup Alarm Housings, Electric Foot-Rail Contactors, Electric Grille-Work Protection for Windows, Etc., Electric Police Alarm Housings, Electric Single and Double Push-Button Contactors, Electric Depressible Floor Contacts, Electric Milliammeter Relays, Electric Police Call Boxes, Electric Closed-Circuit Vault-Door Protection Systems, Electric Automatic Resetting Devices, Electric Sound-Wave Alarm Systems, Electric Microphone Alarm Systems, Electric Bank-Vault Air Vents Embodying Electrically-Protected Ventilating or Electrical Lighting Means, Electric Microphone Units, Electric Sound-Wave Regulators, Electric Foot-Rail Contactors with Telltale Attachments.

Claims use since April, 1912, upon electric vault burglar-alarm systems, electric bank alarm systems, electric closed-circuit vault alarm systems, electric thermostatic lining systems for vaults, electric thermostatic vault-door protection systems, electric vault alarm control cabinets, electric safe-protection cabinets, electric vault alarm housings, electric outside alarm housings, electric time-lock time controllers, electric automatic cut-outs, electric street alarm cables, electric automatic light switches, electric daylight holdup alarm systems, electric daylight holdup alarm control cabinets, electric daylight holdup alarm housings; since January, 1915, upon electric foot-rail contactors, electric grille-work protection for windows, etc.; since February, 1918, upon electric police alarm housings; since March, 1920, upon electric single and double push-button contactors, electric depressible floor contacts; since January, 1923, upon electric milliammeter relays; since January, 1924, upon electric police call boxes; since March, 1925, upon electric closed-circuit vault-door proptection systems, electric automatic resetting devices; since October, 1925, upon electric sound-wave alarm systems; and since June, 1926, upon electric microphone alarm systems, electric bank-vault air vents embodying electrically-protected ventilating or electrical lighting means, electric microphone units, electric sound-wave regulators, electric foot-rail contactors with telltale attachments.

Ser. No. 260,307. ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis. Filed Jan. 19, 1928.



Particular description of goods.—Electric Percolators for Domestic Use.
Claims use since Jan. 7, 1928.

Ser. No. 260,489. CHASE MFG. CO., St. Louis, Mo. Filed Jan. 23, 1928.

GEE-BEE

Particular description of goods.—Electric Steam Vulcanizers.
Claims use since July, 1922.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 259,848. HARRY C. EVELYN, doing business as The Blinker Toy Co., Chicago, Ill. Filed Jan. 9, 1928.

BLINKETY BLINK

In the drawing the letters in the trade-mark are lined to indicate shading only.
Particular description of goods.—Toys—Namely, Wheeled Toys Equipped with One or More Electric Lights Operating Intermittently While the Toy is in Motion.
Claims use since Nov. 20, 1927.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 259,269. WILLIAM R. ZESINGER, South Bend, Ind. Filed Dec. 22, 1927.

AUTO-NIBLIKS

No claim is made to the exclusive use of the word "Auto" apart from the mark as shown.
Particular description of goods.—Portable Tracks for Use to Provide Traction for Vehicle Wheels on Slippery Roads or Pavements.
Claims use since Mar. 10, 1927.

Ser. No. 259,423. RAPID SAFETY CUTTER CO., INC., New York, N. Y. Filed Dec. 28, 1927.

HOT DOG
RAPID SAFETY CUTTER CO., INC
NEW YORK, N Y

Applicant disclaims all of the representations of the plates and all words other than the words "Hot Dog."
Particular description of goods.—Bread and Roll Cutting Machines.
Claims use since Sept. 1, 1927.

Ser. No. 261,413. WHITE SEWING MACHINE CORPORATION, Cleveland, Ohio. Filed Feb. 8, 1928.

GOLD FLASH

Particular description of goods.—Sewing Machines.
Claims use since on or about Jan. 30, 1928.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 255,496. EDEN WASHER CORPORATION, New York, N. Y. Filed Oct. 1, 1927.

The Eden Speedwasher

The word "Speedwasher" is disclaimed apart from the mark as shown.
Particular description of goods.—Clothes Washers.
Claims use since Aug. 20, 1927.

Ser. No. 255,497. EDEN WASHER CORPORATION, New York, N. Y. Filed Oct. 1, 1927.

The Edenette

Particular description of goods.—Clothes Washers.
Claims use since April, 1926.

Ser. No. 258,900. FIDELITY LAUNDRY MACHINERY & ENGINEERING COMPANY, Minneapolis, Minn. Filed Dec. 14, 1927.

UNI-PRESS

The word "Press" is disclaimed apart from the mark as shown.
Particular description of goods.—Garment Presses.
Claims use since Sept. 7, 1927.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 257,937. THE RAINYDAY CLUB, New York, N. Y. Filed Nov. 22, 1927.

RAINYDAY

Particular description of goods.—Buttons, Pins, and Insignia Made of Gold, Silver, and/or Combinations Thereof.
Claims use since June 18, 1927.

Ser. No. 260,858. STITES, EDLIN & SMITH, INC., New York, N. Y. Filed Jan. 28, 1928.

SES

Particular description of goods.—Finger Rings, Brooches, and Scarf Pins.
Claims use since January, 1925.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 250,864. ROBERT WM. SCHMIDT, Chicago, Ill. Filed June 21, 1927.

FOUR-IN-ONE

Particular description of goods.—Window-Cleaning Implements Involving the Portable Assembly of a Water Fount and Applicator Bar Fed by the Same and a Squeegee Bar.
Claims use since Apr. 28, 1927.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 259,657. CARL H. P. THURSTON, Pasadena, Calif. Filed Jan. 3, 1928.



Particular description of goods.—Pottery and Decorated Earthenware.
Claims use since latter part of May, 1926.

CLASS 32.

Furniture and Upholstery.

Ser. No. 257,884. MAXWELL-BURKE INCORPORATED, Chicago, Ill. Filed Nov. 21, 1927.



Without waiving any of its common-law rights applicant states that no claim is made to the representation of the goods apart from the mark as shown.
Particular description of goods.—Combined Container and Dispenser for Dry Groceries.
Claims use since Nov. 2, 1927.

CLASS 33.

Glassware.

Ser. No. 260,533. SAVE-ALL PIE PLATE CO., INC., New York, N. Y. Filed Jan. 23, 1928.

SAVE-ALL

Particular description of goods.—Pie Plates Made of Glass.
Claims use since December, 1925.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 259,451. MORRIS MAGEN, Philadelphia, Pa. Filed Dec. 29, 1927.

TILMAR

Particular description of goods.—Furnaces, Tank Heaters, Gas Ranges, and Parts Thereof.
Claims use since Apr. 12, 1927.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 242,639. WARWOOD TOOL COMPANY, PISTON RING DEPARTMENT, Baltimore, Md. Filed Jan. 10, 1927.

DIAMOND

Particular description of goods.—Piston Rings.
Claims use since November, 1925.

Ser. No. 242,640. WARWOOD TOOL COMPANY, PISTON RING DEPARTMENT, Baltimore, Md. Filed Jan. 10, 1927.



No claim is made to the words "Piston Rings Are" except in connection with the other features of the mark as shown.
Particular description of goods.—Piston Rings.
Claims use since December, 1925.

Ser. No. 260,680. THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed Jan. 26, 1928.

WISCONO

Particular description of goods.—Pneumatic Tires and Tubes Made Wholly or Partly of Rubber.
Claims use since Jan. 5, 1924.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 259,653. HARRY J. SOHMER, doing business as Sohmer & Company, New York, N. Y. Filed Jan. 3, 1928.

PRIMROSE

Particular description of goods.—Pianos.
Claims use since July 15, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 247,298. TAPAJNA-GARY PAPER COMPANY, Gary, Ind. Filed Apr. 11, 1927.



No claim is made to the words "Zeeland," "Bleached," and "Crepe" apart from the mark shown in the drawing.
Particular description of goods.—Toilet Paper.
Claims use since Jan. 10, 1925.

Ser. No. 258,531. NATIONAL NOVELTY COMPANY, doing business as The Colonial Pen Company, Minneapolis, Minn. Filed Dec. 6, 1927.

GOLD BOND

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Nov. 8, 1927.

Ser. No. 258,532. NATIONAL NOVELTY COMPANY, doing business as The Colonial Pen Company, Minneapolis, Minn. Filed Dec. 6, 1927.

WALLSTREET

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Nov. 8, 1927.

Ser. No. 258,534. NATIONAL NOVELTY COMPANY, doing business as The Colonial Pen Company, Minneapolis, Minn. Dec. 6, 1927.

DEFENDER

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Nov. 8, 1927.

Ser. No. 258,953. J. C. PENNEY COMPANY, Wilmington, Del. Filed Dec. 15, 1927.

PENCOPEN

Particular description of goods.—Fountain Pens, Penholders, and Pen Points.
Claims use since Nov. 11, 1927.

Ser. No. 259,015. NATIONAL NOVELTY COMPANY, doing business as The Colonial Pen Company, Minneapolis, Minn. Filed Dec. 16, 1927.

RELIANCE

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Nov. 30, 1927.

Ser. No. 260,105. MARK M. DIFFENBACHER, doing business as Markeen Pen and Pencil Guard Co., San Francisco, Calif. Filed Jan. 14, 1928.

MARKEEN

Particular description of goods.—Guards for Pens and Pencils.
Claims use since Aug. 1, 1927.

Ser. No. 260,306. THE ALBERMARLE PAPER MANUFACTURING CO., Richmond, Va. Filed Jan. 19, 1928.

Defiance

Particular description of goods.—Blotting Paper.
Claims use since 1922.

Ser. No. 260,508. KIEFFER PAPER MILLS, Brownstone, Ind. Filed Jan. 23, 1928.

"SHOKSORB"

Particular description of goods.—Indented Packing Paper.
Claims use since Aug. 1, 1927.

Ser. No. 261,059. THE HOUSH COMPANY, INC., Boston, Mass. Filed Feb. 2, 1928.

HARBURNE

Particular description of goods.—Albums.
Claims use since Oct. 25, 1926.

CLASS 38.

Prints and Publications.

Ser. No. 255,512. WILLIAM HUKE, doing business as William Huke & Company, Boston, Mass. Filed Oct. 1, 1927.

The Investment Advisor

Particular description of goods.—Publication Issued Monthly.
Claims use since Aug. 6, 1926.

Ser. No. 258,471. RALPH WELLES KEELER, doing business as The Physical-Religious Forum, New York, N. Y. Filed Dec. 5, 1927.

The Physical-Religious FORUM

Particular description of goods.—Monthly Magazine.
Claims use since Oct. 25, 1927.

Ser. No. 258,998. SAM FOX PUB. CO., Cleveland, Ohio. Filed Dec. 16, 1927.

NEWS REEL

Particular description of goods.—Musical Compositions Published from Time to Time.
Claims use since Nov. 2, 1927.

Ser. No. 259,097. BABYHOOD, INCORPORATED, Marion, Ind. Filed Dec. 19, 1927.

BABYHOOD

Particular description of goods.—Magazine Published Once Each Month.
Claims use since Oct. 19, 1925.

Ser. No. 259,598. SIGMA TAU, Ames, Iowa. Filed Dec. 31, 1927.

THE PYRAMID

Particular description of goods.—Quarterly Publication.
Claims use since 1914.

Ser. No. 259,691. PARAGRAVING PRESS, INC., New York, N. Y. Filed Jan. 4, 1928.

Paragraving

Particular description of goods.—Invitations, Announcement and Greeting Cards.
Claims use since Sept. 22, 1926.

Ser. No. 260,254. BENNETT-WATTS-HAYWOOD CO., La Fayette, Ind. Filed Jan. 18, 1928.

The Electrical Dealer

Particular description of goods.—Periodical.
Claims use since on or about Dec. 15, 1927.

Ser. No. 260,565. THE FLYING PUBLISHING COMPANY, New York, N. Y. Filed Jan. 24, 1928.

AVIATION STORIES and Mechanics

Particular description of goods.—Monthly Magazine.
Claims use since about May 31, 1927.

Ser. No. 260,885. THE FOSTER & REYNOLDS CO., New York, N. Y. Filed Jan. 30, 1928.

Ask Mr. Foster

Particular description of goods.—Guide Books Issued from Time to Time.
Claims use since Dec. 30, 1927.

Ser. No. 260,886. THE FOSTER & REYNOLDS CO., New York, N. Y. Filed Jan. 30, 1928.

The Ask Mr. Foster Travel Service

Particular description of goods.—Guide Books Issued from Time to Time.
Claims use since Dec. 30, 1927.

Ser. No. 261,028. JOHN HOWIE WRIGHT, New York, N. Y. Filed Feb. 1, 1928.

POSTAGE and The Mailbag

Particular description of goods.—Monthly Magazine.
Claims use since on or about Sept. 1, 1927.

Ser. No. 261,078. IRVIN L. SIGLER, Pittsburgh, Pa. Filed Feb. 2, 1928.

Coupettes

Particular description of goods.—Sales-Discount Certificates.
Claims use since Jan. 28, 1928.

CLASS 39.

Clothing.

Ser. No. 206,429. A. E. NETTLETON COMPANY, Syracuse, N. Y. Filed Dec. 8, 1924.

The Aristocrat of American Shoes

No claim is made herein to the exclusive use of the words "American Shoes" apart from the mark shown in the drawing.
Particular description of goods.—Gentlemen's Shoes Made of Leather.
Claims use since Jan. 15, 1924.

Ser. No. 231,912. FIRESTONE-APSLEY RUBBER COMPANY, Hudson, Mass. Filed May 20, 1926.

MULTIFIT

Particular description of goods.—Boots and Shoes of Rubber and Fabric.
Claims use since Jan. 1, 1926.

Ser. No. 248,891. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed May 12, 1927.

GOLD DIXIE BOND

Particular description of goods.—Underwear Made of Knitted or Textile Fabrics or Combinations Thereof.
Claims use since Sept. 1, 1926.

Ser. No. 249,550. STEELLASTIC COMPANY, Long Beach, Calif. Filed May 25, 1927.

SPRINGLASTIC

Particular description of goods.—Hose Supporters, Suspenders, Elastic Sleeve Bands, Garter-Supporting Belts, Brassières, Corsets, and Girdles.
Claims use since about May 4, 1926.

Ser. No. 253,378. LINEHAN CORSET COMPANY, Worcester, Mass. Filed Aug. 12, 1927.

Line-lift

Particular description of goods.—Corsets and Girdles.
Claims use since May 12, 1927.

Ser. No. 254,777. W. L. DOUGLAS SHOE CO., Brockton, Mass. Filed Sept. 15, 1927.

CUNIFORM-ARCH

Particular description of goods.—Leather Boots and Shoes.
Claims use since Apr. 15, 1927.

Ser. No. 255,172. GOODLOW CORPORATION, New York, N. Y. Filed Sept. 24, 1927.

PARK LANE

Applicant owns registration No. 218,070.
Particular description of goods.—Men's and Boys' Hats and Caps.
Claims use since June 1, 1927.

Ser. No. 255,394. CARL D. NEWTON, doing business as Fox Company, San Antonio, Tex. Filed Sept. 29, 1927.



The portrait is purely fanciful. The name "Carrie Lee Fox" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Hosiery, Underwear Made of Silk, Cotton, Knitted, Netted, and Textile Fabrics; and Ladies' Wearing Apparel—Namely, Hats, Dresses, Cloaks, Coats, Shoes of Leather, Silk, Cotton, Canvas, and Wool; Caps, Capes, Suits, Shawls, Gloves Made of Leather, Silk, Cotton, Canvas, and Wool; Belts for Outer Wear, and Garters.

Claims use since Feb. 1, 1927.

Ser. No. 256,977. A. H. SCHREIBER CO., New York, N. Y. Filed Nov. 2, 1927.



Particular description of goods.—Women's and Children's Underwear and Night Wear—Namely, Shirts, Vests, Drawers, Chemises, Step-Ins, Bloomers, Slips, Nightgowns, Pajamas, and Combination Shirt and Drawers Made of Textile Fabric.

Claims use since March, 1927.

Ser. No. 257,037. SCHRAMM & SCHMIEG COMPANY, Burlington, Iowa. Filed Nov. 3, 1927.



Applicant owns registration No. 83,602.

Particular description of goods.—Work Clothes—Namely, Overalls, Jackets, Khaki Trousers, and Cotton Gloves and Mittens.

Claims use since Aug. 25, 1927.

Ser. No. 258,230. CHARLES LA PENNA, New York, N. Y. Filed Nov. 30, 1927.



The word "Clothes" is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Clothes for Men and Young Men.

Claims use since Feb. 15, 1927.

Ser. No. 258,307. BEKER & FRIEDMAN, INC., Brooklyn, N. Y. Filed Dec. 3, 1927.



Particular description of goods.—Boots and Shoes of Leather, Satin, and Fabrics.

Claims use since about July, 1926.

Ser. No. 259,174. HEWES & POTTER, INC., Boston, Mass. Filed Dec. 20, 1927.

Spur

Particular description of goods.—Belts for Outer Wear.

Claims use since Mar. 1, 1927.

Ser. No. 259,187. TROPICAL GARMENT MANUFACTURING COMPANY, Tampa, Fla. Filed Dec. 20, 1927.



Particular description of goods.—Work Shirts, Dress Shirts, and Underwear Made of Textile or Knit Material for Men, Women, and Children.

Claims use since Oct. 24, 1927.

Ser. No. 259,365. LEVINE LEATHER COMPANY LIMITED, Toronto, Ontario, Canada. Filed Dec. 27, 1927.



Particular description of goods.—Heels and Soles for Boots and Shoes Made from Rubber, Rubber Compounds, and Gutta Percha.

Claims use since June 28, 1927.

Ser. No. 259,380. VIRGINIA SHOE CO., Fredericksburg, Va. Filed Dec. 27, 1927.

◇TRI-TAN◇

No claim is made to the exclusive use of the word "Tan" apart from the mark shown in the drawing.

Particular description of goods.—Shoe Soles.

Claims use since Nov. 24, 1927.

Ser. No. 259,564. KRONE-JACOBSON, INC., New York, N. Y. Filed Dec. 31, 1927.



Particular description of goods.—Silk Ties and Mufflers.

Claims use since October, 1927.

Ser. No. 259,853. HEYWOOD BOOT & SHOE COMPANY, Worcester, Mass. Filed Jan. 9, 1928.

FLEXIBILT

Particular description of goods.—Leather or Fabric Boots and Shoes.

Claims use since November, 1927.

Ser. No. 259,957. THE HAGERSTOWN SHOE AND LEGGING CO., Hagerstown, Md. Filed Jan. 11, 1928.



No claim is made to the word "Shoes."

Particular description of goods.—Boots and Shoes Made Principally of Leather.

Claims use since Apr. 1, 1927.

Ser. No. 260,038. UNITED STATES RUBBER COMPANY, New Brunswick, N. J. Filed Jan. 12, 1928.

COTETTE

Particular description of goods.—Wearing Apparel, Specifically Felt Jackets for Women, Misses, and Children Principally.

Claims use since Dec. 30, 1927.

Ser. No. 260,062. M & M KNITTING MILLS, INC., Philadelphia, Pa. Filed Jan. 13, 1928.

Superlastic

Particular description of goods.—Bathing Suits and Sweater Coats for Men, Women, and Children.

Claims use since Dec. 3, 1927.

Ser. No. 260,063. M & M KNITTING MILLS, INC., Philadelphia, Pa. Filed Jan. 13, 1928.



Particular description of goods.—Bathing Suits.

Claims use since Nov. 18, 1927.

Ser. No. 260,148. THE STERLING COMPANY, Chicago, Ill. Filed Jan. 14, 1928.

ALL DAYE FROCKS

Applicant disclaims exclusive right to the word "Frocks" apart from the mark shown.
Particular description of goods.—Ladies' Dresses and Aprons.
Claims use since Jan. 4, 1928.

Ser. No. 260,216. HARRY DAROFF & SONS, Philadelphia, Pa. Filed Jan. 17, 1928.



Particular description of goods.—Outer Suits for Men and Boys.
Claims use since Nov. 1, 1927.

Ser. No. 260,314. BROWNSTEIN-LOUIS COMPANY, Los Angeles, Calif. Filed Jan. 19, 1928.

AVALON

Particular description of goods.—Dress and Work Shirts.
Claims use since Oct. 1, 1927.

Ser. No. 260,319. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 19, 1928.

CRAVATESE

Particular description of goods.—Men's and Women's Neckwear—Namely, Neckties, Mufflers, and Scarfs.
Claims use since about Jan. 17, 1928.

Ser. No. 260,472. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Jan. 21, 1928.

Heel Snugger

No claim is made to the exclusive use of the word "Heel" apart from the mark as shown in the drawing.
Particular description of goods.—Heel Liners for Slippers or Pumps.
Claims use since Dec. 1. 1927.

Ser. No. 260,649. THE MCKEY MFG. CO., Fort Scott, Kans. Filed Jan. 25, 1928.

Full Back

Particular description of goods.—Overalls.
Claims use since Jan. 6, 1928.

Ser. No. 260,731. THE HOLTITE MFG. COMPANY, Baltimore, Md. Filed Jan. 27, 1928.



Particular description of goods.—Rubber Heels for Shoes.
Claims use since Jan. 12, 1928.

Ser. No. 260,757. RUFUS W. SCOTT COMPANY, New York, N. Y. Filed Jan. 27, 1928.

FREEBOOTER

Particular description of goods.—Hosiery.
Claims use since Dec. 13, 1927.

Ser. No. 260,758. RUFUS W. SCOTT COMPANY, New York, N. Y. Filed Jan. 27, 1928.

BRIGAND

Particular description of goods.—Hosiery.
Claims use since Dec. 13, 1927.

Ser. No. 260,935. CEDAR GROVE SHOE MFG. CO., Cedar Grove, Wis. Filed Jan. 31, 1928.

PLAY CHUMS

Particular description of goods.—Shoes of Leather, Fabric, Rubber, and Combinations Thereof.
Claims use since Nov. 1, 1927.

Ser. No. 260,948. ELIAS LUSTIG & BRO., New York, N. Y. Filed Jan. 31, 1928.

ROLLS ROYCE HATS

No registration rights are claimed in the word "Hats" except in association with the other features of the mark.
Particular description of goods.—Men's Hats.
Claims use since October, 1927.

Ser. No. 260,949. ELIAS LUSTIG & BRO., New York, N. Y. Filed Jan. 31, 1928.



BORN IN 1875
STILL GOING STRONG

The words "Johnny Walker" and the picture represent a character in fiction well known and which originated in 1875 or thereabouts and is not intended to indicate any living or deceased person. No claim is made to the word "Hats" apart from the other features of the mark.
Particular description of goods.—Men's Hats.
Claims use since October, 1927.

Ser. No. 260,950. ELIAS LUSTIG & BRO., New York, N. Y. Filed Jan. 31, 1928.



America's Finest

No registration rights are claimed in the words "Hats" or "America's Finest" except in association with the other features of the mark. The picture is purely fanciful.
Particular description of goods.—Men's Hats.
Claims use since October, 1927.

Ser. No. 261,056. O. C. HANSEN MFG. CO., Milwaukee, Wis. Filed Feb. 2, 1928.

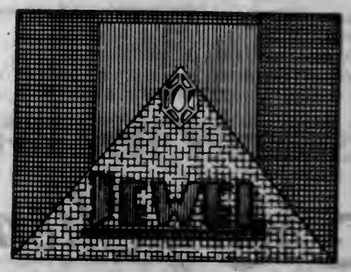


Particular description of goods.—Men's Unlined, Knitted Wool-Lined, Silk-Lined, Lamb-Lined and Fur-Lined Leather Gloves for General and Dress Wear.
Claims use since Dec. 1, 1927.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 255,353. RHODE ISLAND TEXTILE COMPANY, Pawtucket, R. I. Filed Sept. 28, 1927.



Applicant owns registration No. 105,079. The drawing is lined for the colors yellow, red, and black.
Particular description of goods.—Braids and Narrow Webs (Elastic and/or Nonelastic), Including Hat, Doll,

and Carriage Cords, Hat Elastics, Dress Loop Braids and Corset, Shoe, and Middy Blouse Lacings (Round, Oval and/or Flat).
Claims use since Jan. 1, 1927.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 259,993. JOHN U. BURT, INC., New York, N. Y. Filed Jan. 12, 1928.

RAIN-GLO

Particular description of goods.—Parasols and Umbrellas.
Claims use since Sept. 1, 1927.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 251,375. AMERICAN WHOLESALE CORPORATION, (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed July 1, 1927.

FEATHERDOWN

Particular description of goods.—Ticking.
Claims use since July, 1922.

Ser. No. 256,452. W. F. CRAWFORD COMPANY, Waco, Tex. Filed Oct. 22, 1927.

SKY-PROOF

Particular description of goods.—Stockmen's Textile Bed Sheets.
Claims use since June 1, 1927.

Ser. No. 260,225. HANSELMANN-JOHNSON COMPANY, Cincinnati, Ohio. Filed Jan. 17, 1928.

Mary Ellen

Particular description of goods.—Silks in the Piece.
Claims use since on or about Nov. 7, 1927.

Ser. No. 260,570. INFANTS UNDERWEAR CORPORATION, New York, N. Y. Filed Jan. 24, 1928.

Pynlss Diaper

No claim is made to the exclusive use of the word "Diaper" apart from the mark as shown on the drawing.
Particular description of goods.—Textile Diapers.
Claims use since Jan. 3, 1928.

Ser. No. 261,167. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

CREPENESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,168. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

MISTINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,169. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

NINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,170. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

LOVLINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,174. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

ELFINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,175. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

AIRINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,176. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

SUNESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,177. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

LUMINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,178. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

MARINESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,179. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1928.

MOIRANESE

Particular description of goods.—Knitted, Netted, and Textile Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since about Jan. 19, 1928.

Ser. No. 261,449. OVERBROOK CARPET MILLS, INC., Philadelphia, Pa. Filed Feb. 9, 1928.

LAWNRIDGE

Particular description of goods.—Textile Carpets.
Claims use since Nov. 4, 1927.

Ser. No. 261,499. N. FLUEGELMAN & CO., INC., New York, N. Y. Filed Feb. 10, 1928.

RAYFAIR

Particular description of goods.—Goods in the Piece Composed of Silk, Cotton, Linen, Wool, and Rayon and/or Combinations Thereof.
Claims use since Nov. 18, 1927.

CLASS 43.

Thread and Yarn.

Ser. No. 258,881. N. Y. RAYON IMPORTING CO., INC., New York, N. Y. Filed Dec. 13, 1927.

FRENCH VISCOSE

G. V.

Applicant disclaims the right to the exclusive use of the words "French Viscose" apart from the mark shown in the drawing.
Particular description of goods.—Rayon Yarns and Threads.
Claims use since July 7, 1927.

Ser. No. 258,882. N. Y. RAYON IMPORTING CO., INC., New York, N. Y. Filed Dec. 13, 1927.

FRENCH VISCOSE

A. R.

Applicant disclaims the right to the exclusive use of the words "French Viscose" apart from the mark shown in the drawing.
Particular description of goods.—Rayon Yarns and Threads.
Claims use since July 7, 1927.

Ser. No. 258,883. N. Y. RAYON IMPORTING CO., INC., York, N. Y. Filed Dec. 13, 1927.

FRENCH VISCOSE

V. V.

Applicant disclaims the right to the exclusive use of the words "French Viscose" apart from the mark as shown on the drawing.

Particular description of goods.—Rayon Yarns and Threads.

Claims use since July 7, 1927.

Ser. No. 258,884. N. Y. RAYON IMPORTING CO., INC., New York, N. Y. Filed Dec. 13, 1927.

FRENCH VISCOSE

I. Z.

Applicant disclaims exclusive use of the words "French Viscose" apart from the mark as shown in the drawing.

Particular description of goods.—Rayon Yarns and Threads.

Claims use since July 7, 1927.

Ser. No. 259,250. N. Y. RAYON IMPORTING CO., INC., New York, N. Y. Filed Dec. 22, 1927.

BELGIAN VISCOSE

A. L.

Applicant disclaims the right to the exclusive use of the words "Belgian Viscose."

Particular description of goods.—Rayon Yarns and Threads.

Claims use since July 7, 1927.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 254,223. AJAX LIMITED, London, England. Filed Sept. 1, 1927.

SUNVIRAY

Particular description of goods.—Ultra-Violet-Ray Generators.

Claims use since Apr. 6, 1927.

Ser. No. 259,630. C. H. JONES, doing business as Champion Table Co., Davenport, Iowa. Filed Jan. 3, 1928.

CHAMPION

Particular description of goods.—Chiropractic Adjusting Tables.

Claims use since Sept. 1, 1923.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 261,244. JOHN M. DOSTAL, doing business as Dostal Products Company, Bucyrus, Ohio. Filed Feb. 6, 1928.

TOASTMASTER

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.

Claims use since Nov. 1, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 227,055. CALIFORNIA SUPPLY COMPANY, San Francisco, Calif. Filed Feb. 9, 1926.

RUBY

Particular description of goods.—Tomato Catsup; Sauces—Namely, Worcestershire and Chili Sauce; Relishes—Namely, Horse-Radish, Prepared Mustard, and Chowchow; Sweet Relish, Consisting of a Mixture of Chopped Pickles, Cauliflower, Tomatoes, Etc., Sweetened with Sugar; Mincemeat, Green and Ripe Olives, and Distilled White Vinegar and Cider Vinegar Put Up in Cans, Glass Bottles, and/or Jars and in Wooden Kegs.

Claims use since December, 1919.

Ser. No. 235,159. MECCA GROWERS ASSOCIATION, Thermal, Calif. Filed July 26, 1926.

GOLDEN DESERT

Particular description of goods.—Fresh Grapes.

Claims use since Sept. 1, 1924.

Ser. No. 235,325. JOHN TRENTACOSTE, doing business as J. T. Costa & Co., Oakland, Calif. Filed July 29, 1926.

GOLDEN WEST TAMALE FACTORY

The words "Tamale Factory" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Tamales, Raviolis, Enchiladas, Chile Con Carne, Mushroom Sauce, and Canned Spanish Beans.

Claims use since May 15, 1923.

Ser. No. 238,871. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Oct. 19, 1926.

TRIBUNE

Particular description of goods.—Wheat Flour.

Claims use since on or about Sept. 23, 1922.

Ser. No. 240,732. PON HONOR, INC., Oakland, Calif. Filed Nov. 29, 1926.



The word "Butter" is disclaimed apart from the mark as shown. The trade-mark consists in part of a fanciful representation of a Quaker carrying merchandise and a money bag.

Particular description of goods.—Eggs, Butter, and Ice Cream.

Claims use since June 4, 1926.

Ser. No. 242,652. BEAVER VALLEY MILLING COMPANY, Des Moines, Iowa. Filed Jan. 11, 1927.

TRIPLE BOND

Particular description of goods.—Wheat Flour.

Claims use since April, 1926.

Ser. No. 245,427. FRANK DE MARCO, doing business as Cambridge Supply Company, Cambridge, Mass. Filed Mar. 9, 1927.

RED ROBIN

Particular description of goods.—Malt Syrup.

Claims use since Feb. 1, 1927.

Ser. No. 251,025. BEAUDRY CANDY COMPANY, Los Angeles, Calif. Filed June 24, 1927.

LUCKY LINDY

Exclusive rights to the surname "Lindy" are hereby disclaimed apart from the other features of the mark.

Particular description of goods.—Candy.

Claims use since June 15, 1927.

Ser. No. 251,947. CANOGA CITRUS ASSOCIATION, Owensmouth, Calif. Filed July 13, 1927.

CANOGA

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.

Claims use since Apr. 1, 1927.

Ser. No. 252,191. DAMEREL-ALLISON CO., Covina, Calif. Filed July 18, 1927.

GRAND CAÑON

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges.

Claims use since June 10, 1927.

Ser. No. 253,120. UKIAH FRUIT GROWERS, INC., Ukiah, Calif. Filed Aug. 5, 1927.

UFG

No claim is made to the use of the particular color red shown on the drawing.

Particular description of goods.—Fresh Pears in Their Natural State.

Claims use since on or about July 18, 1927.

Ser. No. 253,249. THE TEBBETTS & GARLAND STORE, Chicago, Ill. Filed Aug. 9, 1927.

Lady Clementine

Particular description of goods.—Mint Whips, Chocolate Creams, Almond Paste, Spaghetti, and Macaroni; Canned Goods—Namely, Blueberries, Pork and Beans, Chile Con Carne, Grapefruit, Pimento, Orange Marmalade, Cherry Preserves, Apple Butter, Strawberry Preserves, Orange, Lemon, and Grape Preserves, Crab Meat, Boned Chicken, Olives, Fruit Cocktail, Fresh-Fruit Salad, Oriental-Fruit Salad, Pickled Cantaloupe, Pickled Apricots, Fig Pickles, Melon Mangoes, Pickled Pears, Spiced Red Cherries, Pickled Pineapple, Pickled Peaches, Spiced Peaches, Spiced Gooseberries, Plum Pudding, Stuffed Oranges, Stuffed Mangoes, Preserved Kum-

quats, Maraschino Cherries, Tartar Sauce, Dixie Relish, Chowchow, Sour Relish, Chili Sauce, Catsup, Eels in Jelly, Salted Mackerel; Rollmops—Namely, Spiced Herring in Jars; Sandwich Spread, Cucumber Sweetmeats, Pimento-Stuffed Cucumber Rings, Tea Pickles, Pickled Pumpkin, Pickled Watermelon Rings, Sweet Gherkins, Sour Mixed Pickles, Sweet Pickles, Pickled Cauliflower, Sweet Onions; Potpourri—Namely, Small Pieces of Beef in Rich Gravy; Fresh Medley—Namely, Whole Assorted Fruits in Salad Form, Grenade Cordial Jelly, Preserved Red Currants, Grape Jam, Cherry Jam, Strawberry Jam, Peach Jam, Blackberry Jam, Apricot Jam, Mincemeat, Peanut Butter, French Salad Dressing, Roquefort Salad Dressing, Mayonnaise, Thousand Island Dressing, Mussels Plain, Mussels in Cocktail Sauce, Appetitsild—Namely, a Small Spiced Norwegian Fish; Anchovies, Bismarck Herring, Dried Herring; Farfalle—Namely, Italian Macaroni in Sauce; Grenadine Syrup for Food Purposes, Dry Shrimps, Lye Hominy, and Whole Okra.
Claims use since Sept. 1, 1914.

Ser. No. 254,268. GEO. L. DINJIAN, Fresno, Calif. Filed Sept. 2, 1927.

High Hat

Particular description of goods.—Fresh Fruits—Namely, Grapes, Apples, Oranges, Lemons, Grapefruits; Fresh Vegetables—Namely, Lettuce, Tomatoes; Melons—Namely, Cantaloupes.
Claims use since August, 1926.

Ser. No. 254,933. THE NUCKOLLS PACKING COMPANY, Pueblo, Colo. Filed Sept. 19, 1927.

NUCKOLLS' Mission

Particular description of goods.—Hams, Bacon, Sliced Bacon, and Cooked Hams.
Claims use since 1926.

Ser. No. 256,837. THE SHELBY GUM CO., Shelby, Ohio. Filed Oct. 31, 1927.



Particular description of goods.—Chewing Gum.
Claims use since Aug. 18, 1926.

Ser. No. 256,981. STROHMEYER & ARPE CO., New York, N. Y. Filed Nov. 2, 1927.

JOCKEY CLUB

Particular description of goods.—Canned Peas and Canned Sardines.
Claims use since 1887.

Ser. No. 258,483. NIELSEN LABORATORIES, INC., Elyria, Ohio. Filed Dec. 5, 1927.

Nielsen LACTIC  MILK

CASEIN AND FAT FREE

The portrait appearing on the drawing is that of Niels D. Nielsen, president of the applicant corporation. The descriptive term "Lactic Milk" and the term "Casein and Fat Free" are disclaimed apart from the other features of the mark.
Particular description of goods.—A Tonic Food Made from Lactic-Milk Cultures.
Claims use since Nov. 9, 1927.

Ser. No. 258,768. SARAH ELLEN CANDY SHOPS, INC., Reading Pa. Filed Dec. 10, 1927.

Sarah Ellen

Particular description of goods.—Candy.
Claims use since Aug. 12, 1927.

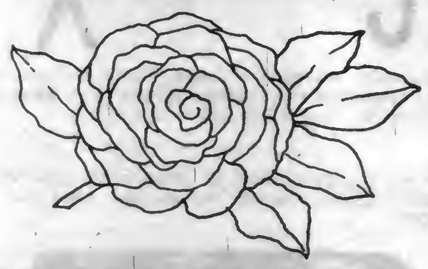
Ser. No. 258,915. JOSEPH L. SMITH, doing business as "Hot-Cat Manufacturing Co.," Youngstown, Ohio. Filed Dec. 14, 1927.

HOT-CAT

Particular description of goods.—Prepared Meats Consisting of Mixed Meats Ground and Seasoned Ready for Cooking.
Claims use since Dec. 7, 1927.

Ser. No. 259,401. GRIFFITH-DURNEY CO., San Francisco, Calif. Filed Dec. 28, 1927.

CAMELLIA



Particular description of goods.—Canned Fruits, Vegetables, and Fish.
Claims use since March, 1898, on canned fish, and since July 1, 1912, on canned fruits and vegetables.

Ser. No. 259,402. GRIFFITH-DURNEY CO., San Francisco, Calif. Filed Dec. 28, 1927.

Regina

Particular description of goods.—Canned Fruits, Vegetables, and Fish.
Claims use since March, 1898, on canned fruits and vegetables, March, 1907, on canned fish.

Ser. No. 259,640. RED SUN PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 3, 1928.

"Double Dutch"
"DOUBLY GOOD"

No claim is made to the use of the words "Doubly Good" apart from the mark shown in the drawing. Applicant is the owner of registration No. 218,247.
Particular description of goods.—Malt Syrup.
Claims use since Dec. 1, 1927.

Ser. No. 260,142. QUINBY & WALLACE, Morris, N. Y. Filed Jan. 14, 1928.

ARIANNE SWEETS

No claim is made to the exclusive use of the word "Sweets" aside from the mark shown.
Particular description of goods.—Chocolates, Bonbons, and Chocolate-Coated Candy.
Claims use since Oct. 1, 1925.

Ser. No. 260,349. PABST CORPORATION, Milwaukee, Wis. Filed Jan. 19, 1928.

Ueber Alles
-OVER ALL-

Particular description of goods.—Malt Syrup.
Claims use since Dec. 31, 1927.

Ser. No. 260,430. EL CAMINO CITRUS ASSOCIATION, Claremont, Calif. Filed Jan. 21, 1928.

"REAL"

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Mar. 1, 1912.

Ser. No. 260,431. EL CAMINO CITRUS ASSOCIATION, Claremont, Calif. Filed Jan. 21, 1928.

CAMPANA

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Mar. 1, 1912.

Ser. No. 260,598. THE "TARA-BLEND" TEA IMPORTING CO. INC., New York, N. Y. Filed Jan. 24, 1928.



No claim is made to the words "Blend" and "Tea" apart from the mark shown in the drawing.
Particular description of goods.—Tea.
Claims use since Jan. 12, 1928.

Ser. No. 260,869. THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed Jan. 30, 1928.

NUT-IE

Particular description of goods.—Lard Substitute.
Claims use since Jan. 16, 1928.

Ser. No. 261,143. QUAKER CITY CHOCOLATE & CONFECTIONERY COMPANY, Philadelphia, Pa. Filed Feb. 8, 1928.

Chocorated Eggs

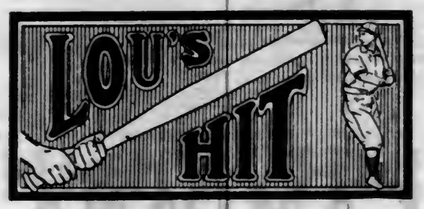
No claim is made to the word "Eggs" apart from the mark as shown.
Particular description of goods.—Candy Eggs.
Claims use since Jan. 2, 1928.

Ser. No. 261,146. FRANK H. RICHEY, doing business as Richey & Gibilisco, San Francisco and Merced, Calif. Filed Feb. 3, 1928.

BACCHUS

Particular description of goods.—Fresh Grapes.
Claims use since Dec. 9, 1927.

Ser. No. 261,252. LOUIS W. GERTENRICH, doing business as Lou Gertenrich Candy Company, Chicago, Ill. Filed Feb. 6, 1928.



The drawing is lined for red.
Particular description of goods.—Candy.
Claims use since Feb. 23, 1926.

Ser. No. 261,272. MEADOLAKE MILK PRODUCTS COMPANY, Sherman, Tex. Filed Feb. 6, 1928.

Clovertex

Particular description of goods.—Butter.
Claims use since Nov. 21, 1927.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 256,453. W. F. CRAWFORD COMPANY, Waco, Tex. Filed Oct. 22, 1927.

SKY-PROOF

Particular description of goods.—Tents, Tarpaulins and Wagon Covers.
Claims use since June 1, 1927.

Ser. No. 257,405. HORACE M. EATON, Lynn, Mass. Filed Nov. 11, 1927.

COLFLEX

Particular description of goods.—Unbleached and Undyed Textile Fabrics of Cotton Coated with an Adhesive.
Claims use since Nov. 4, 1927.

Ser. No. 258,614. GEORGE B. ALLEN, doing business as The Charpure Company, Atlanta, Ga. Filed Dec. 8, 1927.

Charpure

Particular description of goods.—Liquid-Purifying Device Consisting of a Porous Container Having a Purifying Agent Consisting Principally of Charcoal Disposed Therein.
Claims use since Nov. 1, 1927.

Ser. No. 260,179. JOHN KLEFFMAN, doing business as Kleffman Lock Snare Co., Hibbing, Minn. Filed Jan. 16, 1928.

KLEFLOCK

Particular description of goods.—Snares.
Claims use since Nov. 1, 1927.

Ser. No. 260,352. THE ROBERTS SPECIALTY MANUFACTURING COMPANY, INC., Boston, Mass. Filed Jan. 19, 1928.

SAV-KAP

Applicant disclaims exclusive use of the word "Kap" apart from the mark as shown in the drawing.
Particular description of goods.—Bottle Cap and Combined Bottle Stopper and Opener.
Claims use since May 15, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MARCH 20, 1928.

240,014. FLASH LIGHTS. CHASE COMPANIES, INC., Waterbury, Conn.
Filed October 28, 1927. Serial No. 256,716. PUBLISHED JANUARY 10, 1928. Class 21.

240,015. PHONOGRAPHS AND PHONOGRAPH RECORDS. ORIOLE PHONOGRAPH COMPANY, Baltimore, Md.
Filed November 1, 1927. Serial No. 256,883. PUBLISHED JANUARY 10, 1928. Class 36.

240,016. STERLING-SILVER TABLEWARE AND TOILET WARE. JAMES B. WATERFIELD, Attleboro, Mass.
Filed October 31, 1927. Serial No. 256,845. PUBLISHED JANUARY 10, 1928. Class 28.

240,017. MANUFACTURED JEWELRY FOR PERSONAL WEAR OTHER THAN WATCHES. JUERGENS & ANDERSEN COMPANY, Chicago, Ill.
Filed November 3, 1927. Serial No. 257,011. PUBLISHED JANUARY 3, 1928. Class 28.

240,018. GASOLINE AND LUBRICATING OILS. LOOBOYLE REFINING COMPANY, Tulsa, Okla., and Joplin, Mo.
Filed November 7, 1927. Serial No. 257,176. PUBLISHED JANUARY 10, 1928. Class 15.

240,019. RADIO RECEIVING SETS AND PARTS THEREOF. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed October 31, 1927. Serial No. 256,812. PUBLISHED JANUARY 10, 1928. Class 21.

240,020. VACUUM TUBES. CABLE SUPPLY COMPANY, INC., New York, N. Y.
Filed October 29, 1927. Serial No. 256,764. PUBLISHED JANUARY 10, 1928. Class 21.

240,021. RADIO VACUUM TUBES. DIANA RADIO TUBE CORP., New York, N. Y.
Filed October 26, 1927. Serial No. 256,615. PUBLISHED JANUARY 10, 1928. Class 21.

240,022. SOUND-REPRODUCING APPARATUS, AND PARTICULARLY LOUD SPEAKERS FOR USE WITH RADIO SETS. THE MONMOUTH PRODUCTS COMPANY, Cleveland, Ohio.
Filed October 25, 1927. Serial No. 256,576. PUBLISHED JANUARY 10, 1928. Class 21.

240,023. AUTOMATIC ELECTRIC STEAM AND HOT-WATER BOILERS. CHICAGO AUTOMATIC ELECTRIC BOILER COMPANY, Chicago, Ill.
Filed October 22, 1927. Serial No. 256,450. PUBLISHED JANUARY 10, 1928. Class 21.

240,024. ORNAMENTAL BUCKLES MADE OF OR PLATED WITH PRECIOUS METAL. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed October 20, 1927. Serial No. 256,363. PUBLISHED JANUARY 10, 1928. Class 28.

240,025. JARS, CELLS, COVERS, VENTS, AND SEPARATORS FOR STORAGE BATTERIES. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed October 18, 1927. Serial No. 256,237. PUBLISHED JANUARY 10, 1928. Class 21.

240,026. ELECTRIC SADIRONS. MICHAEL A. ROLLMAN, Mount Joy, Pa.
Filed October 11, 1927. Serial No. 255,929. PUBLISHED JANUARY 10, 1928. Class 21.

240,027. LUBRICANTS CONTAINING GRAPHITE. ACHESON OILBAG COMPANY, Port Huron, Mich.
Filed October 11, 1927. Serial No. 255,890. PUBLISHED JANUARY 3, 1928. Class 15.

240,028. RADIO ELECTRON TUBES. THE SUNLIGHT LAMP CO., Newton Falls, Ohio.
Filed September 24, 1927. Serial No. 255,211. PUBLISHED JANUARY 10, 1928. Class 21.

240,029. RADIO ELECTRON TUBES. THE SUNLIGHT LAMP CO., Newton Falls, Ohio.
Filed September 24, 1927. Serial No. 255,210. PUBLISHED JANUARY 10, 1928. Class 21.

240,030. PHONOGRAPHS, TALKING MACHINES, AND SOUND PLATES AND SOUND BOXES. BING WERKE VORM. GEBR. BING A. G., Nuremberg, Germany.
Filed September 24, 1927. Serial No. 255,159. PUBLISHED JANUARY 3, 1928. Class 36.

240,031. GASOLINE. HEARN OIL COMPANY, Wilmington, Del.
Filed September 17, 1927. Serial No. 254,849. PUBLISHED JANUARY 3, 1928. Class 15.

240,032. PETROLEUM PRODUCTS—VIZ, LUBRICATING OILS. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed September 8, 1927. Serial No. 254,520. PUBLISHED JANUARY 10, 1928. Class 15.

240,033. ELECTRON VACUUM TUBES. NED HENOWITZ, Newark, N. J., assignor to Sonatron Tube Company, Chicago, Ill., a Corporation of Delaware.
Filed November 8, 1927. Serial No. 257,233. PUBLISHED JANUARY 10, 1928. Class 21.

240,034. EYE MEDICINE. MICHAEL KNEILING, doing business as Kneiling Co., Tacoma, Wash.
Filed October 31, 1927. Serial No. 256,826. PUBLISHED JANUARY 10, 1928. Class 6.

240,035. MAGAZINES ISSUED QUARTERLY. STANLEY ABEL, doing business as Highway Maintenance Publishing Co., Taft, Calif.
Filed November 1, 1927. Serial No. 256,852. PUBLISHED DECEMBER 13, 1927. Class 38.

240,036. CARBONATED ORANGE-FLAVORED LAXATIVE WATER. CHARLES A. MEYEROWICH, doing business as Yankee Chemical Co., Rosebank, N. Y.
Filed November 1, 1927. Serial No. 256,877. PUBLISHED JANUARY 10, 1928. Class 6.

240,037. MUSCLE OIL. H. SMITH BARKLEY, doing business as Bayne Laboratories, San Francisco, Calif.
Filed November 2, 1927. Serial No. 256,898. PUBLISHED JANUARY 10, 1928. Class 6.

240,038. LADIES' HATS. LOS ANGELES HAT COMPANY, Los Angeles, Calif.
Filed October 29, 1927. Serial No. 256,784. PUBLISHED JANUARY 3, 1928. Class 39.

240,039. TABLE SYRUP. THE CUBAN-AMERICAN SYRUP COMPANY, Little Rock, Ark.
Filed October 26, 1927. Serial No. 256,610. PUBLISHED JANUARY 3, 1928. Class 46.

240,040. MEN'S AND BOYS' CLOTHING—NAMELY, OVERCOATS, COATS, SUITS, VESTS, AND TROUSERS. MAX SPIRO & SONS, INC., New York, N. Y.
Filed October 21, 1927. Serial No. 256,429. PUBLISHED JANUARY 3, 1928. Class 39.

240,041. AN ASEPTIC WATER-SOLUBLE PREPARATION FOR USE AS SURGICAL CASTS, PROTECTIVE BANDAGES, SPLINTS, MOULDING SURGICAL DRESSINGS, AND AS AN ADHESIVE TAPE. UNIVERSITY LABORATORIES, INC., Milwaukee, Wis.
Filed October 19, 1927. Serial No. 256,817. PUBLISHED JANUARY 3, 1928. Class 6.

240,042. MALT SYRUP. INTERNATIONAL PRODUCTS Co., New York, N. Y.
Filed August 13, 1927. Serial No. 253,418. PUBLISHED JANUARY 3, 1928. Class 46.

240,043. KID AND FABRIC GLOVES. WIMELBACHER & RICE, New York, N. Y.
Filed August 20, 1927. Serial No. 253,783. PUBLISHED JANUARY 3, 1928. Class 39.

240,044. LADIES' TRIMMED HATS. LEDERER, STRAUSS & Co., INC., Des Moines, Iowa.
Filed August 23, 1927. Serial No. 253,849. PUBLISHED JANUARY 3, 1928. Class 39.

240,045. LADIES' HATS. STONE & GOLDENBERG, INC., New York, N. Y.
Filed August 23, 1927. Serial No. 253,858. PUBLISHED JANUARY 3, 1928. Class 39.

240,046. PREPARATIONS FOR INHALING FOR THE TREATMENT OF BRONCHITIS, GRIPPE, WHOOPING COUGH, CATARRH OF THE LUNGS, ASTHMA, LARYNGITIS, AND IRRITATION OF THE THROAT. AUGUST BRACKMANN, Bad Lippspringe, Germany.
Filed September 9, 1927. Serial No. 254,540. PUBLISHED JANUARY 10, 1928. Class 6.

240,047. LAUNDRY WASHING MACHINES. BARLOW & SEELIG MFG. CO., Ripon, Wis.
Filed September 21, 1927. Serial No. 254,990. PUBLISHED JANUARY 10, 1928. Class 24.

240,048. SHOES MADE OF LEATHER, FABRIC, OR RUBBER OR A COMPOSITION OF LEATHER, FABRIC, OR RUBBER. CRADDOCK-TERRY COMPANY, Lynchburg, Va.
Filed September 26, 1927. Serial No. 255,233. PUBLISHED JANUARY 3, 1928. Class 39.

240,049. MALT SYRUP. NATHAN KAPLAN, doing business as Anchor Malt Products Company, New York, N. Y.
Filed October 3, 1927. Serial No. 255,560. PUBLISHED JANUARY 3, 1928. Class 46.

240,050. MEN'S SUITS, TOPCOATS, AND OVERCOATS, MEN'S DRESS AND WORK SHIRTS, AND UNDERWEAR OF KNITTED AND TEXTILE FABRICS. ARONBERG & PFEFFER, Ashland and Paducah, Ky., and Hagerstown, Md.
Filed October 5, 1927. Serial No. 255,623. PUBLISHED JANUARY 3, 1928. Class 39.

240,051. MEN'S BOOTS AND SHOES MADE OF LEATHER. G. P. CRAFTS COMPANY, Manchester, N. H.
Filed October 7, 1927. Serial No. 255,744. PUBLISHED JANUARY 3, 1928. Class 39.

240,052. RUBBER HEELS FOR BOOTS AND SHOES. CUSHION SPRING RUBBER COMPANY, St. Louis, Mo.
Filed October 17, 1927. Serial No. 256,176. PUBLISHED JANUARY 3, 1928. Class 39.

240,053. CAKES. FRANK G. SHATTUCK COMPANY, doing business as The Schrafft's Stores, New York, N. Y.
Filed October 7, 1927. Serial No. 255,773. PUBLISHED JANUARY 3, 1928. Class 46.

240,054. MALT SYRUP FOR FOOD PURPOSES. FOREST HILLS COMPANY, doing business as Old Colony Brewing Co., Boston, Mass.
Filed December 8, 1927. Serial No. 258,631. Class 46.

240,055. WATERPROOFING LIQUID FOR TEXTILES. CANVAS PROOFING & STRIPING COMPANY, Chicago, Ill.
Filed December 5, 1927. Serial No. 258,460. PUBLISHED JANUARY 10, 1928. Class 6.

240,056. COMPOUND FOR TREATING HAY FEVER. WILLIAM F. BROCKETT, doing business as Brockett Remedy Co., Dodge City, Kans.
Filed December 5, 1927. Serial No. 258,456. PUBLISHED JANUARY 10, 1928. Class 6.

240,057. PERFUMES AND HYGIENIC PRODUCTS—NAMELY, BATH SALTS, ASTRINGENTS, COLD CREAMS, FACE PACKS, SHAMPOOS, TALCUM POWDERS, EYEDROPS, TOILET WATERS, SMELLING SALTS, AROMATIC VINEGARS, SKIN CREAMS, FACE POWDERS, ROUGES, SKIN BLEACHES, LIP STICKS, EYEBROW PENCILS, AND HAIR, FACE, HAND, AND FOOT LOTIONS. HENRI BENDEL INC., New York, N. Y.
Filed December 5, 1927. Serial No. 258,453. PUBLISHED JANUARY 10, 1928. Class 6.

240,058. PERFUMES AND HYGIENIC PRODUCTS—NAMELY, BATH SALTS, ASTRINGENTS, COLD CREAMS, FACE PACKS, SHAMPOOS, TALCUM POWDERS, EYEDROPS, TOILET WATERS, SMELLING SALTS, AROMATIC VINEGARS, SKIN CREAMS, FACE POWDERS, ROUGES, SKIN BLEACHES, LIP STICKS, EYEBROW PENCILS, AND HAIR, FACE, HAND, AND FOOT LOTIONS. HENRI BENDEL INC., New York, N. Y.
Filed December 5, 1927. Serial No. 258,452. PUBLISHED JANUARY 10, 1928. Class 6.

240,059. PERFUMES AND HYGIENIC PRODUCTS—NAMELY, BATH SALTS, ASTRINGENTS, COLD CREAMS, FACE PACKS, SHAMPOOS, TALCUM POWDERS, EYEDROPS, TOILET WATERS, SMELLING SALTS, AROMATIC VINEGARS, SKIN CREAMS, FACE POWDERS, ROUGES, SKIN BLEACHES, LIP STICKS, EYEBROW PENCILS, AND HAIR, FACE, HAND, AND FOOT LOTIONS. HENRI BENDEL INC., New York, N. Y.
Filed December 5, 1927. Serial No. 258,451. PUBLISHED JANUARY 10, 1928. Class 6.

240,060. SYNTHETIC FABRIC IN THE NATURE OF ARTIFICIAL SILK. ABERFOYLE MFG. CO., Chester, Pa.
Filed December 5, 1927. Serial No. 258,445. PUBLISHED JANUARY 10, 1928. Class 42.

240,061. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 2, 1927. Serial No. 258,329. PUBLISHED JANUARY 10, 1928. Class 42.

240,062. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 2, 1927. Serial No. 258,328. PUBLISHED JANUARY 10, 1928. Class 42.

240,063. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 2, 1927. Serial No. 258,327. PUBLISHED JANUARY 10, 1928. Class 42.

240,064. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 2, 1927. Serial No. 258,326. PUBLISHED JANUARY 10, 1928. Class 42.

240,065. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 2, 1927. Serial No. 258,325. PUBLISHED JANUARY 10, 1928. Class 42.

240,066. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 2, 1927. Serial No. 258,324. PUBLISHED JANUARY 10, 1928. Class 42.

240,067. MEDICINES FOR THE RELIEF OF NEURALGIA AND HEADACHES. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed November 30, 1927. Serial No. 258,223. PUBLISHED JANUARY 10, 1928. Class 6.

240,068. ORGANIC PHOSPHORUS COMPOUND FOR SUBCUTANEOUS USE. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed November 30, 1927. Serial No. 258,219. PUBLISHED JANUARY 10, 1928. Class 6.

240,069. BISMUTH PREPARATION FOR INTRAGLUTEAL THERAPEUTIC TREATMENT OF LUES. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed November 30, 1927. Serial No. 258,217. PUBLISHED JANUARY 10, 1928. Class 6.

240,070. INORGANIC CHEMICALS AS FOLLOWS: SODIUM COMPOUNDS, CALCIUM COMPOUNDS, POTASSIUM COMPOUNDS, AMMONIA COMPOUNDS, AND HYDROCHLORIC ACID; AND FOR ORGANIC CHEMICALS AS FOLLOWS: BENZALDEHYDE, BENZYL CHLORIDE, AND CHLORINATED BENZOL COMPOUNDS. THE SOLVAY PROCESS COMPANY, Solvay, N. Y.
Filed November 29, 1927. Serial No. 258,197. PUBLISHED JANUARY 10, 1928. Class 6.

240,071. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France.
Filed November 29, 1927. Serial No. 258,167. PUBLISHED JANUARY 10, 1928. Class 6.

240,072. SOLUTION FOR CLEANING FALSE TEETH. MELTZIT CHEMICAL COMPANY, Rochester, N. Y.
Filed November 25, 1927. Serial No. 258,038. PUBLISHED JANUARY 10, 1928. Class 6.

240,073. DEODORANT. SPIC LABORATORIES, INC., Chicago, Ill.
Filed November 23, 1927. Serial No. 258,002. PUBLISHED JANUARY 10, 1928. Class 6.

240,074. RADIATOR STOP LEAK, A LIQUID COMPOSITION. BLACK DUCK PRODUCTS, INC., Whittier, Calif.
Filed November 2, 1927. Serial No. 256,901. PUBLISHED JANUARY 10, 1928. Class 6.

240,075. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,918. PUBLISHED JANUARY 10, 1928. Class 42.

240,076. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,919. PUBLISHED JANUARY 10, 1928. Class 42.

240,077. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,921. PUBLISHED JANUARY 10, 1928. Class 42.

240,078. BOLTS AND CAP SCREWS. THE FOSTER BOLT & NUT MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 2, 1927. Serial No. 256,927. PUBLISHED JANUARY 10, 1928. Class 18.

240,079. MALT SYRUP. ARTHUR H. BENDER, doing business as A. Bender Malt Co., Cincinnati, Ohio.
Filed November 3, 1927. Serial No. 256,993. PUBLISHED JANUARY 3, 1928. Class 46.

240,080. MALT SYRUP. BEST MALT PRODUCTS COMPANY, Chicago, Ill.
Filed November 3, 1927. Serial No. 256,996. PUBLISHED JANUARY 3, 1928. Class 46.

240,081. DEPILATORY. HOUSE OF TRE-JUR, INC., New York, N. Y.
Filed November 23, 1927. Serial No. 257,983. PUBLISHED JANUARY 10, 1928. Class 6.

240,082. RODENT REPELLANTS AND INSECTICIDES. HENRY T. BOTTRELL, doing business as Bottrell Chemical Company, New York, N. Y.
Filed November 23, 1927. Serial No. 257,963. PUBLISHED JANUARY 10, 1928. Class 6.

240,083. HAIR-WAVING SOLUTIONS, BRILLIANTINE, AND HAIR-SETTING SOLUTION. TOWNSEND MANUFACTURING COMPANY, INC., New York, N. Y.
Filed November 21, 1927. Serial No. 257,906. PUBLISHED JANUARY 10, 1928. Class 6.

240,084. LAXATIVE PREPARATIONS. HARRY LEMLER, doing business as The Lem-Cod Co., Baltimore, Md.
Filed November 21, 1927. Serial No. 257,879. PUBLISHED JANUARY 10, 1928. Class 6.

240,085. DISINFECTANTS. GLOBE LABORATORIES, Fort Worth, Tex.
Filed November 21, 1927. Serial No. 257,807. PUBLISHED JANUARY 10, 1928. Class 6.

240,086. MEDICINAL PREPARATION USED AS AN ANTACID DIGESTANT. BISODOL CO. INC., New York, N. Y.
Filed November 21, 1927. Serial No. 257,838. PUBLISHED JANUARY 10, 1928. Class 6.

240,087. DRESS, NEGLIGEE, WORK, AND FLANNEL SHIRTS; PAJAMAS AND NIGHTSHIRTS. SAMUEL VALENTINE CO., INC., New York, N. Y.
Filed November 18, 1927. Serial No. 257,763. PUBLISHED JANUARY 3, 1928. Class 39.

240,088. INSECTICIDES USED AS A SPRAY FOR THE EXTERMINATION OF FLIES, MOSQUITOES, ROACHES, WATER BUGS, BLACK BEETLES, ANTS, AND SIMILAR HOUSE PESTS. QUAKER OIL PRODUCTS CORPORATION, Conshohocken, Pa.
Filed November 18, 1927. Serial No. 257,746. PUBLISHED JANUARY 10, 1928. Class 6.

240,089. MEDICAL COMPOUNDS FOR TREATING VENEREAL DISEASES, CANCER, OLD SORES, ITCH, MALARIAL FEVER, LOSS OF APPETITE, AND LIVER COMPLAINTS. HORACE G. HARLEY, 5 Mile, Navy Yard, S. C.
Filed November 17, 1927. Serial No. 257,675. PUBLISHED JANUARY 10, 1928. Class 6.

240,090. RAYON AND COTTON PIECE GOODS. ARTHUR BEIR & Co., INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,651. PUBLISHED JANUARY 10, 1928. Class 42.

240,091. COTTON PIECE GOODS. ARTHUR BEIR & Co., INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,650. PUBLISHED JANUARY 10, 1928. Class 42.

240,092. PERFUME, TOILET WATER, COLD CREAM, VANISHING CREAM, FACE POWDER, FACE-POWDER COMPACTS, ROUGE COMPACTS, LIP STICK, TALCUM POWDER, LOTION, BATH SALTS, AND BATH POWDER. THE A. J. HILBERT & Co., De Pere, Wis.
Filed November 16, 1927. Serial No. 257,627. PUBLISHED JANUARY 10, 1928. Class 6.

240,093. MEDICINE INDICATED FOR INFLAMMATIONS OF THE MUCOUS MEMBRANES OF THE URINARY TRACT AND KIDNEY AND BLADDER AFFECTIONS. H. PLANTEN & SON INC., Brooklyn, N. Y.
Filed November 14, 1927. Serial No. 257,559. PUBLISHED JANUARY 10, 1928. Class 6.

240,094. NUTRITIVE TONIC AND TISSUE BUILDER. WM. A. BRUETTE, doing business as Dent Laboratory, New York, N. Y.
Filed November 14, 1927. Serial No. 257,523. PUBLISHED JANUARY 10, 1928. Class 6.

240,095. ANTISEPTIC AND GERMICIDE. WM. A. BRUETTE, doing business as Dent Laboratory, New York, N. Y.
Filed November 14, 1927. Serial No. 257,522. PUBLISHED JANUARY 10, 1928. Class 6.

240,096. LADIES' AND MEN'S HATS. ITALIAN HAT IMPORTERS, INC., New York, N. Y.
Filed November 12, 1927. Serial No. 257,510. PUBLISHED JANUARY 3, 1928. Class 39.

240,097. MISSES' AND LADIES' SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SHU-STILES, INC., St. Louis, Mo.
Filed November 11, 1927. Serial No. 257,445. PUBLISHED JANUARY 3, 1928. Class 39.

240,098. LIQUID COLD CREAM, ASTRINGENT, NIGHT CREAM, AND FACE POWDER. GRATIA BARRE LACOSTE, doing business as Gratia Barre, Minneapolis, Minn.
Filed November 11, 1927. Serial No. 257,422. PUBLISHED JANUARY 10, 1928. Class 6.

240,099. COMPOSITION FOR REMOVING TARVIA, ASPHALT, AND OILS FROM AUTOMOBILES AND PAINTED SURFACES. MARSHALL P. KLEINHANS, Easton, Pa.
Filed November 11, 1927. Serial No. 257,421. PUBLISHED JANUARY 10, 1928. Class 6.

240,100. LUBRICATING OILS AND GREASES. ROBERT HICKMAN BLACKBURN, doing business as Blackburn Oil Co., Spartanburg, S. C.
Filed November 19, 1927. Serial No. 257,781. PUBLISHED JANUARY 10, 1928. Class 15.

240,101. MINERAL OIL USED AS AN INSULATOR AND WATERPROOFING IN ELECTRIC CABLES. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed November 12, 1927. Serial No. 257,516. PUBLISHED JANUARY 10, 1928. Class 15.

240,102. FINGER RINGS. NATHAN MILLER, New York, N. Y.
Filed November 14, 1927. Serial No. 257,554. PUBLISHED JANUARY 10, 1928. Class 28.

240,103. LUBRICATING OILS. MID-WEST OIL COMPANY, Kansas City, Kans.
Filed November 8, 1927. Serial No. 257,245. PUBLISHED JANUARY 10, 1928. Class 15.

240,104. THERMIONIC VACUUM TUBES FOR RADIO RECEIVING AND TRANSMITTING APPARATUS. HYTRON CORPORATION, Salem, Mass.
Filed November 8, 1927. Serial No. 257,236. PUBLISHED JANUARY 10, 1928. Class 21.

240,105. SANITARY-NAPKIN SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed October 17, 1927. Serial No. 256,196. PUBLISHED JANUARY 3, 1928. Class 44.

240,106. READY-MIXED PAINTS, LACQUER, VARNISH, AND ENAMEL PAINTS. W. P. FULLER & Co., San Francisco, Calif.
Filed October 15, 1927. Serial No. 256,116. PUBLISHED JANUARY 3, 1928. Class 16.

240,107. READY-MIXED PAINT, LACQUER, VARNISH, AND ENAMEL PAINT. W. P. FULLER & Co., San Francisco, Calif.
Filed October 15, 1927. Serial No. 256,113. PUBLISHED JANUARY 3, 1928. Class 16.

240,108. READY-MIXED PAINTS, LACQUER, VARNISH, AND ENAMEL PAINT. W. P. FULLER & Co., San Francisco, Calif.
Filed October 15, 1927. Serial No. 256,110. PUBLISHED JANUARY 3, 1928. Class 16.

240,109. CERTAIN NAMED PAINT PRODUCTS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed October 12, 1927. Serial No. 255,962. PUBLISHED JANUARY 10, 1928. Class 16.

240,110. MEDICINAL PREPARATION FOR DIABETES. P. V. CHEMICAL CO., Seattle, Wash.
Filed October 10, 1927. Serial No. 255,869. PUBLISHED JANUARY 10, 1928. Class 6.

240,111. DRY PASTE, READY-MIXED, AND ENAMEL PAINTS. NORFOLK PAINT & VARNISH COMPANY, Quincy and Atlantic, Mass.
Filed October 10, 1927. Serial No. 255,859. PUBLISHED JANUARY 3, 1928. Class 16.

240,112. PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, COMPACTS, LOTION FOR THE SKIN AND HAIR, VEGETAL, BRILLIANTINE, BANDOLINE, FACE CREAM, ROUGE, LIP STICKS, BATH SALTS, SACHET AND DUSTING POWDER. CHERAMY, INC., New York, N. Y.
Filed October 10, 1927. Serial No. 255,838. PUBLISHED JANUARY 10, 1928. Class 6.

240,113. FRESH FRUITS—VIZ, APPLES. WENATCHEE-OKANOGAN CO-OPERATIVE FEDERATION, Wenatchee, Wash.
Filed October 7, 1927. Serial No. 255,782. PUBLISHED JANUARY 10, 1928. Class 46.

240,114. CANNED SALMON, CANNED FRUITS, BERRIES, AND VEGETABLES. MCGOVERN AND MCGOVERN, Seattle, Wash.
Filed September 30, 1927. Serial No. 255,455. PUBLISHED JANUARY 10, 1928. Class 46.

240,115. CANNED PIMIENTOS. FRANK MACMONNIES, INC., doing business as Framac Importing Co., New York, N. Y.
Filed September 22, 1927. Serial No. 255,066. PUBLISHED JANUARY 10, 1928. Class 46.

240,116. FURNITURE POLISH AND AUTOMOBILE POLISH. THE NORTHWOOD PRODUCTS CO., Philadelphia, Pa.
Filed September 19, 1927. Serial No. 254,930. PUBLISHED JANUARY 10, 1928. Class 16.

240,117. PASTE, SEMIPASTE, AND LIQUID PAINTS. C. A. WOOLSEY PAINT & COLOR CO., Jersey City, N. J.
Filed September 17, 1927. Serial No. 254,881. PUBLISHED JANUARY 3, 1928. Class 16.

240,118. SHEET METAL. HERRICK COMPANY, Boston, Mass.
Filed September 13, 1927. Serial No. 254,672. PUBLISHED JANUARY 10, 1928. Class 14.

240,119. ARTIFICIAL STONE. WALTER T. FELS, South Ozone Park, N. Y.
Filed August 15, 1927. Serial No. 253,496. PUBLISHED DECEMBER 6, 1927. Class 12.

240,120. MAGAZINE PUBLISHED MONTHLY. DOUBLEDAY PAGE & Co., Garden City, N. Y.
Filed November 23, 1927. Serial No. 257,972. PUBLISHED JANUARY 3, 1928. Class 38.

240,121. ANTISPASMODIC HYPNOTIC SEDATIVE. ASSOCIATED CHEMISTS, INC., New York, N. Y.
Filed November 12, 1927. Serial No. 257,499. PUBLISHED JANUARY 10, 1928. Class 6.

240,122. VARNISHES, LACQUERS, PASTE AND READY-MIXED PAINTS. MAUTZ PAINT AND GLASS COMPANY, Madison, Wis.
Filed November 11, 1927. Serial No. 257,427. PUBLISHED JANUARY 3, 1928. Class 16.

240,123. CANNED SQUAB-MEAT PASTE. RICHARD W. DYER, doing business as Dyer & Davis, Newfield, N. J.
Filed November 11, 1927. Serial No. 257,404. PUBLISHED JANUARY 10, 1928. Class 46.

240,124. COPPER PAINTS AND ANTICORROSIVE AND ANTIFOULING COMPOSITIONS IN THE NATURE OF PAINTS. WEBSTERS, LIMITED, Hull, England.
Filed November 8, 1927. Serial No. 257,259. PUBLISHED JANUARY 10, 1928. Class 16.

240,125. SLEDS EQUIPPED WITH WHEELS. POLLACK ROLLER RUNNER SLED CO., INC., Boston, Mass.
Filed November 8, 1927. Serial No. 257,252. PUBLISHED JANUARY 3, 1928. Class 22.

240,126. TOY ANIMALS. THE KENLY CO., East Orange, N. J.
Filed November 8, 1927. Serial No. 257,240. PUBLISHED DECEMBER 27, 1927. Class 22.

240,127. HAIR RESTORER. M. MARTIN BLAU, doing business as Martin Laboratories, Cleveland, Ohio.
Filed November 8, 1927. Serial No. 257,220. PUBLISHED JANUARY 10, 1928. Class 6.

240,128. LIQUID PREPARATION FOR THE TREATMENT OF GENERAL DISORDERS OF THE DIGESTIVE ORGANS. VICTOR A. POMPILIO, Mount Vernon, N. Y.
Filed November 7, 1927. Serial No. 257,195. PUBLISHED JANUARY 10, 1928. Class 6.

240,129. ALCOHOL RUBBING COMPOUNDS. JOHN L. LOMBARDO, doing business as J. L. Lombardo Co., Buffalo, N. Y.
Filed November 7, 1927. Serial No. 257,174. PUBLISHED JANUARY 10, 1928. Class 6.

240,130. ARTISTS' OIL AND WATER COLORS. POHLMEYER, INC., Wallington, N. J.
Filed November 5, 1927. Serial No. 257,118. PUBLISHED JANUARY 10, 1928. Class 16.

240,131. PAINTS IN DRY, PASTE, AND READY-MIXED FORM; VARNISHES, AND PREPARED SHELLAC. BARNET KIMLER, INC., doing business as Melrik Paint and Varnish Works, New York, N. Y.
Filed November 3, 1927. Serial No. 257,015. PUBLISHED JANUARY 10, 1928. Class 16.

240,132. CANNED FRUITS, VEGETABLES, AND DRIED FRUIT. CALIFORNIA CO-OPERATIVE PRODUCERS, Oakland, Calif.
Filed November 2, 1927. Serial No. 256,907. PUBLISHED JANUARY 10, 1928. Class 46.

240,133. CANNED FRUITS. CALIFORNIA CO-OPERATIVE PRODUCERS, Oakland, Calif.
Filed November 2, 1927. Serial No. 256,906. PUBLISHED JANUARY 10, 1928. Class 46.

240,134. SYNTHETIC RESIN COMPRISING IN COMBINATION A POLYHYDRIC ALCOHOL AND POLYBASIC ACID, WITH OR WITHOUT OTHER REACTING INGREDIENTS, WHICH HAS BEEN USED FOR BINDERS FOR ASBESTOS FIBERS, STICKERS FOR COMPOSITE MICA, MOLDED DENTURES, AND BINDERS FOR ABRASIVES. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed November 1, 1927. Serial No. 256,867. PUBLISHED JANUARY 3, 1928. Class 6.

240,135. SANITARY NAPKINS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed October 27, 1927. Serial No. 256,678. PUBLISHED JANUARY 3, 1928. Class 44.

240,136. FOOT-ARCH SUPPORTERS. ALBERT MAYER, Marseille, France.
Filed October 22, 1927. Serial No. 256,469. PUBLISHED JANUARY 3, 1928. Class 44.

240,137. SANITARY NAPKINS. DIANA MANUFACTURING COMPANY, Green Bay, Wis.
Filed October 22, 1927. Serial No. 256,454. PUBLISHED JANUARY 3, 1928. Class 44.

240,138. ICE SKATES. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill.
Filed October 20, 1927. Serial No. 256,348. PUBLISHED DECEMBER 27, 1927. Class 22.

240,139. CERTAIN NAMED PAINTS AND PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed October 19, 1927. Serial No. 256,285. PUBLISHED JANUARY 3, 1928. Class 16.

240,140. TOILET PREPARATIONS—NAMELY, COLD CREAM, VANISHING CREAM, AND OINTMENT FOR QUICK RELIEF OF CUTS AND BURNS. ANDREW B. VANDERBEEK, Paterson, N. J.
Filed October 10, 1927. Serial No. 255,883. PUBLISHED JANUARY 10, 1928. Class 6.

240,141. KIDNEY AND BLADDER MEDICINE. IDA CRENSHAW, Sacramento, Calif.
Filed December 11, 1926. Serial No. 241,329. PUBLISHED JANUARY 10, 1928. Class 6.

240,142. CERTAIN NAMED ELECTRICAL APPARATUS USED FOR THERAPEUTIC PURPOSES. CHARLES B. DADY, Los Angeles, Calif.
Filed November 23, 1926. Serial No. 240,488. PUBLISHED JANUARY 10, 1928. Class 44.

240,143. CANDY, PARTICULARLY A COFFEE CONFECTION. STONE CANDY COMPANY, San Francisco, Calif.
Filed November 22, 1926. Serial No. 240,453. PUBLISHED JANUARY 10, 1928. Class 46.

240,144. ELECTRIC SADIRONS. OTTO SPAHR, doing business as Spahr Electrical Appliance Company, Philadelphia, Pa.
Filed November 16, 1926. Serial No. 240,153. PUBLISHED JANUARY 10, 1928. Class 21.

240,145. REEL OIL. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed November 3, 1926. Serial No. 239,616. PUBLISHED JANUARY 10, 1928. Class 15.

240,146. CERTAIN NAMED PIECE GOODS. ARTHUR BEIR & Co. INC., New York, N. Y.
Filed November 2, 1926. Serial No. 239,561. PUBLISHED JANUARY 10, 1928. Class 42.

240,147. CERTAIN NAMED PIECE GOODS. ARTHUR BEIR & Co. INC., New York, N. Y.
Filed November 2, 1926. Serial No. 239,560. PUBLISHED JANUARY 10, 1928. Class 42.

240,148. CERTAIN NAMED PIECE GOODS. ARTHUR BEIR & Co. INC., New York, N. Y.
Filed November 2, 1926. Serial No. 239,559. PUBLISHED JANUARY 10, 1928. Class 42.

240,149. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. SIGMA ALPHA EPSILON FRATERNITY, Evanston, Ill.
Filed October 30, 1926. Serial No. 239,490. PUBLISHED JANUARY 3, 1928. Class 28.

240,150. FRESH VEGETABLES. JOSEPH L. BUDREAU, doing business as J. L. Budreau & Co., Savannah, Ga.
Filed October 18, 1926. Serial No. 238,770. PUBLISHED JANUARY 25, 1927. Class 46.

240,151. CANNED VEGETABLES. ATLANTIC CANNING Co., Atlantic, Iowa.
Filed October 16, 1925. Serial No. 238,693. PUBLISHED JANUARY 4, 1927. Class 46.

240,152. CHOCOLATE AND BONBONS. R. M. HAAN CANDY COMPANY, INC., New York, N. Y.
Filed October 6, 1926. Serial No. 238,216. PUBLISHED JANUARY 10, 1928. Class 46.

240,153. GASOLINE-PURIFYING INSTRUMENTALITIES FOR EXPLOSION MOTORS. PROTEX-A-MOTOR MANUFACTURING COMPANY, Exeter and Pittston, Pa.
Filed September 7, 1926. Serial No. 236,959. PUBLISHED FEBRUARY 1, 1927. Class 23.

240,154. PERFUMES AND FACE CREAMS—NAMELY, VANISHING CREAMS, CLEANING CREAMS, AND COLD CREAMS; POWDERS FOR ABSORBING EXCESS OIL FROM THE HAIR, LIP STICKS, TALCUM POWDERS, FACE POWDERS, FACE-POWDER CAKES, AND BRILLIANTINES IN BOTH SOLID AND LIQUID FORM. F. PROCHÁSKA LTD. Prague, Czechoslovakia.
Filed July 24, 1926. Serial No. 235,070. PUBLISHED JANUARY 10, 1928. Class 6.

240,155. DENTAL IMPRESSION TRAYS. PETER ANDREW HARRIS, doing business as Harris Bitray Company, Chicago, Ill.
Filed July 22, 1926. Serial No. 234,910. PUBLISHED JANUARY 3, 1928. Class 44.

240,156. PARLOR GAMES PLAYED WITH CARDS AND TABLE GAMES PLAYED WITH PIECES. RUSSELL MANUFACTURING COMPANY, Leicester, Mass.
Filed June 24, 1926. Serial No. 233,709. PUBLISHED JANUARY 3, 1928. Class 22.

240,157. FRESH CANTALOUPES, FRESH MELONS. J. W. ASHER CO., El Centro, Calif.
Filed June 17, 1926. Serial No. 233,349. PUBLISHED MARCH 22, 1927. Class 46.

240,158. FINGER-PRINTING APPARATUS SOLD AS A UNITARY OUTFIT COMPRISING INK CONTAINERS, ROLLERS, PLATES, SUPPORTS, CARDS, AND RECEPTACLES FOR PACKING THE IMPLEMENTS. WAGGENER FINGER PRINT CORPORATION, Memphis, Tenn.
Filed October 13, 1925. Serial No. 221,677. PUBLISHED JANUARY 10, 1928. Class 11.

240,159. BARN-DOOR CATCHES, CHAIN BOLTS, FOOT BOLTS, SURFACE BOLTS, ELBOW CATCHES, TRANSOM CATCHES, THUMB LATCHES, SASH FASTENERS, CHAIN FASTENERS, BARREL BOLTS, DOOR BOLTS, AND CUPBOARD TURNS, AND CATCHES. THE CHAMPION HARDWARE COMPANY, Geneva, Ohio.
Filed November 17, 1924. Serial No. 205,392. PUBLISHED MARCH 1, 1927. Class 25.

240,160. ELECTRICALLY-OPERATED FANS, ELECTRICALLY-OPERATED PUMPS, ELECTRICALLY-OPERATED VACUUM CLEANERS, ELECTRICALLY-OPERATED DISHWASHING MACHINES, ELECTRICALLY-OPERATED FLOOR-POLISHING MACHINES. AKTIEBOLAGET LUX, Lilla Essingen, near Stockholm, Sweden.
Filed March 18, 1924. Serial No. 193,980. PUBLISHED JANUARY 10, 1928. Class 21.

240,161. UMBRELLAS. POLAN, KATZ & CO., Baltimore, Md.
Filed November 10, 1927. Serial No. 257,380. PUBLISHED JANUARY 3, 1928. Class 41.

240,162. MEDICINAL, ANTISEPTIC, AND DEODORANT COMPOUND; TOOTH POWDER, TOOTH PASTE, TALCUM POWDER, MEDICATED TABLETS FOR THE RELIEF OF INDIGESTION AND AILMENTS OF THE THROAT, COLD CREAM, BATH SALTS. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed November 4, 1927. Serial No. 257,070. PUBLISHED JANUARY 10, 1928. Class 6.

240,163. LADIES' HATS. SMITH & HARTNETT, Philadelphia, Pa.
Filed November 5, 1927. Serial No. 257,126. PUBLISHED JANUARY 3, 1928. Class 39.

240,164. HEADACHE, NEURALGIA, AND NERVOUS AFFECTIONS REMEDY. J. KEY BROWN, Greenville, N. C.
Filed November 8, 1927. Serial No. 257,221. PUBLISHED JANUARY 10, 1928. Class 6.

240,165. LADIES' AND MISSES' HATS. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill.
Filed November 8, 1927. Serial No. 257,224. PUBLISHED JANUARY 3, 1928. Class 39.

240,166. COMPOUND FOR CLEANING WASTE PIPES. THE HOLMERDEN CO., Stratford, Conn.
Filed November 8, 1927. Serial No. 257,235. PUBLISHED JANUARY 10, 1928. Class 6.

240,167. SALAD OIL AND MAYONNAISE. MUSHER AND COMPANY, Washington, D. C.
Filed November 8, 1927. Serial No. 257,247. PUBLISHED JANUARY 3, 1928. Class 46.

240,168. MALT EXTRACT. PROVIDENCE MALT COMPANY, Providence, R. I.
Filed November 8, 1927. Serial No. 257,253. PUBLISHED JANUARY 3, 1928. Class 46.

240,169. PREPARATION FOR CLEANING AUTOMOBILE RADIATORS AND MOTORS OF SCALE, RUST, GREASE, ETC. THE AFCO PRODUCTS CO., New Haven, Conn.
Filed November 9, 1927. Serial No. 257,265. PUBLISHED JANUARY 10, 1928. Class 6.

240,170. LADIES' HATS. MYERS HATS INC., New York, N. Y.
Filed November 9, 1927. Serial No. 257,302. PUBLISHED JANUARY 3, 1928. Class 39.

240,171. LADIES' DRESSES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed November 9, 1927. Serial No. 257,320. PUBLISHED JANUARY 3, 1928. Class 39.

240,172. HIGH-PROTEIN MACARONI. KANSAS CITY MACARONI & IMPORTING CO., doing business as American Beauty Macaroni Co., Kansas City, Mo.
Filed November 10, 1927. Serial No. 257,364. PUBLISHED JANUARY 3, 1928. Class 46.

240,173. CHILDREN'S PLAY SUITS, MEN'S AND BOYS' OVERALLS, JACKETS, AND PANTS. THE LAWRENCEBURG OVERALL MFG. CO., Lawrenceburg, Ind.
Filed November 10, 1927. Serial No. 257,371. PUBLISHED JANUARY 3, 1928. Class 39.

240,174. PIPES. A JAY PIPE CORP., New York, N. Y.
Filed November 14, 1927. Serial No. 257,549. PUBLISHED JANUARY 10, 1928. Class 8.

240,175. ROUNDWORM CAPSULES. THE J. R. WATKINS COMPANY, Winona, Minn.
Filed July 27, 1927. Serial No. 252,630. PUBLISHED JANUARY 10, 1928. Class 6.

240,176. MEDICINAL TABLETS ADAPTED FOR THE ALLEVIATIONS AND CURE OF BRONCHITIS, SMOKER'S THROAT, ETC. EVELYN GERTRUDE DOWSLEY, Lethbridge, Alberta, Canada.
Filed July 18, 1927. Serial No. 252,242. PUBLISHED JANUARY 10, 1928. Class 6.

240,177. LUBRICATING OILS. ROBERTS-REITZE OIL CORPORATION, Chicago, Ill.
Filed July 18, 1927. Serial No. 252,220. PUBLISHED JANUARY 3, 1928. Class 15.

240,178. REFLECTING ELECTRIC LAMPS FOR VEHICLES. ANTHONY CAMINETTI, Jr., San Francisco, Calif.
Filed July 16, 1927. Serial No. 252,146. PUBLISHED JANUARY 10, 1928. Class 21.

240,179. FRESH PEACHES. CHESLEY A. HADEN, Crozet, Va.
Filed July 15, 1927. Serial No. 252,101. PUBLISHED JANUARY 10, 1928. Class 46.

240,180. GUT FISHING LINES AND OTHER NAMED ARTICLES WHICH ARE USED IN FISHING. HENRY MILWARD & SONS, LIMITED, Redditch, England.
Filed July 14, 1927. Serial No. 252,055. PUBLISHED JANUARY 3, 1928. Class 22.

240,181. SOLVENTS FOR PAINTS AND VARNISHES. RALEIGH E. HUGHES, doing business as Dis-Solvs-It, Stege, Calif.
Filed July 11, 1927. Serial No. 251,840. PUBLISHED JANUARY 10, 1928. Class 16.

240,182. EFFERVESCENT MEDICINAL PREPARATIONS SOLD IN POWDER FORM AND USEFUL AS A LAXATIVE, RELIEVING INDIGESTION, NAUSEA, ACID CONDITION OF THE STOMACH, GAS, BILIOUSNESS, CONSTIPATION, AND AIDING GENERAL DIGESTIVE CONDITIONS. THE LA REGINA PRODUCTS COMPANY, Cleveland, Ohio.
Filed July 7, 1927. Serial No. 251,622. PUBLISHED JANUARY 10, 1928. Class 6.

240,183. HANDKERCHIEFS. THE ACHESON HARDEN CO., New York, N. Y.
Filed June 30, 1927. Serial No. 251,312. PUBLISHED AUGUST 23, 1927. Class 42.

240,184. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed June 25, 1927. Serial No. 251,114. PUBLISHED JANUARY 10, 1928. Class 42.

240,185. ASTRINGENTS, BEAUTY CREAMS, ROUGES, ETC. THE BOYD MANUFACTURING COMPANY, Birmingham, Ala.
Filed June 24, 1927. Serial No. 251,047. PUBLISHED JANUARY 10, 1928. Class 6.

240,186. GREASES FOR LUBRICATING PURPOSES. SIDNEY H. RUSKIN, doing business as The Lubro Company, Atlanta, Ga.
Filed June 21, 1927. Serial No. 250,863. PUBLISHED JANUARY 10, 1928. Class 15.

240,187. AN ELECTRIFYING APPARATUS, AND PARTICULARLY A RECTIFYING VALVE OF AN ELECTROLYTIC TYPE. LUCIEN LEVY, Paris, France.
Filed June 20, 1927. Serial No. 250,808. PUBLISHED JANUARY 10, 1928. Class 21.

240,188. CANDY. E. J. BRACH & SONS, doing business as Harriet Clark Candies, Chicago, Ill.
Filed June 11, 1927. Serial No. 250,867. PUBLISHED JANUARY 10, 1928. Class 46.

240,189. ELECTRIC VACUUM CLEANERS AND PORTABLE ELECTRIC BLOWERS. CLEMENTS MFG. CO., Chicago, Ill.
Filed June 10, 1927. Serial No. 250,295. PUBLISHED JANUARY 10, 1928. Class 21.

240,190. CANDY. WILLIAM J. MCGRATH, Little Rock, Ark.
Filed June 4, 1927. Serial No. 250,080. PUBLISHED JANUARY 10, 1928. Class 46.

240,191. MEATS—NAMELY, DRIED BEEF AND BACON. RAY D. DORSEY, doing business as R. D. Dorsey, Binghamton, N. Y.
Filed May 28, 1927. Serial No. 249,708. PUBLISHED JANUARY 10, 1928. Class 46.

240,192. RADIO AND AUTOMOBILE BATTERY-CHARGING EQUIPMENT. LIBERTY ELECTRIC CORPORATION, Stamford, Conn.
Filed May 16, 1927. Serial No. 249,074. PUBLISHED JANUARY 17, 1928. Class 21.

240,193. CANNED SARDINES. A/S EINAR HAUSVIK & Co., Bergen, Norway.
Filed May 10, 1927. Serial No. 248,740. PUBLISHED JANUARY 10, 1928. Class 46.

240,194. DEODORANTS AND GERMICIDES IN CRYSTAL FORM. ASSOCIATED CHEMISTS, INC., New York, N. Y.
Filed November 12, 1927. Serial No. 257,501. PUBLISHED JANUARY 10, 1928. Class 6.

240,195. A LIQUID TONIC CONTAINING ORGANIC IRON USED IN CONDITIONS WHERE IRON IS PRESCRIBED BY THE PHYSICIAN. ASSOCIATED CHEMISTS, INC., Brooklyn and New York, N. Y.
Filed November 12, 1927. Serial No. 257,502. PUBLISHED JANUARY 10, 1928. Class 6.

240,196. FISHING REELS. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed November 16, 1927. Serial No. 257,621. PUBLISHED JANUARY 3, 1928. Class 22.

240,197. POWDER PUFFS. BARONET MILLS, INC., New York, and College Point, N. Y.
Filed November 17, 1927. Serial No. 257,656. PUBLISHED JANUARY 10, 1928. Class 29.

240,198. SANITARY NAPKINS. THE MU-COL COMPANY, Buffalo, N. Y.
Filed November 17, 1927. Serial No. 257,696. PUBLISHED JANUARY 10, 1928. Class 44.

240,199. MEDICINAL COMPOUND FOR THE TREATMENT OF INDIGESTION, DYSPEPSIA, AND KINDRED AILMENTS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed November 18, 1927. Serial No. 257,742. PUBLISHED JANUARY 10, 1928. Class 6.

240,200. TOOTHBRUSHES. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 18, 1927. Serial No. 257,745. PUBLISHED JANUARY 10, 1928. Class 20.

240,201. CHEMICALS IN LIQUID FORM USED IN DYEING OPERATIONS. NYANZA COLOR & CHEMICAL CO. INC., New York, N. Y.
Filed November 22, 1927. Serial No. 257,932. PUBLISHED JANUARY 10, 1928. Class 6.

240,202. COAL-TAR DERIVATIVES—NAMELY, FOR RESORCIN (BOTH U. S. P. AND TECHNICAL GRADES) AND META NITRO PARA TOLUIDINE. PENNSYLVANIA COAL PRODUCTS COMPANY, Butler and Petrolia, Pa.
Filed November 26, 1927. Serial No. 258,095. PUBLISHED JANUARY 10, 1928. Class 6.

240,203. SALVE FOR THE TREATMENT OF HEAD COLDS, COUGHS, CATARRH, ASTHMA, CROUP, HOARSENESS, SORE THROAT, CHEST COLDS, HAY FEVER, PNEUMONIA, LARYNGITIS AND BRONCHITIS, INFLAMMATION OF THE EYELIDS, CHAPPED LIPS, AND SUNBURN. LLOYD M. MAGRUDER, New Orleans, La.
Filed November 28, 1927. Serial No. 258,131. PUBLISHED JANUARY 10, 1928. Class 6.

240,204. ACCELERATORS FOR RUBBER VULCANIZATION. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 1, 1927. Serial No. 258,264. PUBLISHED JANUARY 10, 1928. Class 6.

240,205. SYRUP CONSISTING OF COCOA, SUGAR, AND MALT. MARSHAK MALTMOLAK CO. INC., Brooklyn, N. Y.
Filed May 6, 1927. Serial No. 248,581. PUBLISHED JANUARY 3, 1928. Class 46.

240,206. GENERAL DISINFECTANT, DEODORANT, GERMICIDE, AND ANTISEPTIC. ARTHUR R. MAAS, doing business as A. R. Maas Chemical Co., Inc., Los Angeles, Calif.
Filed May 2, 1927. Serial No. 248,309. PUBLISHED DECEMBER 27, 1927. Class 6.

240,207. WORK AND DRESS SHIRTS, UNDERSHIRTS AND DRAWERS, UNION SUITS AND ALL LADIES', MEN'S, AND CHILDREN'S UNDERWEAR, ALSO SWEATERS, BATHING SUITS, ALL MADE OF KNITTED AND TEXTILE FABRICS. EQUITY HOSIERY MILLS, New York, N. Y.
Filed May 2, 1927. Serial No. 248,291. PUBLISHED JANUARY 3, 1928. Class 39.

240,208. MALT SYRUP. MARCUS S. WOODS, doing business as The M. S. Woods Company, Chattanooga, Tenn.
Filed April 22, 1927. Serial No. 247,879. PUBLISHED DECEMBER 27, 1927. Class 46.

240,209. LADIES' CLOTHING IN KNITTED, NETTED, AND TEXTILE FABRICS—NAMELY, WAISTS, STEP-INS, CHEMISES, BLOOMERS, NIGHTGOWNS, NEGLIGEES, PAJAMAS, PETTICOATS, AND UNDERWEAR. SIGMUND SPIELBERGER, New York, N. Y.
Filed April 21, 1927. Serial No. 247,830. PUBLISHED JANUARY 3, 1928. Class 39.

240,210. CANNED VEGETABLES. HOOPESTON CANNING CO., Hoopeston, Ill.
Filed April 1, 1927. Serial No. 246,751. PUBLISHED JANUARY 10, 1928. Class 46.

240,211. HOSIERY AND KNITTED UNDERWEAR FOR WOMEN AND CHILDREN—NAMELY, VESTS, DRAWERS, UNION SUITS, BRASSIÈRES, AND GIRDLES. MANDEL & COHEN, New York, N. Y.
Filed March 26, 1927. Serial No. 246,423. PUBLISHED JANUARY 3, 1928. Class 39.

240,212. OIL BURNERS. NATIONAL APPLIANCES INSTALLATIONS, INC., New York, N. Y., assignor to The Serve-Well Appliances Company, Inc., New York, N. Y.
Filed March 24, 1927. Serial No. 246,305. PUBLISHED JANUARY 10, 1928. Class 34.

240,213. TEMPERA, POSTER, AND SHOW-CARD COLORS. WALLBRUNN, KLING & CO., Chicago, Ill.
Filed March 17, 1927. Serial No. 245,940. PUBLISHED JANUARY 10, 1928. Class 16.

240,214. MECHANICAL TOY AIRPLANE WHIRLIGIGS, MERRY-GO-ROUNDS, AND LIKE TOYS. FRANK LABIN, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y.
Filed March 7, 1927. Serial No. 245,353. PUBLISHED JANUARY 3, 1928. Class 22.

240,215. A MECHANICAL TOY WHIRLIGIG OR MERRY-GO-ROUND. FRANK LABIN, doing business as Buffalo Toy and Tool Works, Buffalo, N, Y.
Filed March 7, 1927. Serial No. 245,352. PUBLISHED JANUARY 3, 1928. Class 22.

240,216. MECHANICAL TOYS—NAMELY, WHIRLIGIGS, FERRIS WHEELS, AND LIKE REVOLVING TOYS. FRANK LABIN, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y.
Filed March 7, 1927. Serial No. 245,350. PUBLISHED JANUARY 3, 1928. Class 22.

240,217. VARNISHES AND POLISHES FOR FURNITURE, PENCILS, AND MOTOR CARS. VEREIN FÜR CHEMISCHE INDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed February 16, 1927. Serial No. 244,481. PUBLISHED JANUARY 3, 1928. Class 16.

240,218. LINIMENT FOR THE TREATMENT OF RHEUMATISM, PLEURISY, SPRAINS, LUMBAGO, BRUISES, NEURALGIA, LARYNGITIS, TOOTHACHE, STIFF MUSCLES, CHEST AND HEAD COLDS, SUNBURN, AND MOSQUITO BITES. AL STRIKER, Newark, N. J.
Filed February 5, 1927. Serial No. 243,803. PUBLISHED JANUARY 10, 1928. Class 6.

240,219. AROMATIC STOMACH ELIXIR. TH. LAPPE, Neudietendorf, Thuringia, Germany.
Filed January 18, 1927. Serial No. 243,003. PUBLISHED JANUARY 10, 1928. Class 6.

240,220. LEAD AND ALLOYS. BEARIUM BEARINGS, INC., Buffalo, N. Y.
Filed January 14, 1927. Serial No. 242,810. PUBLISHED JANUARY 10, 1928. Class 14.

240,221. SUGAR-CARAMEL COLOR. WALLERSTEIN COMPANY, INC., New York, N. Y.
Filed January 3, 1927. Serial No. 242,324. PUBLISHED JANUARY 10, 1928. Class 6.

240,222. COFFEE. DWIGHT EDWARDS COMPANY, Portland, Oreg.
Filed December 13, 1926. Serial No. 241,401. PUBLISHED APRIL 5, 1927. Class 46.

240,223. WHEAT FLOUR. THE COLORADO MILLING & ELEVATOR CO., doing business as The Claflin Flour Mills, Denver, Colo., and Claflin, Kans.
Filed November 16, 1927. Serial No. 257,618. PUBLISHED JANUARY 17, 1928. Class 46.

240,224. COTTON WORK GLOVES AND MITTENS AND COTTON JERSEY GLOVES. THE NATIONAL MITTEN WORKS, Kokomo, Ind.
Filed November 14, 1927. Serial No. 257,556. PUBLISHED JANUARY 10, 1928. Class 39.

240,225. FRESH CITRUS FRUITS. ROCKY HILL CORPORATION, Exeter, Calif.
Filed November 12, 1927. Serial No. 257,486. PUBLISHED JANUARY 17, 1928. Class 46.

240,226. CANDY. PETER MITCHELL, doing business as Mitchell's Candy Shop, Bridgeport, Conn.
Filed November 12, 1927. Serial No. 257,483. PUBLISHED JANUARY 17, 1928. Class 46.

240,227. SCISSORS. J. A. HENCKELS, INC., New York, N. Y.
Filed November 11, 1927. Serial No. 257,412. PUBLISHED JANUARY 17, 1928. Class 23.

240,228. CIGARS. OLIVER T. HAMILTON, Indianapolis, Ind.
Filed November 11, 1927. Serial No. 257,410. PUBLISHED JANUARY 17, 1928. Class 17.

240,229. BOTTLE OPENERS AND FOLDING CORKSCREWS. VAUGHAN NOVELTY MFG. CO., Chicago, Ill.
Filed November 10, 1927. Serial No. 257,390. PUBLISHED JANUARY 17, 1928. Class 23.

240,230. AUTOMATIC COIN-CONTROLLED PHOTOGRAPH MACHINES OR APPARATUSES. JOHN PARCELL, New York, N. Y.
Filed November 10, 1927. Serial No. 257,378. PUBLISHED JANUARY 17, 1928. Class 26.

240,231. PILLOWS, COMFORTERS, AND BEDS. THE MARSHALL COMPANY, Grand Rapids, Mich.
Filed November 10, 1927. Serial No. 257,372. PUBLISHED JANUARY 17, 1928. Class 32.

240,232. WHEAT FLOUR. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn.
Filed November 10, 1927. Serial No. 257,361. PUBLISHED JANUARY 10, 1928. Class 46.

240,233. WRITING PAPER, ENVELOPS, AND BLANK POST CARDS. UNIVERSAL ART CRAFTS, INCORPORATED, Reno, Nev.
Filed November 9, 1927. Serial No. 257,324. PUBLISHED JANUARY 17, 1928. Class 37.

240,234. GREASEPROOF AND WATERPROOF WRAPPING PAPER. FRED RENTZ PAPER COMPANY, Chicago, Ill.
Filed November 8, 1927. Serial No. 257,230. PUBLISHED JANUARY 10, 1928. Class 37.

240,235. WHEAT FLOUR. WASHBURN CROSBY COMPANY, Minneapolis, Minn.
Filed November 18, 1927. Serial No. 257,767. PUBLISHED JANUARY 17, 1928. Class 46.

240,236. WOMEN'S AND CHILDREN'S DRESSES, SKIRTS, AND WAISTS. SUPERIOR DRESS CO., Philadelphia, Pa.
Filed November 18, 1927. Serial No. 257,747. PUBLISHED JANUARY 10, 1928 Class 39.

240,237. GINGHAM PIECE GOODS COMPOSED OF COTTON AND RAYON. PARKHILL MANUFACTURING COMPANY, Fitchburg, Mass.
Filed November 18, 1927. Serial No. 257,743. PUBLISHED JANUARY 10, 1928. Class 42.

240,238. SHOE SOLES AND HEELS. MARATHON SHOE CO., Wausau, Wis.
Filed November 18, 1927. Serial No. 257,738. PUBLISHED JANUARY 10, 1928. Class 39.

240,239. RUBBER HEELS, SOLES, AND HALF SOLES. JARMAN SHOE COMPANY, Nashville, Tenn.
Filed November 18, 1927. Serial No. 257,734. PUBLISHED JANUARY 10, 1928. Class 30.

240,240. STEEL BODIES FOR AUTOMOBILE TRUCKS, TANKS FOR TRUCKS, AND PONTOONS. THE WELDMECH COMPANY, Hattiesburg, Miss.
Filed November 16, 1927. Serial No. 257,648. PUBLISHED JANUARY 17, 1928. Class 19.

240,241. SPIRAL AND STRAIGHT WOUND FIBRE CANS. SEFTON NATIONAL FIBRE CAN CO., Maplewood, Mo.
Filed November 16, 1927. Serial No. 257,638. PUBLISHED JANUARY 17, 1928. Class 2.

240,242. PEARLED BARLEY. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed November 16, 1927. Serial No. 257,636. PUBLISHED JANUARY 10, 1928. Class 46.

240,243. PERIODICAL PUBLISHED SIX OR SEVEN TIMES EACH YEAR. SOCIETY OF THE SONS OF THE REVOLUTION IN THE STATE OF ILLINOIS, Chicago, Ill.
Filed August 21, 1924. Serial No. 201,722. PUBLISHED DECEMBER 20, 1927. Class 38.

240,244. LEADS FOR PENCILS. CHARLES R. KEERAN, doing business as Keeran Products Co., Chicago, Ill., assignor to Keeran Products Company, Chicago, Ill., a Corporation of Illinois.
Filed July 23, 1925. Serial No. 217,785. PUBLISHED JANUARY 17, 1928. Class 37.

240,245. HAND BAGS OR CARRYING CASES. THE BELBER TRUNK & BAG COMPANY, Philadelphia, Pa.
Filed October 29, 1925. Serial No. 222,494. PUBLISHED JANUARY 10, 1928. Class 3.

240,246. TIRE PATCHES AND TIRE BOOTS MADE OF RUBBER AND FABRIC. CHAUNCEY J. EVANS, doing business as Castus Mfg. Co., Los Angeles, Calif.
Filed July 14, 1926. Serial No. 234,507. PUBLISHED JANUARY 17, 1928. Class 35.

240,247. FRESH DECIDUOUS FRUITS AND DRIED FRUITS. SOUTHERN OREGON SALES, INC., Medford, Oreg.
Filed August 23, 1926. Serial No. 236,342. PUBLISHED JANUARY 17, 1928. Class 46.

240,248. FRESH DECIDUOUS FRUITS AND DRIED FRUITS. SOUTHERN OREGON SALES, INC., Medford, Oreg.
Filed August 23, 1926. Serial No. 236,343. PUBLISHED JANUARY 17, 1928. Class 46.

240,249. FRESH DECIDUOUS FRUITS AND DRIED FRUITS. SOUTHERN OREGON SALES, INC., Medford, Oreg.
Filed August 23, 1926. Serial No. 236,345. PUBLISHED JANUARY 17, 1928. Class 46.

240,250. A CONDIMENT IN POWDER FORM FOR SEASONING SOUPS, MEATS, AND SALADS. JOSEPH NUONES, New York, N. Y.
Filed September 24, 1926. Serial No. 237,689. PUBLISHED JANUARY 10, 1928. Class 46.

240,251. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS AND FLAVORS FOR MAKING THE SAME. MANY, BLANC & COMPANY, Chicago, Ill.
Filed September 29, 1926. Serial No. 237,916. PUBLISHED JANUARY 17, 1928. Class 45.

240,252. BUTLERS' SERVING TRAYS, PERCOLATORS, COFFEE URNS, AND CREAM AND SUGAR RECEPTACLES OF NICKEL-PLATED COPPER. ROBESON ROCHESTER CORPORATION, Rochester, N. Y.
Filed October 14, 1926. Serial No. 238,618. PUBLISHED JANUARY 17, 1928. Class 13.

240,253. BRAKE LINING. BENDIX BRAKE COMPANY, Chicago, Ill.
Filed December 29, 1926. Serial No. 242,077. PUBLISHED JANUARY 17, 1928. Class 35.

240,254. HYDRATED LIME FOR AGRICULTURAL USE. CHEMICAL LIME COMPANY, Bellefonte, Pa.
Filed January 18, 1927. Serial No. 242,984. PUBLISHED JANUARY 17, 1928. Class 10.

240,255. CERTAIN NAMED WEARING APPAREL. JANICE T. ADDISON, St. Petersburg, Fla.
Filed January 20, 1927. Serial No. 243,077. PUBLISHED JANUARY 10, 1928. Class 39.

240,256. WRAPPING PAPER, WAX PAPER, AND TOILET PAPER. HYMAN FISHMAN, doing business as H. Fishman Paper Co., New York, N. Y.
Filed March 2, 1927. Serial No. 245,088. PUBLISHED MAY 10, 1927. Class 37.

240,257. POWER-TRANSMISSION MACHINERY, MILL MACHINERY, ELEVATING AND CONVEYING MACHINERY, SUCH MACHINERY UTILIZING AS ELEMENTS THEREOF SHAFT SUPPORTS, SHAFT HANGERS, BEARINGS, SHAFT COUPLINGS, COLLARS, CLUTCHES, GEARS, SHEAVES, SPROCKETS, AND PULLEYS, AND SUCH ELEMENTS THEMSELVES SOLD BOTH IN COMPLETED MECHANISMS AND SEPARATE THEREFROM. DODGE MANUFACTURING CORPORATION, Mishawaka, Ind., and Oneida, N. Y.
Filed March 4, 1927. Serial No. 245,191. PUBLISHED JANUARY 17, 1928. Class 23.

240,258. IRISH POTATOES IN THEIR NATURAL STATE. HUB TRUCKERS ASSOCIATION, INC., Robertsdale, Ala.
Filed March 31, 1927. Serial No. 246,683. PUBLISHED JANUARY 17, 1928. Class 46.

240,259. CARD TABLES, COSTUMERS, FOLDING CHAIRS, MAGAZINE STANDS, RADIO TABLES AND CABINETS, TILT-TOP TABLES, TELEPHONE STANDS, END TABLES, AND LIVING-ROOM CHAIRS. UNION SPECIALTY WORKS, INC., Boonville, N. Y.
Filed April 15, 1927. Serial No. 247,501. PUBLISHED JANUARY 17, 1928. Class 32.

240,260. AIR COMPRESSORS USED IN CONNECTION WITH FLUID-ACTUATED ATOMIZERS FOR SPRAYING SURFACE-COATING MATERIALS. MELLISH HAYWARD COMPANY, Chicago, Ill.
Filed April 28, 1927. Serial No. 248,114. PUBLISHED JANUARY 17, 1928. Class 23.

240,261. CANNED FISH—NAMELY, CANNED SARDINES. GARNEAU & DE BRUYN, INC., New York, N. Y.
Filed May 11, 1927. Serial No. 248,828. PUBLISHED JANUARY 17, 1928. Class 46.

240,262. PHONOGRAPHS, PHONOGRAPH RECORDS, MAINSPRINGS, REPAIR PARTS, TONE ARMS, AND NEEDLES. JAMES K. POLK INC., Atlanta, Ga.
Filed May 7, 1927. Serial No. 248,648. PUBLISHED OCTOBER 25, 1927. Class 36.

240,263. COMBS, BARRETTES, HAIRPINS, ETC. DELETTREZ OF FRANCE, INC., New York, N. Y.
Filed May 12, 1927. Serial No. 248,880. PUBLISHED JANUARY 10, 1928. Class 40.

240,264. PREPARED MUSTARD. FLORIDA MUSTARD & SPICE CO. INC., Tampa, Fla.
Filed September 19, 1927. Serial No. 254,903. PUBLISHED JANUARY 10, 1928. Class 46.

240,265. LEATHER SHOES. GALE SHOE MANUFACTURING CO., Boston, Mass., and Manchester, N. H.
Filed September 22, 1927. Serial No. 255,060. PUBLISHED DECEMBER 27, 1927. Class 39.

240,266. WHEAT FLOUR. THE KANSAS MILLING COMPANY, doing business as The St. John Mills, St. John, Kans.
Filed September 23, 1927. Serial No. 255,110. PUBLISHED JANUARY 10, 1928. Class 46.

240,267. SALAD OIL. P. PASTENE & CO. INC., doing business as Purity Products Co., Boston, Mass.
Filed September 23, 1927. Serial No. 255,129. PUBLISHED JANUARY 10, 1928. Class 46.

240,268. FILMS FOR PROJECTING PURPOSES. PATHE EXCHANGE, INC., New York, N. Y.
Filed September 24, 1927. Serial No. 255,194. PUBLISHED JANUARY 17, 1928. Class 26.

240,269. CANNED FISH—NAMELY, SARDINES. SEEMAN BROTHERS, INC., New York, N. Y.
Filed September 27, 1927. Serial No. 255,319. PUBLISHED JANUARY 17, 1928. Class 46.

240,270. CIGARS. COMPANIA GENERAL DE TABACOS DE FILIPINAS, New York, N. Y.
Filed September 28, 1927. Serial No. 255,332. PUBLISHED JANUARY 17, 1928. Class 17.

240,271. CAMERAS. E. B. MEYROWITZ, INC., New York, N. Y.
Filed September 29, 1927. Serial No. 255,388. PUBLISHED JANUARY 17, 1928. Class 26.

240,272. FERTILIZER. THE UNITED STATES GUANO CO. INC., Baltimore, Md.
Filed September 29, 1927. Serial No. 255,410. PUBLISHED JANUARY 17, 1928. Class 10.

240,273. MALT SYRUP. BEST MALT PRODUCTS COMPANY, Chicago, Ill.
Filed October 1, 1927. Serial No. 255,480. PUBLISHED JANUARY 10, 1928. Class 46.

240,274. ARTICLES OF CUTLERY: RAZORS, SHEARS, SCISSORS, HAIR CLIPPERS, AND POCKETKNIVES. DOW H. LOBY, New York, N. Y.
Filed October 1, 1927. Serial No. 255,521. PUBLISHED JANUARY 17, 1928. Class 23.

240,275. BATHROOM FIXTURES—NAMELY, SOAP DISHES, SPONGE BASKETS, TOILET-PAPER HOLDERS, TUMBLER HOLDERS, TOWEL BARS, TOOTHBRUSH HOLDERS, SHAVING-BRUSH HOLDERS, AND SHAVING-CREAM HOLDERS. UTILITY MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed October 3, 1927. Serial No. 255,582. PUBLISHED JANUARY 17, 1928. Class 13.

240,276. MOTION-PICTURE FILMS. F B O PRODUCTIONS, INC., New York, N. Y.
Filed October 6, 1927. Serial No. 255,706. PUBLISHED JANUARY 17, 1928. Class 26.

240,277. PENCILS AND PAPER CUTTERS. THE FRITCHIE HOME COMPANY, Frederick, Md.
Filed October 10, 1927. Serial No. 255,845. PUBLISHED JANUARY 10, 1928. Class 37.

240,278. AXE HEADS. HARTWELL BROTHERS, Hollywood, Memphis, Tenn.
Filed October 10, 1927. Serial No. 255,848. PUBLISHED JANUARY 17, 1928. Class 23.

240,279. OPTICAL LENSES. WILLIAM W. FERRIS, Providence, R. I.
Filed October 13, 1927. Serial No. 256,037. PUBLISHED JANUARY 17, 1928. Class 26.

240,280. LADIES' SWEATERS, CHILDREN'S SWEATERS, AND KNITTED SUITS. R. H. MACY & CO., INC., New York, N. Y.
Filed October 15, 1927. Serial No. 256,129. PUBLISHED JANUARY 10, 1928. Class 39.

240,281. MEN'S AND WOMEN'S LEATHER GLOVES. R. H. MACY & CO., INC., New York, N. Y.
Filed October 15, 1927. Serial No. 256,130. PUBLISHED JANUARY 10, 1928. Class 39.

240,282. DAIRY FEED, STOCK FEED, AND POULTRY FEED. J. A. STURGES & COMPANY, Easthampton, Mass.
Filed October 20, 1927. Serial No. 256,383. PUBLISHED JANUARY 17, 1928. Class 46.

240,283. CERTAIN NAMED WEARING APPAREL. LEVY BROS., Louisville, Ky.
Filed October 21, 1927. Serial No. 256,411. PUBLISHED JANUARY 10, 1928. Class 39.

240,284. SHOES OF LEATHER, FABRIC, AND FABRIC AND LEATHER. BRAUER BROS. SHOE COMPANY, St. Louis, Mo.
Filed October 24, 1927. Serial No. 256,511. PUBLISHED JANUARY 10, 1928. Class 39.

240,285. MILK PRODUCT MADE OUT OF AGED AMERICAN CHEESE. SHEBOYGAN CHEESE COMPANY, Sheboygan, Wis.
Filed October 24, 1927. Serial No. 256,545. PUBLISHED JANUARY 17, 1928. Class 46.

240,286. CHOCOLATES. BOSTON CANDIES AND LUNCHONETTE, INC., doing business as Goody Shop, New York, N. Y.
Filed October 25, 1927. Serial No. 256,560. PUBLISHED JANUARY 17, 1928. Class 46.

240,287. CERTAIN NAMED WEARING APPAREL. ALFRED DECKER & COHN, INC., Chicago, Ill.
Filed October 27, 1927. Serial No. 256,651. PUBLISHED JANUARY 10, 1928. Class 39.

240,288. SHOE BINDING. WM. B. BLISS JR. & CO. INC., Boston, Mass.
Filed October 27, 1927. Serial No. 256,656. PUBLISHED JANUARY 10, 1928. Class 40.

240,289. FERTILIZER DISTRIBUTERS AND PEA-HULLERS. C. S. MCCALL, Bennettsville, S. C.
Filed October 27, 1927. Serial No. 256,679. PUBLISHED JANUARY 17, 1928. Class 23.

240,290. MEN'S AND BOYS' HATS. CHARLES LEVY'S SONS INC., New York, N. Y.
Filed October 28, 1927. Serial No. 256,732. PUBLISHED JANUARY 10, 1928. Class 39.

240,291. FURNITURE CUSHION SPRINGS AND FURNITURE UPHOLSTERY SPRINGS. NATIONAL SPRING & WIRE CO., Grand Rapids, Mich.
Filed October 28, 1927. Serial No. 256,739. PUBLISHED JANUARY 17, 1928. Class 32.

240,292. BREAD AND CAKE. GEORGE G. BARBER, New York, N. Y.
Filed October 29, 1927. Serial No. 256,761. PUBLISHED JANUARY 10, 1928. Class 46.

240,293. CANNED BAKED BEANS WITH PORK, PRESERVED FRUITS, ETC. FRED FEAR & CO., New York, N. Y.
Filed October 29, 1927. Serial No. 256,770. PUBLISHED JANUARY 10, 1928. Class 46.

240,294. BAKERY GOODS—NAMELY, CAKES AND COOKIES. GRENNAN BAKERIES, INC., Chicago, Ill.
Filed October 29, 1927. Serial No. 256,775. PUBLISHED JANUARY 17, 1928. Class 46.

240,295. OLIVES, PICKLES, SALAD DRESSING, AND MAYONNAISE. BLANKE-BAER EXTRACT & PRESERVING COMPANY, St. Louis, Mo.
Filed October 31, 1927. Serial No. 256,806. PUBLISHED JANUARY 10, 1928. Class 46.

240,296. WOMEN'S AND MISSES' ATHLETIC TYPE OF UNDERWEAR, BOTH KNITTED AND TEXTILE FABRICS. R. H. MACY & CO., INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,876. PUBLISHED JANUARY 10, 1928. Class 39.

240,297. LADIES' AND CHILDREN'S CAPS AND BONNETS. ELLA BLUMENTHAL, New York, N. Y.
Filed November 2, 1927. Serial No. 256,902. PUBLISHED JANUARY 10, 1928. Class 39.

240,298. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed November 2, 1927. Serial No. 256,920. PUBLISHED JANUARY 10, 1928. Class 42.

240,299. EMPTY BASE-METAL VANITIES, EMPTY BASE-METAL COMPACT CASES, AND EMPTY BASE-METAL LIP-STICK CONTAINERS. MAJESTIC METAL SPECIALTIES, INC., New York, N. Y.
Filed November 2, 1927. Serial No. 256,950. PUBLISHED JANUARY 17, 1928. Class 2.

240,300. MINCEMEAT. ATMORE & SON, INC., Philadelphia, Pa.
Filed November 3, 1927. Serial No. 256,991. PUBLISHED JANUARY 10, 1928. Class 46.

240,301. MALT SYRUP. BEST MALT PRODUCTS COMPANY, Chicago, Ill.
Filed November 3, 1927. Serial No. 256,995. PUBLISHED JANUARY 10, 1928. Class 46.

240,302. VENDING MACHINES FOR CONFECTIONS OR THE LIKE. THAD H. ROWLAND, Oberlin, Ohio.
Filed November 5, 1927. Serial No. 257,119. PUBLISHED JANUARY 17, 1928. Class 23.

240,303. CIGARS. C. O. BENNER CIGAR CO., Trumbauersville, Pa.
Filed November 8, 1927. Serial No. 257,218. PUBLISHED JANUARY 17, 1928. Class 17.

240,304. IMITATION-ALMOND PASTE. AMERONE PRODUCTS COMPANY, Wilmar, Calif.
Filed November 9, 1927. Serial No. 257,270. PUBLISHED JANUARY 10, 1928. Class 46.

240,305. MEAT AND BONE SCRAPS FOR POULTRY. G. WEISS' SONS, INC., New York, N. Y.
Filed November 9, 1927. Serial No. 257,327. PUBLISHED JANUARY 10, 1928. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

240,306. (CLASS 12. CONSTRUCTION MATERIALS.) THE LEHON COMPANY, Chicago, Ill. Filed Dec. 24, 1925. Serial No. 225,122.

So good that only the best Lumber Dealers sell it.

Particular description of goods.—Asphalt Roofing in Rolls and Sheets, Asphalt Roofing Shingles, Asphalt Roofing Strips, Waterproof Insulating and Sheathing Paper, Waterproof Insulating and Sheathing Fabrics, Plastic Roof Coatings, Mastic Floorings, Mastic Building Compounds, and Asphalt Flooring in Rolls, Fabric Base.
Claims use since Oct. 7, 1925.

240,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES RODITI, Paris, France. Filed Jan. 26, 1926. Serial No. 226,442.

Meller

Particular description of goods.—Perfumes.
Claims use since on or about Nov. 18, 1925.

240,308. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED J. KRANK, St. Paul, Minn. Filed Apr. 26, 1926. Serial No. 230,744.

WAVESET

Particular description of goods.—Hairdressing Preparations.
Claims use since Apr. 1, 1926.

240,309. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE DALLETT COMPANY, Philadelphia, Pa. Filed May 28, 1926. Serial No. 232,392.

QUIKSET

Particular description of goods.—Stencil Composition for Use in Sandblasting Letters, Designs, Etc., in Stone.
Claims use since July 1, 1925.

240,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. O. BEST FRUIT COMPANY, Phoenix, Ariz. Filed Feb. 23, 1927. Serial No. 244,789.

COPPER STATE

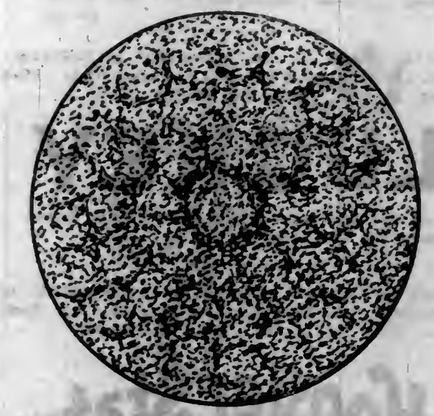
Particular description of goods.—Fresh Grapes, Apples, Oranges, Grapefruit, Lettuce, Melons, and Peaches.
Claims use since Feb. 1, 1927.

240,311. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed May 24, 1927. Serial No. 249,459.

STRATFORD

Particular description of goods.—Brick.
Claims use since January, 1927.

240,312. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) OLD DOMINION IRON & STEEL WORKS, INC., Richmond and Belle Isle, Richmond, Va. Filed Apr. 16, 1927. Serial No. 247,560.



Particular description of goods.—Iron Bars.
Claims use since Jan. 15, 1927.

240,313. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed May 24, 1927. Serial No. 249,460.

OLD DOMINION

Particular description of goods.—Brick.
Claims use since January, 1927.

240,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAIN CHEX CO. OF AMERICA, Valley Park, Mo. Filed May 25, 1927. Serial No. 249,535.

PAIN-CHEX

Particular description of goods.—Medicated Tablets for the Relief of Pain—Namely, Headache, Earache, Neuralgia, Toothache, Fever, Periodic Pains, Colds, and Chills.
Claims use since Jan. 4, 1927.

240,315. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HARRIS AND TIPOGRAPH, INC., New York, N. Y. Filed June 17, 1927. Serial No. 250,690.

Kaf Kid

Particular description of goods.—Hat and Cap Leather.
Claims use since Dec. 15, 1926.

240,316. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE S. MURPHY, INC., New York, N. Y. Filed June 22, 1927. Serial No. 250,931.

APRIKOTGLOSS

Particular description of goods.—A Confection in the Nature of a Coating for French and Danish Pastry, Pies, Cakes, Meringues, and the Like Adapted Also for Use as a Filling for Cakes and to Improve the Appearance and Taste of Baked Apples.
Claims use since January, 1927.

240,317. (CLASS 12. CONSTRUCTION MATERIALS.) THE LUCKEY LIME & SUPPLY CO., Luckey, Ohio. Filed Sept. 16, 1927. Serial No. 254,808.

LUCKEY

Particular description of goods.—Finishing Lime.
Claims use since July 1, 1921.

240,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FLAT ROCK CANNING CO., Flat Rock, Ind. Filed Oct. 1, 1927. Serial No. 255,507.

Hoosier State

Particular description of goods.—Canned Pumpkin.
Claims use since 1924.

240,319. (CLASS 37. PAPER AND STATIONERY.) PACIFIC STATIONERY & PRINTING CO., Portland, Oreg. Filed Nov. 15, 1927. Serial No. 257,595.

MULTNOMAH

Particular description of goods.—Lead Pencils.
Claims use since May 22, 1915.

240,320. (CLASS 15. OILS AND GREASES.) BODIE-HOOVER PETROLEUM CORPORATION, Chicago, Ill. Filed Nov. 22, 1927. Serial No. 257,914.

Pennstate

Particular description of goods.—Lubricating Oils.
Claims use since Oct. 25, 1926.

240,321. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SCHWARTZ GINGER ALE CO. INC., San Francisco, Calif. Filed Nov. 23, 1927. Serial No. 257,999.

Schwartz

Particular description of goods.—Bottled Ginger Ale.
Claims use since Mar. 1, 1908.

240,322. (CLASS 15. OILS AND GREASES.) EDINGTON GASOLINE & REFINING COMPANY, Los Angeles, Calif. Filed Dec. 8, 1927. Serial No. 258,627.

EDINGTON

Particular description of goods.—Petroleum Products—Namely, Gasoline, Kerosene, Distillate, Fuel Oil, and Lubricants.
Claims use since Mar. 10, 1926.

240,323. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LA VALLIERE COMPANY, New Orleans, La. Filed Dec. 13, 1927. Serial No. 258,875.

GOLDEN NARCISSUS (NARCISSE-D'OR) La Valliere

Particular description of goods.—Perfume Extract, Toilet Water, Face and Complexion Powders, Talcum Powders, Sachet Powder, and Bath Salt.
Claims use since Nov. 17, 1924.

240,324. (CLASS 12. CONSTRUCTION MATERIALS.) SPICKELMIER FUEL & SUPPLY CO., Indianapolis, Ind. Filed Dec. 19, 1927. Serial No. 259,143.

VENETIAN

Particular description of goods.—Stucco and Colored Plaster Wall Finishes.
Claims use since Nov. 1, 1926.

240,325. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BUFFALO METER COMPANY, Buffalo, N. Y. Filed Dec. 28, 1927. Serial No. 259,389.

NIAGARA

Particular description of goods.—Liquid Strainers, Enclosed Type with Inlet and Outlet Openings.
Claims use since Jan. 30, 1926.

240,326. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JAMES LAWRENCE FORKNER, Princeton, W. Va. Filed Dec. 28, 1927. Serial No. 259,399.

J. L. FORKNER'S
DOUBLE VALUE PAINT

Particular description of goods.—Semipaste House Paint, Interior and Exterior.
Claims use since June 9, 1924.

240,327. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LANGE CANNING CO., Eau Claire, Wis. Filed Jan. 7, 1928. Serial No. 259,812.

LANGE'S
"See What You Buy"

Particular description of goods.—Canned Fruits and Vegetables—Namely, Cut Stringless Wax Beans, Cut Stringless Green Beans, Red Beans, Pork and Beans, Early Variety Peas, Sweet Variety Peas, Tender Sweet Peas, Peas with Diced Carrots, Diced Carrots, Diced Beets, Mixed Vegetables, Assorted Vegetables for Salad, Vegetable Boiled Dinner, Cauliflower, Kraut Juice, Sauerkraut, Sweet Midget Pickles, Sweet Bread and Butter Pickles, Sandwich Dill Pickles, Sandwich Sweet Pickles, Apricots, Red Raspberries, Yellow Cling Peaches, Peach Jam, Golden Bantam Corn, and Sugar Corn.
Claims use since Dec. 9, 1922.

240,328. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OLD BEN COAL CORPORATION, Chicago, Ill. Filed Jan. 9, 1928. Serial No. 259,868.

VIRGINIAN

Particular description of goods.—Coal.
Claims use since June 15, 1926.

240,329. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) BUTLER MANUFACTURING COMPANY, Kansas City, Mo. Filed Jan. 14, 1928. Serial No. 260,081.

Glover

Particular description of goods.—Washers, Tumblers, Clarifiers, and Filters for Dry-Cleaning Apparatus and Deodorizers and Dryers.
Claims use since January, 1923.

240,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. A. GOETZ, doing business as Baltimore Chewing Gum Co., Baltimore, Md. Filed Jan. 23, 1928. Serial No. 260,501.

GOETZE'S

Particular description of goods.—Candy and Chewing Gum.
Claims use since 1913.

TRADE-MARK REGISTRATIONS RENEWED

29,004. NEWSPAPERS. Registered April 27, 1897. DEMETRIUS J. VLASTO. Renewed April 27, 1927, to Atlantis, Inc., New York, N. Y., a Corporation of New York, assignee.

30,754. A REMEDY FOR ASTHMA, BRONCHITIS, AND CATARRH. Registered October 26, 1897. S. KUTNOW & Co., London, England. Renewed October 26, 1927, to S. Kutnow and Company Limited, Leeds, England, a Corporation of Great Britain, assignee by mesne assignments.

31,171. BISCUITS. Registered January 25, 1898. HERMANN BAHLSEN. Renewed January 25, 1928, to H. Bahlsen's Keks-Fabrik Akt.-Ges., Hanover, Germany, a Corporation of Germany, assignee by mesne assignments.

59,430. HOSIERY. Registered January 8, 1907. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed January 8, 1927, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

59,431. HOSIERY. Registered January 8, 1907. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed January 8, 1927, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

60,012. HOSIERY. Registered January 22, 1907. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed January 22, 1927, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

61,376. HOSIERY. Registered March 19, 1907. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed March 19, 1927, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

64,131. HOSIERY. Registered July 23, 1907. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed July 23, 1927, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

67,408. FERTILIZERS. Registered February 4, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed February 4, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

67,409. FERTILIZERS. Registered February 4, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed February 4, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

67,432. SARDINES. Registered February 4, 1908. GLOBE PACKING COMPANY, Lubec and Eastport, Me. Renewed February 4, 1928, to Globe Canning Company, Lubec, Me., a Corporation of Maine, assignee.

67,433. SARDINES. Registered February 4, 1908. GLOBE PACKING COMPANY, Lubec and Eastport, Me. Renewed February 4, 1928, to Globe Canning Company, Lubec, Me., a Corporation of Maine, assignee.

67,476. CANNED FRUITS AND VEGETABLES. Registered February 4, 1908. GENEVA PRESERVING COMPANY, Geneva, N. Y., a Corporation of New York. Renewed February 4, 1928.

67,493. CANNED FRUITS AND VEGETABLES. Registered February 4, 1908. GENEVA PRESERVING COMPANY, Geneva, N. Y., a Corporation of New York. Renewed February 4, 1928.

67,494. CANNED FRUITS AND VEGETABLES. Registered February 4, 1908. GENEVA PRESERVING COMPANY, Geneva, N. Y., a Corporation of New York. Renewed February 4, 1928.

67,495. CANNED FRUITS AND VEGETABLES. Registered February 4, 1908. GENEVA PRESERVING COMPANY, Geneva, N. Y., a Corporation of New York. Renewed February 4, 1928.

67,560. CANDY. Registered February 11, 1908. THE AUCHINBAUGH CARAMEL COMPANY, Renewed February 11, 1928, to Honey Dew Butter Scotch Company, Indianapolis, Ind., a Corporation of Indiana, assignee.

67,682. FERTILIZERS. Registered February 11, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; and Memphis, Tenn. Renewed February 11, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

67,858. DRILL-GRINDING MACHINES. Registered February 25, 1908. WILMARTH & MORMAN CO., Grand Rapids, Mich. Renewed February 25, 1928, to Covel-Hanchett Co., Big Rapids, Mich., a Corporation of Michigan, assignee by mesne assignments.

67,868. CERTAIN METAL MANUFACTURES. Registered February 25, 1908. THE GILLETTE-VIBBER COMPANY, New London, Conn., a Corporation of Connecticut. Renewed February 25, 1928.

67,963. AN INTERNAL REMEDY FOR URINARY DISEASES. Registered March 3, 1908. ACTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION, Berlin, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

67,964. CERTAIN CHEMICALS. Registered March 3, 1908. BADISCHE ANILIN & SODA FABRIK, Ludwigshafen-on-the-Rhine, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

67,965. DYESTUFFS, INCLUDING INDIGO AND INDIGO PREPARATIONS, COAL-TAR DYES. Registered March 3, 1908. BADISCHE ANILIN & SODA FABRIK, Ludwigshafen-on-the-Rhine, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,043. SOAP. Registered March 3, 1908. CHEMISCHE WERKE HANSA GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hemelingen, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,059. LUBRICATING OILS AND LUBRICANTS. Registered March 3, 1908. CHEMISCHE WERKE HANSA GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hemelingen, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,080. ULTRAMARINE BLUE. Registered March 3, 1908. VEREINIGTE ULTRAMARINFABRIKEN AKTIEN-GESELLSCHAFT VORMALS LEVERKUS, ZELTNER & CONSORTEN, IN KÖLN AM RHEIN, Cologne-on-Rhine, Germany. Renewed March 3, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,111. A DERIVATIVE OR A SUBSTITUTE FOR ERGOT. Registered March 10, 1908. E. MERCK, Darmstadt, Germany. Registered March 10, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,169. SYRINGES AND SURGICAL IRRIGATORS. Registered March 10, 1908. HEINRICH A. KAYSAN, Cassel, Germany. Renewed March 10, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,238. CERTAIN MEDICINES AND TOILET PREPARATIONS. Registered March 17, 1908. BOKSCHIZKY and ROTKOWITZ. Renewed March 17, 1928, to Bockar & Rotkowitz, New York, N. Y., assignee.

68,302. LUBRICATING OILS AND LUBRICATING GREASES. Registered March 24, 1908. COOK & COKEFAIR, New York, N. Y. Renewed March 24, 1928.

68,321. FERTILIZERS. Registered March 31, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed March 31, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

68,515. CERTAIN CHEMICAL SOLUTIONS, COMPOUNDS, AND PREPARATIONS. Registered April 14, 1908. EASTMAN KODAK COMPANY, Rochester, N. Y., a Corporation of New York. Renewed April 14, 1928.

68,610. CERTAIN REMEDIES. Registered April 21, 1908. AMEDÉE FORTIER, Waterville, Me. Renewed April 21, 1928.

68,635. CERTAIN PHOTOGRAPHIC INSTRUMENTS AND SUPPLIES. Registered April 21, 1908. EASTMAN KODAK COMPANY, Rochester, N. Y., a Corporation of New York. Renewed April 21, 1928.

68,712. METAL POLISH. Registered April 28, 1908. RECKITT & SONS, LIMITED, Hull, England. Renewed April 28, 1928, to Reckitts (U. S. A.), Ltd., Hull, England, and New Brunswick, N. J., a Corporation of Great Britain, assignee.

68,758. CERTAIN METAL PLATES AND SHEETS. Registered April 28, 1908. AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa., a Corporation of New Jersey. Renewed April 28, 1928.

68,807. WHEAT FLOUR. Registered April 28, 1908. STANARD TILTON MILLING CO., St. Louis, Mo., a Corporation of Missouri. Renewed April 28, 1928.

68,931. POTATO PLANTERS, ATTACHMENTS THEREFOR, AND CORN PLANTERS. Registered May 5, 1908. POTATO IMPLEMENT CO., Traverse City, Mich., a Corporation of Michigan. Renewed May 5, 1928.

69,031. CANDY. Registered May 12, 1908. M. M. JOHANNSEN CANDY COMPANY, Dubuque, Iowa, a Corporation of Iowa. Renewed May 12, 1928.

69,142. PERFUMERY AND FACE TINTS. Registered May 19, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed May 19, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee.

69,144. TOILET POWDER. Registered May 19, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed May 19, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee.

69,175. SOAP. Registered May 26, 1908. BARCLAY & BARCLAY. Renewed May 26, 1928, to Barclay & Co., New York, N. Y., a Corporation of Delaware, assignee.

69,196. ROD AND PISTON PACKING. Registered May 26, 1908. CHARLESTON METALLIC PACKING CO., Charleston, S. C. Renewed May 26, 1928, to General Asbestos & Rubber Company, North Charleston, S. C., a Corporation of South Carolina, assignee.

69,240. LUNCH BISCUITS AND CRACKERS. Registered May 26, 1908. NEW ENGLAND BISCUIT CO., Worcester, Mass. Renewed May 26, 1928, to Dawley & Shepard, Westminster, Mass., a Partnership, assignee.

69,246. FERTILIZERS. Registered May 26, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed May 26, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

69,298. FERTILIZERS. Registered June 2, 1908. VIRGINIA-CAROLINA CHEMICAL COMPANY, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn. Renewed June 2, 1928, to Virginia-Carolina Chemical Corporation, Richmond, Va., a Corporation of Virginia, assignee.

69,328. ANTISEPTICS. Registered June 9, 1908. BARNES & HILLE. Renewed June 9, 1928, to A. C. Barnes Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

69,358. WHEAT FLOUR. Registered June 9, 1908. DULUTH-SUPERIOR MILLING COMPANY, Duluth, Minn., and New York, N. Y., a Corporation of Minnesota. Renewed June 9, 1928.

69,377. TONICS. Registered June 9, 1908. BARNES & HILLE. Renewed June 9, 1928, to A. C. Barnes Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

69,389. A MEDICATED PREPARATION FOR THE HAIR, SCALP, AND SKIN. Registered June 9, 1908. BARCLAY & BARCLAY. Renewed June 9, 1928, to Barclay & Co., New York, N. Y., a Corporation of Delaware, assignee.

69,404. HAIRPINS. Registered June 9, 1908. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed June 9, 1928.

69,436. A CERTAIN ENAMEL. Registered June 16, 1908. GEO. H. BAKER, New Haven, Conn. Renewed June 16, 1928, to Yarnall Paint Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

69,464. A VEGETABLE FAT OR OIL COMPOUND. Registered June 16, 1908. INDIA REFINING COMPANY, Philadelphia, Pa. Renewed June 16, 1928, to The Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware, assignee by mesne assignments.

69,465. A CERTAIN VEGETABLE FAT OR OIL COMPOUND. Registered June 16, 1908. INDIA REFINING COMPANY, Philadelphia, Pa. Renewed June 16, 1928, to The Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware, assignee by mesne assignments.

69,466. A CERTAIN VEGETABLE FAT OR OIL. Registered June 16, 1908. INDIA REFINING COMPANY, Philadelphia, Pa. Renewed June 16, 1928, to The Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware, assignee by mesne assignments.

69,488. PILLS. Registered June 16, 1908. BARCLAY & BARCLAY. Renewed June 16, 1928, to Barclay & Co., New York, N. Y., a Corporation of Delaware, assignee.

69,689. COFFEE. Registered June 30, 1908. MEYER BROTHERS COFFEE & SPICE COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed June 30, 1928.

69,774. STEAM-BOILER INJECTORS AND BOILER FEEDERS. Registered July 7, 1908. NATHAN MANUFACTURING CO., New York, N. Y., a Corporation of New York. Renewed July 7, 1928.

69,795. HAMS. Registered July 7, 1908. ROBERT B. WILDMAN, Leesburg, Va. Renewed July 7, 1928.

69,796. CHEMICAL FIRE-EXTINGUISHING APPARATUS. Registered July 7, 1908. AMERICAN-LA FRANCE FIRE ENGINE CO. Renewed July 7, 1928, to American-La France & Foamite Corporation, Elmira, N. Y., a Corporation of New York, assignee by mesne assignments.

69,798. CERTAIN TOILET PREPARATIONS AND MEDICINES. Registered July 7, 1908. BARCLAY & BARCLAY. Renewed July 7, 1928, to Barclay & Co., New York, N. Y., a Corporation of Delaware, assignee.

69,838. LAMP BURNERS. Registered July 7, 1908. WHEELING STAMPING CO., Wheeling, W. Va., a Corporation of West Virginia. Renewed July 7, 1928.

69,883. LUBRICATING OIL. Registered July 14, 1908. FISKE BROTHERS REFINING CO., New York, N. Y., a Corporation of New York. Renewed July 14, 1928.

69,888. WRITING PAPER AND ENVELOPS. Registered July 14, 1908. GEORGE B. HURD & CO. Renewed July 14, 1928, to George B. Hurd & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

69,889. WRITING PAPER AND ENVELOPS. Registered July 14, 1908. GEORGE B. HURD & CO. Renewed July 14, 1928, to George B. Hurd & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

69,975. CERTAIN JEWELRY. Registered July 21, 1908. WOLCOTT MFG. CO., Providence, R. I., a Corporation of Rhode Island. Renewed July 21, 1928.

70,002. CERTAIN TOOLS AND CUTLERY. Registered July 21, 1908. SEATTLE HARDWARE COMPANY, Seattle, Wash., a Corporation of Washington. Renewed July 21, 1928.

70,012. ELECTRICAL INSULATING COMPOUND. Registered July 21, 1908. MICA INSULATOR COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed July 21, 1928.

70,013. PRINTING MACHINES. Registered July 21, 1908. ADDRESSOGRAPH COMPANY, Chicago, Ill., a Corporation of Delaware. Renewed July 21, 1928.

70,021. MOUTH WASHES, POWDERS, AND PASTE USED AS DENTIFRICES. Registered July 21, 1908. KARL AUGUST LINGNER, Dresden, Germany. Renewed July 21, 1928, to The Odol Corporation, New York, N. Y., a Corporation of Delaware, assignee.

70,041. CERTAIN JEWELRY. Registered July 28, 1908. WOLCOTT Mfg. Co., Providence, R. I., a Corporation of Rhode Island. Renewed July 28, 1928.

70,045. COAL. Registered July 28, 1908. THE CAMPBELL'S CREEK COAL Co., Cincinnati, Ohio, a Corporation of Ohio. Renewed July 28, 1928.

70,046. COAL. Registered July 28, 1908. CABIN CREEK CONSOLIDATED COAL COMPANY, Charleston, W. Va. Renewed July 28, 1928, to Cabin Creek Consolidated Coal Company, Cincinnati, Ohio, a Corporation of West Virginia.

70,090. OILED CLOTHING. Registered July 28, 1908. A. J. TOWER COMPANY, Portland, Me., and Boston, Mass. Renewed July 28, 1928, to A. J. Tower Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

70,109. ADHESIVE PLASTERS. Registered July 28, 1908. MAGIC FOOT DRAFT Co. Renewed July 28, 1928, to Frederick Dyer Company, Jackson, Mich., successor.

70,215. PAINT. Registered August 11, 1908. CHAS. R. LONG, JR. Co., Louisville, Ky., a Corporation of Kentucky. Renewed August 11, 1928.

LABELS

REGISTERED MARCH 20, 1928.

33,665.—*Title:* BAR-KLAY MUD PIES. For Colored Dry Powder. EDNA CAMPBELL BARKER, San Diego, Calif. Published December 3, 1927.

33,666.—*Title:* K-MO-CROSS A NOVELTY CARD GAME. For a Novelty Card Game. GEORGE BRIDGE, South Plainfield, N. J. Published December 15, 1927.

33,667.—*Title:* ASSORTED NUTS IN CHOCOLATE. For Candy. BUNTE BROTHERS, doing business as Bunte, Chicago, Ill. Published August 30, 1927.

33,668.—*Title:* PYRAMID BOTTLE CAPS. For Bottle Caps. CROWN CORK & SEAL COMPANY, INC., Baltimore, Md. Published October 15, 1927.

33,669.—*Title:* HOME USE BOTTLE CAPS. For Bottle CAPS. CROWN CORK & SEAL COMPANY, INC., Baltimore, Md. Published October 15, 1927.

33,670.—*Title:* NON-FOULING 22 CAL. LONG RIFLE. For Loaded Metallic Cartridges. FEDERAL CARTRIDGE CORPORATION, Minneapolis, Minn. Published Nov. 23, 1927.

33,671.—*Title:* FOOD MATERIALS CORPORATION—VERITY BRAND. For Food Colors. FOOD MATERIALS CORPORATION, Chicago, Ill. Published November 30, 1927.

33,672.—*Title:* DUSTLESS DUST CLOTH. For a Dustless Dust Cloth. JULIUS H. HELFRITSH, New Orleans, La. Published November 5, 1927.

33,673.—*Title:* FREEZE-EM-PICKLE. For Meat-Curing Preparation. B. HELLER & COMPANY, Chicago, Ill. Published January 20, 1928.

33,674.—*Title:* $1000.00 GUARANTEED FLY KILLER. For Preparation for Killing Flies, Gnats, and Mosquitoes. B. HELLER & COMPANY, Chicago, Ill. Published February 1, 1928.

33,675.—*Title:* HOL-RY HEALTH-BREAD. For Bread. THE HOL-RY COMPANY, Duluth, Minn. Published February 9, 1927.

33,676.—*Title:* CERTIFIED MEDICINAL GRAPEFRUIT. For Canned and Fresh Grapefruit. W. J. HOWEY COMPANY, doing business as Howey-In-The-Hills Sanitarium, Howey, Fla. Published January 15, 1928.

33,677.—*Title:* HONEY-ROSE. For Face Cream. A. J. KRANK MFG. Co., St. Paul, Minn. Published November 22, 1927.

33,678.—*Title:* UNION MADE. For Matzos Which is Unleavened Bread in the Form of Flat Thin Sheets. MATZO BAKERS UNION OF G. N. Y., New York, N. Y. Published November 15, 1927.

33,679.—*Title:* EVERYBODY LOVES LUCKY LINDY. For Candy. V. N. Miller, Cincinnati, Ohio. Published March 2, 1928.

33,680.—*Title:* MILWAUKEE CLUB. For Malt Syrup. MILWAUKEE MALT SYRUP COMPANY, Milwaukee, Wis. Published January 4, 1928.

33,681.—*Title:* SWEET ADELINE. For Malt Syrup. MILWAUKEE MALT SYRUP COMPANY, Milwaukee, Wis. Published January 4, 1928.

33,682.—*Title:* MINUTE JELLY CONCENTRATE. For Concentrated Mixture of Fruit Juice, Sugar, Fruit Acid, and Powdered Pectin, Used as a Base to Make Jelly. Minute Jelly, Inc., Wilmington, Del., and Cranford, N. J. Published January 17, 1928.

33,683.—*Title:* BARLEY BLOOM. For Malt Syrup. PABST CORPORATION, Milwaukee, Wis. Published January 25, 1928.

33,684.—*Title:* HEAVY-WEIGHT. For Malt Syrup. PABST CORPORATION, Milwaukee, Wis. Published January 25, 1928.

33,685.—*Title:* OLD BURLEY. For Malt Syrup. PABST CORPORATION, Milwaukee, Wis. Published January 25, 1928.

33,686.—*Title:* MINER'S FAVORITE. For Malt Syrup. PABST CORPORATION, Milwaukee, Wis. Published January 25, 1928.

33,687.—*Title:* WATERSPAR VARNISH. For Varnish. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Published January 16, 1928.

33,688.—*Title:* WATERSPAR ENAMEL. For Paint Enamel. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Published January 16, 1928.

33,689.—*Title:* WATERSPAR LACQUER. For Lacquer. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Published January 16, 1928.

33,690.—*Title:* POLITE'S PURE PEPPER SAUCE. For Pepper Sauce. POLITE'S PURE PEPPER SAUCE COMPANY, Wilmington, N. C. Published October 18, 1927.

33,691.—*Title:* MY-T-PURE FLOUR. For Flour. PURITAN MILLS, Atlanta, Ga. Published December 20, 1927.

33,692.—*Title:* HAZEL BRAND EXTRACT. For Food-Flavoring Extract. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,693.—*Title:* HAZEL BRAND SPICES. For Spices. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,694.—*Title:* HAZEL BRAND PRESERVES. For Preserves. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,695.—*Title:* HAZEL BRAND FRUIT COOKIES. For Fruit Cookies. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,696.—*Title:* HAZEL BRAND CONDENSED LIQUID BLUING. For Bluing. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,697.—*Title:* HAZEL BRAND DRY PALE GINGER ALE. For Ginger Ale. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,698.—*Title:* HAZEL BRAND ASPARAGUS. For Asparagus. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,699.—*Title:* HAZEL BRAND ASPARAGUS TIPS. For Asparagus Tips. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,700.—*Title:* HAZEL BRAND SPINACH. For Spinach. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,701.—*Title:* HAZEL BRAND WONDER AMMONIA. For Ammonia. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,702.—*Title:* HAZEL BRAND BARTLETT PEARS. For Bartlett Pears. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,703.—*Title:* HAZEL BRAND SLICED PINEAPPLE. For Sliced Pineapple. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,704.—*Title:* HAZEL BRAND APRICOTS. For Apricots. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,705.—*Title:* HAZEL BRAND ROYAL ANNE CHERRIES. For Royal Anne Cherries. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,706.—*Title:* HAZEL BRAND YELLOW CLING PEACHES. For Yellow Cling Peaches. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,707.—*Title:* HAZEL BRAND PEANUT BUTTER. For Peanut Butter. GEO. RASMUSSEN Co., Chicago, Ill. Published September 30, 1926.

33,708.—*Title:* SANTRO NIPPLE. For Nipples. JULIUS SCHMID, INC., New York, N. Y. Published January 20, 1928.

33,709.—*Title:* NIF-TE-PAL. For Cold Cream. JULIUS WM. SMITH, doing business as Nif-te-Pal Laboratories, St. Paul, Minn. Published October 3, 1927.

33,710.—*Title:* MRS. SOOS' SECRET HUNGARIAN GOULASH. For Hungarian Goulash. ELIZABETH SOOS, Chicago, Ill. Published December 1, 1927.

33,711.—*Title:* SUPER SERVICE. For Electric Cigar Lighters. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,712.—*Title:* SUPER SERVICE. For Radiator Hose. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,713.—*Title:* SUPER SERVICE. For Hydrometers. SUPER SERVICE CORPORATION, Omaha, Nebr. Published January 15, 1927.

33,714.—*Title:* SUPER SERVICE. For Tester for Determining Freezing Point of Solutions of Water and Alcohol. SUPER SERVICE CORPORATION, Omaha, Nebr. Published January 15, 1927.

33,715.—*Title:* SUPER SERVICE. For S. S. Transmision Lining. SUPER SERVICE CORPORATION, Omaha, Nebr. Published January 15, 1927.

33,716.—*Title:* SUPER SERVICE. For Universal Tire Flaps. SUPER SERVICE CORPORATION, Omaha, Nebr. Published Jan. 15, 1927.

33,717.—*Title:* SUPER SERVICE. For Friction and Insulating Tape. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,718.—*Title:* SUPER SERVICE. For Ash Receivers. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,719.—*Title:* SUPER SERVICE. For Traffic Hydrometers. SUPER SERVICE CORPORATION, Omaha, Nebr. Published January 15, 1927.

33,720.—*Title:* JOY BOX. For Candy. STEPHEN F. WHITMAN & SON, INC., doing business as Whitman's, Philadelphia, Pa. Published January 19, 1928.

33,721.—*Title:* WRIGLEY'S PINK P. K. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

33,722.—*Title:* WRIGLEY'S PINK P. K. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

33,723.—*Title:* KILLROACH. For a Liquid Insecticide. VICTORY CHEMICAL Co., Philadelphia, Pa. Published January 3, 1928.

33,724.—*Title:* YALE WONDER-KOTE. For a Gloss Primer. YALE PAINT & SHELLAC COMPANY, Newark, N. J. Published January 2, 1926.

PRINTS

REGISTERED MARCH 20, 1928.

10,713.—*Title:* ELIZABETH ARDEN EVOLVES FOR YOU. For Venetian Toilet Preparations. ARDEN CHEMICAL Co., INC., doing business as Elizabeth Arden, New York, N. Y. Published January 19, 1928.

10,714.—*Title:* THE ARISTOCRAT OF WATER HEATERS. For Water Heaters. BASTIAN-MORLEY Co., La Porte, Ind. Published October 29, 1927.

10,715.—*Title:* KEYSTONE INSULATED AUTOMATIC STORAGE GAS WATER HEATER. For Water Heaters. BASTIAN-MORLEY Co., La Porte, Ind. Published September 23, 1927.

10,716.—*Title:* A WELCOME DISH ON THE SUPPER TRAY—THIS DAINTY, NOURISHING DESSERT. For Wheat Breakfast Food. CREAM OF WHEAT Co., Minneapolis, Minn. Published February 1, 1928.

10,717.—*Title:* STYLE. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published January 21, 1928.

10,718.—*Title:* IT'S A FACT—FOR DESSERT MY-T-FINE. For Dessert Preparations. THE D & C Co. INC., Wilmington, Del., and Brooklyn, N. Y. Published December 24, 1927.

10,719.—*Title:* THROUGHOUT THE YEAR—MY-T-FINE—FOR DESSERT. For Dessert Preparations. THE D & C Co. INC., Wilmington, Del., and Brooklyn, N. Y. Published December 24, 1927.

10,720.—*Title:* AND OURS ARE GARDEN FRESH—TOO. For Ketchup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published February 1, 1928.

10,721.—*Title:* TRUWORTH. For Men's and Boys' Suits. ISAACSON CLOTHING COMPANY, INC., Fort Smith, Ark. Published October 7, 1927.

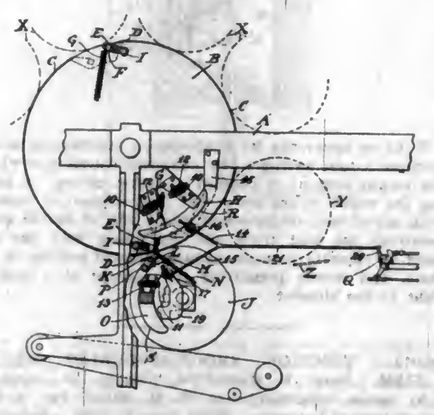
10,722.—*Title:* SANTRO BREAST FORM NIPPLES. For Nipples. JULIUS SCHMID, INC., New York, N. Y. Published January 20, 1928.

10,723.—*Title:* AMLO AERO MOTOR LUBRICATING OIL. For Motor Oil. TEXAS PACIFIC COAL AND OIL COMPANY, Fort Worth, Tex. Published January 24, 1928.

REISSUES

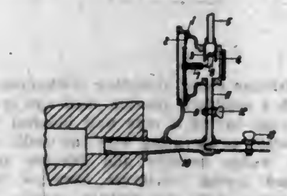
MARCH 20, 1928.

16,905. **DEVICE FOR ELIMINATING THE PRINTING OF IMPRESSIONS ON IMPRESSION-CYLINDER PACKINGS.** FRANK J. ALBERT, Guttenberg, N. J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed Jan. 28, 1928. Serial No. 250,304. Original No. 1,645,469, dated Oct. 11, 1927, Serial No. 162,136, filed Jan. 19, 1927. 22 Claims. (Cl. 101—409.)



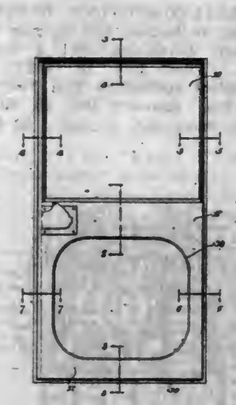
11. In a printing press of the character specified which is equipped with a sheet feeder, an automatic throw-off mechanism controlled by said feeder and an impression cylinder rotating on a fixed axis, means operated by the throw-off mechanism to cause the impression cylinder to retain the sheet beyond its delivery point, for protecting the cylinder packing from receiving an impression thereon.

16,906. **APPARATUS FOR DELIVERING A MIXTURE OF GAS AND AIR.** GEORGE KEITH, London, England, assignor, by direct and mesne assignments, to James Keith & Blackman Company, London, England, a British Company. Filed Oct. 10, 1927. Serial No. 225,363. Original application filed Sept. 19, 1916, Serial No. 121,080. Divided and application filed May 24, 1917, Serial No. 170,789. Original No. 1,250,310, dated Dec. 18, 1917. 3 Claims. (Cl. 48—184.)



1. An apparatus for delivering a mixture of gas and a comburent medium for combustion, comprising, in combination, an injector device for injecting one of the constituents of the mixture, an inlet connection for the induced constituent, and a governing device interposed in the said inlet connection and adapted to govern the pressure of the induced constituent in dependence on the resistance offered to the flow of the mixture, said governing device comprising a valve and a diaphragm connected with said valve, and means for transmitting to said diaphragm the virtual pressure obtained at a point in the path of the mixture, for automatically controlling the amount of the induced constituent or medium in proportion to the amount of the constituent or medium delivered by said injector device.

16,907. **DOOR FOR AUTOMOBILE BODIES.** JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1927. Serial No. 231,399. Original No. 1,644,680, dated Oct. 11, 1927, Serial No. 738,345, filed Sept. 18, 1924. 15 Claims. (Cl. 296—44.)

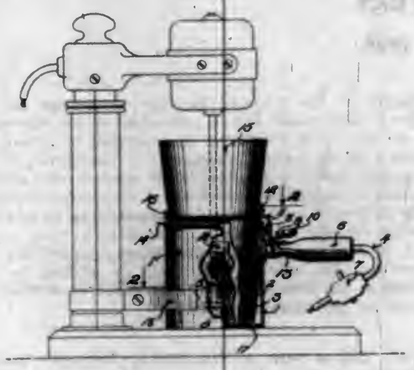


15. A metal rail structure for vehicle doors extending from the top to the bottom of the door and having a main transversely extending body portion of web cross section and a lateral flange at the outer edge of said transversely extending body portion, the inner edge portion of said body portion being disposed substantially perpendicularly to the plane of the door above the bottom of the window opening and extended substantially parallel to the plane of the door below said window opening.

16,908. **DRINK HEATER.** JOHN W. RITTMAN, JOHN ROOD, and WILLIAM DRIVER, Racine, Wis., assignors to Belle City Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed June 25, 1927. Serial No. 201,546. Original No. 1,567,679, dated Dec. 29, 1925, Serial No. 654,371, filed July 28, 1923. 6 Claims. (Cl. 219—43.)

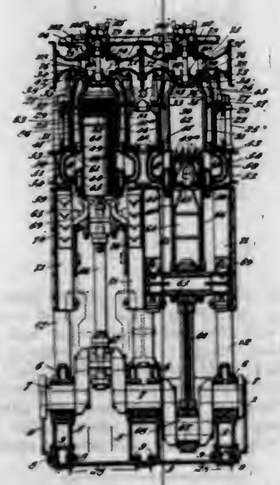
1. A portable drink heater comprising an inner vertically extending wall conoidal throughout substantially its entire height and adapted to receive from above and closely fit and contact with a removable conformably

conoidal cup, an electric heating element around the inner wall for heating the cup and its contents, an outer cylindrical wall fixedly connected at its upper end to the



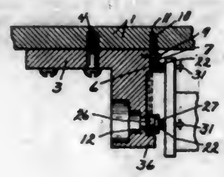
upper end of the inner wall, and a removable ring closing the space between the lower ends of the inner and outer walls.

16,909. INTERNAL-COMBUSTION ENGINE. ARTHUR JACKSON WEST, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed July 13, 1927. Serial No. 205,471. Original application filed Nov. 9, 1920, Serial No. 422,753. Renewed Dec. 29, 1925. Original No. 1,602,089, dated Oct. 5, 1926. 62 Claims. (Cl. 123—195.)



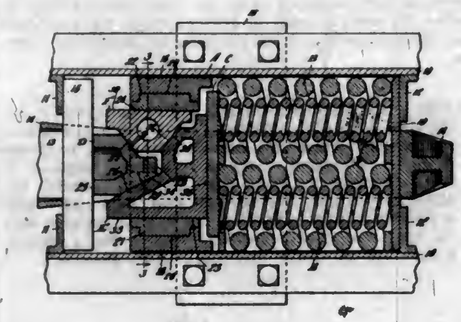
1. In an internal combustion engine, the combination of a cylinder structure having a piston bore portion and a laterally imperforate contracted portion extending to one end of the structure and stingle supporting means for the cylinder connected only to to the contracted portion beyond the combustion space for supporting the engine cylinder and for resisting axial working forces, whereby the piston bore portion and the part of the contracted portion between the supporting means and the piston bore portion are free to expand and to contract relatively to the supporting means and whereby said portion and part are relieved of tension stresses due to axial working forces.

16,910. TALKING-PICTURE MACHINE. THEODORE WILLARD CASE, Auburn, N. Y., assignor to Case Research Laboratory Incorporated, Auburn, N. Y., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 223,984. Original No. 1,638,393, dated Aug. 9, 1927, Serial No. 124,723, filed July 24, 1926. 6 Claims. (Cl. 179—100.)



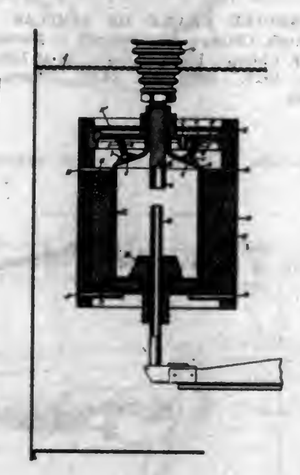
5. In an apparatus for producing or reproducing sound pictures, a base having a pair of spaced tracks over which the record element is adapted to move, means for holding the sound record portion of said element in contact with one of said tracks comprising a pair of spaced shoes overlying the said track and contacting wtih the element on opposite sides of the sound record portion of the same, and means permitting the passage of a line of light to the element.

16,911. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Nov. 8, 1926. Serial No. 147,161. Original No. 1,571,898, dated Feb. 2, 1926, Serial No. 617,678, filed Feb. 8, 1923. 14 Claims. (Cl. 213—32.)



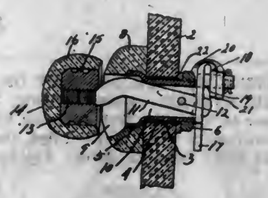
10. In a friction shock absorbing mechanism, the combination with a combined friction shell and spring cage; said spring cage having a rear wall integral therewith; of friction means co-operating with the shell, said means including a wedge member and friction shoes; and twin arranged spring resistance elements within the cage co-operating with the friction means, said shell and wedge having co-operating abutment means thereon for limiting the outward movement of the wedge, the abutment means of the wedge being formed integral therewith.

16,912. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Aug. 12, 1926. Serial No. 128,883. Original application filed Feb. 8, 1921, Serial No. 443,440. Divided and application filed Nov. 23, 1922, Serial No. 602,703. Original No. 1,551,514, dated Aug. 25, 1925. 13 Claims. (Cl. 200—150.)



6. In a fluid switch, a tank adapted to contain an insulating fluid, a receptacle within said tank, said receptacle being open at its bottom, a second receptacle within said first named receptacle, said second receptacle being adapted to be submerged in and filled with an insulating fluid, said second receptacle being provided with an opening at its top, a valve seated in said opening and adapted to open at a predetermined pressure, a stationary electrode located in said second receptacle, an electrode adapted to cooperate with said stationary electrodes and movable through an opening in the lower part of said second receptacle and granular cooling material between said receptacles.

16,913. LAVATORY FIXTURE. HARRY MACMILLAN, Philadelphia, Pa., assignor to National Metal Products Company, Philadelphia, Pa., a Common-Law Trust. Filed July 26, 1927. Serial No. 208,613. Original No. 1,591,429, dated July 6, 1926, Serial No. 594,368, filed Oct. 13, 1922. 14 Claims. (Cl. 4—67.)



7. In a flush tank operating mechanism a lever passing through a tank wall and pivoted upon a pin; a second lever within the tank and at right angles with the first mentioned lever and means to fulcrum the second lever for coaction with the first lever.

16,914. PROCESS FOR PREVENTING MINE EXPLOSIONS. WALTER E. TRENT, New York, N. Y., assignor to Trent Process Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 14, 1927. Serial No. 240,069. Original No. 1,642,912, dated Sept. 20, 1927, Serial No. 744,847, filed Oct. 20, 1924. 4 Claims. (Cl. 169—2.)

1. A process for preventing mine explosions consisting in applying a hydrocarbon oil having a high boiling point and a high flash point to a mine surface to entrap and retain finely divided coal particles contacting therewith to render said particles substantially incapable of an exothermic reaction.

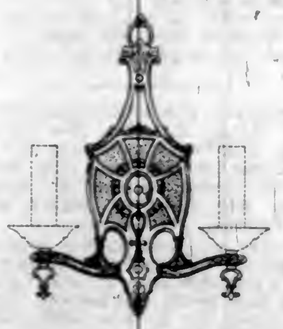
16,915. EDIBLE FAT. HARRY YUDOWITCH, now by change of name Harry Amos Newton, Brooklyn, N. Y. Filed Feb. 7, 1928. Serial No. 252,666. Original No. 1,601,229, dated Sept. 28, 1926, Serial No. 619,516, filed Feb. 16, 1923. 4 Claims. (Cl. 99—18.)

2. The process of making an edible vegetable fat having substantially the physical characteristics of chicken fat rendered in onions (such as flavor, odor, etc.) which consists in heating a vegetable fat with onions till there is brought about a partial destructive distillation of the onions, and then removing the onions.

DESIGNS

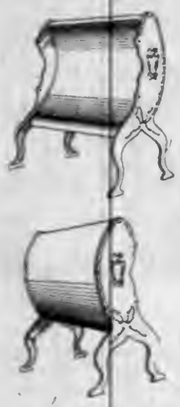
MARCH 20, 1928.

74,708. LIGHTING-FIXTURE BRACKET OR ARTICLE OF SIMILAR NATURE. HARRY AGLOW, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,771. Term of patent 3½ years.



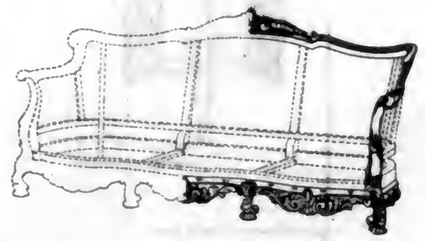
The ornamental design for a lighting fixture bracket or article of similar nature substantially as shown.

74,709. ELECTRIC HEATER. ELBERT C. BANNER, Buffalo, N. Y. Filed Jan. 11, 1928. Serial No. 24,815. Term of patent 7 years.



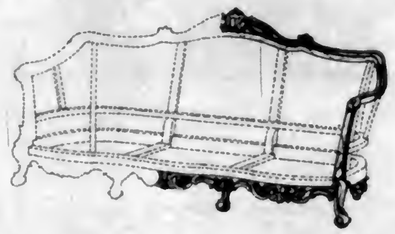
The ornamental design for an electric heater, as shown.

74,710. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1927. Serial No. 24,631. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown.

74,711. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1927. Serial No. 24,632. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown.

74,712. BOWL OR SIMILAR ARTICLE. CHARLES C. BEAM, Cumberland, Md. Filed Jan. 12, 1928. Serial No. 24,835. Term of patent 14 years.



The ornamental design for a bowl or similar article as shown.

74,713. PITCHER OR SIMILAR ARTICLE. CHARLES C. BEAM, Cumberland, Md. Filed Jan. 18, 1928. Serial No. 24,912. Term of patent 14 years.



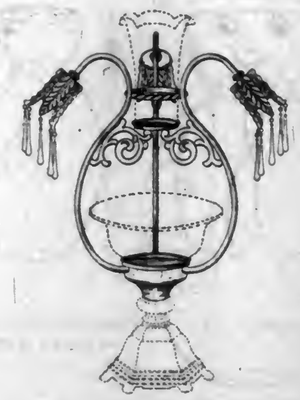
The ornamental design for a pitcher or similar article as shown.

74,714. SIGN. STANLEY GEORGE BELSCH, Detroit, Mich. Filed Mar. 25, 1927. Serial No. 21,320. Term of patent 3½ years.



The ornamental design for a sign, as shown.

74,715. LIGHTING FIXTURE. MAURICE BLOCK, Chicago, Ill., assignor to Block Portelier Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1927. Serial No. 23,745. Term of patent 3½ years.



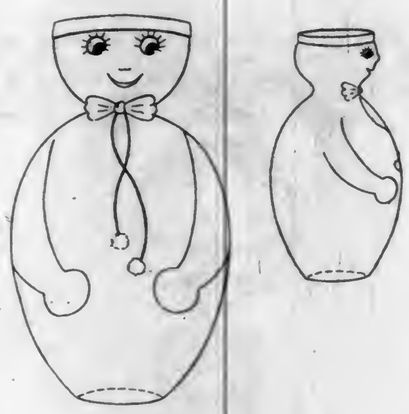
The ornamental design for a lighting fixture substantially as shown.

74,716. LIGHTING FIXTURE. MAURICE BLOCK, Chicago, Ill., assignor to Block Portelier Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1927. Serial No. 23,848. Term of patent 3½ years.



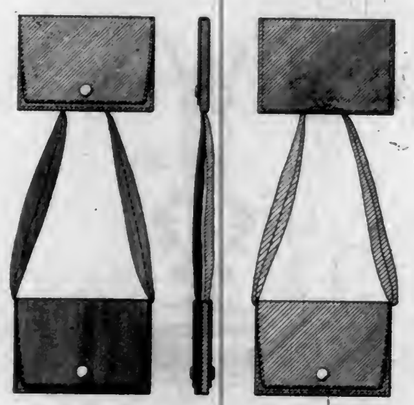
The ornamental design for a lighting fixture substantially as shown.

74,717. JAR OR SIMILAR CONTAINER. LENORE BOATRIGHT, Sausalito, Calif. Filed Dec. 19, 1927. Serial No. 24,543. Term of patent 3½ years.



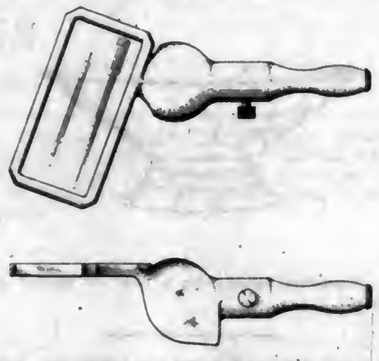
The ornamental design for a jar or similar container as shown.

74,718. VANITY PURSE. PAULINE B. BOWEN, Minneapolis, Minn. Filed Feb. 28, 1927. Serial No. 20,924. Term of patent 3½ years.



The ornamental design for a vanity purse as shown.

74,719. ILLUMINATED HAND MAGNIFYING GLASS. CHARLES T. BRADY, Detroit, Mich. Filed May 31, 1927. Serial No. 22,254. Term of patent 14 years.



The ornamental design for an illuminated hand magnifying glass, as shown.

74,720. DOLL. GRETCHEN CORMANY, San Francisco, Calif. Filed Dec. 14, 1927. Serial No. 24,479. Term of patent 7 years.



The ornamental design for a doll, as shown.

74,721. CURTAIN-POLE RING. JAMES O. CRAWFORD, Oakland, Calif., assignor to John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Jan. 11, 1928. Serial No. 24,819. Term of patent 3½ years.



The ornamental design for a curtain pole ring, substantially as shown.

74,722. CURTAIN-POLE BRACKET. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,800. Term of patent 3½ years.



The ornamental design for a curtain pole bracket, substantially as shown.

74,723. LAMP STANDARD. ANDREW DE VRIES, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1927. Serial No. 20,878. Term of patent 7 years.



The ornamental design for a lamp standard, as shown.

74,724. JAR OR SIMILAR CONTAINER. CLYDE L. EATON, Portland, Oreg., assignor to Cosmetique Laboratories of America, Portland, Oreg., a Corporation of Oregon. Filed June 16, 1927. Serial No. 22,445. Term of patent 3½ years.



The ornamental design for a jar or similar container, substantially as shown.

74,725. JAR OR SIMILAR CONTAINER. CLYDE L. EATON, Portland, Oreg., assignor to Cosmetique Laboratories of America, Portland, Oreg., a Corporation of Oregon. Filed June 16, 1927. Serial No. 22,446. Term of patent 3½ years.



The ornamental design for a jar or similar container, substantially as shown.

74,726. JAR OR SIMILAR CONTAINER. CLYDE L. EATON, Portland, Oreg., assignor to Cosmetique Laboratories of America, Portland, Oreg., a Corporation of Oregon. Filed June 16, 1927. Serial No. 22,447. Term of patent 3½ years.



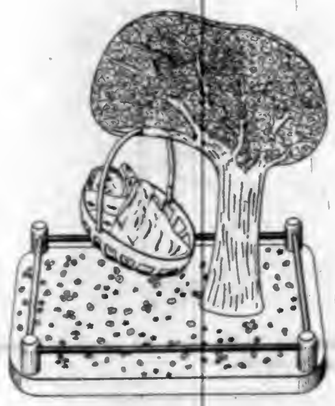
The ornamental design for a jar or similar container, substantially as shown.

74,727. JAR OR SIMILAR CONTAINER. CLYDE L. EATON, Portland, Oreg., assignor to Cosmetique Laboratories of America, Portland, Oreg., a Corporation of Oregon. Filed June 16, 1927. Serial No. 22,448. Term of patent 3½ years.



The ornamental design for a jar or similar container, substantially as shown.

74,728. TOY. JOSEPH EKSTEIN, New York, N. Y. Filed Dec. 22, 1927. Serial No. 24,596. Term of patent 7 years.



The ornamental design for a toy as shown.

74,729. LIGHTING UNIT. RALPH W. ERSKINE, South Bend, Ind., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 16, 1926. Serial No. 19,748. Term of patent 14 years.



The ornamental design for a lighting unit as shown.

74,730. LIGHTING STANDARD. RALPH W. ERSKINE, Mishawaka, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1927. Serial No. 24,721. Term of patent 14 years.

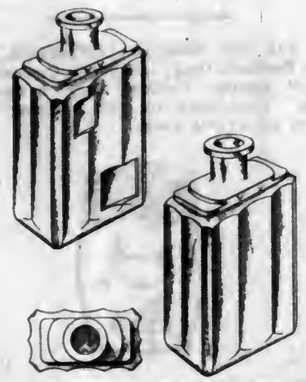


The ornamental design for a lighting standard substantially as shown.

74,731. HOLDER FOR GLASSES. SIMON W. FARBER, Brooklyn, N. Y. Filed Sept. 21, 1927. Serial No. 23,496. Term of patent 14 years.

The ornamental design for a holder for glasses substantially as shown.

74,732. BOTTLE. PIERRE L. FRAILEY, Cleveland, Ohio. Filed Dec. 30, 1927. Serial No. 24,700. Term of patent 14 years.



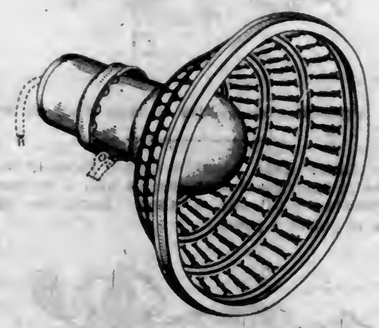
The ornamental design for a bottle substantially as shown and described.

74,733. BOW-TIE RACK. MAX GOLDMAN, Los Angeles, Calif. Filed Feb. 24, 1927. Serial No. 20,887. Term of patent 3½ years.



The ornamental design for a bow tie rack as shown.

74,734. COMBINED LAMP AND REFLECTOR. DAVID GAREY and WILLIAM B. TISHLER, Providence, R. I. Filed Oct. 27, 1927. Serial No. 28,913. Term of patent 7 years.



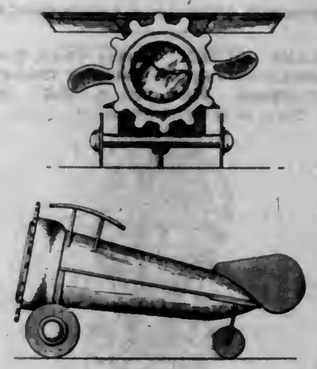
The ornamental design for a combined lamp and reflector substantially as shown and described.

74,735. RADIATOR CAP. GEORGE E. GRAVENSTINE, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 19, 1927. Serial No. 24,553. Term of patent 7 years.



The ornamental design for a radiator cap, as shown.

74,736. CLOCK CASE. ISEDORE GREENGUS, Providence, R. I. Filed Oct. 12, 1927. Serial No. 28,737. Term of patent 7 years.



The ornamental design for a clock case substantially as shown.

74,737. LAMP COLUMN. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories, Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,688. Term of patent 7 years.



The ornamental design for a lamp column, as shown.

74,738. LAMP COLUMN. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,689. Term of patent 7 years.



The ornamental design for a lamp column, as shown.

74,739. LAMP COLUMN. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,690. Term of patent 7 years.



The ornamental design for a lamp column, as shown.

74,740. LAMP ARM. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,691. Term of patent 7 years.



The ornamental design for a lamp arm, as shown.

74,741. LAMP ARM. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,692. Term of patent 7 years.



The ornamental design for a lamp arm, as shown.

74,742. LAMP ARM. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,693. Term of patent 7 years.



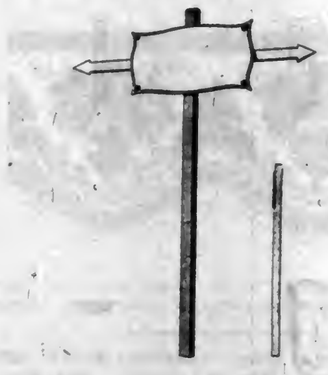
The ornamental design for a lamp arm, as shown.

74,743. LAMP ARM. JOSEPH GRIEN, Chicago, Ill., assignor to Hamilton-Ross Factories Inc., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 23,694. Term of patent 7 years.



The ornamental design for a lamp arm, as shown.

74,744. SIGNPOST. BENJAMIN F. GRIMSHAW, Stockton, Calif. Filed May 18, 1927. Serial No. 22,035. Term of patent 3½ years.



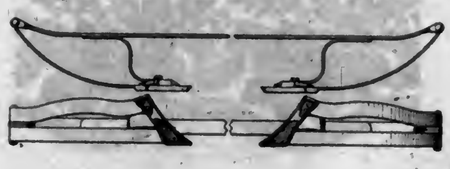
The ornamental design for a signpost as shown.

74,745. DISPENSING-PUMP CASING. OKLA H. HERSHMAN, Indianapolis, Ind. Filed Nov. 16, 1927. Serial No. 24,148. Term of patent 14 years.



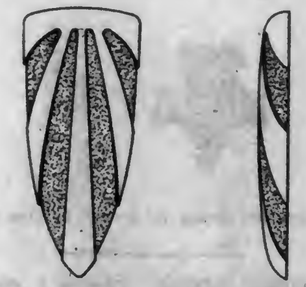
The ornamental design for a dispensing pump casing, as shown.

74,746. VEHICLE BUMPER. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 21, 1927. Serial No. 24,578. Term of patent 14 years.



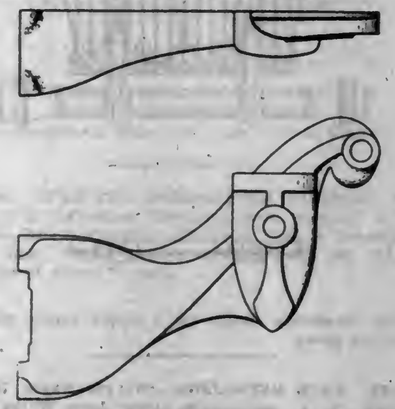
The ornamental design for a vehicle bumper substantially as shown.

74,747. CLAMP PLATE. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,615. Term of patent 14 years.



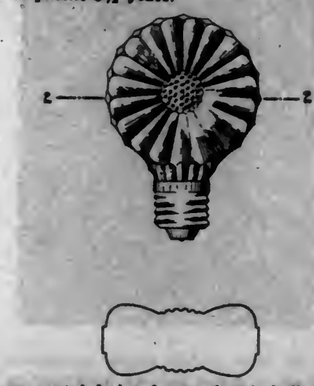
The ornamental design for a clamp plate substantially as shown.

74,748. SUPPORT ARM. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,618. Term of patent 14 years.



The ornamental design for a support arm substantially as shown.

74,749. ELECTRIC BULB. HENRY D. KADEL, Brooklyn, N. Y. Filed Nov. 8, 1927. Serial No. 24,037. Term of patent 3½ years.



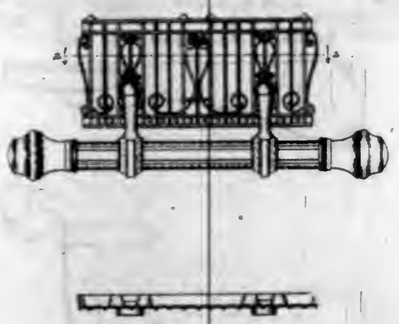
The ornamental design for an electric bulb, as shown.

74,750. WALL LIGHTING FIXTURE. ARTHUR KRAUSE, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 23,623. Term of patent 7 years.



The ornamental design for a wall lighting fixture as shown.

74,751. CASKET HANDLE. CHARLES I. MCCLELLAND, Richmond, Ind., assignor to McClelland Casket Hardware Company, Richmond, Ind., a Corporation of Indiana. Filed Jan. 5, 1928. Serial No. 24,759. Term of patent 3½ years.



The ornamental design for a casket handle substantially as shown.

74,752. LACE MEDALLION. WALTER MEADS, Hightstown, N. J., assignor to Acme Lace Works, Inc., Hightstown, N. J., a Corporation of New Jersey. Filed Dec. 13, 1927. Serial No. 24,472. Term of patent 3½ years.



The ornamental design for lace medallion, as shown.

74,753. BELT SLIDE. WILLIAM J. MORSE, Attleboro, Mass. Filed Apr. 8, 1926. Serial No. 17,216. Term of patent 7 years.



The ornamental design for a belt slide, substantially as shown.

74,754. VALANCE FOR WINDOW DRAPERIES. ROBERT J. MURRAY, Philadelphia, Pa., assignor to Francis A. Bruner, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed Oct. 11, 1927. Serial No. 23,720. Term of patent 7 years.



The ornamental design for a valance for window draperies, substantially as shown and described.

74,755. VALANCE FOR WINDOW DRAPERIES. ROBERT J. MURRAY, Philadelphia, Pa., assignor to Francis A. Bruner, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed Oct. 11, 1927. Serial No. 23,721. Term of patent 7 years.



The ornamental design for a valance for window draperies, substantially as shown and described.

74,756. VALANCE FOR WINDOW DRAPERIES. ROBERT J. MURRAY, Philadelphia, Pa., assignor to Francis A. Bruner, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed Nov. 2, 1927. Serial No. 23,979. Term of patent 7 years.



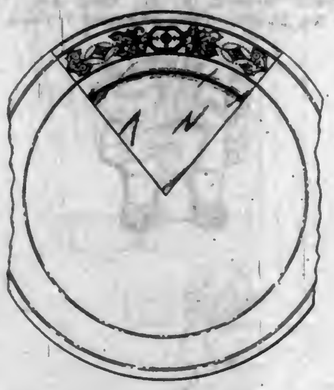
The ornamental design for a valance for window draperies, substantially as shown and described.

74,757. CIGAR LIGHTER. GEORGE M. NORTON, Minneapolis, Minn. Filed Dec. 24, 1927. Serial No. 24,629. Term of patent 7 years.



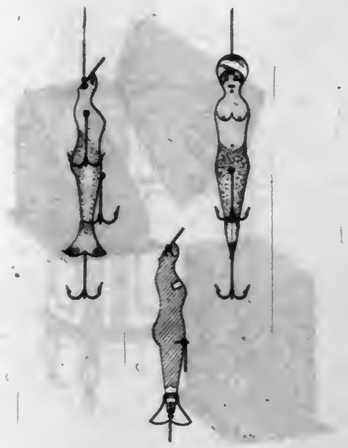
The ornamental design for a cigar lighter, as shown.

74,758. PLATE OR SIMILAR ARTICLE. JOHN E. PHILLIPS, Chicago, Ill., assignor to Mitchell-Woodbury Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 13, 1927. Serial No. 23,083. Term of patent 7 years.



The ornamental design for a plate or similar article substantially as shown and described.

74,759. FISH LURE. ERNEST PRIEUR, Flint, Mich. Filed Nov. 19, 1927. Serial No. 24,209. Term of patent 7 years.



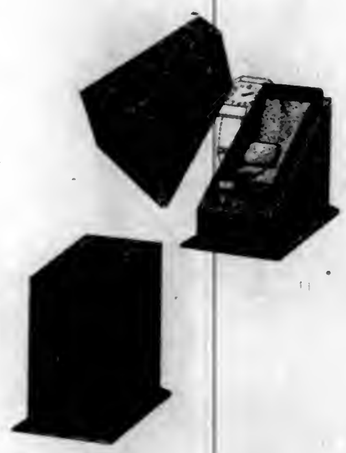
The ornamental design for a fish lure, as shown.

74,760. BULB FOR HYDROMETER SYRINGE. WILLIAM A. REYNOLDS, Cleveland, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 8, 1927. Serial No. 23,669. Term of patent 7 years.



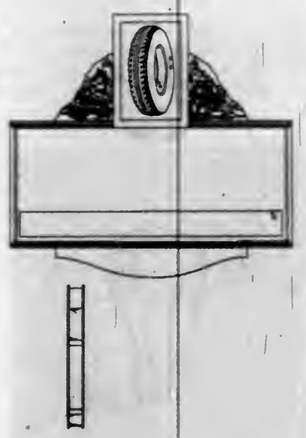
The ornamental design for a bulb for hydrometer syringe substantially as shown.

74,761. DISPLAY CASE. SAUL RITTER, New York, N. Y., assignor to Simon Bruner, Far Rockaway, N. Y. Filed Aug. 26, 1927. Serial No. 23,209. Term of patent 3½ years.



The ornamental design for a display case as shown.

74,762. SIGN. HARRY G. RUSSELL, Battle Creek, Mich., assignor to Consolidated Electric Sign Corporation, Chicago, Ill. Filed May 12, 1927. Serial No. 21,947. Term of patent 3½ years.



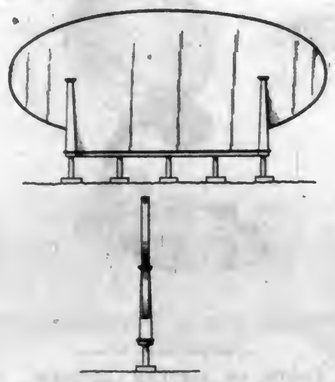
The ornamental design for a sign, as shown.

74,763. BRIDGE LAMP OR THE LIKE. FREDERICK SCHWARTZ, Brooklyn, N. Y. Filed Jan. 9, 1928. Serial No. 24,786. Term of patent 7 years.



The ornamental design for a bridge lamp or the like, as shown.

74,764. SIGNBOARD. HERBERT LOUIS SELLE, Waco, Tex. Filed June 28, 1927. Serial No. 22,587. Term of patent 3½ years.



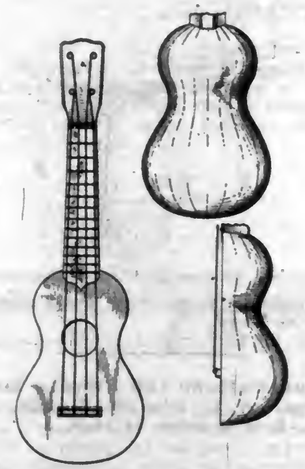
The ornamental design for a signboard as shown.

74,765. ADVERTISING DISPLAY FORM. FRED A. THOMPSON, Newark, N. J. Filed Aug. 11, 1927. Serial No. 23,059. Term of patent 7 years.



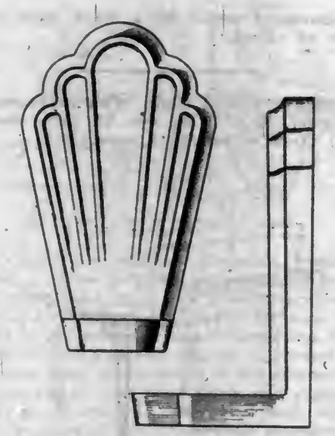
The ornamental design for an advertising display form as shown.

74,766. GUITAR OR SIMILAR ARTICLE. NICOLA TURTURRO, New York, N. Y. Filed June 8, 1922. Serial No. 2,513. Term of patent 14 years.



The ornamental design for a guitar or similar article, as shown and described.

74,767. LIGHTING-FIXTURE WALL BRACKET. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, a Corporation of New York. Filed Jan. 12, 1928. Serial No. 24,838. Term of patent 3½ years.



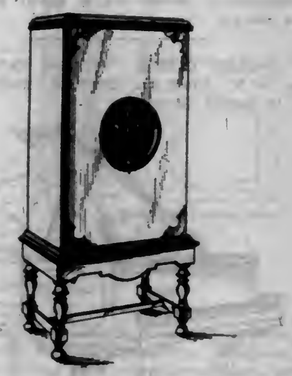
The ornamental design for a lighting fixture wall bracket substantially as shown and described.

74,768. RADIOCABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc., a Corporation of New York. Filed Nov. 25, 1927. Serial No. 24,278. Term of patent 7 years.



The ornamental design for a radiocabinet, substantially as shown.

74,769. RADIOCABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc., a Corporation of New York. Filed Nov. 25, 1927. Serial No. 24,282. Term of patent 7 years.



The ornamental design for a radiocabinet, substantially as shown.

74,770. GRAND PIANO. WILLIAM ZAISER, Rockville Center, N. Y. Filed Dec. 23, 1926. Serial No. 20,130. Term of patent 14 years.



The ornamental design for a grand piano substantially as shown.

74,771. GRAND PIANO. WILLIAM ZAISER, Rockville Center, N. Y. Filed Dec. 23, 1926. Serial No. 20,131. Term of patent 14 years.



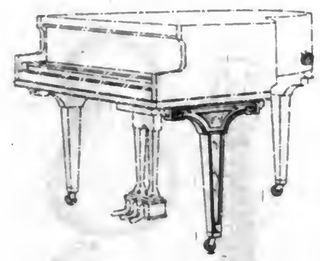
The ornamental design for a grand piano substantially as shown.

74,772. GRAND PIANO. WILLIAM ZAISER, Rockville Center, N. Y. Filed Dec. 23, 1926. Serial No. 20,132. Term of patent 14 years.



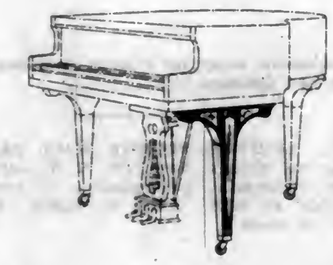
The ornamental design for a grand piano substantially as shown.

74,773. GRAND-PIANO LEG. WILLIAM ZAISER, Rockville Center, N. Y. Filed Dec. 23, 1926. Serial No. 20,133. Term of patent 14 years.



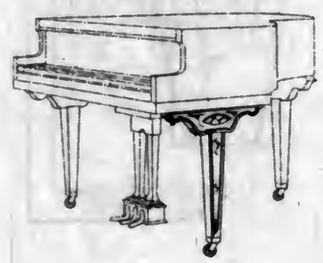
The ornamental design for a grand piano leg substantially as shown.

74,774. GRAND-PIANO LEG. WILLIAM ZAISER, Rockville Center, N. Y. Filed Dec. 23, 1926. Serial No. 20,134. Term of patent 14 years.



The ornamental design for a grand piano leg substantially as shown.

74,775. GRAND-PIANO LEG. WILLIAM ZAISER, Rockville Center, N. Y. Filed Dec. 23, 1926. Serial No. 20,135. Term of patent 14 years.

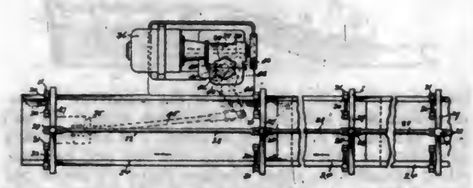


The ornamental design for a grand piano leg substantially as shown.

PATENTS

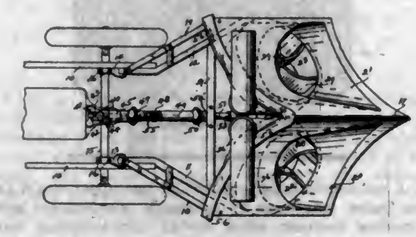
GRANTED MARCH 20, 1928.

1,662,808. CONVEYER. EDWIN H. ALLFREE and ALBERT R. WILLIAMS, Ironton, Ohio, assignors to The Ironton Engine Company, Ironton, Ohio, a Corporation of Ohio. Filed Feb. 18, 1926. Serial No. 89,128. 8 Claims. (Cl. 198—220.)



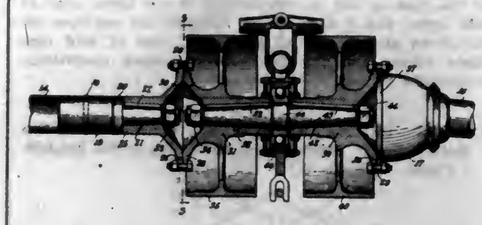
1. A conveyer of the character described comprising a plurality of connected and reciprocating conveyer sections, means for raising and lowering conveyer sections during their reciprocation, means for imparting reciprocating motion to said conveyer sections consisting of a motor operating a reduction gear, a crank operated by said reduction gear, a bell crank, a link connecting said crank with one end of the bell crank, and a link connecting the other end of the bell crank with the reciprocating conveyer sections for imparting a reciprocatory motion to said conveyer sections with a quick movement of said sections during their raising and a slow movement during the lowering of said conveyer sections.

1,662,809. STREET OR ROAD SNOWPLOW. LEO HERMAN ALTGILBERS, Fort Dodge, Iowa. Filed Jan. 18, 1927. Serial No. 161,777. 2 Claims. (Cl. 37—43.)



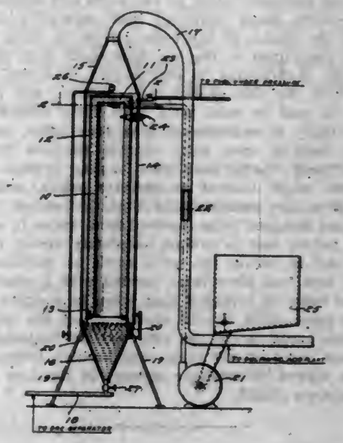
1. In combination with an automobile, a snow plow comprising a frame pivotally secured to the front axle of the automobile, a snow plow mounted on said frame and having a centrifugal fan, wheels for supporting the front end of said plow a certain distance from the roadway, a sleeve having a notch designed to embrace the end of the crank shaft of the motor of the automobile originally intended for the hand crank and engaging the catch pin in the crank shaft, a drive shaft secured at one end to said sleeve, a second shaft connected to the opposite end of said first mentioned drive shaft and having its free end squared, a third drive shaft having a square opening designed to embrace the free end of the second mentioned drive shaft and capable of sliding movement thereon, and a fourth drive shaft operatively connected to said third drive shaft and said centrifugal fan.

1,662,810. BRAKE-DRUM MOUNT FOR MOTOR VEHICLES. RAYMOND L. AUMACK, Roselle, N. J. Filed Aug. 13, 1927. Serial No. 212,624. 5 Claims. (Cl. 188—218.)



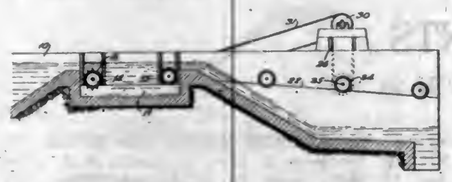
1. In a motor vehicle, a longitudinal sectional propeller shaft, flanged elements on the proximate ends of the outer sections, two brake drums rigidly fixed on the intermediate section, and flanges on the hubs of said drums bolted to the flanges of said elements.

1,662,811. ORE-ROASTING APPARATUS. DANA W. BOWERS, Wilderness, Va. Filed Aug. 6, 1927. Serial No. 211,230. 6 Claims. (Cl. 266—20.)



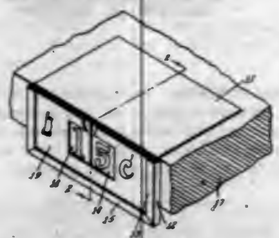
4. In apparatus for roasting ores and in combination, an open-bottomed vertically extending cylindrical retort, means for introducing air under pressure with which the ore to be roasted is finely intermingled to said retort at the upper end thereof and at such an angle as to produce rotation of the incoming air and ore, means for introducing fuel to the retort in the path of and at right angles to the incoming air and ore and a washing condenser surrounding the retort and combining therewith to provied a conduit for gases passing from the lower end of the retort.

1,662,812. TIMBER CONVEYER. FRANK BURNS, Gulfport, Miss. Filed Feb. 17, 1927. Serial No. 169,031. 3 Claims. (Cl. 61—30.)



1. The combination with a dam having a crest, of a plurality of conveyer rollers extending across a portion of the dam on the up stream side of the lower edge of said crest, and a downwardly inclined tail conveyer on the down stream side of said crest, one of said conveyer rollers and the tail conveyer being operatively connected.

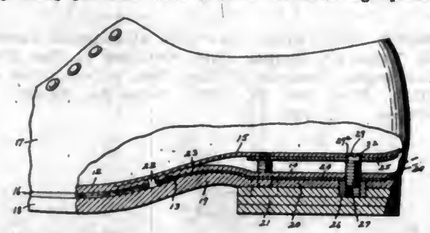
1,662,813. PRICE-CARD DEVICE. ALVIN E. COBB, Des Moines, Iowa. Filed July 5, 1927. Serial No. 203,509. 1 Claim. (Cl. 40—5.)



In a device of the class described, the combination of a holder formed of sheet metal and comprising upright body portion, means for detachably connecting it to a shelf, the marginal edges of the sides and bottom of the body portion being projected first outwardly and then toward the center of the body portion to form card receiving slots open at the top, four cards each being substantially rectangular in outline and of a size substantially half the size of the body portion, and being designed to rest in said slots with their adjacent edges substantially in engagement with each other, said cards having marked upon their central portions the words "Right" and "Left," and also having symbols thereon near the edges thereof to indicate prices, and a face plate of a size substantially that of two of the price cards and designed to be inserted from above in said slots of the holder and to extend completely across two price cards and to retain the price cards in position in the holder, said face plate being formed with a central opening and being so arranged that when in position in front of two price cards, it will conceal all of the symbols on the price cards except the two that are adjacent to the marginal edges of the price cards, which latter symbols may be viewed through the opening in the face card, for the purposes stated.

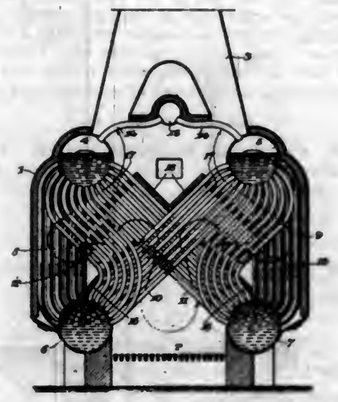
1,662,814. SHOE. JAMES ALFRED, Brockton, Mass. Filed Apr. 14, 1927. Serial No. 183,849. 2 Claims. (Cl. 36—37.)

1. A shoe comprising, in combination, a bottom including an outsole and a full length insole fixed to the outsole, the heel portion of the insole being depressed below the shank portion thereof, to form a recess below the foot-containing space in the shoe, a shank stiffener fixed in the bottom below the insole, the stiffener being curved to conform to the shank portion of the insole and having an extension conforming to the heel portion thereof, a plurality of nuts fixed to the shank extension and embedded in the heel portion of the bottom, a heel plate formed to enter said recess, a plurality of screw-threaded standards inseparably engaged at their outer ends with the heel plate, to rotate therein, and extending through the heel portion of the insole into the nuts, the outer ends of the standards being formed to engage a screw-driver, and a flap connected with the shank portion of the insole, and formed to cover the heel plate, said flap being provided with screw-driver-receiving openings



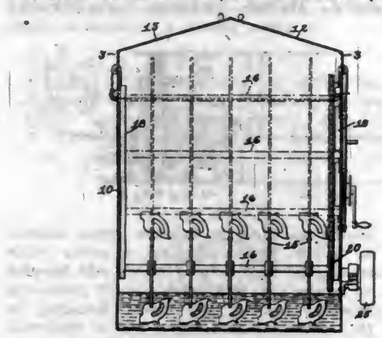
coinciding with the outer ends of the standards, the arrangement being such that the standards support the heel plate and flap at a plurality of points, and are vertically adjustable, so that the heel plate and flap may be maintained horizontally, either elevated above the shank portion of the insole, and spaced above the bottom of the recess, or depressed into the recess, the flap bridging the space between the forward end of the heel plate and the shank portion of the insole.

1,662,815. WATER-TUBE BOILER. HENRY CHARLES BADY, Hoboken, N. J. Filed Dec. 8, 1923. Serial No. 679,303. 4 Claims. (Cl. 122—326.)



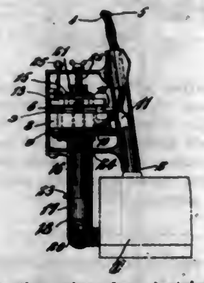
1. A water-tube boiler comprising two upper steam-and-water drums, two lower water drums, two diagonal banks of crossing upcomer tubes having corresponding water capacity and whereof each bank connects a lower water drum with the remote upper steam-and-water drums, and the tubes of one bank are interspersed with those of the other bank, a bank of up-comer tubes connecting each lower drum with the adjacent upper drum and being equal in capacity to each bank of diagonal up-comer tubes, and a bank of down-comer tubes connecting each upper drum with the adjacent lower drum and being equal in capacity to two adjacent banks of up-comer tubes, baffle walls located adjacent the upper portions of the respective diagonal banks in the spaces between the respective water drums and the crossing portions of the tubes of said diagonal banks, and a baffle structure comprising inclined members spaced laterally of and above said walls and extending across the planes of the respective up-comer banks, and also an arch member covering the outer tubes of the said diagonal banks adjacent their angle of intersection.

1,662,816. METHOD OF SURFACE COATING ARTICLES. CARLE M. BIGELOW, Newton, Mass. Filed Dec. 8, 1924. Serial No. 754,667. 2 Claims. (Cl. 91—68.)



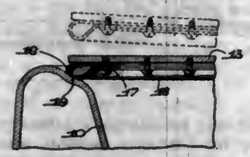
1. The process of surface-coating articles with a liquid coating material containing a volatile solvent which consists in dipping the article into a bath of the liquid coating material contained in the bottom of a chamber, closed during the coating operation, lifting the article from the bath and slowly rotating it at a plurality of stations spaced succeeding distances from the bath whereby the slowly rotating article is permitted to dry while being rotated in contact with atmosphere containing progressively decreasing proportions of the solvent, and thereafter opening the receptacle to remove the article.

1,662,817. PLUG FOR ELECTRIC CONFECTIONS. AUGUST C. BOLLMANN, St. Louis, Mo., and WILLIAM DAVIES, Granite City, Ill. Filed Sept. 28, 1922. Serial No. 591,175. 14 Claims. (Cl. 200—140.)



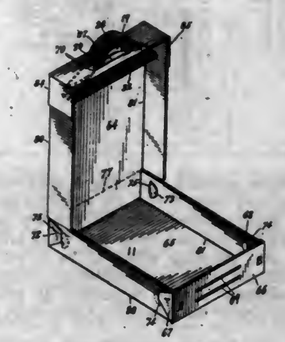
1. In a connection plug for electrical apparatus, a switch including spaced contacts, and a movable rigid bar connecting them, an extension on said plug adapted to contact with a portion of the apparatus subject to being heated, and thermo-responsive means in said extension connected to said bar so as to positively move the latter if said material is heated to a predetermined degree.

1,662,818. COVER FOR DISHWASHERS AND THE LIKE. FRANK G. BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed July 6, 1926. Serial No. 120,786. 2 Claims. (Cl. 220—46.)



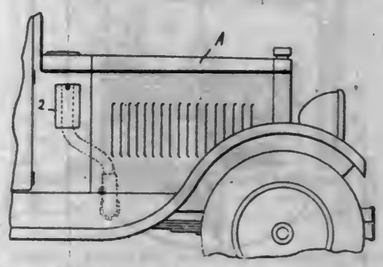
1. A dishwashing machine or the like comprising a receptacle having a surrounding rim, a cover hinged to seat on the rim, an air cushion secured to the edge of the cover and engaging the rim of the receptacle and comprising a sheet of rubber with its edges in superposed relation and clamped to the cover to form an air chamber therein between the edge of the cover and the rim and a clamping frame for the air cushion surrounded by the air chamber.

1,662,819. GARMENT HANGER AND CONTAINER. ISABEL N. CAVE, Brooklyn, N. Y. Filed June 3, 1925. Serial No. 34,519. 6 Claims. (Cl. 223—61.)



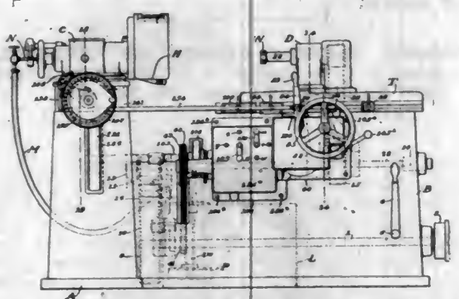
2. A combined garment hanger and container comprising a substantially box-like single-piece container adapted to be opened or closed by the movement of opposite sections thereof and having similarly disposed registering slots in one end of each of said sections, a single-piece garment hanger having a garment supporting portion and handles, said garment supporting portion being enclosed within said container and said handles extending outwardly through said slots and having interlocking means adapted to detachably hold said hanger in said position relatively to said container, said supporting portion being adapted to support and hold a garment within said container and said handles being adapted to detachably retain said container in closed position and provide means whereby said hanger and container may be suspended and transported.

1,662,820. OIL FILLER FOR AUTOMOBILES. MICHAEL CONDUPA, Greensburg, Pa. Filed June 17, 1927. Serial No. 199,567. 4 Claims. (Cl. 220—86.)



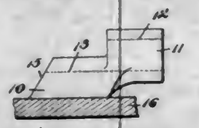
1. In an oil filler closure for automobile crank cases, wherein the automobile body is formed with an opening therein, a door pivotally associated with the body and adapted to close said opening, a flexible pipe adapted to communicate at one end with the crank case, and the opposite end of said pipe in movable relation with the door.

1,662,821. INTERNAL GRINDER. SOL EINSTEIN, Cincinnati, Ohio, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 16, 1924. Serial No. 738,020. 33 Claims. (Cl. 51—50.)



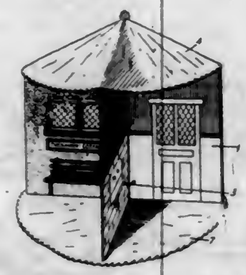
1. A grinding machine combining a work-holder; means for rotating said work-holder; a grinding-wheel; means for giving said grinding-wheel movements of predetermined length toward and from said work-holder; means permitting said grinding wheel to be moved to an abnormal position; and automatically actuated means rendered operative at the beginning of said abnormal movement to arrest the rotation of said work-holder.

1,662,822. TERMINAL. MAURICE J. DUNNE, West Orange, N. J. Filed May 2, 1922. Serial No. 557,856. 3 Claims. (Cl. 173—278.)



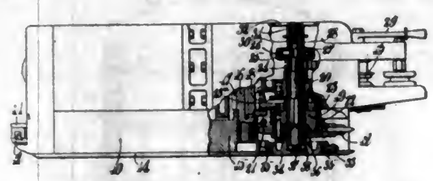
1. A terminal for use in welded electrical connections comprising a base adapted to be placed with its bottom against a rail, and being relatively thick and having a rigid sleeve projecting at one end of the top with its axis substantially parallel with the bottom; the base having a groove in extension of the bore of the sleeve.

1,662,823. PLAYHOUSE. AGNES A. FOLEY, Youngstown, Ohio. Filed May 13, 1927. Serial No. 191,001. 4 Claims. (Cl. 46—87.)



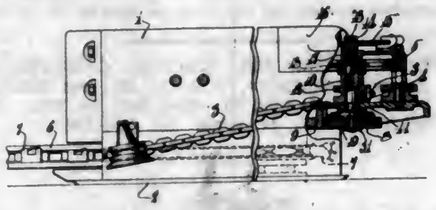
1. A playhouse, comprising a plurality of walls, a flexible connection for connecting the walls together along one edge whereby the house may be set up by moving the walls outwardly in angular relation to each other and whereby the house may be collapsed by folding the walls together, and a flexible covering which is extended when the house is set up and which is folded when the house is collapsed, said flexible covering being permanently secured to the playhouse.

1,662,824. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 11, 1921. Serial No. 476,904. 23 Claims. (Cl. 262—30.)



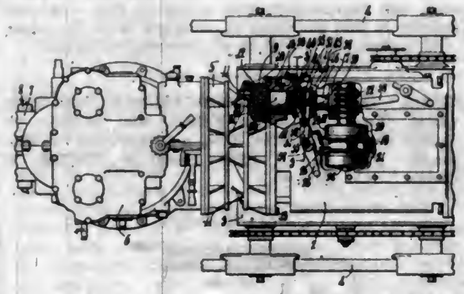
1. In a mining machine, a machine frame slidable bodily on its bottom during cutting, a cutter chain sprocket thereon, a driving shaft on which said sprocket is mounted, a bearing for said driving shaft preventing lateral displacement thereof, and means including an opening in the bottom of said frame and a removable closure therefor releasably secured to said bearing for enabling removal of said bearing and shaft through the bottom of said frame.

1,662,825. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 1, 1922. Serial No. 557,659. 13 Claims. (Cl. 262—30.)



1. The combination with a mining machine presenting a cuttings passage and a truck driving gear disposed adjacent the same, of an axially bored member disposed coaxially with said gear, a member on said member having a passage communicating with said bore and disposed coaxially therewith inside said gear, and a member holding said gear in position.

1,662,826. CONTROLLING MECHANISM. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 28, 1924. Serial No. 716,474. 17 Claims. (Cl. 262—28.)



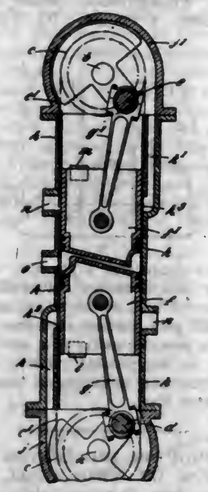
1. In a controlling mechanism, a plurality of separate clutches having independently movable clutch elements one of said clutches being a locking clutch while the other is a drive control clutch, and a common operating member for actuating said clutch elements, said operating member when moved in one direction first actuating said locking clutch element and thereafter actuating said drive control clutch element and when moved in the opposite direction effecting actuation of said clutch elements in a reverse order.

1,662,827. PHOTOGRAPHIC SHUTTER. RUDOLPH KLEIN, Rochester, N. Y., assignor, by mesne assignments, to Ansco Photoproducts, Inc., Binghamton, N. Y., a Corporation of New York. Filed Apr. 18, 1924. Serial No. 707,521. 11 Claims. (Cl. 95—59.)



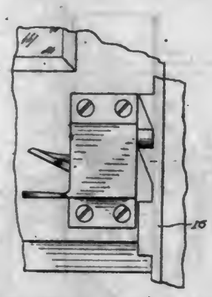
1. A photographic shutter comprising a setting controlling element, a lens cap provided with a relatively large aperture, a pivoted diaphragm provided with a relatively small aperture, and means whereby operation of the setting controlling element results in swinging said diaphragm into or out of operative position.

1,662,828. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. CECIL LAW, Golders Green, England. Filed Sept. 22, 1927, Serial No. 221,203, and in Great Britain July 19, 1926. 7 Claims. (Cl. 123—51.)



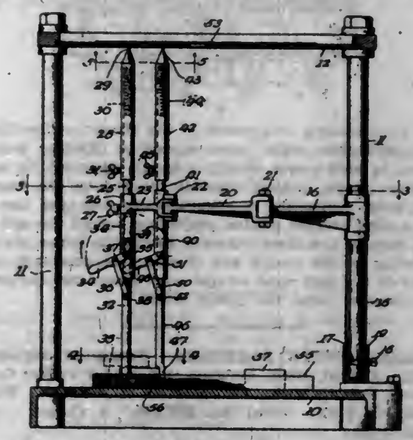
7. A two-stroke-cycle internal combustion engine comprising a cylinder having an inlet and an exhaust port in each half thereof, a pair of axially aligned pistons disposed in said cylinder, one in each half thereof, said pistons being each adapted to control the ports in their respective half of the cylinder, a crank case arranged at each end of said cylinder and provided with a transfer conduit communicating with said inlet ports, a crank shaft disposed in each crank case, the crank of one shaft being set at an angle of substantially 90° to the crank of the other shaft, mechanism connecting said shafts, and connections between said shafts and said pistons adapted to correlate the movement of said pistons and cause the opening and closing of the ports in one half of said cylinder at a different time during the operating cycle than the ports in the other half of said cylinder.

1,662,829. SASH LATCH. THOMAS A. LEDGE, Chicago, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed Sept. 6, 1921. Serial No. 498,635. 1 Claim. (Cl. 292—173.)



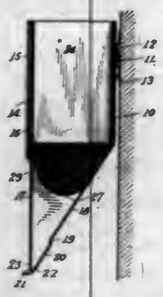
In a sash latch, a casing, a housing formed by said casing and provided with a bore having its inner end closed and its outer end opened, said housing provided with a notch in the wall of said bore intermediate the ends thereof, said casing having an opening in its rear wall, a lip member extending rearwardly adjacent said opening, a bolt slidably mounted in said bore and forming a close fit therein, said bolt extending across said notch and forming with the inner end of said bore a closed chamber in all positions of said bolt during its operation, for retaining a lubricant therein, a light spring in said chamber in engagement with said bolt, and means having one end extending through said notch for operating said bolt and its other end extending through said opening adjacent to, but in spaced relation to, said lip member.

1,662,830. PRINTER'S REGISTER APPARATUS. GEORGE H. LUND, Chicago, Ill., assignor to Made-Ready Plate Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 14, 1925, Serial No. 75,290. Renewed Feb. 4, 1928. 11 Claims. (Cl. 33—184.5.)



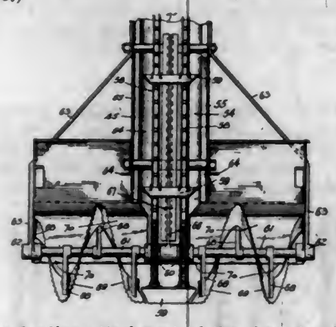
1. A register apparatus including a support for the work, a transparent member supported thereabove and upon which member a sheet having matter delineated thereon is placed, and means disposed between the said support and member for indicating upon the said support predetermined points in the matter delineated on the said sheet, the said means including a pointer operating against the lower face of the transparent member and an additional pointer operable in close proximity to the face of the said support.

1,662,831. TOOTHPICK DISPENSER. MICHAEL MOSS and THOMAS F. MCCARTHY, New York, N. Y.. Filed Mar. 16, 1927. Serial No. 175,761. 2 Claims. (Cl. 206—31.)
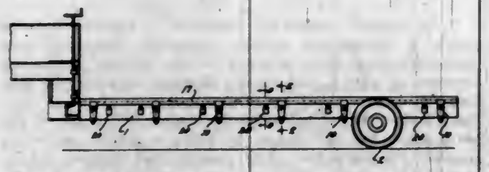


1. In combination with a toothpick dispenser, of a filling means consisting of a carton, a flexible strap loosely disposed over the open top of said carton, and means in said dispenser to facilitate severing said strap when the carton is disposed in an inverted position within the dispenser.

1,662,832. WAGON-LOADING DEVICE FOR TRACTORS. NELS P. NELSON and FREDERIC W. JAMES, Passaic, N. J., assignors to N. P. Nelson Iron Works Inc., Passaic, N. J., a Corporation of New York. Filed Sept. 12, 1925. Serial No. 55,992. 18 Claims. (Cl. 198—9.)



1. In a loading attachment of the character described, the combination with power means, of traction means driven by said power means, a frame supported on said traction means, a boom pivotally carried by the frame, said boom comprising a longitudinally arranged trough and a rigid scraper portion projecting beyond the end of said trough, a scraper conveyor having its lower strand operating in the trough and scraping the ground in advance of the said rigid scraper, and means for operating the conveyor from the power means.

1,662,833. TRUCK PLATFORM. FREDERICK MALCOLM REID, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 5, 1927. Serial No. 166,096. 8 Claims. (Cl. 280—150.)



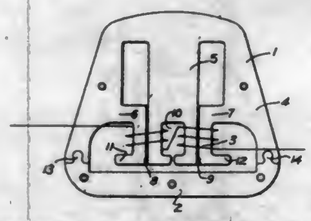
1. In a truck, a truck platform comprising in combination, a main platform permanently in place, brackets pivoted to the side of the truck and arranged to be folded out of the way, a removable platform extension adapted to be carried by said brackets said brackets when folded out of the way lying substantially against the side of the truck, and means for holding them in this position.

1,662,834. FASTENING DEVICE. DANIEL I. REITER, New York, N. Y. Filed Apr. 9, 1927. Serial No. 182,447. 8 Claims. (Cl. 24—150.)



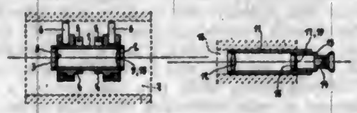
1. As a new article of manufacture, a female fastener element of the class described including an apertured plate and a pin for attaching the plate to a fabric, a single length of wire connected to the plate and bent to provide a fabric-engaging spur and a pair of stud receiving spring arms underlying the opening.

1,662,835. ELECTRICAL MEASURING INSTRUMENT. ARGYLE R. RUTTER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 12, 1926. Serial No. 94,189. 5 Claims. (Cl. 171—264.)



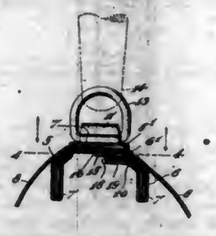
1. A lamination comprising a plurality of magnetizable members, one of said members comprising pole portion structure, another of said members comprising a section forming with said pole portion structure a flux gap for the reception of a movable meter disc, said members being secured together in interlocking relation and being non-detachable in a direction extending at right angles to the plane of said meter disc.

1,662,836. METHOD OF AND DEVICE FOR TESTING THE POSITION OF TWO AXIAL DIRECTIONS. ADOLF STEINLE, Jena, Germany, assignor to the Firm: Carl Zeiss, Jena, Germany. Filed Nov. 27, 1926, Serial No. 151,222, and in Germany Nov. 24, 1925. 3 Claims. (Cl. 88—2.2.)



1. Method of testing the relative position of two axes destined to be parallel to each other, which method consists in so arranging a telescope containing at least one sighting mark adapted to fix the optical axis of the telescope that this optical axis coincides with one of the said two axes, so arranging a collimator comprising a lens and two marks lying on the axis of this lens, one of these marks coinciding with one of the focal points of this lens, that the axis of this lens coincides with the other of the two axes to be tested, and ascertaining within the telescope the position of the images formed within the telescope of the said two marks.

1,662,837. MEANS FOR INTERENGAGING AND ALIGNING THE MEMBERS OF HINGED BAG FRAMES. FRANK T. STUART, Maplewood, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Oct. 22, 1926. Serial No. 143,347. 1 Claim. (Cl. 190—49.)



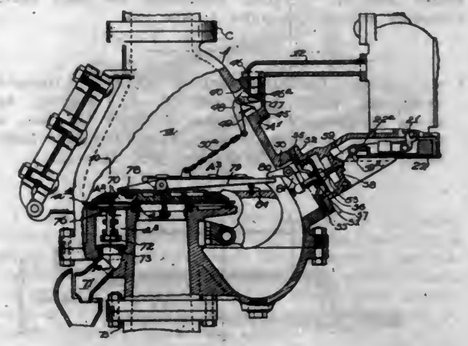
In combination with the outer and inner frame-members of a bag-frame, longitudinally spaced handle-loop bearings on said outer frame-member, said handle-loop bearings having depending clinching lugs to pass through the body of said outer frame-member, combined supporting and aligning brackets having perforate base portions disposed against the underside of said outer frame-member and through which said clinching lugs of said handle-loop bearings also extend, said clinching lugs being clinched over said base portions to thereby rigidly and mutually secure said handle-loop bearings and combined supporting and aligning brackets in aligned relation respectively above and below said outer frame-member, said base-portions having stop-flanges depending from their outer marginal edges against which the free edge of the inner frame-member abuts when the frame is closed, and outwardly projecting horizontal supporting flanges extending from the lower free edges of said stop-flanges over and upon which the free marginal portion of said inner frame-member is engaged when the frame is closed.

1,662,838. INTRA-ORAL CASSETTE. FREDERICK L. STANTON, New York, N. Y. Filed Mar. 19, 1926. Serial No. 95,857. 1 Claim. (Cl. 250—84.)



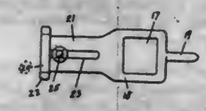
In a device of the class described, a cassette composed of two flanged plates, one of which forms the top and the other the bottom, the two being shaped so as to fit snug one within the other and to be of a size suitable to be received in the mouth of a patient and between his teeth, intensifying screens composed of a plate with a composition thereon and each plate being made to fit in place, that is one being made to fit the cover and one being made to fit the bottom.

1,662,839. DRY-PIPE-VALVE ACCELERATOR. EMIL TYDEN, Evanston, Ill. Filed Feb. 4, 1925, Serial No. 6,675. Renewed July 31, 1926. 4 Claims. (Cl. 169—22.)



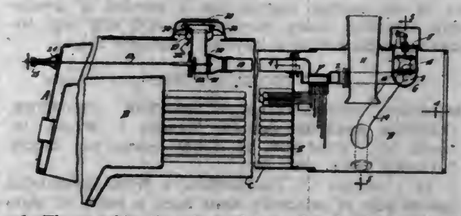
1. In a dry pipe sprinkler system in combination with a main valve casing, a water supply pipe thereto and main valve therein, an accelerator for hastening the opening of the main valve upon the occurrence of substantial air leakage from the air pressure region of the system, said accelerator comprising chambers communicating with the air pressure region of the system for being affected by the diminution of pressure due to such leakage, and means associated with the accelerator for freely venting the air pressure from said pressure region; a passage communicating leakage from the air pressure region to the accelerator, and an auxiliary valve controlling the entrance to said passage seating in the direction of the pressure from the region, and means by which the auxiliary valve is seated in the initial opening movement of the main valve.

1,662,840. BUCKLE. CLAIR C. WOLVERTON, Indianapolis, Ind. Filed Nov. 20, 1926. Serial No. 149,749. 6 Claims. (Cl. 24—163.)



4. A multiple buckle including a pair of rectangular sockets positioned transversely of each other, an elongated longitudinally extending connecting portion uniting the same in rigid relation and a fixed distance apart, and means slidably mounted on the connecting portion independent of the longitudinal socket and cooperating with the transverse socket.

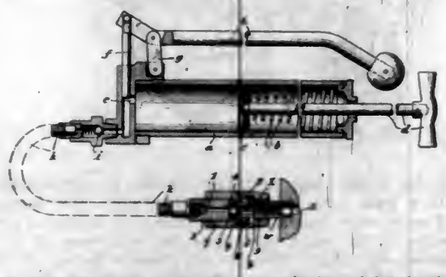
1,662,841. LOCOMOTIVE. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed Oct. 20, 1922. Serial No. 595,757. 4 Claims. (Cl. 122—4.)



1. The combination in a locomotive having a smoke box and an inside steam supply line including a superheater, of a main normal control throttle in the smoke

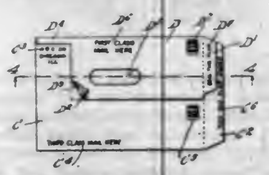
box on the chest side of the superheater through which all steam to the chests must pass, an outside operating connection therefor leading to the cab, an emergency valve in the steam line on the dome side of the superheater, and an operating connection for such valve extending within the boiler to the cab.

1,662,842. LUBRICATING APPARATUS. HERMAN ALBERTINE, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc., a Corporation of New Jersey. Filed Apr. 26, 1926. Serial No. 104,558. 10 Claims. (Cl. 285—123.)



1. A high pressure coupling for nipples of lubricating ducts, including a nozzle member formed for engagement with the end of the nipple and associated with radially movable chuck jaws for engaging the sides of the nipple, in combination with a sleeve having swivel coupling with said nozzle and extending beyond said jaws and there provided with means for detachably locking the sleeve and nipple to hold the nozzle in engagement therewith and means whereby longitudinal withdrawal stress on the swivel coupling forces said chuck jaws into gripping engagement with the sides of said nipple.

1,663,843. DOUBLE ENVELOPE. CHRISTOPHER F. BACKMYER, Chicago, Ill., assignor to Magill-Weinsheimer Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 3, 1925. Serial No. 47,721. 3 Claims. (Cl. 229—72.)



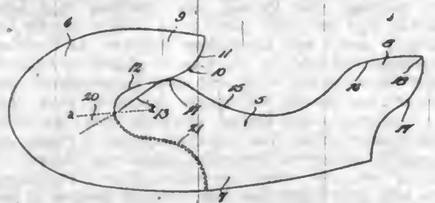
1. A blank for double compartment envelope consisting of a rectangular central portion, a member lying along one side of said central portion and shaped, when folded over said central portion, to provide an overlapping flap at each end thereof, a member along the opposite side of the central portion including a relatively narrow flap extending along a portion of the side of the central portion and a portion of greater width extending along the rest of said side and terminating at its end in a laterally extending flap.

1,662,844. AUTOMOBILE RADIATOR SHUTTER. CLARENCE ROSS BRYANT and ALBERT F. WEISS, St. Louis, Mo. Filed Feb. 15, 1926. Serial No. 88,299. 7 Claims. (Cl. 189—62.)

1. In a shutter, in combination, a frame comprising a spaced pair of relatively fixed bars, a series of slats disposed in the frame and having engagement with said bars for pivoted actuation, a lengthwise shiftable link having pivoted connection with said slats, a lengthwise shiftable actuator-bar provided upon an edge thereof with spaced opposed shoulders, and a stud on the link disposed intermediate the shoulders, the actuator-bar being adapted at said shoulders for engagement with said stud for shifting the link to effect opening and closing actuations of the slats.



1,662,845. SHOE. ERMINIO CASSANO, Framingham, Mass. Filed July 18, 1922, Serial No. 575,805. Renewed Dec. 3, 1926. 4 Claims. (Cl. 36—45.)



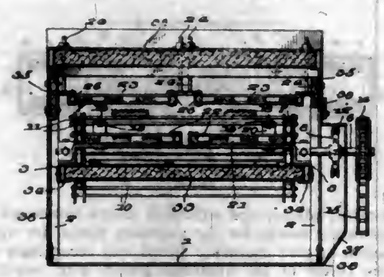
2. A blank for a one piece upper of a low shoe comprising a toe portion with a reversely curved edge, said blank having a portion with an edge forming one side of the front opening of said shoe and intersecting said reversely curved edge at substantially the median line of said toe portion, said blank having a portion with an edge forming the other side of the front opening of said shoe, the last mentioned edge being above the median line of said toe portion and being unsymmetrical with and at a different angle to the length of the blank than the edge forming the first mentioned side of the front opening, said blank having a portion with a concave edge forming the top opening of said shoe and joined to said edges forming said front opening, said blank at its end opposite said toe portion having a reversely curved edge joined to said edge forming the last mentioned side of said front opening, and said blank having a convex edge opposite said concave edge.

1,662,846. ANTENNA. JOHN M. CLARK, New York, N. Y. Filed June 22, 1923. Serial No. 647,057. 4 Claims. (Cl. 250—33.)



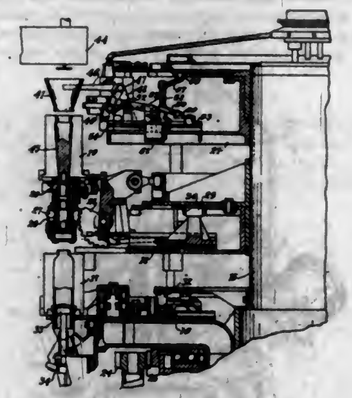
1. An antenna comprising a glass tube, a metallic tube therein and restrictions in said glass tube to retain said metallic tube centrally disposed within said glass tube and means for preventing longitudinal movement of said metallic tube.

1,662,847. ELECTRICAL COOKING APPARATUS. FRANK J. COOK, Cleveland, Ohio. Filed Sept. 11, 1925. Serial No. 55,759. 2 Claims. (Cl. 126—41.)



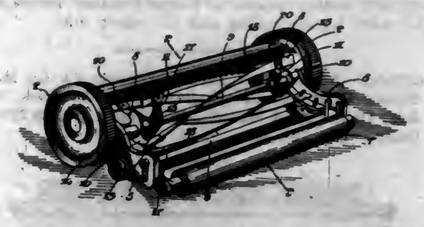
1. Electrical cooking apparatus of the character set forth comprising an endless conveyor arranged to traverse a predetermined path during its upper flight, a plurality of electric heating elements, said elements being secured above and below the central portion of the conveyor, heat insulating means disposed beneath the lower of said heating elements and along each side of said conveyor, a casing enclosing the heating elements and upper flight of the conveyor, the end portions of the upper flight of the conveyor being exposed to the air, an open loading platform arranged at the end of the conveyor in horizontal alignment with the upper flight, an open receiving platform arranged at the opposite end of the conveyor and having an inclined apron extending into close proximity to the path of the conveyor, and means for directing cooling air upon the conveyor during its lower flight.

1,662,848. GLASS-FORMING MACHINE. ALBERT N. CRAMER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Toledo. Filed May 21, 1923. Serial No. 640,386. 10 Claims. (Cl. 49—5.)



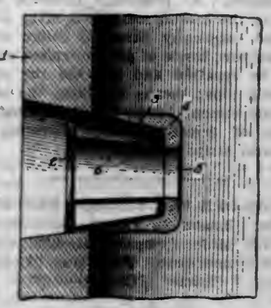
1. In a glass forming machine, the combination of a mold open at its upper end to receive a charge of glass, a guide normally arranged to direct the charge into the mold, a mold closing head adjacent one side of the mold, means to move said head into and out of position to close the upper end of said mold, and connections between said head and guide actuated by a movement of the head for moving the guide relatively to the head in a direction transverse to that of the head, into position to prevent interference with movement of the head.

1,662,849. LAWN MOWER. WILLIAM H. DAILEY, Brooklyn, N. Y. Filed Mar. 16, 1926. Serial No. 95,012. 9 Claims. (Cl. 56—249.)



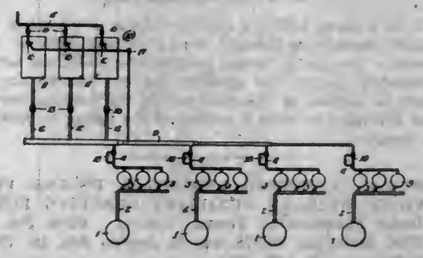
1. In a lawn mower, the combination of a stationary cutting blade, a rotating reel provided with grass cutting blades and a gathering-in blade located between and substantially equally spaced from a pair of cutting blades and having a series of teeth having substantially parallel edges and all inclined at the same angle in the same direction from the inner ends thereof.

1,662,850. TUYÈRE. ALFRED J. EBNER, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 15, 1926. Serial No. 88,199. 1 Claim. (Cl. 266—41.)



In combination, the wall of a furnace, a tuyère mounted in said wall and projecting inwardly of said furnace, said tuyère comprising a metallic portion and a coating of refractory material covering the entire outer wall and nose of said tuyère.

1,662,851. AIR-SUPPLY SYSTEM FOR BLAST FURNACES. ALFRED J. EBNER, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 14, 1927. Serial No. 167,944. 3 Claims. (Cl. 266—13.)



1. In a blast furnace system, a plurality of blast furnaces, conduit means for supplying air to each of said furnaces, each of said conduit means being provided with

a volume regulator for controlling the rate of air supply to its corresponding furnace, a common blast main for delivering air to said regulating means, an air supply unit, and means responsive to the pressure within said blast main for controlling said air supply unit.

1,662,852. REPAIRING PIPE. THOMAS DE LA MARE, Tooele, Utah, assignor to Percy F. McKendrick, Garfield, Utah. Filed May 5, 1925. Serial No. 28,276. 1 Claim. (Cl. 137—99.)



An apparatus of the class described comprising a sheet metal strip to partially surround a pipe to be repaired having one of its edges bent back upon itself to form a flange; another sheet metal strip having one of its edges bent back upon itself to form a flange thereon and adapted to fit in said flange on said first mentioned metal strip; another metal strip to cover the overlapping edges of said first and second mentioned metal strips forming a cylindrical member; an internally threaded sleeve member secured on the second mentioned strip of metal; an internally and externally threaded collar screwed into said sleeve member; bands of plastic cement placed around the pipe to be repaired and between the ends of said strips and said pipe; means to clamp the ends of said strips and said cement bands tightly against said pipe; and a layer of cement concrete covering said pipe and sheet metal strips.

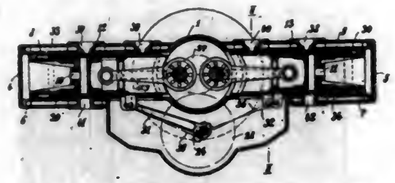
1,662,853. HOLDER FOR SHADES, REFLECTORS, OR THE LIKE. LEROY C. DOANE, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed May 21, 1925. Serial No. 31,770. 7 Claims. (Cl. 240—128.)



7. In a shade holder, a casting having an interiorly arranged shoulder, a circular spring carried adjacent the shoulder, the spring having peripheral undulations which alternately engage the shoulder of the casting and a shade, a portion of the material of the casting having been deformed to cover a portion of the spring to prevent its removal.

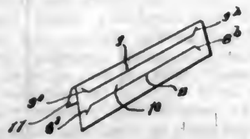
1,662,854. INTERNAL-COMBUSTION ENGINE PROVIDED WITH AN AUXILIARY CHARGING PUMP. JOSEF FREISLINGER, Vienna, Austria. Filed Feb. 9, 1926, Serial No. 86,978, and in Austria Feb. 16, 1925. 7 Claims. (Cl. 123—56.)

7. In an internal combustion engine, a combustion cylinder provided with intake and exhaust ports and an auxiliary intake port, a working piston operating in said cylinder, an auxiliary piston in said cylinder, a pair of sleeve valves surrounding said pistons and controlling said ports, means for operating said valves and said auxiliary piston in timed relation to each other and to



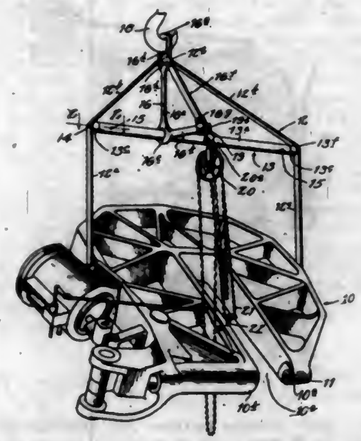
the working piston, and adjusting means associated with the operating means for the auxiliary piston for varying the action of said operating means and accordingly varying the throw of the auxiliary piston with relation to the throw of the working piston.

1,662,855. GARMENT HANGER. LOUIS ELMER GAUME, Akron, Ohio. Filed Oct. 12, 1925. Serial No. 61,915. 5 Claims. (Cl. 223—61.)



1. In combination, a garment hanger having a horizontal bar, a sheet of relatively thin material folded to provide a front portion and a back portion, said sheet positioned on said bar with the bar received in said fold, the front portion being provided with longitudinally directed parallel slots to provide a band substantially as and for the purpose set forth.

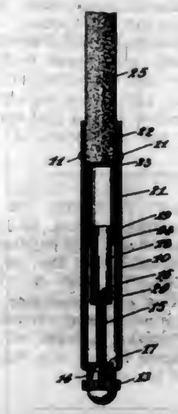
1,662,856. SUSPENSION MECHANISM. JOHN C. HANNA, Evanston, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a Corporation of Illinois. Filed July 10, 1924. Serial No. 725,108. 10 Claims. (Cl. 78—19.)



10. The combination with a machine of the riveter type of a main horizontal pivotal support for said machine on an axis near but offset substantially horizontally from the center of gravity of said machine; a supplemental support engaging said machine remote from said main support and remote from and on the opposite side of the center of gravity with respect to said main support; and means connecting said main and supplemental supports

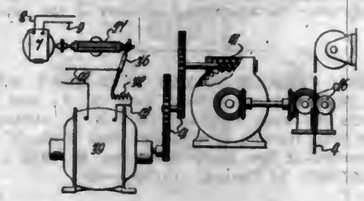
and including force transmitting mechanism, for tilting said machine about said main support preparatory to but independent of the operation of the machine itself, and for automatically holding said machine in adjusted position.

1,662,857. CONTAINER. HENRY L. HEITER, Brooklyn, N. Y. Filed Dec. 12, 1925. Serial No. 74,922. 3 Claims. (Cl. 206—56.)



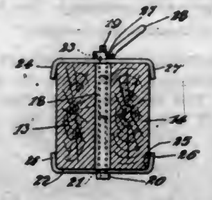
2. In a pencil container, in combination, a casing open at the top and closed at the bottom; a threaded revoluble vertically movable rod within the casing and extending through the bottom and having a flanged top; means carried by the rod and abutting upon each face of the casing bottom preventing longitudinal movement of the rod through said bottom; an inner revoluble externally threaded sleeve having a flanged top and an internally threaded bottom portion meshing with the rod threads and co-acting with the rod flange to prevent longitudinal disengagement of the revoluble sleeve and the rod; a non-revoluble vertically movable outer sleeve having an internally threaded bottom portion meshing with the external threads of the inner sleeve and co-acting with the inner sleeve flange to prevent longitudinal disengagement of the inner sleeve and the outer sleeve, a cup fixedly attached to the outer sleeve and a cover for the upper casing opening.

1,662,858. AUTOMATIC CONTROL DEVICE FOR ELECTRIC-ARC-WELDING APPARATUS. WALTER REGINALD HUME, Melbourne, Victoria, Australia. Filed Sept. 21, 1925, Serial No. 57,744, and in Australia Oct. 9, 1924. 3 Claims. (Cl. 219—8.)



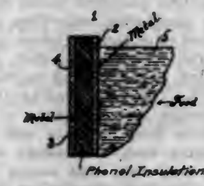
1. In electric arc welding apparatus the combination of an electric motor connected into the welding circuit, a centrifugal governor operated by said motor, fluid operated electrode feeding mechanism, a fluid control valve adapted to control the operation of said electrode feeding mechanism, and means interposed between said governor, and said control valve for communicating to the latter the movements produced by the governor in accordance with fluctuations in the current passing through said motor.

1,662,859. CLAMP. FRANK B. JOHNSTON, Roselle Park, N. J., assignor to American Safety Device Co., New York, N. Y., a Corporation of New York. Filed Oct. 18, 1926. Serial No. 141,277. 1 Claim. (Cl. 304—40.)



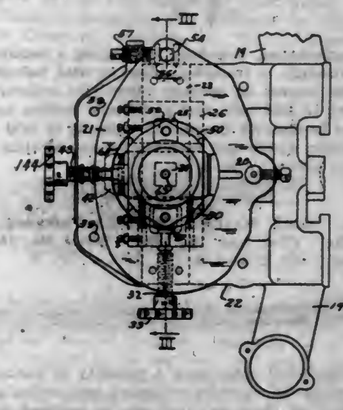
A clamp of the character described, comprising a threaded bolt, a sleeve thereon, adjustable plate assemblies having the outer ends thereof bent at obtuse angles to straddle the edges of spaced parallel planks engaging opposite sides of said sleeve, perforations in the said plate assemblies and the aforesaid bolt passing therethrough, and a nut on the said bolt to securely bind the plate assemblies together and to wedge the planks against the sleeve.

1,662,860. HEAT-INSULATED VESSEL FOR FOOD. JOHN L. LESLIE, New York, N. Y. Filed June 16, 1925. Serial No. 37,415. 1 Claim. (Cl. 220—10.)



A food containing vessel comprising an outer integral shell of metal, an inner integral shell of metal spaced throughout at substantially the same distance from said outer shell and a heat insulating compound of the phenol formaldehyde group disposed at all points between said shells for holding them together in spaced relation whereby an unbreakable insulated vessel is formed and the inner shell is entirely heat insulated from the outer shell.

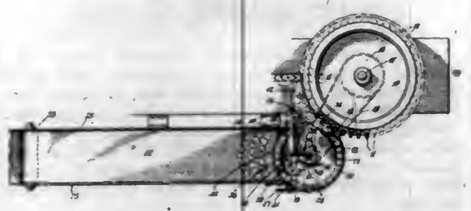
1,662,861. GLASS-FORMING APPARATUS. JOHN E. MCLAUGHLIN, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 30, 1926. Serial No. 132,359. 27 Claims. (Cl. 49—5.)



1. The combination of a mold carrier shoe, a hinge pin plate spaced above said shoe, a hinge pin plate

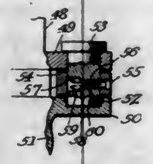
holder interposed between the plate and shoe, means separably connecting the shoe, holder and plate, and means interconnecting the holder and plate including devices to effect individual or simultaneous adjustment of the holder and plate with respect to the shoe.

1,662,862. BOTTLE-CAP-ASSEMBLING MACHINE. CHARLES E. MCMANUS, New York, N. Y., assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 25, 1925. Serial No. 71,302. 15 Claims. (Cl. 198—31.)



1. A bottle cap assembling machine embodying therein, in combination with a rotatable finishing head including therein a plurality of presser plungers, means for elevating said plungers adjacent the delivery point of said head, and means ejecting assembled bottle caps from said head, of a delivery mechanism embodying therein a rotatable disk positioned to receive assembled caps from said finishing head, means rotating said disk, non-rotatable means for positioning caps delivered to said disk in a row adjacent the edge thereof, a cooling and inspecting belt adapted to receive simultaneously a plurality of caps, means imparting slow travel to said belt, a movable member operative upon a plurality of caps upon said disk adjacent said belt, and means operative in synchronism with said disk whereby at predetermined intervals said member is actuated to thrust caps from said disk to upon said belt.

1,662,863. GAS-STOP SEAL. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Oct. 28, 1925. Serial No. 65,376. 3 Claims. (Cl. 292—327.)



1. In combination, a locking bolt having a radial opening therethrough, a frangible collar on said bolt having in one side thereof an opening adapted to register with the opening in said bolt, and a yieldable locking member adapted to be inserted through the opening in said collar and lie wholly within said openings for non-rotatably connecting the collar to the bolt.

1,662,864. GAME BOARD. CHRISTIAN PETERSEN, Portland, Me. Filed Apr. 15, 1927. Serial No. 184,000. 2 Claims. (Cl. 273—119.)



1. A game-board comprising a plurality of horizontally disposed members, hingedly connected and having a ball-way formed on their top surfaces, an inclined member having a similar ball-way on its top surface hingedly connected to one of said horizontally disposed members and having grooves cut in its sides, a block disposed in subjacent relation to said inclined member, a plate on each side of said block with a bent-over portion engaging one of said grooves and slidable therein, a cue-rest on one of said horizontally disposed members, and tallying means on said horizontally disposed members, adjacent said ball-way.

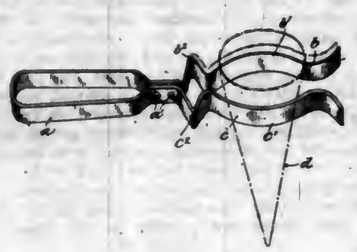
1,662,865. METHOD OF COATING METAL ARTICLES. JOHN W. POWELL, Martins Ferry, Ohio. Filed Dec. 31, 1926. Serial No. 158,415. 5 Claims. (Cl. 91—70.)

1. The method of providing a metal article with a permanent closely adherent gold-bronze finish, comprising applying to the article first a coating of a mixture of lacquer and gold-bronze, and then a plurality of coatings of a mixture of Chinawood oil and gold-bronze, and baking the article after the application of each of said coatings.

1,662,866. SECONDARY BATTERY OR ACCUMULATOR. EDMUNDO ALMEIDA SALAZAR, Madrid, Spain, assignor of one-half to Manuel Conte de Mieres, Mieres Del Camino, Asturias, Spain. Filed Dec. 14, 1925. Serial No. 75,432. 10 Claims. (Cl. 136—6.)

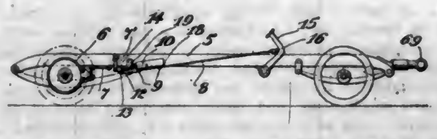
1. A secondary battery or accumulator in which the electrolyte consists of a solution of chloride of zinc copulatively mixed with another halogen salt of the same metal and of a character having less chemical heat of formation than that of the chloride.

1,662,867. ICE-CREAM-CONE TONGS OR LIFTER. ROLF SCHARPHUIS, Port Townsend, Wash. Filed Jan. 21, 1927. Serial No. 162,447. 1 Claim. (Cl. 294—33.)



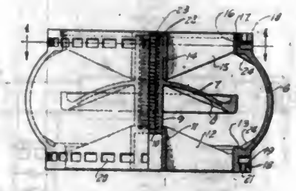
In a device for grasping an ice cream cone, a handle portion, a pair of spring fingers, outwardly diverging ends on the fingers, opposed concave portions on the fingers to receive the cone and crimped portions between the handle and the fingers to increase the flexibility thereof, whereby the pressure of the fingers will be distributed uniformly over the contacting portions of the cone and fingers.

1,662,868. VEHICLE BRAKE-OPERATING MEANS. BROR MAX SCHAUMAN, New York, N. Y., and JOHN FRANCIS MILLIGAN, Ridgefield Park, N. J., assignors to Thord-Gray Holding Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1926. Serial No. 157,907. 14 Claims. (Cl. 180—83.)



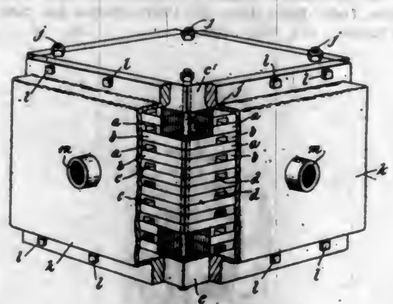
1. In combination with brake operating means including a manually operable lever, emergency means for applying the brake including relatively movable members each connected with a part of the brake operating means, a toggle connection between said members, spring means coacting with the toggle connection to expand the same and move said members relative to each other to thereby apply the brake, and a releasable latch device normally holding the spring means in an energized condition and locking said members against relative movement and for movement as a unit when the brake operating means is actuated by said lever.

1,662,869. CHECK-VALVE BODY. MICHAEL SMOLENSKY, Cleveland, Ohio. Filed Aug. 5, 1927. Serial No. 210,865. 3 Claims. (Cl. 251—144.)



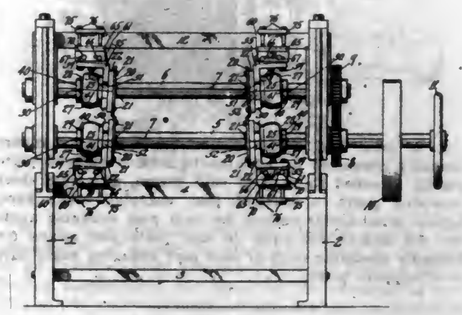
1. A check valve comprising a globular body provided at the ends with thickened portions which contain in themselves lateral recesses to receive bolt heads and holes opening into said recesses to receive the bolts, the thickened portion at one end having an internal valve seat and a spider integral therewith provided with a central guide, an opposite removable spider fitting and fixed in the thickened portion at the other end, and provided with a central guide, and a disk valve in the body, having stems working in said guides.

1,662,870. GROOVED-PLATE HEAT INTERCHANGER. CECIL W. STANCLIFFE, Stamford, Conn., assignor to Stancliffe Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1924. Serial No. 742,554. 8 Claims. (Cl. 257—245.)



2. A heat interchanger unit comprising a series of plates assembled together in a block, said plates having grooves in one face running in substantially the same direction and being so arranged that the grooves of certain plates run crosswise of those in other plates and are closed at one side by the adjacent plates, and fluid conducting connections applied to said block.

1,662,871. ANGULARLY-ADJUSTABLE ROTARY CUTTER, SLITTER, CREASER, AND THE LIKE. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor to George W. Swift, Jr., Inc., Bordentown, N. J., a Corporation of New Jersey. Filed Nov. 13, 1926. Serial No. 148,239. 16 Claims. (Cl. 164—60.)

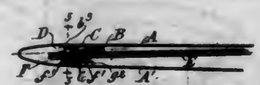


1. In a machine of the character described, the combination with a rotary shaft, of an operating head adapted to carry a machine tool, a flexible joint connection between said operating head and said shaft, and adjustable means engaging said operating head for holding the tool in the desired operative position.

1,662,872. ACYLAMINO FLAVANTHRONES AND PROCESS OF MAKING SAME. SIDNEY THORNLEY, Blackley, Manchester, England, assignor to British Dyestuffs Corporation Limited, Manchester, England. Filed Sept. 3, 1927, Serial No. 217,540, and in Great Britain Sept. 2, 1926. 4 Claims. (Cl. 260—42.)

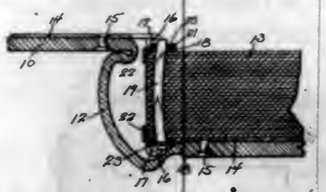
2. As a new material useful as a vat dyestuff, benzoyl-amino-flavanthrone, said material dyeing cotton a brown shade from the hydrosulphite vat, being soluble in sulphuric acid and in sulphuric acid in the presence of boric acid, with production of a reddish orange solution and on treatment with hydrolyzing agents splitting off benzoic acid and regenerating amino-flavanthrone.

1,662,873. FILE, BINDER, AND THE LIKE. THOMAS F. VALLEAU, Brooklyn, N. Y., assignor to The Cooke & Cobb Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 28, 1927. Serial No. 164,162. 5 Claims. (Cl. 129—25.)



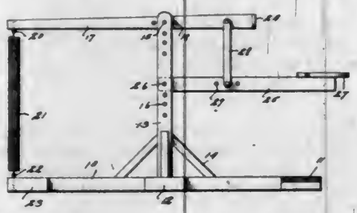
4. A retaining member for use with files or temporary binders of the type wherein the papers to be filed are received on flexible tongues, consisting of a member having a trough in its top face into which the flexible tongues can lie after being bent down over the retaining member and having incut slots in one of its longitudinal edges for laterally receiving the tongues and a latching member movable and retainable over the face of the retaining member.

1,662,874. BINDER. RICHARD M. VAN VALKENBURGH, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 12, 1925. Serial No. 61,976. 16 Claims. (Cl. 129—23.)



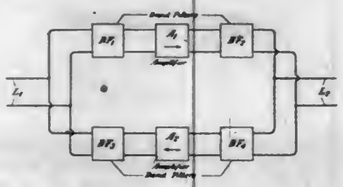
1. A loose leaf binder comprising a pair of covers hingedly connected by an arcuate back, a support plate rigidly attached to each of said covers, separable sheet receiving posts, a pair of post engaging angle bars, means permanently carried by each post engaging angle bar for locking the same to said posts and means for hingedly mounting each of said post engaging angle bars to a support plate.

1,662,875. SEESAW. HARLAN A. YOUNG and ARTHUR T. SHAKESHAFT, Topeka, Kans. Filed June 2, 1927. Serial No. 196,068. 3 Claims. (Cl. 272—55.)



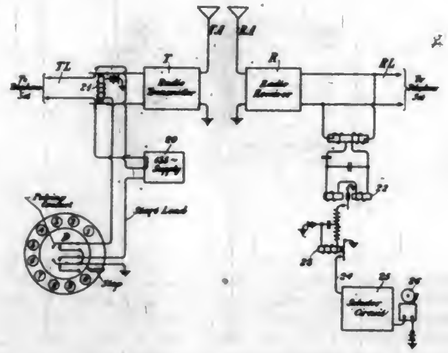
1. A single see-saw of the character described including a base, an upright, an upper lever having means whereby it may be fulcrumed at a plurality of points upon the upper end of the upright, one end of the lever being connected to the base by a coiled contractile spring, a second named lever disposed below the first and pivoted at its inner end to said upright and extending away from the spring, the fulcrum for the second named lever being adjustable vertically upon the upright into a plurality of positions, and a link connecting the first and second named levers.

1,662,876. REPEATER SYSTEM. HERMAN A. AFFEL, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 24, 1925. Serial No. 77,606. 5 Claims. (Cl. 179—15.)



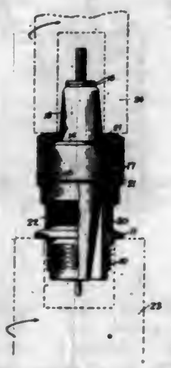
1. In a signaling system, the combination with a transmission circuit of telephone transmitters connected at different points thereon for the two-way transmission of speech thereover, a repeater circuit comprising two parallel branches connected with said transmission circuit between points of connection of the said telephone transmitters, each comprising an amplifier and a band filter, each of the said band filters being so designed and proportioned as to transmit a plurality of bands of frequencies, all of which bands lie within the limits of the speech band of frequencies, the bands transmitted by one of said filters lying between the bands transmitted by the other of said filters.

1,662,877. RADIO SIGNALING SYSTEM EMPLOYING MACHINE-SWITCHING DIAL. MILTON L. ALMQUIST, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 27, 1924. Serial No. 716,208. 12 Claims. (Cl. 250—6.)



1. In a signaling system, means for selectively signaling a desired station comprising means for transmitting the code number of the station in the form of successive digits, means at a receiving station for receiving the code number, a selector switch at the receiving station controlled by said means, means to advance said selector switch off normal in response to each digit, means to bring said selector to normal between digits, a signaling circuit, and means actuated to complete said circuit by successively advancing the selector switch in response only to each digit of the code of that station.

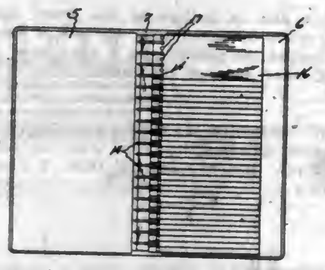
1,662,878. SPARK PLUG. GEORGE N. BARCUS, Andrews, Ind. Filed June 20, 1927. Serial No. 200,150. 5 Claims. (Cl. 123—169.)



1. A spark plug comprising a body having an inclined upper extremity, an external annular channel below said extremity, a gasket resting on the extremity

of said body, an insulator having an enlarged portion resting on said gasket, a gasket disposed on the opposite side of the enlarged portion of the insulator, and a sleeve having an internal flange resting on said last mentioned gasket and having its opposite end spun into said annular channel on said body, substantially as set forth.

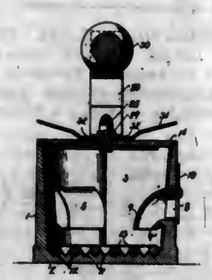
1,662,879. VISIBLE-SHEET BINDER. CLARENCE A. CEDERLEAF, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed May 21, 1927. Serial No. 193,245. 6 Claims. (Cl. 129—24.)



1. In a loose leaf binder, a spring base plate and a plurality of toggle plate units operatively supported in end to end relation by said spring plate, each unit having a set of coacting sheet-holding hooks operable independently of the hooks carried by the remaining units, said sheet-holding hooks being equally spaced apart throughout the length of the spring plate whereby a plurality of relatively narrow loose leaves may be retained by said hooks in overlapping relation, the hook sets engaging any leaf being operable independently of the remaining sets to release that leaf only.

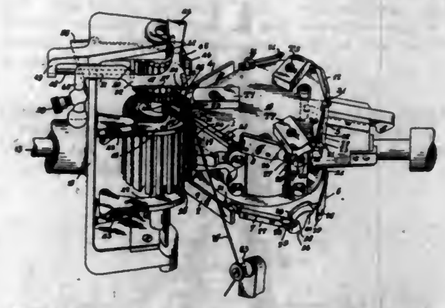
2. In a loose leaf binder, a spring base plate and a plurality of toggle plate units operatively supported in end-abutting relation by said spring plate, the abutting ends of said toggle plates having friction-reducing means whereby a single unit may be operated independently of the adjoining units.

1,662,880. IRON. HOWARD D. CHAPMAN, Baltimore, Md., assignor to Cary M. Strickler, Washington, D. C. Filed Apr. 4, 1925. Serial No. 20,794. 1 Claim. (Cl. 68—26.)



In a sad iron, in combination a base and a body having walls, said body being adapted to receive a solid fuel, a tubular air conducting duct leading from each side wall of the body and extending inwardly and downwardly toward the base thereof, the lower wall of the duct constituting an overhanging ledge for preventing the discharge of fuel through said duct, and valves for controlling said air openings.

1,662,881. ARMATURE-WINDING MACHINE. PENROSE E. CHAPMAN, St. Louis, Mo. Filed Mar. 22, 1924. Serial No. 701,082. 74 Claims. (Cl. 242—13.)



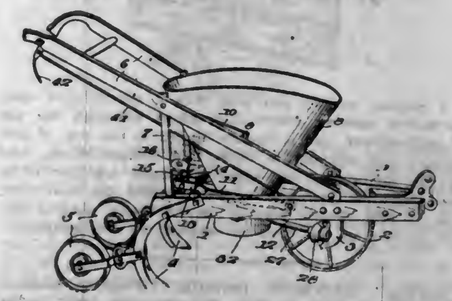
30. In a multipolar armature winding machine, the combination of means for placing the wire in the slots of an armature with fractional coil end forming fingers having substantially the shape of the overhanging portion of the coil and lands having surfaces so placed as to retain turns of the coil without additional support.

1,662,882. DRAFTING DEVICE. FREDERICK A. CLARK, Dayton, Ohio. Filed June 20, 1922. Serial No. 569,672. 1 Claim. (Cl. 33—174.)



An article of manufacture comprising a normally flat strip of thin flexible transparent material having therein a series of spaced perforations arranged in rows and longitudinally disposed crimps formed intermediate the rows of perforations and extending substantially parallel therewith and forming integral ribs normally supporting the perforated portions of the strips in slightly elevated position, the strip being adapted to be slidingly inserted edgewise intermediate a straight edge and a drafting surface to such extent that the directing margin of the straight edge will intersect said perforation, the perforated portions of the strip intermediate the longitudinal crimps being depressible into contact with the drafting surface, whereby a line drawn along the straight edge will be produced intermittently upon the drafting surface.

1,662,883. FERTILIZER DISTRIBUTOR. EUGENE M. COLE, Charlotte, N. C. Filed May 5, 1926. Serial No. 106,907. 11 Claims. (Cl. 221—118.)



1. A fertilizer distributor comprising a hopper, having a lower open end, a circular plate somewhat larger than the said lower end and spaced slightly below the same to provide an annular discharge opening, and means for oscillating said plate about its center.

1,662,884. SECTIONAL POLE. ALEXANDER CRUICKSHANKS, St. Louis, Mo. Filed June 18, 1923. Serial No. 646,158. 1 Claim. (Cl. 189—26.)



A coupling for the hollow sections of a sectional pole the diameter of said sections increasing from top to bottom, comprising a bushing having oppositely-directed bores of different diameters to accommodate sections of different diameter, the bushing being composed of a plurality of externally-tapered parts divided along longitudinal lines and having internal shoulders separating said bores and supporting the upper section of the sections coupled thereby, and an internally tapered sleeve adapted to force said parts into clamping relation with the sections connected thereby.

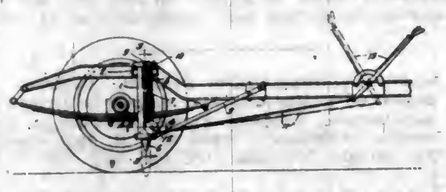
1,662,885. COMBINED DISPLAY CARD AND CABINET. SAMUEL M. DELL, Baltimore, Md., assignor to Samuel M. Dell & Co., Inc., Baltimore, Md. Filed Jan. 27, 1926. Serial No. 84,138. 1 Claim. (Cl. 312—189.)



A display cabinet provided with a plurality of compartments opening rearwardly, stops adjacent the top of said cabinet, and a closure hinged to the top of said cabinet and adapted to close said compartments, said closure comprising two sections hinged together along their adjacent horizontal edges, whereby the lower section of said closure may be swung under the top section to rest on the stops to support the top section.

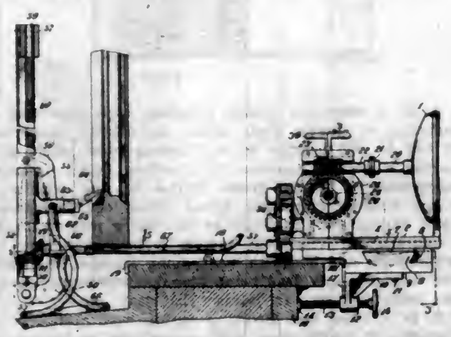
1,662,886. ANTISKID DEVICE. WILLIAM HERMAN FISCHER, Sharpsburg, Pa. Filed Dec. 29, 1926. Serial No. 157,781. 1 Claim. (Cl. 188—6.)

An anti-skid device for a motor vehicle comprising a frame attached to the chassis of the vehicle, a vertically arranged cylinder carried by the frame and having oppositely arranged slots therein, a pointed member slidably arranged in the cylinder, a pin passing through the member and through the slots, a pair of springs connected with the top of the cylinder and with the ends of the pin for holding the member in raised



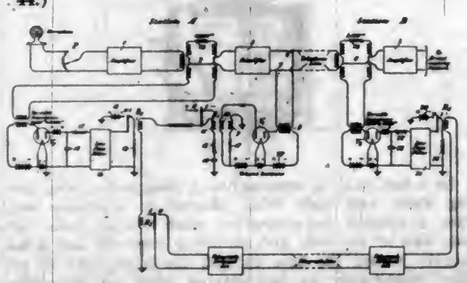
position, a pair of pulleys at the lower end of the cylinder, cables connected with the end of the pin and passing around the pulleys and a hand lever connected with the other ends of the cables.

1,662,887. WINDOW-WASHING MACHINE. HARRY A. HARRIS, Chicago, Ill. Filed Aug. 14, 1920, Serial No. 403,448. Renewed Jan. 15, 1926. 5 Claims. (Cl. 15—103.)



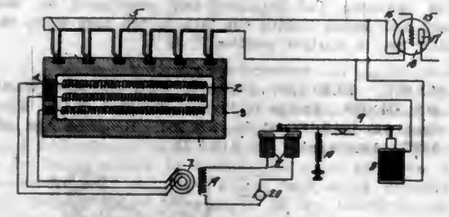
1. In a device of the character described, a fixed member, an elongated bed plate mounted on said fixed member and overhanging the same, means permitting sliding of said bed plate relative to said fixed member in longitudinal and transverse directions, a cleaning member mounted for vertical reciprocation on the end of said overhanging bed plate, means for actuating said cleaning member and manually controlled means interposed between said actuating means and said cleaning member for imparting different speeds to said cleaning member.

1,662,888. AUTOMATIC VOLUME CONTROL FOR TELEPHONE LINES. JOSEPH HERMAN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 31, 1925. Serial No. 78,658. 5 Claims. (Cl. 178—44.)



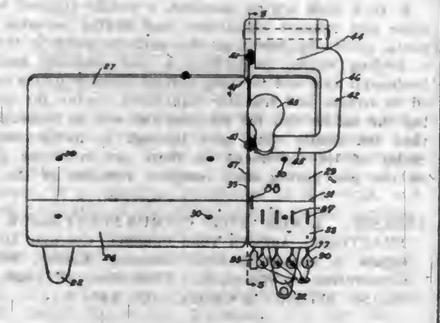
1. In a system for the transmission of telephone signals over wires, the method of limiting the current volume in the line, which consists in automatically converting at the sending station the peaks of the telephone currents, when said currents exceed a predetermined value and only at such times, into direct currents, and causing the direct current impulses automatically to effect a reduction of the volume at the sending station input to the line and a compensating increase of the volume at the receiving station output from the line.

1,662,889. ELECTRIC CONVERTER. ALBERT S. HUBBARD, New York, N. Y. Filed Dec. 6, 1922. Serial No. 605,250. 1 Claim. (Cl. 136—4.)



As a source of direct current, a thermo-electric generator, with a heater energized by electric current, and a metallic body between the heater and the generator adapted to absorb the pulsating energy from the heater and pass it on to the generator without pulsations.

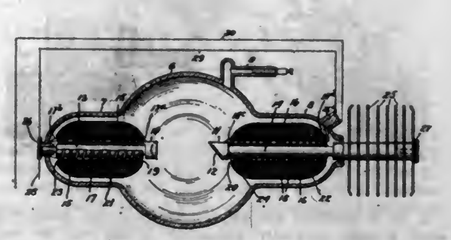
1,662,890. CUTTING MACHINE. ARTHUR W. MUELLER, Cincinnati, Ohio. Filed May 19, 1925. Serial No. 31,384. 11 Claims. (Cl. 31—25.)



3. In a cutting machine of the character described, the combination of a frame, a trough therein arranged to contain the material to be cut, said trough comprising a slanting bottom wall, a knife-frame, a knife-blade thereon, and a pivot-block between said knife-frame and said first-named frame, said pivot-block pivoted to both said frames by a plurality of pivots located below the plane of said slanting bottom wall of said trough when said lever is in retracted position.

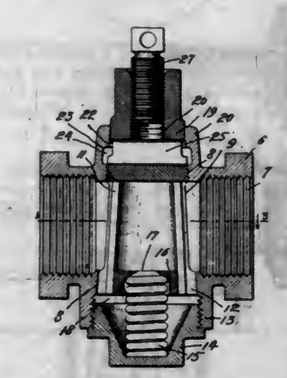
11. In a cutting machine of the character described, the combination of a trough comprising a slanting front wall and a slanting rear wall arranged at substantial right angles to each other, a frame, means for securing said trough to said frame with the angle of said trough presented downwardly, said trough provided with a knife-slot, said trough at one side of said knife-slot arranged for receiving the material to be cut, a knife-frame, a knife in said knife-frame cooperating with the wall of said knife-slot for cutting off pieces of the material, the said trough at the other side of said knife-slot provided with stop-slots, and stop-levers projected in opposite directions and having pivoting means at their proximate ends, said stop-levers provided with stops for the material fed past said knife-slot, and said stop-levers provided with manipulating means whereby to move the stops on said respective stop-levers through said stop-slots into the path of the material in said trough.

1,662,891. COMBINED VACUUM TUBE AND TRANSFORMER. ARTHUR MUTSCHELLER, New York, N. Y. Filed Jan. 14, 1921. Serial No. 437,195. 7 Claims. (Cl. 250—35.)



1. A device of the character described comprising a vacuum tube having a plurality of portions integral therewith, one of said portions being fashioned into a discharge compartment and the other of said portions being fashioned into an oil compartment, and a transformer and a volume of oil located within said oil compartment.

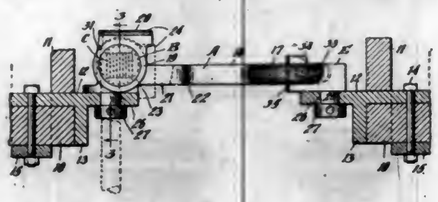
1,662,892. VALVE. SVEN JOHAN NORDSTROM, San Francisco, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed Apr. 29, 1926. Serial No. 105,363. 3 Claims. (Cl. 251—93.)



1. A valve comprising, a casing having a passageway therethrough and a tapered valve seat formed transversely of the passageway, a tapered plug seated in the valve seat and having a hole adapted to register with the passageway, a valve stem connected with the smaller end of the plug, means associated with the larger end of the plug for holding it resiliently against its seat, a circumferential groove at the smaller end of the plug, an annular recess in the adjacent part of the casing cooperating with the circumferential groove to form a lubricant chamber, a lubricant reservoir in the valve stem and having a communication with the lubricant chamber, means for putting the lubricant in the reser-

voir under pressure to force it into the chamber, the edges of the hole through the plug being chamfered to exert a wedging action on the lubricant to force it between the plug and the adjacent part of the valve seat and so cause it to travel longitudinally along and circumferentially about the surfaces of the plug.

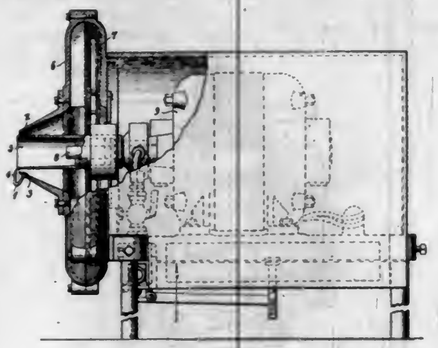
1,662,893. CONNECTER FOR MINE CARS AND THE LIKE. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Sept. 28, 1923. Serial No. 665,310. 9 Claims. (Cl. 213—14.)



1. In a resilient shackle for vehicles, the combination with a yoke pivotally connected to the car to swing in a vertical plane; a spring resistance incorporated in said pivotal connection and co-acting with said yoke; abutment means on the end of the car coacting with the spring resistance; and means adapted for detachably connecting the yoke to the end of another car.

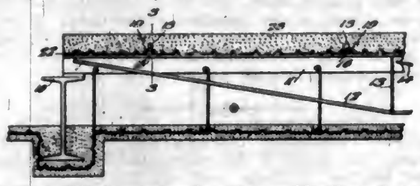
1,662,894. [WITHDRAWN.]

1,662,895. OIL BURNER. REGINALD H. PATTERSON, Washington D. C., assignor to Fuelo Corporation, Washington, D. C., a Corporation of Delaware. Filed May 17, 1927. Serial No. 192,117. 2 Claims. (Cl. 158—77.)



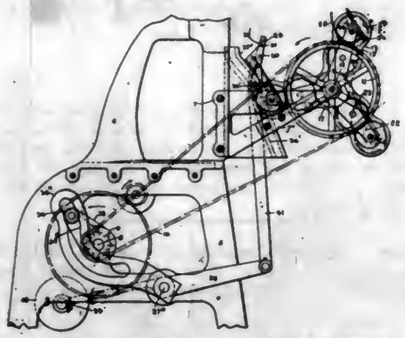
1. An oil burner comprising a fan housing, an air nozzle secured thereto and projecting outwardly therefrom, a rotatable fan within the housing, a rotatable oil discharging cup within the housing and projecting into the confines of the air nozzle, a motor for simultaneously rotating the oil cup and air fan, said air nozzle terminating short of the outer periphery of the oil discharging cup, a bent wire of substantially V-shaped formation having one end secured to the air nozzle and the other end projecting in a vertical plane in close proximity with the periphery of the oil discharging cup and adapted to convey oil dripping from the oil discharging cup downwardly away from the air nozzle, thereby to prevent the entrance of oil into the confines of the fan housing.

1,662,896. ATTACHING MEANS FOR STEEL LATHS. GEORGE F. PAWLING, Philadelphia, Pa. Filed Mar. 5, 1925. Serial No. 13,355. 9 Claims. (Cl. 72—70.)



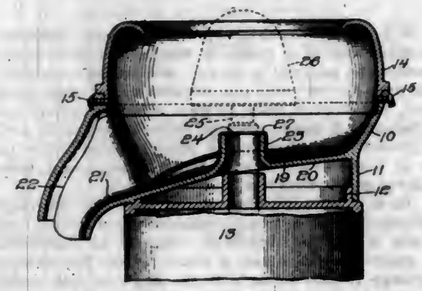
5. In building construction the combination of spaced supports, pegs projecting upwardly therefrom, metal lath spanning the supports and penetrated by said pegs, and means locking the lath to the pegs while the latter are in upright position.

1,662,897. FEEDING DEVICE FOR BOOK-SEWING MACHINES. EDWIN B. PIERCE, Brooklyn, N. Y. Filed Sept. 12, 1919, Serial No. 323,251. Renewed Apr. 30, 1927. 13 Claims. (Cl. 112—21.)



1. In a book sewing machine, a saddle adapted to receive and support signatures and having movable supports, guides to determine the path in which it travels, a feeding device comprising a reel rotating about a horizontal axis and carrying several arms or plates adapted to receive and transfer signatures, means for actuating the saddle and for rotating the reel so proportioned that the saddle shall pass through as many complete cycles of its movement as there are receiving plates on the reel during each complete rotation of the reel.

1,662,898. LINER FOR CITRUS-FRUIT-JUICE EXTRACTORS. ARTHUR TODD PURSELL, Chicago, Ill., assignor to Arnold Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 26, 1923. Serial No. 677,195. 2 Claims. (Cl. 146—3.)



1. In a citrus fruit juice extractor, the combination of a metal bowl having horizontally and laterally curved walls, a bottom inclined to the horizontal, a spout extending through said walls below said bottom, and a lining for said bowl conforming substantially to the shape

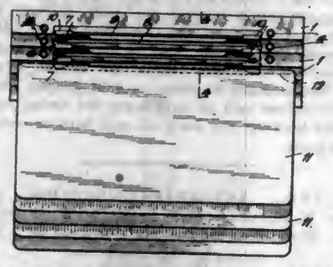
thereof, said lining being formed of paper treated to prevent passage of moisture and an open cover carried by said bowl retaining said lining in said bowl.

1,662,899. COMBINED CONTAINER AND TOY STAGE. ALFRED O. RIDGWAY and ALLAN FRALICK, Los Angeles, Calif. Filed May 10, 1926. Serial No. 107,859. 1 Claim. (Cl. 46—37.)



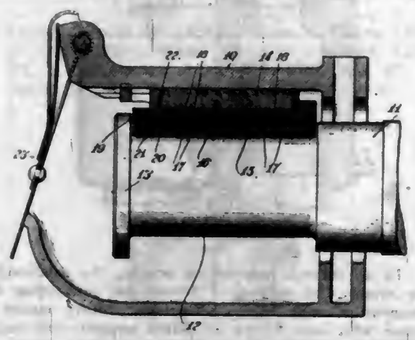
In a toy stage, a rectangular container for commodities formed from a flexible material having on one of its interior walls a photographic or engraved reproduction from the scene of a theatrical play, its oppositely disposed wall adapted to be cut away along indicated lines on its outer surface to disclose the scene and form a miniature stage, said last named wall being provided with printed figures adapted to be cut therefrom for mounting upon the wall forming the stage floor.

1,662,900. INDEX-ELEMENT CARRIER. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to The Globe-Wernicke Co., a Corporation of Ohio. Filed June 14, 1924. Serial No. 719,039. 14 Claims. (Cl. 129—16.7.)



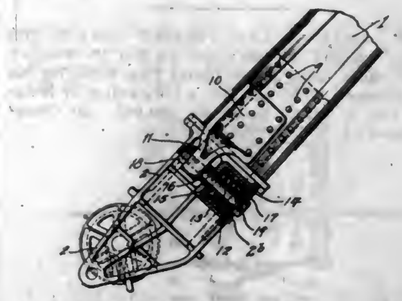
13. A card carrier for index devices comprising a strip of sheet material having portions folded over upon and secured to the body of the strip, and card-supporting means extending over a face of the strip between its side edges, in a direction lengthwise of the strip, and confined to a face of the strip by said folded portions.

1,662,901. JOURNAL BEARING. CHARLES T. RIPLEY, Chicago, Ill., assignor to S. & T. Metal Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 24, 1925. Serial No. 25,464. 5 Claims. (Cl. 308—53.)



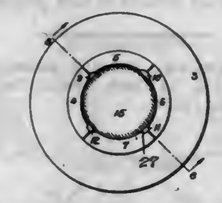
2. A journal bearing containing an indicating fluid freed by wear of the bearing to a certain extent.

1,662,902. SHOVEL-CRANE BOOM. LESLIE A. RUSSELL, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed July 2, 1924. Serial No. 723,623. 14 Claims. (Cl. 212—144.)



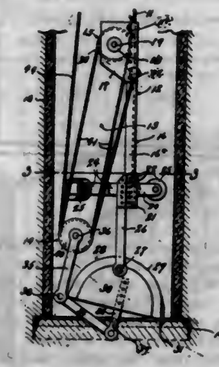
6. As a new article of manufacture, a power shovel boom comprising a foot member, a body member movably mounted upon the foot member, and resilient means intermediate the two for absorbing the shocks or stresses created by sweeping and stopping movements of the boom under actual conditions of service.

1,662,903. RADIAL BEARING. ALEXANDER E. SCHEIN, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,541. 4 Claims. (Cl. 308—121.)



3. A bearing having a plurality of portions of its inner circumference of a radius of curvature which exceeds the radius of the journal only by the uniform thickness of the supporting film of lubricating fluid.

1,662,904. WELL-EXCAVATING APPARATUS. ADOLPH P. SCHNYDER, Posg, Ill. Filed Dec. 4, 1926. Serial No. 152,551. 15 Claims. (Cl. 262—5.)



1. An excavating apparatus comprising a supporting framework, flexible suspension means therefor, an excavating and material holding bucket pivotally mounted on

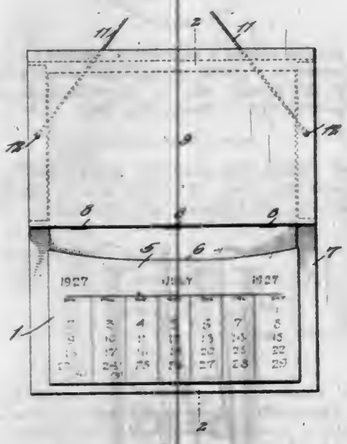
said framework, block and tackle mechanism on said framework and connected to said bucket for actuating the latter on its pivots, and cable connections for operating said block and tackle mechanism.

1,662,905. SHAPING AND TESTING DEVICE FOR AWLS. THOMAS H. SEELY and LE ROY W. ROLLINS, Malden, Mass., assignors to United Shoe Repairing Machine Company, Portland, Me., a Corporation of Maine. Filed Dec. 4, 1922. Serial No. 604,918. 20 Claims. (Cl. 76—82.)



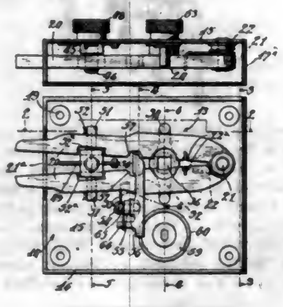
1. In a device of the class described, a guiding surface for guiding a shaping tool along the end of an awl, and coacting members for gripping the awl and moving it into a predetermined relation to said guiding surface.

1,662,906. CALENDAR. HUGH E. SHEDD, Minneapolis, Minn. Filed July 14, 1926. Serial No. 122,465. 1 Claim. (Cl. 40—119.)



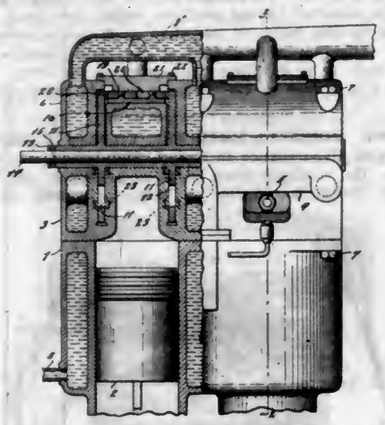
A calendar comprising a backing, a series of superimposed leaves connected along one edge of such leaves to the backing on a line substantially intermediate the upper and lower edges of the backing, each of the leaves having a section of the full width of the leaf and of less height thereof to provide a pocket on the face of the leaf accessible from the upper portion of the leaf, the face surfaces of the pocket sections being printed on the successive leaves to provide a calendar, the leaves being adapted to be turned upwardly onto the backing sheet to arrange the pocket inwardly of the leaf and wholly concealed thereby, and means for binding the upturned leaves against the backing sheet to prevent displacement of the contents of the pockets.

1,662,907. DOOR LATCH. CARL S. SHILLING and DUFFEY B. LOUZON, Chicago, Ill. Filed June 4, 1925. Serial No. 34,766. 11 Claims. (Cl. 292—49.)



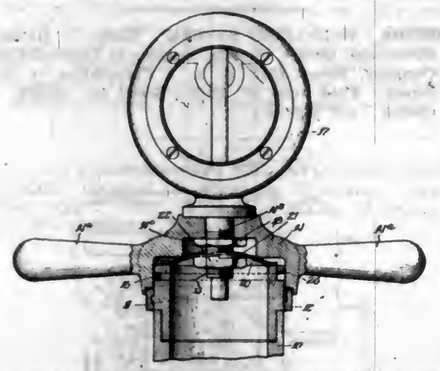
1. A securing device comprising, in combination with a door and a door frame, a latch mechanism including a pair of bars pivotally mounted on the door and having ends projecting beyond one edge thereof, a keeper mounted on the door frame and having an opening to receive said ends as the door is closed, resilient means for separating said bars within the keeper, a lever fulcrumed intermediate its ends on said keeper, and means connected to one end of said lever for swinging the opposite end between the ends of said bars to secure them in the keeper.

1,662,908. INTERNAL-COMBUSTION ENGINE. HARRY P. STEVENS, New York, N. Y. Filed Apr. 8, 1927. Serial No. 182,044. 7 Claims. (Cl. 123—59.)



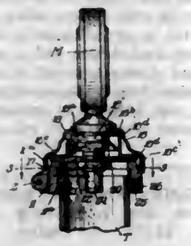
1. In an internal combustion engine, the combination with rotary disk valves, of devices for preventing displacement of said valves comprising, rotary means in contact with said valves at points opposite the intake and exhaust ports relative to the axes of rotation of said valves.

1,662,909. SEALING CAP FOR AUTOMOBILE RADIATORS. JOHN F. WHITE, Chicago, Ill., assignor to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1924. Serial No. 716,861. 17 Claims. (Cl. 220—24.)



1. An automobile radiator closure comprising the combination of a bushing for connection to the filling tube, a hinged cover for closing the end of the bushing, a resilient sealing device carried by the cover for cooperation with the bushing, and means for varying tension in the sealing device.

1,662,910. AUTOMOBILE RADIATOR CAP. JOHN F. WHITE, Chicago, Ill., assignor to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1925. Serial No. 10,721. 5 Claims. (Cl. 220—24.)



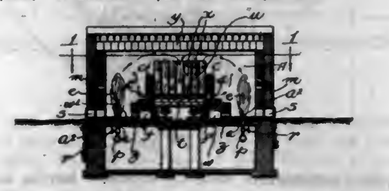
1. An automobile radiator cap comprising a connecting collar, a cap of sheet metal hinged thereto, a thimble member assembled in the cap member to form a gasket seat, and a detent member retained by the cap and thimble member for cooperation with the collar to hold the gasket compressed between the same and the gasket seat.

1,662,911. RADIATOR CAP. JOHN F. WHITE, Chicago, Ill., assignor to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1925. Serial No. 25,962. 5 Claims. (Cl. 220—24.)



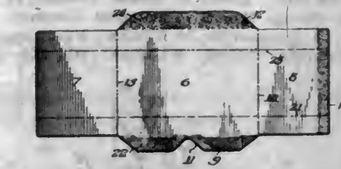
1. An automobile radiator attachment comprising a connecting bushing, a swinging cap arranged to cover the end of the bushing, a hinge member connecting the cap to the bushing, said hinge member being revoluble circumferentially of the bushing and concealed by the cap when in closed position, and means for retaining the cap in closed position.

1,662,912. TUNNEL-KILN FIRE BOX. WILLIAM E. WILSON, Mason City, Iowa, and HENRY G. LYKKEN, Minneapolis, Minn. Filed Apr. 5, 1922. Serial No. 549,726. 9 Claims. (Cl. 25—142.)



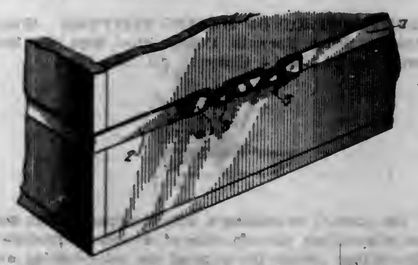
1. A kiln comprising a passage for the movement of ware therethrough, flame chambers at the side of the passage and having floors provided at intervals with flame ports, fuel supply means located beneath said floors and having means for projecting burning fuel upwardly through said ports and into said chambers, whereby the hot products of combustion may pass upwardly to the top of the ware and downwardly therethrough.

1,662,913. ENVELOPE. EUGENE F. AHLQUIST, Minneapolis, Minn., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1926. Serial No. 95,524. 5 Claims. (Cl. 229—79.)



1. An envelope comprising a body portion, imperforate side wing portions folded over said body portion, the outer ends of the wing portions extending substantially together, and bottom and top flap portions folded over said body portion, said wing portions and one over the other, one of said flap portions having a recessed margin exposing the margin of the other flap and a portion of the surface of each of said wing portions adjacent margins thereof, whereby a single wax seal may secure the wing and flap portions together.

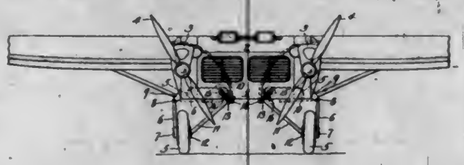
1,662,914. JOINT AND METHOD OF MAKING SAME. AUGUSTUS ANGEL, Brooklyn, N. Y., assignor to Signode System, Inc., Chicago, Ill., a Corporation of Delaware. Filed Nov. 28, 1921, Serial No. 518,251. Renewed Aug. 12, 1927. 15 Claims. (Cl. 24—20.)



1. The method of forming a reinforced joint in a flat tensional binder which consists in overlapping the ends

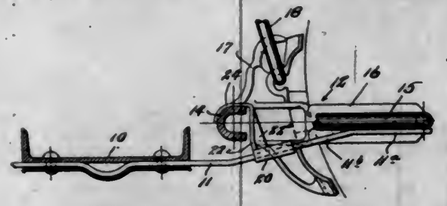
of the binder, bending back one end on the overlap to provide three thicknesses of material and then performing conjoint joint forming operations on said three thicknesses.

1,662,915. AIRPLANE. VINCENT J. BURNELLI, New York, N. Y. Filed May 7, 1927. Serial No. 189,527. 2 Claims. (Cl. 244—2.)



1. The combination with an airplane having a fuselage of a chassis therefor comprising wheels disposed at opposite sides beneath said fuselage, pendent hangers hinged one at each side of the fuselage and having rigid connection with said wheels, at their outer hubs, inclined arms having rigid connection with the inner hubs of the wheels respectively, said arms converging toward the fuselage bottom, gears carried by said arms at their free ends, arcuate racks engaging said gears and extended divergingly upward through said fuselage, and means for moving said gears along said racks to retract said chassis and thereby move said wheels into a horizontal plane at the bottom of said fuselage.

1,662,916. SAFETY GUARD AND SUPPORT FOR BRAKE BEAMS. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 26, 1924. Serial No. 734,202. 9 Claims. (Cl. 188—213.)



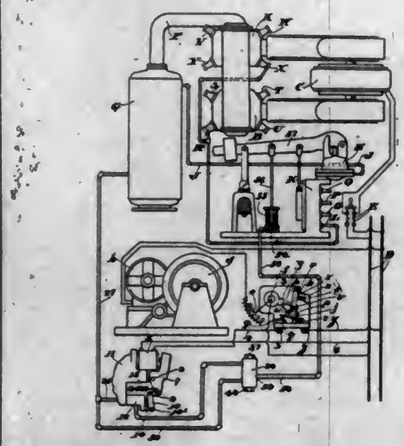
1. A device for guarding or supporting a trussed brake beam comprising a supporting bar for underlying a brake beam, a member slidably mounted thereon and having means in engagement with said bar for preventing relative movement of said member in a vertical plane, and an extension on said member for engaging the compression member of said brake beam, independently of the tension member of said brake beam, for maintaining said beam in proper angular position.

1,662,917. METHOD OF MAKING SLIPPERS. MORRIS CASPLER, South Norwalk, Conn. Filed Sept. 28, 1927. Serial No. 22,474. 4 Claims. (Cl. 12—142.)



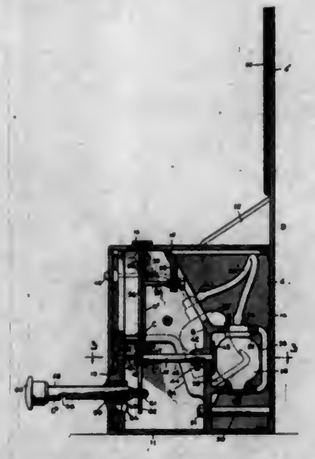
1. The method of making a turned slipper which comprises channelling the top side of a sole to produce a lip by cutting toward the edge of the sole, turning over the edge of the sole outside the lip onto the under side of the sole and hammering it down so that the lip lies substantially in the plane of the margin of the sole and extends outwardly therefrom, then sewing the upper or vamp to the under side of the outwardly extending lip, and then turning the slipper.

1,662,918. UNLOADING SYSTEM. HARRY V. HAIGHT, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 26, 1925. Serial No. 39,668. 3 Claims. (Cl. 230—4.)



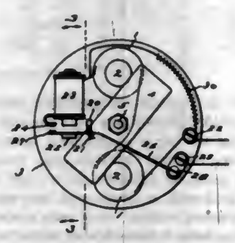
1. In an inter-control system, the combination of two power driven devices and means for decreasing the power consumption of one of said devices while the other said device is being started in operation including a pnuematic unloader for the first said device and a valve associated with the second said device adapted to supply pressure fluid to said unloader during the acceleration period of said second device and adapted to exhaust the pressure fluid from the unloader thereafter to reload the first said device.

1,662,919. PERFUME-VENDING MACHINE. JOHN FRANCIS HARWOOD, New York, N. Y. Filed Mar. 5, 1925. Serial No. 13,032. 13 Claims. (Cl. 194—77.)



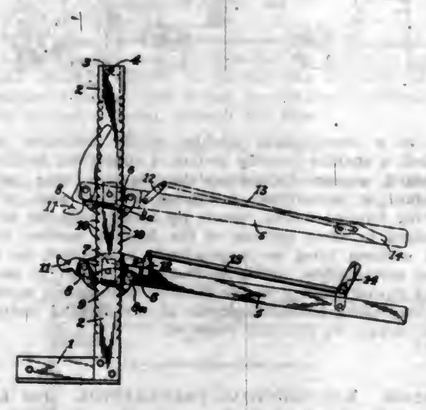
1. A vending machine for dispensing liquid perfumes or the like, comprising a casing having a coin opening therein, a yieldable operating member, a pivoted coin chute located entirely within the casing and adapted to be moved into and out of alinement with the coin opening and normally unconnected to the operating member, mechanism connected to the lower portion of the chute for moving the same and means whereby a coin deposited in the chute forms a connection between the chute and the operating member, the chute and the said member being associated so that arcuate movement of the chute beyond a predetermined position will disconnect the chute from the member permitting the coin to drop and the member to return to its retracted normal position.

1,662,920. OPERATING MECHANISM FOR TIME PIECES. NEWTON D. HOLBROOK, Thomaston, Conn. Filed Sept. 2, 1926. Serial No. 133,126. 10 Claims. (Cl. 58—41.)



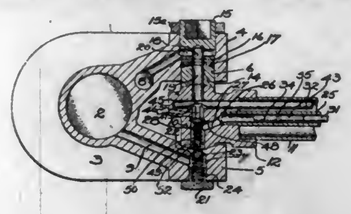
1. A time train driving mechanism comprising a main driving magnet, a supplemental switching magnet in series therewith, a driving armature for the main magnet, a switching armature for the supplemental magnet adapted to open and close the circuit through the magnets, a time train driving wheel, a pawl engaging said wheel, a spring arranged to cause the pawl to drive said wheel, and means actuated by the movements of the driving armature for tensioning the driving spring and retracting the pawl, said means also adapted to engage and move said switching armature of the supplemental magnet.

1,662,921. LIFTING JACK. ROBERT IRA HARRIS, Punta Gorda, Fla. Filed June 22, 1927. Serial No. 200,738. 4 Claims. (Cl. 254—109.)
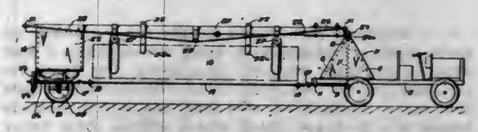


1. A lifting jack comprising a base, standards thereon, a handle carrying a load engaging element, and means also on the handle for raising the same up the standards in a step by step manner, and means to release the load engaging element into a load disengaging position.

1,662,922. HYDRAULIC JACK. MOSES J. HELMER, St. Paul, Minn. Filed Dec. 21, 1925. Serial No. 76,608. 4 Claims. (Cl. 138—9.)



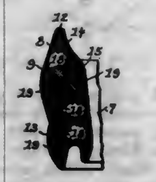
1. A jack of the class described comprising a cylinder, a piston therein, a lifting rod connected with the piston and passing through the top of the cylinder, a pump swiveled to the lower part of the cylinder and means for permitting liquid to pass from the pump when the same is actuated into the lower part of the cylinder to raise the piston therein and to permit liquid in the cylinder above the piston to return to the pump, valve means for normally preventing the liquid in the lower part of the cylinder from returning to the pump, a sliding member in the pump for moving such means to inoperative position and means for actuating the sliding member when the pump plunger is moved to its highest position.

1,662,923. VEHICLE FOR TRANSPORTING PIPES AND OTHER LOADS. WALTER REGINALD HUME, Melbourne, Victoria, Australia. Filed Nov. 18, 1925, Serial No. 69,900, and in Australia Dec. 3, 1924. 18 Claims. (Cl. 212—142.)



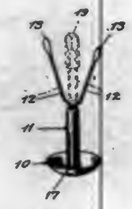
1. An improved vehicle especially for transporting pipes comprising in combination a wheeled forecarriage carrying an upstanding framework, an elevated load carrying beam supported at its forward end upon the top of said framework, a wheeled trailer having an upstanding framework disposed beneath and secured to the rear end of said beam, and hoisting devices associated with said beam whereby the load may be raised and lowered and suspended therefrom, said upstanding frameworks comprising side frames which are secured at their lower ends to the forecarriage and the trailer respectively and converge upwardly towards said elevated beam substantially as and for the purpose specified.

1,662,924. FALSE-TEETH TOOTH CROWN. FERNANDO OSCAR JAQUES, Jr., Providence, R. I. Filed June 24, 1927. Serial No. 201,136. 5 Claims. (Cl. 32—29.)



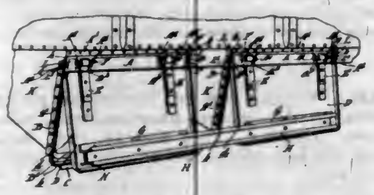
1. A false teeth metallic tooth crown having an inwardly bent ledge and an opening in the back of the crown, a series of apertures in the ledge and a series of apertures adjacent the edge of the opening in the crown, for the purpose as described.

1,662,925. PESSARY. DAYTON S. JOSLYN, Chicago, Ill., assignor to H. Carstens Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed May 18, 1927. Serial No. 192,200. 4 Claims. (Cl. 128—131.)



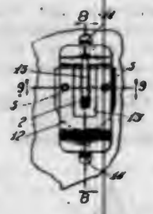
1. A pessary comprising a head, a solid-wall drain tube secured to said head, and resilient retaining fingers secured within and projecting from said drain tube.

1,662,926. HOPPER CAR. ADIN U. KERNS, Altoona, Pa. Filed Feb. 1, 1927. Serial No. 165,078. 3 Claims. (Cl. 105—249.)



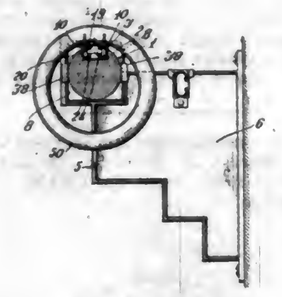
3. A drop door frame for a hopper car comprising an upper member provided with hinge pin supports, a seat ledge for the upper edge of a door and a rivet flange for attachment to the cross ridge sheet of the delivery hopper of a car in combination with side and bottom members formed of a Z shaped rolled section of yoke shape firmly secured to the upper member at its ends.

1,662,927. FIXTURE MOUNTING FOR METAL WINDOW CASINGS. CHARLES W. KIRSCH, Sturgis, Mich., assignor to Kirsch Manufacturing Company, Sturgis, Mich., a Corporation of Michigan. Filed Sept. 28, 1925. Serial No. 59,014. 8 Claims. (Cl. 156—22.)



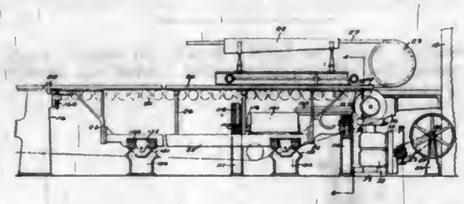
8. The method of securing fixtures of the type specified to metallic window-casings, which consists in perforating the window-casing, associating with the fixture clinchable projections for passage through perforations in the casing, interposing elastic means between said projections and the fixture, passing said projections through perforations in the casing, and then bending the same while maintaining the elastic means flexed to cause the said projections to engage the inner face of the perforated wall of the casing and maintain said elastic means permanently flexed.

1,662,928. COMPOSITE DRAPERY-SUSPENSION FIXTURE. CHARLES W. KIRSCH, Sturgis, Mich., assignor to Kirsch Manufacturing Company, Sturgis, Mich., a Corporation of Michigan. Filed Jan. 24, 1927. Serial No. 162,900. 17 Claims. (Cl. 156—20.)



1. A curtain or drapery supporting fixture including a pair of supporting brackets, a curtain pole supported by said brackets and having a continuous longitudinal groove therein, a hollow slotted curtain rod mounted in said groove, drapery carriers slidably associated with the walls of the slot of said rod, a draw-cord associated with said carriers and disposed within said rod, sleeves for engagement by said brackets telescopically mounted adjacent the ends of the pole and engaged with the groove therein for preventing rotation of said sleeves relatively to the pole, sheaves for said draw-cord carried by said sleeves, the latter and co-operating portions of said brackets shaped to prevent rotation of said sleeves relatively to said brackets.

1,662,929. PAPER-MAKING MACHINE. HERMAN L. KUTTER, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a Corporation of Ohio. Filed Dec. 26, 1923. Serial No. 682,684. 50 Claims. (Cl. 92—45.)

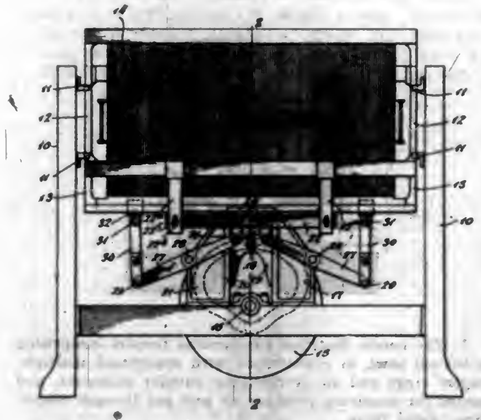


1. In a paper-making machine of the character described, a shaking forming section, a supporting shaking standard, a curved load-receiving surface upon said standard, a cooperating sustaining surface upon said shaking forming section, means for acting upon the said standard to effect shaking of the forming section, the said surfaces being so cooperatively constructed as to effect substantially rolling motion with respect to each other during shaking of the forming section, and means for controlling bodily movement of the forming section with respect to the said standard.

1,662,930. BACTERICIDAL PREPARATION. PER LALAND, Hovik, near Oslo, Norway, assignor to Nyegaard & Co., A/S, Oslo, Norway. Filed May 19, 1926, Serial No. 110,265, and in Norway Mar. 15, 1926. 6 Claims. (Cl. 167—9.)

1. A colloid silver preparation comprising a boro-glucoside obtained from Rhizoma Rhei in complex combination with the silver.

1,662,931. HARNESS MECHANISM FOR LOOMS. JONATHAN LUCAS, Savannah, Ga., assignor to Lucas-Lamborn-Loom Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 18, 1926. Serial No. 136,256. 5 Claims. (Cl. 139—58.)



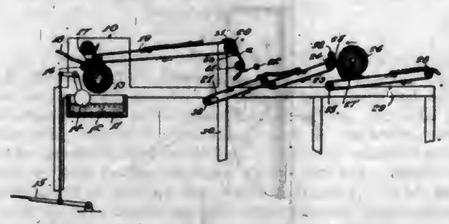
1. In a loom the combination of a pair of vertically movable harness frames, a vertically movable slide connected directly with one of said harness frames, a rocking lever pivotally connected with said slide and with the other harness frame, and a cam operatively connected with said slide for reciprocating the same to bring about a vertical reciprocation of said harness frames in inverse relation.

1,662,932. HYDRATING UNIT. HUGH MISCAMPBELL, Duluth, Minn. Filed Dec. 14, 1925. Serial No. 75,480. 3 Claims. (Cl. 23—287.)



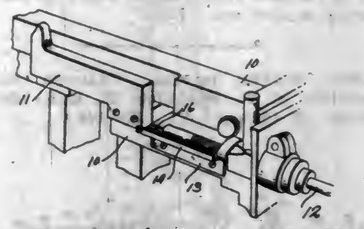
1. A lime hydrator including a final conveying and cooling chamber, a dam transverse the discharge end of said chamber whereby to prevent the discharge of the coarser material, and means for optionally discharging the coarser material through the dam.

1,662,933. CARROTING MACHINE. JOSEPH A. MORIN, Newark, N. J. Filed Mar. 2, 1927. Serial No. 171,981. 8 Claims. (Cl. 8—21.)



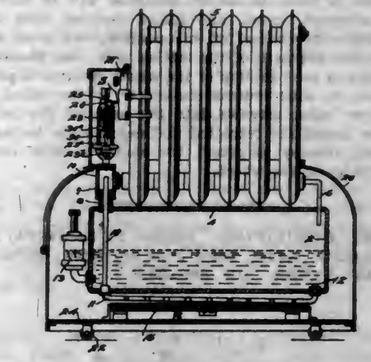
1. A carroting machine comprising a device for moistening and brushing the fur on a skin, a means for propelling the skin, both flexed and flat, and a second brushing means located so as to brush the fur when it is flexed and to brush it when it is flat.

1,662,934. INDENTION DEVICE FOR TYPOGRAPHICAL MACHINES. BERNARD M. NEES, Hyattsville, and Z RUBOTTOM, Takoma Park, Md. Filed Sept. 17, 1925. Serial No. 56,989. 1 Claim. (Cl. 199—50.)



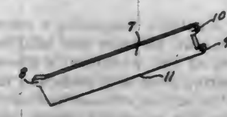
In a typographical machine, a device for forming indented type slugs by holding measuring means between the stop rod and movable vise jaw, the combination of a vise frame base, provided with a measure support, comprising a horizontal base, having a retaining flange at one edge, and a supporting flange at the other edge provided with screw openings, said support being devoid of obstructions at the ends so the stop rod of a typographical machine may move freely thereover, and securing means passing through said supporting flange opening, into the base frame screw openings.

1,662,935. ELECTRIC STEAM RADIATOR. JOHN B. ODELL, Riverside, Calif. Filed June 6, 1927. Serial No. 196,840. 12 Claims. (Cl. 219—38.)



1. An electric, steam radiator having an electric heat generator, a water coil disposed thereover to be heated thereby, an automatic pressure opened switch for the generator, means for automatically closing the switch, a steam shell receiving steam from the coil and a water trap serving the coil.

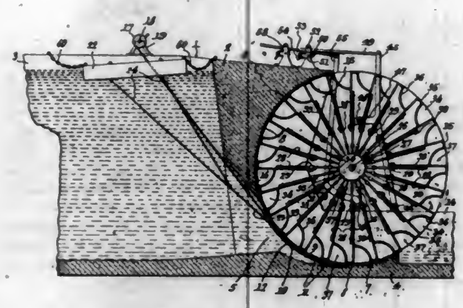
1,662,936. CHAMFERING DEVICE. ROBERT PHILIPP, Washington, D. C. Filed Apr. 7, 1926. Serial No. 100,289. 3 Claims. (Cl. 82—1.)



1. A chamfering tool for pipes or the like consisting of a hollow cone-shaped supporting member having a plurality of longitudinal slots therein and a threaded stud

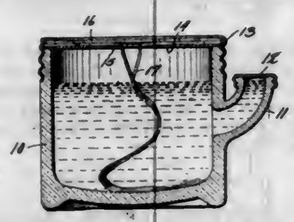
extending from the smaller end thereof, a plurality of blades, one mounted in each of said slots, said blades providing a plurality of cutting edges adjacent the interior surface of said supporting member, and a nut engaging and cooperating with said stud to removably secure said blades in the slots and to impart rotary motion to said supporting member and blades.

1,662,937. WATER POWER. CHAUNCEY RAMSDELL, Forestville, N. Y. Filed July 23, 1926. Serial No. 124,453. 2 Claims. (Cl. 170—144.)



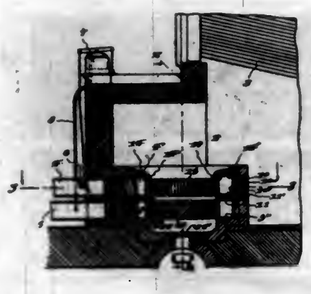
1. A water wheel comprising a frame, blades slidably mounted on the frame, latches connecting the blades with the frame to hold the blades advanced and to hold the blades retracted, levers, and fulcra therefor, each lever being under the control of an operator, one lever being movable into the path of the latches when the blades are advanced and near the top of the wheel, thereby to permit the blades to slide toward the center of the wheel, the other lever being movable into the path of the latches when the blades are retracted and near to the bottom of the wheel, thereby to permit the blades to slide toward the periphery of the wheel.

1,662,938. HUMIDIFIER. JOSEPH F. RICHMOND, Fort Leavenworth, Kans. Filed June 10, 1926. Serial No. 115,046. 1 Claim. (Cl. 299—20.)



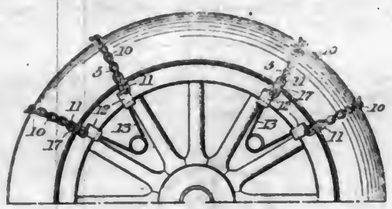
A moistener for humidors comprising a container, a supporting plate having an aperture and adapted to be disposed upon the top of the container, a fibrous water absorbing element resting upon said plate and having a wick threaded through the fibrous element and extending downward into the container, a second fibrous element superimposed upon the first-named element and covering the exposed portions of the wick and means for clamping the fibrous element to the plate on the top of the container.

1,662,939. APPARATUS FOR SMELTING THE METALLIC DUST AND RECOVERING THE HEAT FROM BLAST-FURNACE GASES. JOSEPH MARTIN SCHUTZ, Chicago, Ill., assignor, by mesne assignments, to Charles Gilbert Hawley, Cleveland, Ohio. Filed Feb. 5, 1924. Serial No. 690,863. 2 Claims. (Cl. 266—1.)



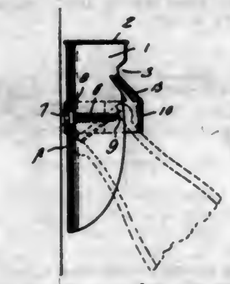
1. The herein described gas burning furnace comprising a bottom bowl, in combination with superposed multiple-tuyère rings and an overhanging annular abutment, and means for supplying pressure air and gas through respective tuyère rings.

1,662,940. CHAIN HOOK. FREDERICK SIEVERN, McKeesport, Pa. Filed Sept. 28, 1927. Serial No. 222,440. 4 Claims. (Cl. 24—232.)



1. Hook structure, comprising a body portion having an extremity bent to hook form, a disc-like member of yieldable material secured to the body portion and projecting beyond the said body portion to a point adjacent to said extremity, means permitting rotatable adjustment of said disk-like member, and means for compressing the disc axially and spreading the same radially.

1,662,941. MILK-BOTTLE-CAP REMOVER. STONE WALL SIMON, Beaumont, Tex. Filed May 31, 1927. Serial No. 195,319. 6 Claims. (Cl. 65—46.)



1. A device of the class described comprising a casing adapted to be supported in a vertical position, the front side of the casing being open, to accommodate the neck

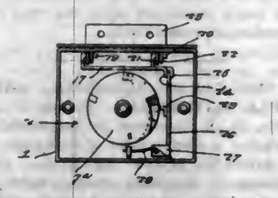
of a milk bottle, and a stopper removing pin projecting from the rear side of the intermediate portion of the casing adapted to pierce and remove the stopper from the bottle when the latter is tilted.

1,662,942. ATTACHMENT FOR PUMP PISTONS. CLAUDE S. SNODDY, HOMER A. HINES, and HAMILTON ALVI MEGONIGLE, Bartlesville, Okla. Filed June 14, 1927. Serial No. 198,774. 4 Claims. (Cl. 103—221.)



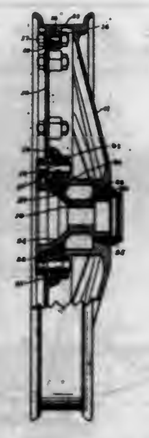
1. In a well pump, the combination with a valved piston, of a rod located in the piston below its valve and projecting below the piston, an apertured casing attached to the lower end of the piston through which said rod slidably projects, said rod being guided in said casing and being adapted to be thrust upward to open the piston valve when the normal stroke of the piston is changed, a tubular guide member slidably fitted in the casing and on the lower end of said rod, and a nut member secured on the lower ends of said guide member and said rod.

1,662,943. COMBINATION LOCK. IVAN TREPANIER, Waterbury, Conn. Filed Jan. 19, 1927. Serial No. 162,093. 1 Claim. (Cl. 70—55.)



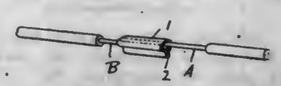
In a structure of the class described, a hollow casing, a spindle mounted for rotation in said casing, tumbler disks carried by said spindle, said disks being provided with notches adapted to be brought into registry, and with cooperating means for operating them in succession and under predetermined conditions, a pivotally mounted actuator in said casing provided with a bracket adapted to be received in said notches when in registry, a latch disposed at right angles to said actuator, said latch having one end bifurcated, and the furcations being formed to engage the upper end of said actuator, said latch being also provided with a pair of retainers, and apertured brackets in said casing with which said retainers are adapted to slidably coact.

1,662,944. DISK WHEEL. CONRAD WERRA and JOHN T. WATRY, Waukesha, Wis. Filed July 14, 1922. Serial No. 574,942. 1 Claim. (Cl. 301—63.)



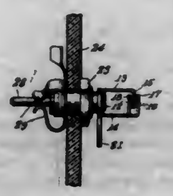
In a disk wheel adapted to receive a pneumatic tire, a hub, a pair of disks detachably mounted on said hub, a plurality of radially disposed lugs formed on one of said disks, a corresponding number of radially disposed bosses formed on the other of said disks, said lugs and bosses being formed with chamfered grooves and shoulders, bolts cooperating with aid lugs and bosses for coupling said disks together, said disks being journalled on said hub.

1,662,945. SOLDERING DEVICE. MARCUS FRANS WIELAGE, Miami, Fla. Filed Apr. 28, 1927. Serial No. 187,294. 1 Claim. (Cl. 113—112.)



In a soldering device of the class described, a tube open at its respective ends, a soldering paste filling for the tube, puncturable closures for the open ends of the tube, and a covering of inflammable material for the tube, said covering being spaced from the tube to provide an air passage.

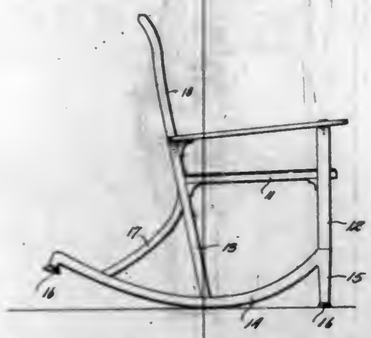
1,662,946. WIRE TERMINAL. LOUIS E. BALTZLEY, Glen Ridge, N. J. Filed Feb. 1, 1926. Serial No. 85,101. 3 Claims. (Cl. 173—259.)



1. A wire terminal of the character disclosed, comprising spring arms standing in substantially parallel relation, one having an angularly turned apertured lug at the free end thereof and the other having an angularly turned end lug overstanding the first mentioned end lug and a second lug cut out of the body of the end lug and bent inwardly into position understanding the lug of the first spring arm, said cut out lug being perforated and

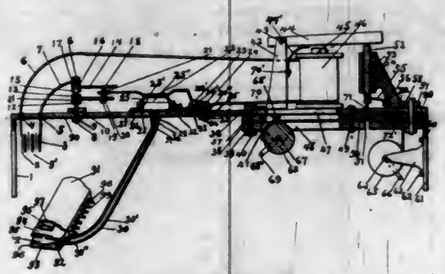
the taking of such lug from the body of the parent lug leaving said parent lug with a wire receiving end opening in substantial alinement with the aperture in the cut out lug.

1,662,947. RADIO OPERATOR'S CHAIR. OLIN E. BANKER, Wilkes-Barre, Pa. Filed Feb. 8, 1927. Serial No. 166,787. 2 Claims. (Cl. 155—69.)



1. A chair having a back and a seat, front legs extending downward from the seat, rear legs extending downward from the back, and rockers extending beneath the rear legs and upward and forward to intersect the front legs above the lower ends of the front legs, said rockers extending rearward and upward from the intersection with the rear legs, the front legs having their lower ends disposed in the same plane as the lower face of the rocker at a point immediately beneath the legs, the front legs being of sufficient length to contact with the floor and limit the forward rocking movement of the rockers support the seat of the chair in an approximately horizontal position when the front legs are brought against the floor.

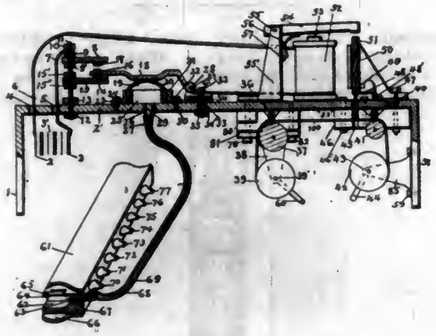
1,662,948. METHOD FOR MAKING RECORDS. JOSEPH LE ROY BANKS, Baltimore, Md., assignor to The Rolmonica Music Co., Baltimore, Md. Filed July 22, 1924. Serial No. 727,466. Renewed Nov. 15, 1927. 7 Claims. (Cl. 84—461.)



2. A method for making records, consisting of causing air currents to move in opposite directions to vary the air pressure in chambers and thereby operating diaphragms to manipulate electrical circuits to operate recording devices and moving a sheet to receive the record.

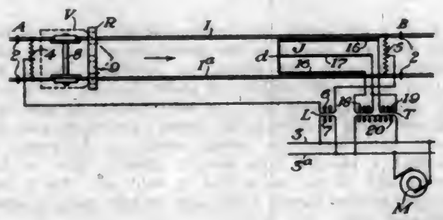
1,662,949. RECORDING MACHINE. JOSEPH LE ROY BANKS, Baltimore, Md., assignor to The Rolmonica Music Co., Baltimore, Md. Filed July 22, 1924, Serial No. 727,467. Renewed Nov. 15, 1927. 11 Claims. (Cl. 84—461.)

2. A recording machine comprising a plurality of air chambers provided with diaphragms and inlets to each chamber with means for varying the pressure in each chamber to operate said diaphragms, electrical contacts with means for supporting them over their respective diaphragms, electric circuits secured to said contacts and



to the helices of electro-magnets respectively, said electro-magnets provided with means for operating recording devices, recording devices operable by said electro-magnets respectively, and means for receiving the record.

1,662,950. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. GEORGE W. BAUGHMAN, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1927. Serial No. 178,617. 6 Claims. (Cl. 246—63.)



1. Railway traffic controlling apparatus comprising three parallel conductors located in the trackway and connected together at one end, and two sources of alternating current having a common terminal connected with the free end of one conductor, the remaining terminals of said sources being connected with the free ends of the remaining conductors respectively.

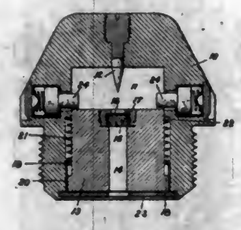
1,662,951. PROCESS OF BLEACHING ANIMAL AND VEGETABLE MATERIALS. ALFRED O. BRAGG, Niagara Falls, N. Y., assignor to International Bleaching Corporation, a Corporation of Delaware. Filed Sept. 5, 1925. Serial No. 54,818. 12 Claims. (Cl. 8—2.)

1. The process of bleaching ground wood pulp, which consists in circulating the pulp in water having mixed therewith a bisulphite, free sulphurous acid, and an acid other than the sulphurous acid, and finally washing the mixture with water until free of acid and other undesired materials.

1,662,952. LOCKING DEVICE FOR FUSES. HAROLD M. BRAYTON, Dover, N. J. Filed Aug. 5, 1924. Serial No. 730,295. 2 Claims. (Cl. 102—39.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A fuse including a body formed with a cavity, an element of a firing mechanism carried by the body, a cylindrical plunger slidably mounted within the cavity,

said plunger formed with an annular flange, an element of a firing mechanism carried by the plunger, a sleeve embracing the base of the plunger, said sleeve formed with a rim normally spaced from the flange, a coil spring en-



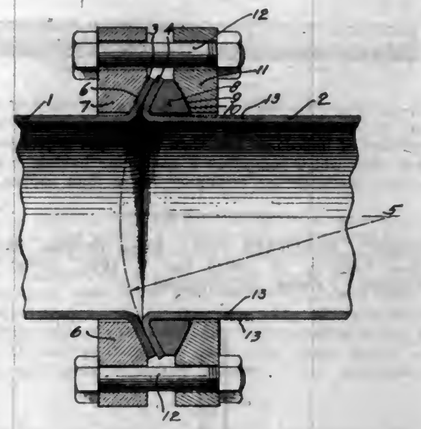
circling the plunger and confined between the body and the sleeve, and centrifugally released locking pins carried by the body and positioned adjacent the forward face of the plunger when said plunger is in unarmed position.

1,662,953. APPARATUS FOR DRAINING AND CLEANING SUPERHEATERS. BENJAMIN BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 20, 1921. Serial No. 493,900. 2 Claims. (Cl. 122—460.)

1. In a superheater comprising two horizontal tubular headers and tubular superheater elements whose two ends are secured each to one of the headers and open into the header above its bottom and portions of which are entirely below their ends; the combination of said headers and elements; a hollow blower head having a face adapted to seat against the openings of the element ends in one of the headers; resilient means forcing the head toward said openings and engaging the opposite inner wall of the header; and means to bring the head successively into seating engagement with said openings and to supply fluid under pressure to it.

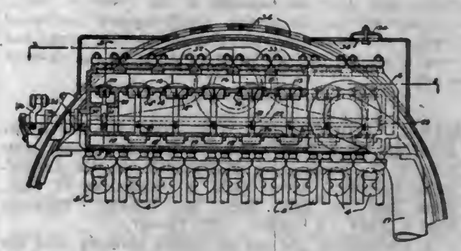
1,662,954. PIPE JOINT. BENJAMIN BROIDO, New York, N. Y.; Anna G. Freedman Broido and The National City Bank of New York, administrators of said Benjamin Broido, deceased. Filed July 10, 1922. Serial No. 573,789. 2 Claims. (Cl. 285—140.)

1. In a pipe joint of the class described, the combination of a pipe having a frusto-conical flange, a second pipe having a flange in the form of a spherical segment engaging the flange of the first pipe, a backing ring engaging the second flange and having the form of a spherical segment opposite the flange, rings engaging the outer



surface of the first flange and the spherical surface of the backing ring, and means to draw said rings toward each other.

1,662,955. BALANCED MULTIPLE THROTTLE. RAY M. BROWN, Yonkers, N. Y., assignor, by mesne assignments, to American Throttle Company, New York, N. Y., a Corporation of New York. Filed Apr. 21, 1925. Serial No. 24,802. 2 Claims. (Cl. 122—462.)



1. In apparatus of the class described, the combination of an elongated horizontal chamber for superheated steam; two horizontal partitions dividing the chamber into three spaces; means to deliver the steam into the top chamber and to take it off from the middle chamber; a passage from the top chamber to the bottom chamber; a valve controlling said passage and opening toward the top chamber; a stem on said valve; there being a row of ports in the upper partition and a corresponding and alined row of openings in the lower partition; valves opening toward the top space controlling the ports and having stems bearing portions closing and reciprocating in the corresponding openings in the lower partition; all of said valve stems being in line; a rotatable shaft adjacent and parallel to the row of valve stems; means to give the rod a rotary motion; means secured to the rod engaging each valve stem and adapted to actuate the valve; said means being arranged to open the first-named valve ahead of all the others.

1,662,956. TELEGRAPH CONDUCTOR. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1921. Serial No. 525,994. 7 Claims. (Cl. 173—264.)



1. A submarine cable composed of a plurality of sections at least one of these sections having a temperature coefficient of impedance less than $2x10^{-3}$ per degree centigrade, and which comprises a conductor having a temperature coefficient of resistance lower than copper.

1,662,957. FOUNTAIN PEN. NORA THERESA BURKE, New York, N. Y. Filed Dec. 6, 1926. Serial No. 152,862. 1 Claim. (Cl. 120—46.)



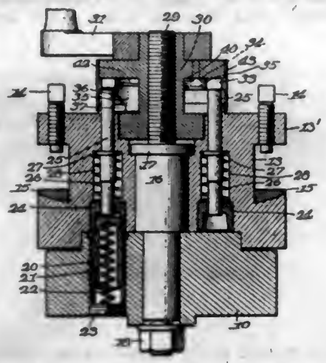
A fountain pen comprising a body portion and a pen point, the body portion having a reservoir, the reservoir having a connection at each end, one connection communicating with the pen point, the other connection being a single very small opening, an air suction means connected to the very small opening and of effective capacity less than the capacity of the reservoir means for protecting the air suction means against accidental operation and means for operating the suction means and having a portion exposed at the outside of the shell of the pen.

1,662,958. COMPOSITION FOR USE IN FORMING RUBBER AND THE LIKE. JAMES M. CRANZ, Buffalo, N. Y., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 28, 1926, Serial No. 138,836. Renewed Aug. 5, 1927. 5 Claims. (Cl. 18—47.)

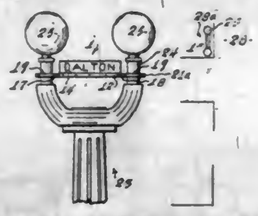
1. A composition for use on heated surfaces used for shaping rubber and other plastic materials, consisting of a hyposulfite of an alkali metal, and a sugar.

1,662,959. TOOL POST. KENNEDY H. CRUMRINE, Cleveland, Ohio, assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Illinois. Filed Aug. 20, 1926. Serial No. 130,402. 3 Claims. (Cl. 29—49.)

1. In a tool post, the combination of a base, an upwardly spring-pressed locking bolt in said base, a tool holder rotatable on said base having sockets in its under side to interlock with the upper end of said bolt, a fixed stud extending centrally through said base and tool holder and formed with a post on its upper end, upwardly spring-pressed plungers in said tool holder axially aligned with said sockets and adapted, when depressed, to force said bolt to unlocking position, said plungers extending above said tool holder, an operating lever having a hub rotatable on said post, and a pawl pivoted on said hub and formed with a cam operating, when the hub is turned, to depress a plunger, and with a shoulder operating, through side contact with the upper end of the depressed plunger, to index said tool holder to a new position.

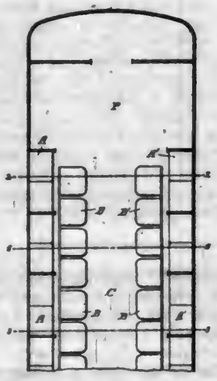


1,662,960. SYSTEM AND MEANS FOR MARKING STREETS. JOHN W. DE FORD, Los Angeles, Calif. Filed Apr. 12, 1927. Serial No. 183,218. 4 Claims. (Cl. 40—131.)



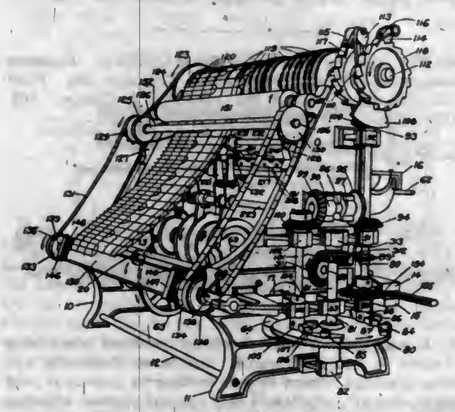
4. Street marking and illuminating means comprising in combination a post, a pair of spaced branching arms to said post; each provided with a light, a sign member horizontally disposed between and connecting said arms; said sign member disposed below said lights and presenting a pair of opposed upwardly converging surfaces meeting at an apex below said lights, and similar indicia on each such surface.

1,662,961. PASSENGER VEHICLE. José Luis DELPINI, Buenos Aires, Argentina. Filed Jan. 27, 1927, Serial No. 163,984, and in Argentina Aug. 12, 1926. 2 Claims. (Cl. 105—344.)



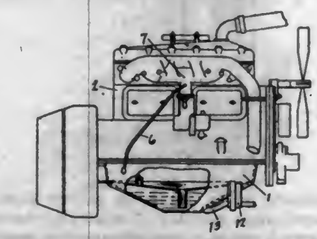
1. A vehicle having seats arranged in longitudinal rows, in which the seats in the row adjacent to one side wall of the vehicle and in the next adjacent row face in a direction normal to the longitudinal axis of the vehicle, which has at least one other row of seats adjacent to the other side wall of the vehicle, the row of seats adjacent to the first mentioned side wall being disposed on a lower level than the next adjacent row of seats.

1,662,962. WIRE-FENCE MACHINE. JOHN W. DWIGGINS, Knightstown, Ind., assignor to The Parrish-Alford Fence and Machine Company, Knightstown, Ind., a Corporation of Indiana. Filed Sept. 2, 1926. Serial No. 133,253. 18 Claims. (Cl. 140—4.)



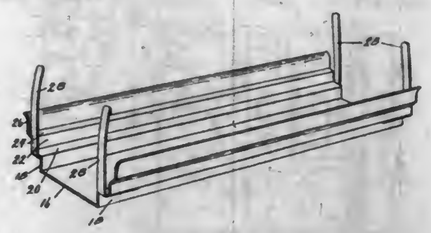
1. In a loom for weaving wire fabrics, a warp shedding mechanism and weft supply mechanism, a plurality of benders spaced across the shed at varying distances from the weft supply to permit the rise of separate weft strands of excess length over the said varying distances, and said benders being capable of diverting the said excess lengths out of that portion of the shed on the far side of the bender from the weft supply, and being capable of reinserting the excess lengths into that portion of the shed between the bender and the weft supply and deflectors to keep the excess length of a weft out of the way while a succeeding weft is being inserted, substantially as set forth.

1,662,963. OIL CONCENTRATOR. IVAN L. EASTMAN, Toledo, Ohio, assignor of one-half to Le Roy E. Eastman, Toledo, Ohio. Filed June 18, 1926. Serial No. 116,912. 5 Claims. (Cl. 123—196.)



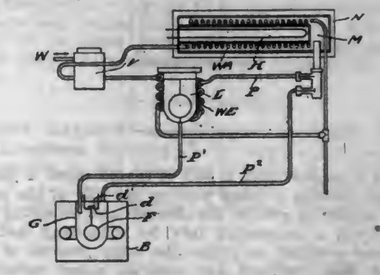
1. In an oil concentrator for internal combustion engines, a plate extending across the crank shaft casing for covering the oil in the casing, means for producing a vacuous condition below the plate, a tube extending from the plate to a point below the level of the oil for directing air through a portion of the oil.

1,662,964. STENCIL PRINTING SYSTEM AND APPARATUS. HARMON P. ELLIOTT, Watertown, Mass. Filed Jan. 25, 1927. Serial No. 163,525. 4 Claims. (Cl. 101—47.)



1. A transfer tray for a collection of stencils open at the ends and having a bottom wall and upstanding opposed side walls formed with a pair of opposed parallel stencil-supporting shelves spaced above said bottom wall, said side walls also having a second pair of opposed parallel shelves disposed above said stencil supporting shelves and below the tops of said walls, and stencil-retaining members upstanding above and in line with said stencil-supporting shelves at the ends thereof.

1,662,965. CONTROL SYSTEM FOR REFRIGERATING APPARATUS. EMORY S. ENSIGN, New Haven, Conn., assignor to National Refrigerating Company, New Haven, Conn., a Corporation of Massachusetts. Filed Mar. 31, 1926. Serial No. 98,732. 10 Claims. (Cl. 62—5.)

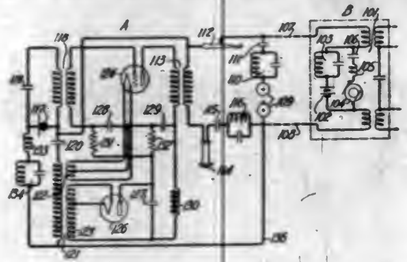


1. The combination, with absorption refrigeration apparatus of the character designated, of a chronometric control member, means arranged to be successively stimulated by the said control member to initiate and terminate in alternation the emission and absorption stages of the cycle of said refrigeration apparatus, means adapted to delay progress of said chronometric control member near the close of the absorption stage, and means responsive to exhaustion of the condensed refrigerant, whereby said chronometric control member is made free to progress normally.

1,662,966. SUBSTATION CIRCUIT. JOHN W. FOLEY, Bogota, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,660. 7 Claims. (Cl. 179—81.)

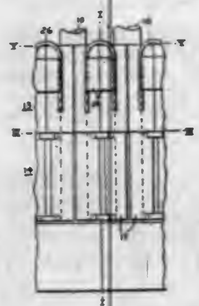
1. In a telephone exchange system, a central office, substation apparatus associated with said central office, an amplifier at said substation including an anode, a cathode and an impedance control element, a source of alternating current at said central office, a line connecting said substation with said central office to transmit current from said alternating current source to said substation, means for transmitting speech currents in two directions over said line, means for applying said

speech currents to said impedance control element, means at said substation to rectify said alternating current, means to supply said rectified current to said anode,



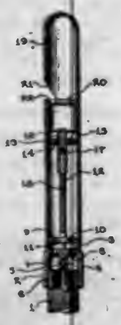
means to supply said alternating current to said cathode, and means to exclude said alternating current from said control element.

1,662,967. FURNACE WALL. ROBERT A. FORESMAN, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 18, 1926. Serial No. 109,998. 7 Claims. (Cl. 122—6.)



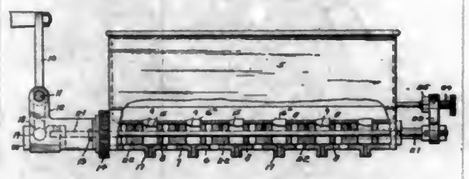
1. In a furnace wall, a pair of spaced tubes, a pair of elements forming a closed wall on one side of the tubes, means carried by each of the elements and extending part way around a cooperating tube for supporting said element and arranged to permit the ready removal of said element from the wall and resilient means permitting relative expansion between the elements for connecting the elements together.

1,662,968. TIRE ALARM. LEE GARRETT, Borger, Tex. Filed Apr. 21, 1926. Serial No. 103,528. 1 Claim. (Cl. 116—34.)



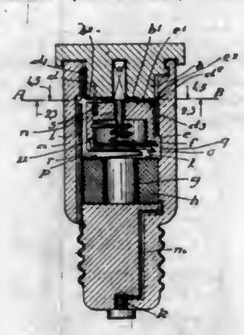
An audible low-pressure indicator for vehicle tires comprising a casing provided with spaced disk walls of which one is disposed adjacent one end and provided with a central extension for engagement with and the unseating of the movable element of a tire inflation valve, said extension being provided with a bore opening on that side of the disk wall facing the opposite disk wall, a partition disk wall disposed adjacent the first disk wall and provided with a valve opening, a screw threadingly engaged with the second disk wall in axial alignment with the casing, said screw being provided with an axial bore, a valve engaging the valve seat of the partition disk wall and having a stem slidably engaged in the bores of the extension and the screw, a compression spring in surrounding relation to the stem and compressed between the valve and the extremity of the screw, said spaced disk walls having perforations, and a whistle carried by the casing at its outer end.

1,662,969. BATTER-MEASURING MACHINE. GIUSEPPE GERACE and JOSEPH W. WEAVER, Lebanon, Pa. Filed Oct. 13, 1926. Serial No. 141,314. 5 Claims. (Cl. 107—28.)



1. A mechanism of the character described comprising a hopper, a tubular element associated therewith and having openings formed therein leading to pockets in said tubular element, rotation of said tubular element bringing said openings first into communication with the hopper and then into communication with the discharge ports, plungers movable into said pockets, a rod by which said plungers are carried and an operating handle connected to the tubular element for rotating the same and pivoted for rocking movement and connected with said rod in such manner that rocking movement of the handle imparts endwise movement to the plungers and the rod.

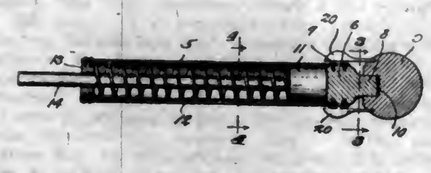
1,662,970. SAFETY DEVICE FOR ELECTRIC LINES. CARL GROSSE, Berlin-Hermsdorf, Germany. Filed June 12, 1925, Serial No. 36,746, and in Germany Aug. 18, 1924. 3 Claims. (Cl. 200—89.)



1. An automatic safety device for electric lines, comprising in combination a casing of insulating material, a socket on the said casing, a rotatable contact member in the said casing, a second rotatable contact member in the casing, a spring capable of acting on the second contact member and of turning the same when free to move, a semi-circular groove in the second contact member, a pin on the first contact member for engaging in the said groove for coupling the two contact members, contact arcs on the surfaces facing each other of the two contact

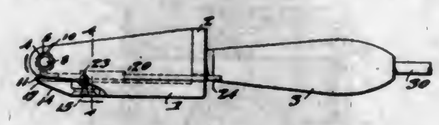
members, each arc forming a lateral contact on the contact member, on which it is mounted, a solenoid located in the casing, securing means for the second contact member, capable of being acted on by the said solenoid, a spring capable of acting on the securing means for securing the second contact member, a connecting lead from the solenoid to a contact member at the bottom of the safety device, a contact strip connected to the solenoid and extending laterally from the second contact member, a contact strip in the casing extending from the first contact member to the socket of the safety device and means for turning the first contact member.

1,662,971. CAP GUN. FRED M. HOWE, Wellsboro, Pa. Filed Sept. 13, 1926. Serial No. 135,239. 1 Claim. (Cl. 46—46.)



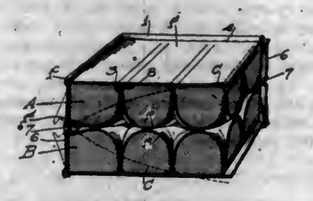
In a device of the character described, a barrel, a head closing one end of the barrel, an extension on the head, a projectile having an opening to accommodate the extension, said opening adapted to accommodate a cap to be engaged by the extension, a spring pressed plunger operating in the barrel and adapted to be forced against the head to explode the cap to force the projectile from the head.

1,662,972. DEVICE FOR PICKING POULTRY. HORACE G. HUEY and DONALD Y. PIERSON, Vineland, N. J. Filed Dec. 27, 1924. Serial No. 758,419. 2 Claims. (Cl. 17—11.)



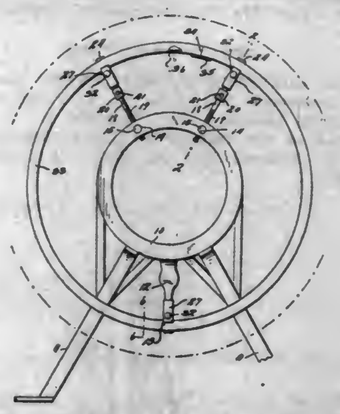
1. A device for picking poultry comprising a support, a shoe carried by the support, a picking head revolubly mounted adjacent the shoe, and a handle associated with the support offset to one side of the line in which feathers are discharged by the picking head.

1,662,973. MATTRESS. LOUIS G. IHRIG, San Diego, Calif., assignor to Standard Mattress and Furniture Manufacturing Company, San Diego, Calif., a Corporation of California. Filed Mar. 16, 1925. Serial No. 15,871. 2 Claims. (Cl. 5—355.)



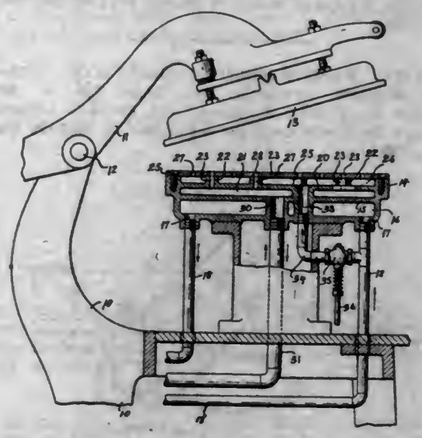
1. A mattress, comprising a pair of mattress sections, the one superposed upon the other, the outer sides of said sections forming the top and bottom of the mattress being relatively flat and smooth, and the inner sides of said sections lying adjacent each other being tufted forming oppositely disposed cushions and air pockets, and a box edge strip surrounding the side edges of said mattress sections forming in appearance a one section mattress.

1,662,974. TIRE CARRIER AND REMOVER. WILLIAM W. JOHNSON, Vincennes, Ind., assignor of one-half to William Steincamp, Little Rock, Ark. Filed Dec. 10, 1926. Serial No. 153,858. 1 Claim. (Cl. 224—29.)



A tire carrier and rim remover comprising an annular support, pins mounted for oscillatory movement in the support, the support having cone-shaped slots disposed at opposite sides of the pins, screw jacks threaded through the pins and passing through the supports, said jacks being provided at their outer ends with hemispherical heads, clincher members having sockets which receive the hemispherical heads and plates applied to the clincher members and having edge portions disposed under the heads of the screw jacks, the adjacent edge surfaces of the plates being spaced from the sides of the screw jacks.

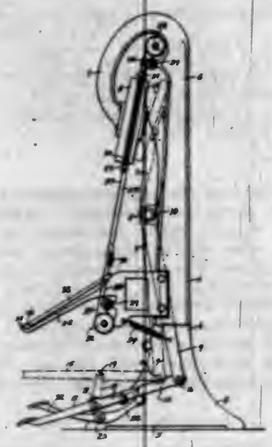
1,662,975. GARMENT STEAM AND AIR PRESS. JAMES C. LEDBETTER, Brooklyn, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 30, 1924. Serial No. 746,724. 9 Claims. (Cl. 68—9.)



1. A garment pressing machine comprising in combination, cooperating pressing members adapted to open and close on the work, one of the pressing members being provided with a pressing surface and a fluid heating chamber, pipe connections established therewith to convey heat to and from the heating chamber, said pressing member also being provided with two separated shallow cham-

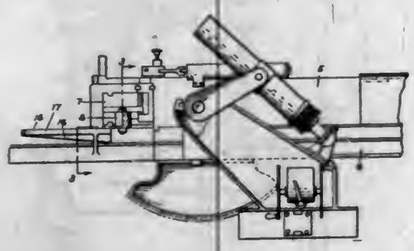
bers, an air pipe connected to one of the shallow chambers, and a steam pipe connected to the other hollow chamber, both of said shallow chambers being perforated through the pressing surface and out through which steam and air flows, and said perforations connecting with the respective shallow chambers so that the steam and air always flow through separated respective perforations.

1,662,976. CONVEYER GARMENT PRESS. JAMES CAMROD LEDBETTER, New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed May 4, 1925, Serial No. 27,706. Renewed Sept. 23, 1927. 24 Claims. (Cl. 68—9.)



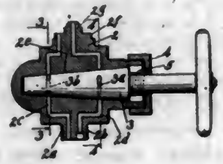
16. A press comprising a tall frame, jaws at the upper end thereof above an operator's head, means to open and close the jaws, and means to convey work to and from the jaws.

1,662,977. BREECH-OPENING MECHANISM. GEORGE M. MCCANN, Newcastle, Del. Filed Nov. 6, 1925. Serial No. 67,420. 4 Claims. (Cl. 89—4.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



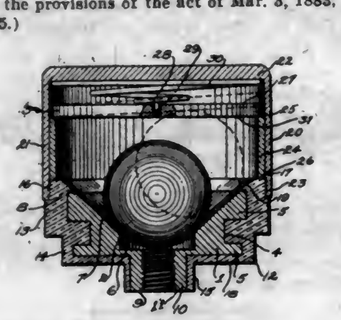
4. A cradle, a cam plate secured thereto, a gun mounted to reciprocate on the cradle, a laterally sliding breech block in the gun and a cam follower carried by the block and operable to open the block.

1,662,978. REGULATING-VALVE MECHANISM FOR GASOLINE LANTERNS. CHARLES MEISSNER, San Diego, Calif., assignor of one-third to Charles R. Robinson, San Diego, Calif. Filed Mar. 5, 1925. Serial No. 13,265. 3 Claims. (Cl. 67—41.)



1. In a gasoline lantern, the combination with a receptacle and a burner positioned above said receptacle, of a valve casing positioned in the upper side of said receptacle, a gasoline feed pipe secured centrally on the upper side of said valve casing and extending to the burner an initial burner member in spaced relation to said gasoline feed tube, concentric therewith, said casing provided with a port communicating with the upper portion of said receptacle and with the space between said burner and gasoline tube and with another port communicating with the lower portion of said vessel and with the interior of said gasoline tube, and a valve with ports therein spaced to communicate with said ports in said casing when turned to different positions in said casing.

1,662,979. CIRCUIT CLOSER. PAUL R. NELSON, The U. S. Army, Fort Totten, N. Y. Filed May 7, 1927. Serial No. 189,736. 3 Claims. (Cl. 200—52.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

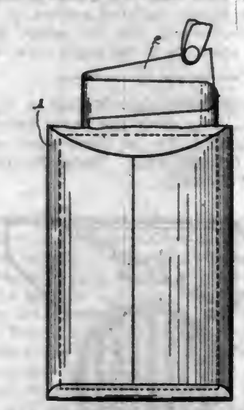


1. A device of the character described comprising in combination a pair of suitably insulated electrodes normally disposed in a perpendicular position, one of the electrodes being formed with a seat having upwardly and outwardly flared walls, a contact plate situated above and in vertically spaced relation to said seat, said plate being movable rectilinearly along and angularly about its vertical axis, a spherical member of conducting material positioned within said seat, said member when the electrodes are tilted from the perpendicular ascending the inclined walls of its seat into engagement with the plate to establish an electrical path between the electrodes.

1,662,980. METHOD OF PACKAGING WAXED-PAPER SHEETS. ERNEST E. PALMER, Toronto, Ontario, Canada, assignor to Appleford Counter Check Book Company, Limited, Hamilton, Ontario, Canada. Filed July 6 1926, Serial No. 120,717, and in Canada Aug. 13, 1925. 1 Claim. (Cl. 206—57.)

A package of waxed paper comprising an envelope open at one end and having its opposite sides meeting in lines and adapted to resiliently engage the contents

of the package and having a bank of sheets therein folded substantially S-form with feathered edges and with a folded end adjacent the open end of the envelope, the outside portions of the two outer sheets frictionally contacting with the envelope and the inside



portions of the two outer sheets lying loosely between folds of the bank of sheets, whereby a single sheet may be withdrawn by inserting the thumb and finger of the user down either side of the envelope and grasping the outer sheet by its upper corner and pulling upwardly.

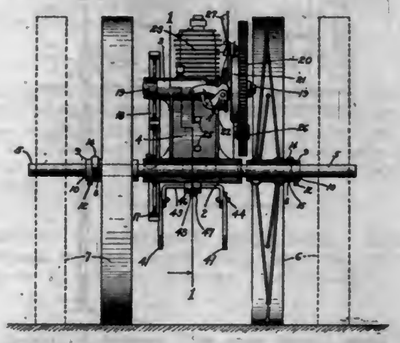
1,662,981. BUTTONLESS DRAWERS. ANDREW P. PAZOWSKI, Edmonton, Alberta, Canada. Filed July 13, 1926, Serial No. 122,280, and in Canada Jan. 4, 1927. 1 Claim. (Cl. 2—234.)



A pair of drawers having a fly opening at the front extending upwardly from the crotch portion of the drawers, a flap at one side to the front of the drawers laterally offset beyond the corresponding side of the fly opening, said flap being disposable to completely span the said opening from top to bottom, a belt having a terminal fastener, said belt extending about the waist of the drawers and constituting means for supporting the drawers upon the wearer, a downturned tab upon the upper edge of the fly flap for engagement with the belt to prevent sagging of said flap, said tab being engaged at one side with the terminal fastener.

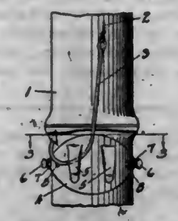
1,662,982. TRACTOR. CORNELIUS A. PETERS, Minneapolis, Minn., assignor, by mesne assignments, to New Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 15, 1923. Serial No. 612,681. 5 Claims. (Cl. 180—19.)

1. A two-wheel traction machine comprising a one-piece axle and traction wheels therefor, a bracket of comparatively light construction journaled on said axle between said wheels, a shaft mounted in said bracket parallel with said axle, a motor secured to said bracket between said shaft and axle, one end of said shaft having a driving connection with said axle and the other end of said shaft having a clutch controlled gear connection with said motor, thereby evenly distributing the strain upon said bracket.



5. A machine of the class described comprising a bracket frame having an axle and traction and supporting means, a motor mounted on said bracket frame, a steering device connected with said bracket frame for oscillating it and said traction and supporting means on a vertical axis to steer the machine, draft bars connected with said bracket frame beneath said steering device, means adjacent said bracket frame for transmitting to said draft bars the downward thrust on said steering device resulting from the torque of the motor, and relieving the steering device of such thrust, and means connecting said steering device with said draft bars in the rear of said thrust transmitting means for lifting said draft bars and controlling the lateral movement thereof, or transmitting thereto and to the implements connected therewith, the downward pressure of the operator upon said steering device.

1,662,983. HOOK HOLDER FOR FISHING RODS. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 11, 1926. Serial No. 128,566. 3 Claims. (Cl. 43—33.)



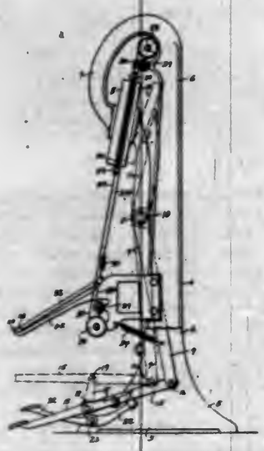
1. A fish hook holder for application to a fishing rod, comprising an arched plate, a prong stamped from said plate and adapted to receive a hook, and a contractile element attached to the ends of the plate and surrounding the pole.

1,662,984. ROTARY CASING HEAD. BERNARD H. SCOTT, Glendale, and SAMUEL E. ROSS, Long Beach, Calif., assignors to Scott-Ross and Company, Los Angeles, Calif., a Corporation of Delaware. Filed Mar. 18, 1926. Serial No. 95,653. 16 Claims. (Cl. 255—14.)

1. In combination: an oil string; a pump tubing extending through said oil string; a casing head body

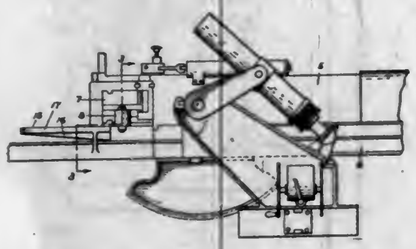
bers, an air pipe connected to one of the shallow chambers, and a steam pipe connected to the other hollow chamber, both of said shallow chambers being perforated through the pressing surface and out through which steam and air flows, and said perforations connecting with the respective shallow chambers so that the steam and air always flow through separated respective perforations.

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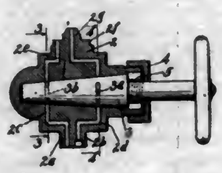
16. A press comprising a tall frame, jaws at the upper end thereof above an operator's head, means to open and close the jaws, and means to convey work to and from the jaws.

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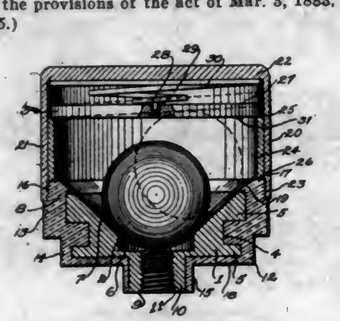
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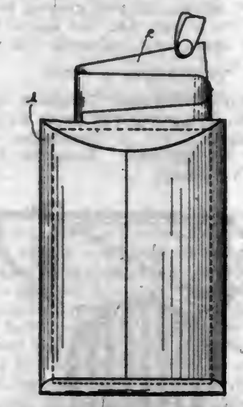
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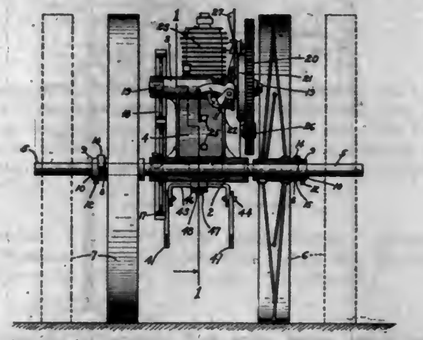
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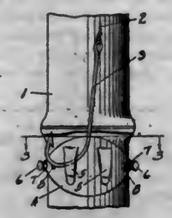
1,662,982. TRACTOR. CORNELIUS A. PETERS, Minneapolis, Minn., assignor, by mesne assignments, to New Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 15, 1923. Serial No. 612,681. 5 Claims. (Cl. 180—19.)

1. A two-wheel traction machine comprising a one-piece axle and traction wheels therefor, a bracket of comparatively light construction journaled on said axle between said wheels, a shaft mounted in said bracket parallel with said axle, a motor secured to said bracket between said shaft and axle, one end of said shaft having a driving connection with said axle and the other end of said shaft having a clutch controlled gear connection with said motor, thereby evenly distributing the strain upon said bracket.



5. A machine of the class described comprising a bracket frame having an axle and traction and supporting means, a motor mounted on said bracket frame, a steering device connected with said bracket frame for oscillating it and said traction and supporting means on a vertical axis to steer the machine, draft bars connected with said bracket frame beneath said steering device, means adjacent said bracket frame for transmitting to said draft bars the downward thrust on said steering device resulting from the torque of the motor, and relieving the steering device of such thrust, and means connecting said steering device with said draft bars in the rear of said thrust transmitting means for lifting said draft bars and controlling the lateral movement thereof, or transmitting thereto and to the implements connected therewith, the downward pressure of the operator upon said steering device.

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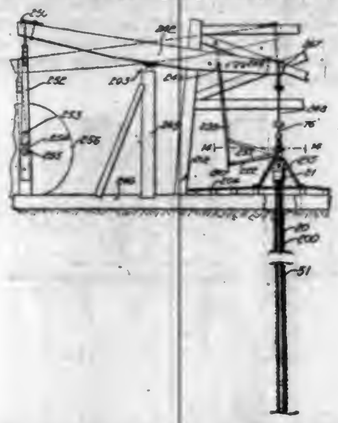


1. A fish hook holder for application to a fishing rod, comprising an arched plate, a prong stamped from said plate and adapted to receive a hook, and a contractile element attached to the ends of the plate and surrounding the pole.

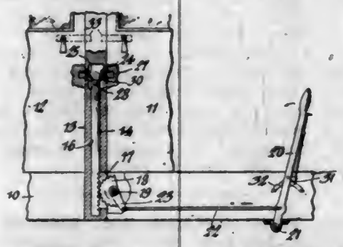
1,662,984. ROTARY CASING HEAD. BERNARD H. SCOTT, Glendale, and SAMUEL E. ROSS, Long Beach, Calif., assignors to Scott-Ross and Company, Los Angeles, Calif., a Corporation of Delaware. Filed Mar. 18, 1926. Serial No. 95,653. 16 Claims. (Cl. 255—14.)

1. In combination: an oil string; a pump tubing extending through said oil string; a casing head body

supported at the upper end of said oil string; a mandrel rotatably supported by said casing head body and rigidly connected to said pump tubing, said pump tubing being turned when said mandrel is rotated; and a sucker rod string extending through said pump tubing and said mandrel.

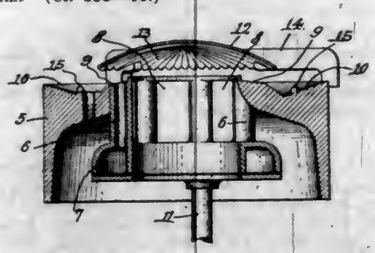


1,662,985. DOOR-LATCHING MECHANISM FOR AUTOMOBILES. JAMES W. SIGNORE, Ellicottville, N. Y. Filed June 11, 1926. Serial No. 115,234. 4 Claims. (Cl. 292—6.)



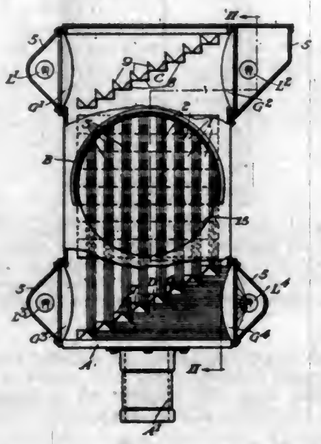
1. In a locking mechanism of the character described, the combination with a vehicle-body having a plurality of doors and a frame-member disposed between adjoining doors on one side of the body, of independent locking devices for adjoining doors, a lock-controlling bar guided for movement on said frame-member for simultaneously moving said locking devices to their locked and unlocked positions, and means for actuating said lock-controlling bar.

1,662,986. BURNER. HENRY SMOYER, WILLIAM H. CUMMING, and HERBERT W. THIELE, North Tonawanda, N. Y. Filed Sept. 15, 1925. Serial No. 56,493. 1 Claim. (Cl. 158—66.)



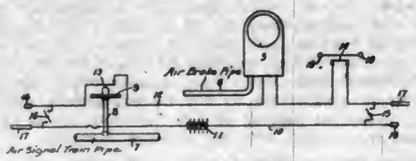
In a burner, a hollow body portion having a central opening and having a trough formed in the upper surface thereof, a reservoir disposed in the hollow body portion and having spaced pipes extending upwardly from the reservoir, the upper ends of the pipes being inclined and lying in a plane with the trough, a cap supported above the body portion in spaced relation therewith and directly above the pipes, the cap being provided with a corrugated under surface defining grooves to direct fuel downwardly to the trough, and the spaces between the pipes adapted to admit air to the upper ends of the pipes.

1,662,987. LIGHT SIGNAL. CLARENCE S. SNAVELY, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 20, 1923. Serial No. 652,717. 12 Claims. (Cl. 177—327.)



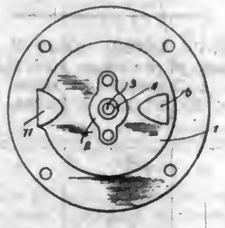
10. A signal comprising two oppositely disposed light sources arranged to project first and second beams in opposite directions along one and the same path, two sets of deflectors located in said path for projecting said two beams respectively in one and the same path and direction at right angles to the first path, two other oppositely disposed light sources arranged to project third and fourth beams in opposite directions along one and the same third path parallel to the first path, two additional sets of deflectors located in said third path for projecting said third and fourth beams in one and the same direction along said second path but in a direction opposite to that of said first and second beams, and two sets of deflectors located in said second path for projecting all four of said beams in the same direction along a fourth path at right angles to said second path.

1,662,988. TRAIN-SIGNAL SYSTEM. EARL C. STAFFORD, Philadelphia, Pa., assignor to The United States Train Signal Company, Portland, Me., a Corporation of Maine. Filed Mar. 7, 1921. Serial No. 450,195. 7 Claims. (Cl. 177—352.)



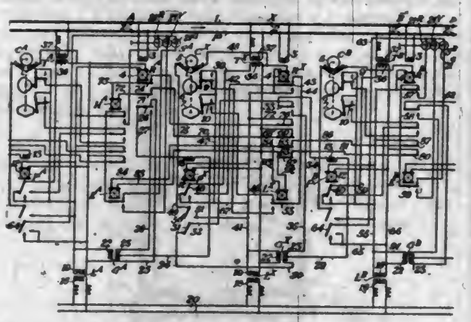
1. In a train signaling system, a plurality of signaling devices mounted on different units of the train comprising an audible signaling means connected to the train air brake pipe, means on each unit whereby a closed electric circuit may operate on such unit or between a plurality of units and means connected to the air signal train pipe for breaking said circuit to cause operation of the signaling device, substantially as set forth.

1,662,989. CYLINDER HEAD. FRANCIS H. STROUD, Seattle, Wash. Filed Dec. 15, 1926. Serial No. 155,085. 2 Claims. (Cl. 123—32.)



1. A cylinder head for internal combustion engines provided with a central combustion chamber opening through the bottom of the head and contracted toward the top thereof, there being a fuel-inlet opening in the top of the head and a port for a heating element in the side of the head immediately adjacent the fuel inlet, and a heat-retaining liner secured at its lower end in said combustion chamber and spaced from the wall of the same, said liner being open throughout its lower end and having an opening at its upper end registering with the fuel inlet opening, and a second opening registering with the port for the heating element.

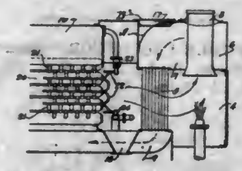
1,662,990. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1927. Serial No. 171,737. 4 Claims. (Cl. 246—34.)



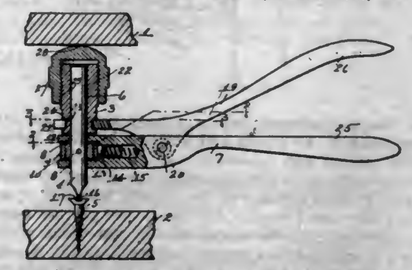
2. In combination, a section of railway track, a normally closed track relay for said section, a three-position repeater relay for said section, means controlled by said repeater relay for supplying uninterrupted alternating track circuit current to the rails of said section when the repeater relay is energized in normal direction and for supplying periodically interrupted alternating current to the rails of the section for automatic train control purposes when the repeater relay is energized in reverse direction, and means for energizing said repeater relay in normal or reverse direction according as said track relay is closed or open.

1,662,991. AIR PREHEATER. PETER THOMSEN, Cassel, Germany, assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 16, 1925, Serial No. 2,774, and in Germany Mar. 3, 1924. 2 Claims. (Cl. 110—57.)

1. In a locomotive boiler, the combination of a smokebox into which gases are discharged from the boiler flues, a stack extending through the forward upper part of the smokebox sheet, an intake for air at the upper part of the front wall of the smokebox, a passage extending rearwardly from the intake and surrounding the stack, an air preheater comprising two parallel tube sheets and tubes connecting them, a duct extending rearwardly from the lower part of the smokebox, the air preheater extending from the rear end of said passage to the front end of said duct, superheater elements extending into said flues, said preheater being hinged at its lower end so it can be rotated out of the direct line of said elements, and means to hold the preheater in its normal operative position.

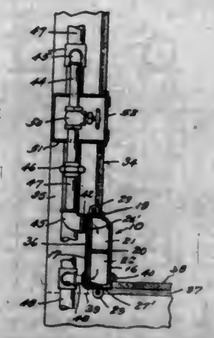


1,662,992. ROTARY-TOOL MECHANISM. MATTHEW WESTRATE, Grand Rapids, Mich. Filed Nov. 26, 1926. Serial No. 150,860. 6 Claims. (Cl. 145—71.)



1. In a mechanism of the character described: a base; a rotatable tool; an operating handle comprising a member rotatable about the axis of the tool and in axially-non-movable relation to the tool, and a lever member fulcrumed on the first-mentioned member and engaging the base for moving the same and the first-mentioned member relatively to each other in the tool's axial direction; means for rotating the tool by the rotation of the handle.

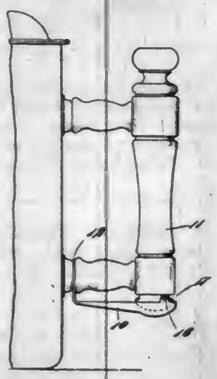
1,662,993. WALL RADIATOR. LOUIS WILLIAMS, Seattle, Wash. Filed Mar. 20, 1926. Serial No. 96,160. 7 Claims. (Cl. 257—133.)



2. In a heating system, a radiator adapted to be built into the wall of a room of a building, said radiator comprising a plurality of communicatively connected tubular open-ended members having partitions dividing the interiors of the respective members into upper and lower ducts, said partitions being provided with horizontally spaced apart apertures affording communication between the ducts of each member, means to close said apertures selectively, means to close the outermost ends of the members when

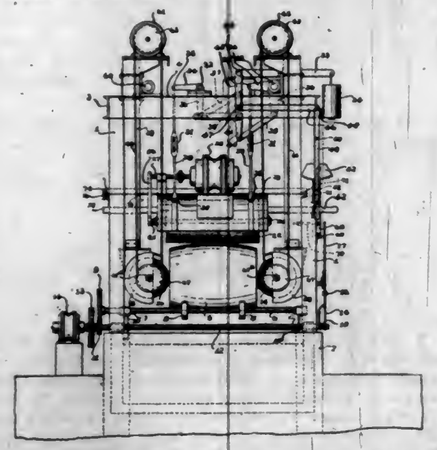
assembled as a radiator, and means for supplying and withdrawing a fluid heating medium to and from the respective ducts of the radiator through the back of the latter.

1,662,994. HANDLE PROTECTOR. HARRY J. WOLOOHOJIAN, Providence, R. I. Filed Nov. 21, 1927. Serial No. 234,682. 1 Claim. (Cl. 53—3.)



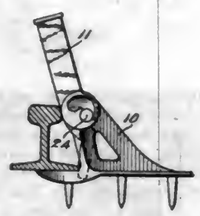
A handle protector having a body portion to extend along beneath the handle and having a resilient upturned portion at one end pierced to receive the fastening bolt, the opposite end of the body being cup-shaped to conform to and fit over the end of the handle to which it is attached, the upper edge of the cup-shaped portion towards the outer side of the center of the cup being provided with a pair of integral fingers inclined inwardly to engage a recess in the handle at a point on the outer side of its axial center, whereby the spring of the upturned opposite end of the protector serves to draw these fingers tightly against the stock of the handle to hold the guard tight to support the free end thereof, the outer end portion of the protector being of a length to lie substantially flush with the outer surface of the handle.

1,662,995. BRUSHING MACHINE FOR CIRCULAR OBJECTS. EDWIN H. ATWOOD, WALTER E. WANNER, and THOMAS L. REESE, Olean, N. Y., assignors to Vacuum Oil Company, New York, N. Y., a Corporation of New York. Filed Sept. 2, 1927. Serial No. 217,280. 15 Claims. (Cl. 15—58.)



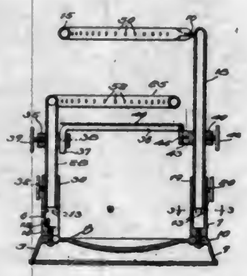
15. In a cleaning machine, the combination with means for supporting and rotating a circular object, of a rotary brush for cooperating with an object on said supporting means, said brush being mounted to swing about an axis extending longitudinally of the axis of rotation of the brush.

1,662,996. TRACK LINER. RALPH H. BLOXHAM, Chicago, Ill., assignor to Chicago Steel Foundry Company, Chicago, Ill., a Corporation of Maine. Filed June 15, 1925. Serial No. 37,155. 6 Claims. (Cl. 254—44.)



1. A track liner comprising a base having two spaced lips at one end of the bottom of the same and two spaced bosses above the lips, and a lever positioned between the lips and between the bosses and having a fulcruming portion for pivotal co-action with the bosses, said bosses partially overhanging said lips whereby to provide room for the reception of the base of a rail beneath the bosses.

1,662,997. DENTAL BURNER. HARRY J. BOSWORTH, Chicago, Ill., assignor to Harry J. Bosworth Company, a Corporation of Illinois. Filed Nov. 28, 1927. Serial No. 236,034. 9 Claims. (Cl. 158—111.)

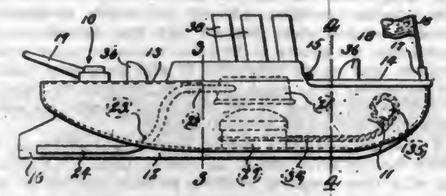


8. In combination, a supporting base, a pair of hollow upright gas supply and burner mounting posts on said base, a burner ring having a tubular standard mounted in one of said posts, a second burner ring underlying said first ring and having a tubular standard mounted in the other post, a support for an article to be heated, a member adjustable up and down on said last standard for adjustably supporting said article support beneath both said burner rings and a member adjustable up and down on the other standard for supporting the article support beneath both burner rings adjacent the other standard, said last member being adjustable past the lower burner ring and adapted for supporting the article support between the burner rings.

1,662,998. TOY. SAMUEL J. BROWN, Maplewood, Mo. Filed Jan. 2, 1926. Serial No. 78,865. 9 Claims. (Cl. 46—37.)

1. A propelling device for floatable toys comprising a discoid boiler having rigid walls and having one of the horizontally disposed walls being so inwardly formed as

to almost touch the opposite wall, thereby forming an annular steam and water space tapering toward the



center, and a pair of pipes communicating tangentially with said space and extending rearwardly from said boiler.

1,662,999. METHOD OF COLLOIDALLY DISPERSING SOLIDS. SAMUEL CABOT, Jamaica Plain, Mass., assignor to Samuel Cabot, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 31, 1925, Serial No. 6,016. Renewed July 28, 1927. 11 Claims. (Cl. 134—39.)

1. The method of producing a colloidally dispersed material from solid matter consisting in producing a plastic colloid of such adhesiveness and cohesiveness that its resultant effective tenacity is superior to that of the inter-particle cohesion of the matter to be reduced, and in disintegrating said matter by masticating it with only sufficient of the colloid to coat the ultimate particles and render the whole plastic.

1,663,000. DECOLORIZING CARBON AND PROCESS OF MAKING SAME. CHARLES HALLSTEAM CHANDLER, Newport, R. I. Filed June 18, 1920. Serial No. 389,985. 4 Claims. (Cl. 252—3.)

1. The process of obtaining a decolorizing carbon from the pith of sugar cane which consists in separating the pith from the other parts of the cane, in softening the pith, in carbonizing the softened pith and in extracting the resultant pith char.

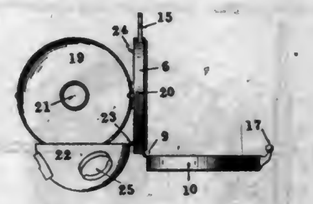
1,663,001. SPRING SEAT CONSTRUCTION. FRANK P. CHESLEY, Grand Rapids, Mich., assignor to J. L. MacInerney, Grand Rapids, Mich. Filed May 9, 1927. Serial No. 189,960. 5 Claims. (Cl. 155—180.)



1. In a spring seat construction, a base frame comprising a metallic member bent longitudinally between its margins to form a vertically disposed outwardly facing wall and bent to form walls substantially U-shaped in cross section to provide a downwardly opening channel adjacent the inner surface of said outwardly facing wall, said vertical outer wall extending above the top wall of the channel, and a tacking strip within the channel.

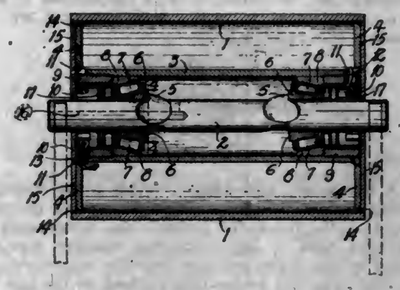
1,663,002. VANITY CASE. CLAUD L. COYLE, Clarence, Mo. Filed Apr. 4, 1927. Serial No. 180,644. 7 Claims. (Cl. 132—83.)

4. In a device of the class described, the combination with a main part comprising two members hinged together, one of said members carrying a mirror and the other forming a powder receptacle, of a dome-shaped member hinged to one side of said main part, and a second dome-shaped member having on its exterior surface article retaining means and hinged to said main part substantially at right angles to said first named



dome-shaped member and adapted to be folded against said main part and to be covered by said first named dome-shaped member.

1,663,003. CONVEYER ROLLER. GEORGE W. CURTIS, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 2, 1925. Serial No. 12,563. 9 Claims. (Cl. 308—209.)



1. A shaft, an elongated hollow roller rotatably mounted on said shaft, an elongated tubular member in said roller, and anti-friction bearings interposed between said tubular member and said shaft, said tubular member having radially extending spoke members at its ends made by bending the portions between slots in said tubular member that extend longitudinally from the ends thereof, and said spoke members being secured to said roller, at the end portions thereof.

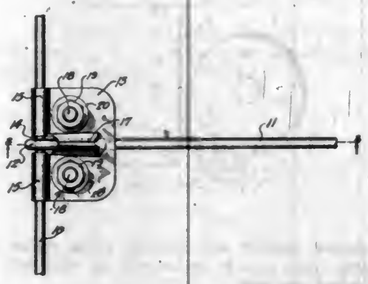
1,663,004. COATING FOR WELDING OR CUTTING RODS. J BIRCHARD GREEN, Chicago, Ill. Filed Jan. 22, 1927. Serial No. 162,933. 3 Claims. (Cl. 148—23.)

1. A coating composition for welding or cutting rods, including a flux material, an adhesive material for holding the flux material on the rods at normal temperatures, and another material for carrying the flux material up to the fusion zone under temperatures higher than that at which the adhesive material becomes ineffective.

1,663,005. SOLDERLESS CONNECTER. LEM E. HENDEE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed June 16, 1924. Serial No. 720,356. 4 Claims. (Cl. 173—273.)

1. In a connecter for electric wires, the combination of a sheet metal clamping member folded on itself to provide a wire-receiving groove along its folded edge and having an aperture forming an intermediate notch in said folded edge to receive the hooked end of a laterally

extending wire adapted to engage about said line wire, said clamping member having registering grooves adapted to receive the end portion of said laterally extending



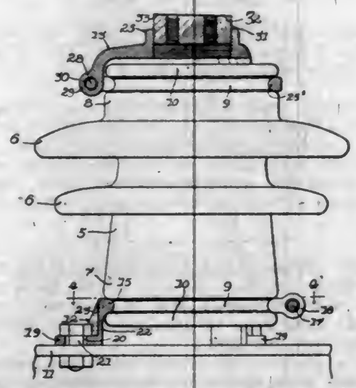
wire, and threaded members passing through the folded halves of said clamping member on each side of said registering grooves and adjacent said first-named groove for clamping said wires in said grooves.

1,663,006. BELT BUCKLE. GUY R. HOUGHTALING, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1927. Serial No. 181,187. 7 Claims. (Cl. 24—191.)



7. A belt buckle comprising a buckle frame having a clamping surface thereon, a clamping member pivotally mounted on the frame and movable also transversely of its pivotal axis, a belt anchoring member pivotally mounted on the frame and also movable transversely of its pivotal axis, and cooperating portions on the belt anchoring member and the clamping member for moving the latter about its axis and also transversely of its axis.

1,663,007. ELECTRIC CONDUCTOR SUPPORT. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers' Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1919. Serial No. 274,159. 7 Claims. (Cl. 173—313.)

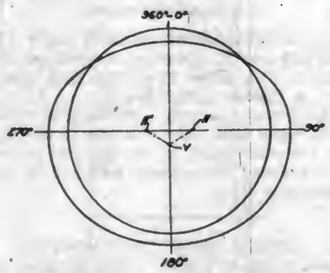


1. In a means for gripping an insulator, a peripheral member comprising three segments, said segments being constructed of relatively heavy non-resilient metal and having inner contact faces adapted to fit into a groove in the insulator, screw threaded members connected to the ends of the segments for drawing adjacent ends of the segments together whereby the entire peripheral member is put under tension and the segments are forced into the groove to hold the insulator under compression, and means connected to said peripheral member comprising three arms, said arms being drawn radially toward the center of the peripheral member as said screw threaded members are tightened.

5. The improvements herein described, comprising a clamp for the upper end of an electric insulator consisting of a ring composed of three sections adapted to be bound around the upper end of the insulator, and a supporting member adapted to be arranged above the top of the insulator, the ends of said sections spaced apart to receive arms projecting down from said support, and bolts clamping said sections upon the insulator and supporting said upper support.

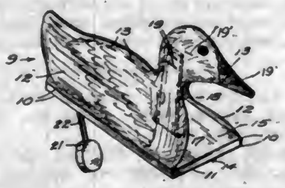
7. In a clamp for an insulator, a central member having a plurality of downwardly extending fingers for embracing the bead of the insulator and segmental tension means including bolts, said tension means being adapted to bend the extending fingers inwardly as the clamp is drawn tight upon the insulator.

1,663,008. HEADLIGHT REFLECTOR. ROY WALTER JOHNSON, Chicago, Ill., assignor to Lester-Johnson Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Feb. 9, 1924. Serial No. 691,716. 1 Claim. (Cl. 240—41.)



A reflector having a continuously curved reflecting surface non-circular in transverse section, all the elements of said surface being the same fixed curve of suitable character for the projection of light from a single interior central focus point, but adjacent elements having continually changing axes of rotation which pass through said focus point, the intersections of said axes with a plane which is perpendicular to the vertical and horizontal meridian planes of the reflector forming a locus with its ends in the horizontal meridian plane on each side of the vertical meridian plane, and with an intermediate point of said locus lying in said vertical meridian plane and below said horizontal meridian plane.

1,663,009. DECOY. WILLIAM R. JOHNSON, Seattle, Wash. Filed Mar. 8, 1926. Serial No. 91,953. 6 Claims. (Cl. 43—3.)



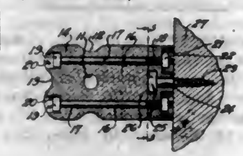
1. A decoy comprising a foldable frame having a bottom, and side walls extending upwardly therefrom, said side walls being secured together in proximity of their upper margins, a float detachably located within the lower portion of said frame, said float having a recess in its upper surface, and a post member having its upper end secured to said side walls, the lower end of said post being adapted to engage the float within said recess.

1,663,010. VARIABLE ELEMENT. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1924. Serial No. 689,434. 7 Claims. (Cl. 171—119.)



1. In a device of the character described including a pair of members comprising a stator element, a spherical member comprising a rotor element, shafts for supporting said rotor element, said pair of members having a pair of concave portions forming a spherical opening, said shafts supporting said rotor element in said spherical opening, means adapted to support the whole in a socket and other means adapted to support the whole on a panel.

1,663,011. LINE-CONDUCTOR INSULATOR. WILLIAM D. KYLE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 19, 1924. Serial No. 738,635. 6 Claims. (Cl. 173—28.)



1. An insulator comprising an insulator body having a wire-receiving portion, a base member, a threaded attaching member substantially centrally thereof extending loosely through said base member and having a non-circular head engageable therewith, and clamping means for securing said base member to said insulator body to retain the head of said attaching member between them, said attaching member being held within the insulator against relative rotation, whereby the attaching member may be screwed into a support by rotation of the insulator.

5. An insulator comprising an insulator body having a wire-receiving portion, a polygonal tool-receiving base member, a threaded attaching member extending loosely through said base member but held therein against relative rotation to permit driving by said base member, and means for securing said base member to said insulator body to retain said attaching member against removal.

1,663,012. CENTRIFUGAL BRAKE MECHANISM. LOUIS LANDRY, Berwick, Me. Filed May 2, 1927. Serial No. 188,090. 3 Claims. (Cl. 188—184.)

1. In a centrifugal brake mechanism, the combination comprising an exterior casing, a number of flexible brake strips each arranged to frictionally engage the interior of the casing when distorted by the application of pressure to its opposite ends, a rotary centerpiece within the casing having arms, means for rotating the centerpiece, levers pivoted to the arms of the centerpiece and connected respectively to said strips at one end thereof for applying pressure thereto as said levers are operated, each of said levers having a weighted arm displaceable outwardly by centrifugal force when said centerpiece is rotated and by the displacement of which weighted arm the lever is operated, other levers pivoted to said arms of the centerpiece and connected respectively to the



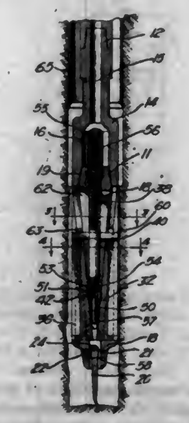
other ends of said strips for applying pressure thereto as said other levers are operated, and means whereby said other levers will be operated by the weighted arms of the levers first mentioned.

1,663,013. BATTERY TERMINAL. TOM P. LOGAN, Columbus, Ohio. Filed May 19, 1924. Serial No. 714,254. 1 Claim. (Cl. 173—259.1.)



A terminal attachment for storage batteries comprising an arm having a tapered bore adapted to be fixed upon a correspondingly tapered terminal of a storage battery, a tapered post arising from one end of said arm and disposed in offset relation with respect to said terminal, the diameter and taper of said post being the same as that of said bore, said post being adapted to detachably receive a lead connecter and to maintain said connecter spaced from said battery terminal.

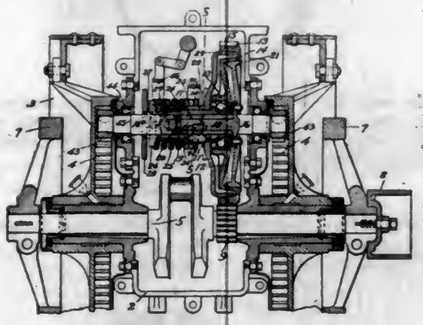
1,663,014. WELL-UNDERREAMING TOOL. MALDEN C. LOWMAN and GEORGE E. FENTRESS, Los Angeles, and ROBERT BANE, Fullerton, Calif. Filed Sept. 5, 1922. Serial No. 586,137. 4 Claims. (Cl. 255—75.)



1. In a well tool, the combination of: a body, having a fluid passage, adapted for securing to a drill pipe and comprising a member having longitudinal reamer chan-

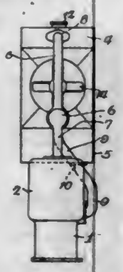
nels and a head therebelow: projectile cutting means carried by said body; means actuable by fluid pressure for projecting said cutting means; and means whereby obstruction of said fluid passage is effected when said projecting means is actuated.

1,663,015. CLUTCH. JOSEPH MADER, Minneapolis, Minn., assignor, by mesne assignments, to New Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 20, 1919. Serial No. 305,474. 10 Claims. (Cl. 180—17.)



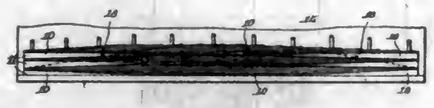
1. A traction machine comprising a frame, a source of motive power thereon, traction means for said frame, a crank shaft operated from said source of motive power, a gear having a driving connection with said crank shaft and provided with clutching surfaces, clutch members having independent driving connection with said traction means and mounted to engage said clutch surfaces respectively for driving said traction means from said gear, a steering device for said frame, a hand grip mounted on said steering device and mechanism connected with said hand grip for positively releasing one of said clutch members and subsequently positively releasing the other member.

1,663,016. INTERNAL-COMBUSTION-ENGINE COOLING SYSTEM. ELMER J. MANNING, Janesville, Wis., assignor of one-half to Alvaro S. Krotz, Janesville, Wis. Filed Dec. 29, 1922. Serial No. 609,598. 11 Claims. (Cl. 123—174.)



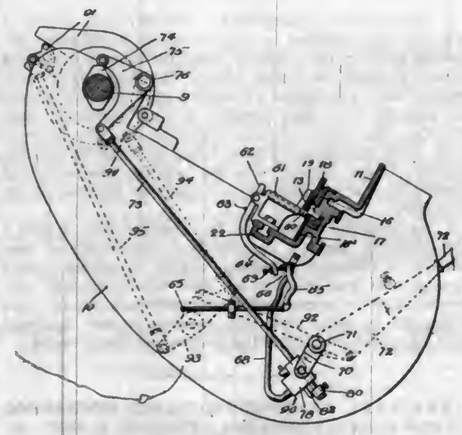
1. In an internal combustion engine, a cooling system the predetermined working temperature of which is the boiling point of the liquid employed therein, comprising a water jacket for cooling the engine, a condenser having a header forming a tank at the bottom thereof to serve as a reservoir for a varying quantity of water and to keep the condenser normally free of condensate, a steam separator having a steam and water connection to the top of said jacket, in which connection the normal water level is below the chamber of the separator, said separator having a drain connection to the bottom of the jacket and a steam connection to the top of said condenser, said tank having means to keep the water level therein below the condenser, and a water connection from the bottom of said reservoir to said drain connection, whereby to equalize the water level in said drain connection and in said tank.

1,663,017. PARTITION SHEET FOR LOOSE-LEAF DEVICES. ALFRED M. MARTIN, Chicago, Ill. Filed July 6, 1926. Serial No. 120,551. 3 Claims. (Cl. 129—1.)



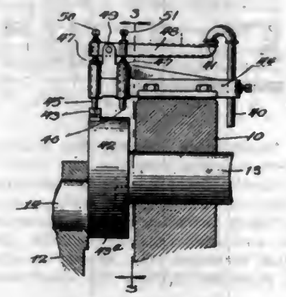
1. A partition sheet for loose-leaf binders of the character described, said sheet being substantially rectangular and having side edges and top and bottom edges defining the substantially rectangular shape, the sheet having means at a side edge portion thereof for holding it in the binder, the upper and lower end portions of the sheet adjacent to the top and bottom edges respectively being formed with integral projections extending over the whole general surface of such end portions respectively between said holding means and the opposite side edge and providing such end portions with an effective thickness greater than that of the normal thickness of the sheet material from which made, the middle portions in the up and down directions of the sheet between said end portions and between said holding means at one side edge portion and the side edge opposite thereto being free of such projections.

1,663,018. AUTOMATIC DIE PRESS. CHARLES D. MCDONALD, Chicago, Ill., assignor to McDonald Machine Co., Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 20, 1926, Serial No. 82,395. Divided and this application filed Sept. 30, 1926. Serial No. 138,626. 11 Claims. (Cl. 192—128.)



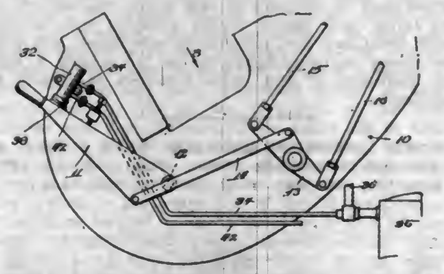
3. In an automatic die press, the combination with a continuously moving press element, a feed way for the work and clutch and brake throwing mechanism for starting and stopping the press, of a normally inactive arm, operatively connected to and moving with a member of said clutch and brake throwing mechanism, arm actuating means operated by said moving press element and including a normally inactive connecting member between said arm and arm actuating means, a movable element extending into said feed way and arranged to be operatively engaged by an abnormal number of metal strips entering said feed way, and operative connections between said movable element and said connecting member.

1,663,019. AUTOMATIC DIE-PRESS-STOPPING MECHANISM. CHARLES D. MCDONALD, Chicago, Ill., assignor to McDonald Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1927. Serial No. 167,411. 12 Claims. (Cl. 192—128.)



4. In automatic press stopping mechanism for die presses having manually operated press starting and stopping mechanism, and a crank shaft for operating the ram of the press, the combination with the hand lever of the press starting and stopping mechanism, of a vacuum head having a suction end arranged to contact with said hand lever when in operative position, said vacuum head being connected with a vacuum source and having a vent tube opening to its suction end and leading therefrom, there being an air vent in said tube controlled by a vacuum release valve normally closing said air vent, a throw amplifying lever for actuating said valve, and normally inactive lever actuating means mounted on the crank shaft of the press arranged to actuate said lever when the crank shaft is subjected to abnormal strain.

1,663,020. AUTOMATIC PRESS-STOPPING MECHANISM. CHARLES D. MCDONALD, Chicago, Ill., assignor to McDonald Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1927. Serial No. 167,412. 11 Claims. (Cl. 192—128.)



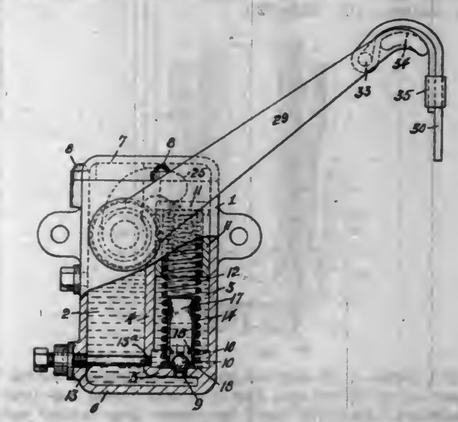
3. Automatic die press stopping mechanism, comprising in combination, the hand lever of the press starting and stopping mechanism of a press having a strip feed way and connectible and disconnectible finger bar actuating mechanism, a vacuum head having a suction end arranged to contact with said hand lever, whereby the lever is supported in starting position when vacuum is created at the suction end of said vacuum head, said vacuum head being connected with a vacuum source, a vent tube leading from the suction end of said vacuum head, an air valve on said vent tube and mounted on one member of said connectible and disconnectible finger bar actuating mechanism, and a valve actuating trigger, which is held in an inactive position by the other member of the finger bar actuating mechanism when said members remain connected.

1,663,021. HOLDER FOR MANICURE PREPARATIONS AND THE LIKE. WILLIAM MEYER, Chicago, Ill. Filed Nov. 26, 1926. Serial No. 150,854. 3 Claims. (Cl. 206—1.)



1. In a device of the class described, the combination of a body of glass having an integral boss extending laterally from the side of the body and having a plurality of wells in the body, said boss having a pair of openings vertically therethrough, a pair of posts headed at their upper ends and having shanks passing down through said openings and engaging in nuts below the boss, the headed upper end of each of said posts having a lateral opening therein, a cross pin having its opposite ends engaging in said openings, a sheet metal cover fitting over the top of the body for covering and uncovering said wells, an integral sheet metal tab extending laterally from said cover and rolled back upon said pin, said cover being held in covering position upon the top of said body solely by the rolling of said tab around said pin and the fit of the tab between the headed upper ends of said posts, said cover having a depending marginal flange adapted to fit over the body when the cover is closed, and the top of said cover being raised so that it will not come into contact with the contents of the wells when the cover is closed.

1,663,022. RECOIL-CHECKING DEVICE. DON D. MYERS, Toledo, Ohio, assignor to Monroe Auto Equipment Manufacturing Co., Monroe, Mich., a Corporation of Michigan. Filed June 26, 1926. Serial No. 118,656. 15 Claims. (Cl. 267—8.)



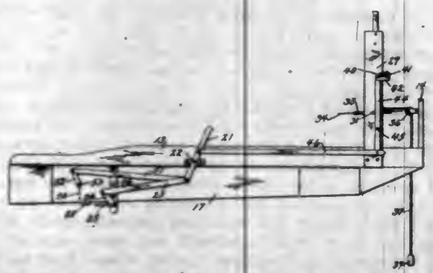
1. In a device of the class described, a body, a lever means, and a piston means resisting movement of the lever means in one direction, said body and lever means having coaction to prevent separation thereof except when the lever means is in a predetermined position relative to the body.

1,663,023. AUTOGRAPHIC REGISTER. GEORGE J. NETH, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio. Filed May 27, 1922. Serial No. 564,191. 19 Claims. (Cl. 282—21.)



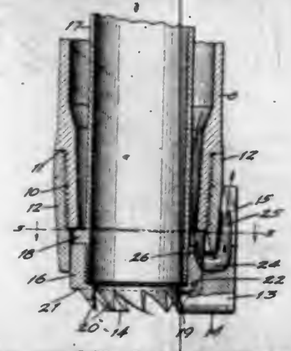
1. In combination, in an autographic register, paper engaging means and wrapping means, and means for actuating said wrapping and engaging means to eject the wrapped paper.

1,663,024. GAME APPARATUS. HARRY W. NOYES, West Haven, Conn. Filed Oct. 1, 1926. Serial No. 138,995. 20 Claims. (Cl. 273—118.)



1. A game apparatus having an alley partitioned table; a ball; a rotary carrier adjacent to the alley and in the path of and engaged and actuated by the ball from the alley; cards connected with the carrier; tension means for moving the carrier in a direction opposite to that by which it was moved under the impact of the ball; and means engaging the cards to stop the rotation of the carrier in one direction.

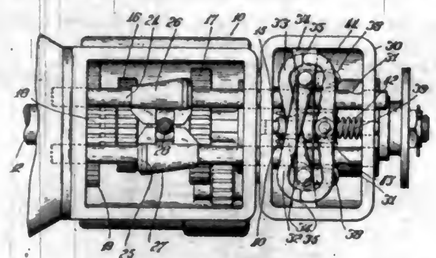
1,663,025. CORE DRILL. JOHN T. PHIPPS, Huntington Park, Calif., assignor to H. C. Smith Manufacturing Company, Whittier, Calif., a Corporation of California. Filed Nov. 27, 1925. Serial No. 71,841. 9 Claims. (Cl. 255—72.)



1. A rotary core drill adapted for attachment to the lower end of a drill pipe and to receive circulation fluid therefrom, said drill being provided with means for reversing the flow of said fluid and for discharging said fluid upwardly from a point closely adjacent the lower end of the drill.

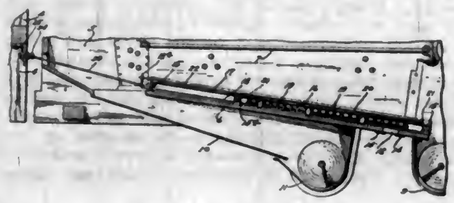
8. A hollow core drill body having fluid circulating passages communicating with its interior and terminating in discharge openings disposed to direct circulation fluid upwardly.

1,663,026. TRANSMISSION MECHANISM. HELMUTH A. SCHULTZE, Chicago, Ill., assignor to Flexo-Motive Corporation, Chicago, Ill., a Corporation of Delaware. Filed Sept. 11, 1922. Serial No. 587,274. 32 Claims. (Cl. 74—58.)



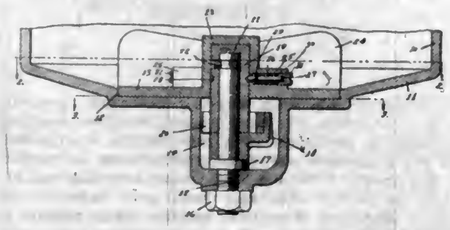
28. In a transmission gearing, the combination with shiftable speed changing elements, and means for shifting said elements, including parts individual to the shiftable elements and operable independently of each other, of a clutch including a shiftable member, shiftable out of and into engaging position during each speed shifting operation, and means operable by any one of said parts for shifting the clutch member.

1,663,027. DOCKAGE SCREEN FOR THRASHING MACHINES. SEVERIN N. SORENSEN, St. Paul, Minn. Filed Apr. 25, 1925. Serial No. 25,797. 1 Claim. (Cl. 209—387.)



The combination with a relatively fixed frame and a vibratory shoe of a thrashing machine, of a dockage screen applied to said shoe, a lower cleaning device working against the under surface of said screen and having extended bars with upturned rear ends, an upper cleaning device working on the upper surface of said screen and having extended bars anchored to the upturned ends of the bars of said lower cleaning device, and thrust rods applied to the upturned ends of said latter noted bars and anchored to said frame, said bars and thrust rod constituting means for causing a relative movement of said cleaning devices in respect to said screen.

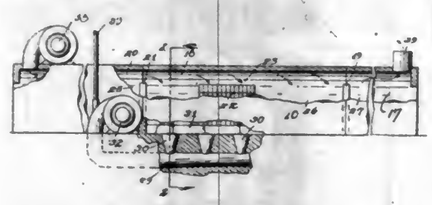
1,663,028. WASHING-MACHINE GEAR. BERT A. STOCKING, Des Moines, Iowa. Filed Feb. 21, 1927. Serial No. 169,875. 4 Claims. (Cl. 259—101.)



4. In a washing machine, a tub having a bottom, an upright post, a sleeve rotatively mounted on said post,

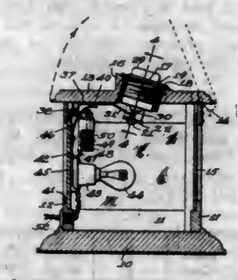
a dolly detachably supported on said sleeve, yieldable means for retaining said dolly against removal from said sleeve, means for operatively connecting said sleeve with said dolly, and means for imparting oscillatory movement to said sleeve.

1,663,029. TUNNEL KILN. HALVER R. STRAIGHT, Adel, Iowa. Filed May 25, 1926. Serial No. 111,528. 11 Claims. (Cl. 25—142.)



1. In combination, a kiln car having a platform, of a ware supporting floor carried by said platform comprising a series of spaced and transverse rows of hollow tile, the tile of each row being arranged in separated groups.

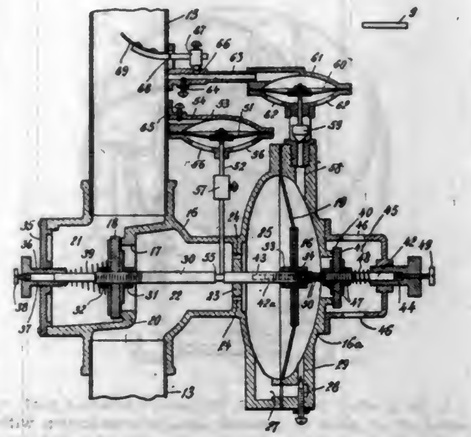
1,663,030. CIGAR LIGHTER AND ADVERTISING CABINET. CARL J. UNDERWOOD and JAMES A. UNDERWOOD, Huntington Beach, Calif. Filed Mar. 16, 1925. Serial No. 16,086. 1 Claim. (Cl. 219—32.)



In a combined advertising cabinet and cigar lighter, a cabinet, a lid hinged thereto, a threaded socket arranged for movement through an opening in said lid, a bearing supported on the under side of the lid, springs arranged between said bearing and threaded support, a heating coil carrying plug, removably seated in said threaded support, one of the terminals of the coil carried by said plug extending to the under side of said plug, a spring tongue with which the terminal of said coil is adapted to make contact when moved inwardly, electric conductors leading from said bar and said spring contact to the under side of the lid spring, contact members secured to the inner face of one of the walls of the cabinet and adapted to make contact with the contact members on the under side of the lid when the same is closed and a source of electrical energy connected to said spring contact arms.

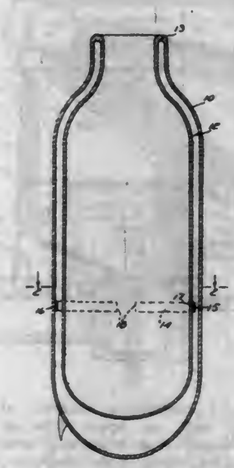
1,663,081. PNEUMATIC DISPATCH SYSTEM. EDMUND WEIGELE, Bergenfield, N. J., assignor to Atlas Devices Company, Inc., a Corporation of New York. Filed Apr. 6, 1923. Serial No. 630,215. 15 Claims. (Cl. 243—9.)

1. The method of operating pneumatic dispatch systems wherein a tube line is used for the transmission of carriers, which consists in initiating a carrier-propelling flow of air upon insertion of a carrier in the



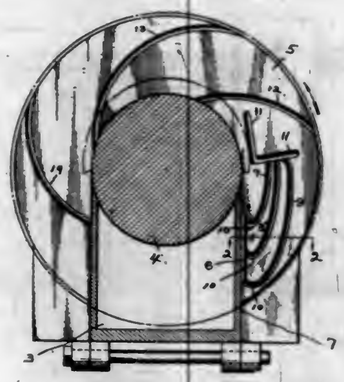
line, and maintaining an intermittent flow through the line when the latter is unoccupied by carriers; substantially as described.

1,663,032. DOUBLE-WALLED VACUUM RECEPTACLE. MINER P. WETMORE, Norwich, Conn., assignor to The American Thermos Bottle Company, Norwich, Conn., a Corporation of Ohio. Filed Jan. 4, 1927. Serial No. 158,856. 7 Claims. (Cl. 215—13.)



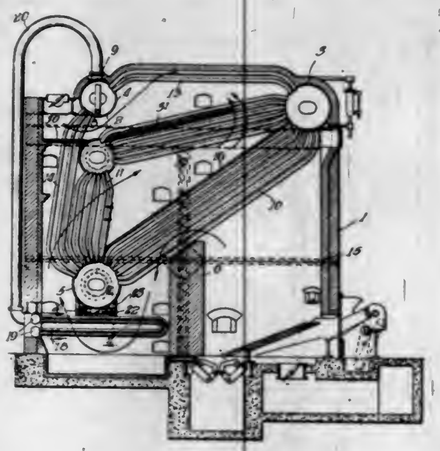
1. A double-walled vacuum receptacle in which the outer and inner glass cylinders are spaced by a one-piece open ring of spring metal provided with outwardly extending rounded humps suitably spaced and arranged to engage only the outer cylinder, said ring being so shaped that the inner cylinder is engaged only by those portions of the ring that are intermediate said humps, whereby said ring when inserted under tension into the space between said cylinders automatically adjusts itself into contact with both cylinders.

1,663,033. HUB-LINER LUBRICATOR. MILTON W. WHALEN, Baltimore, Md. Filed Mar. 22, 1927. Serial No. 177,373. 5 Claims. (Cl. 308—165.)



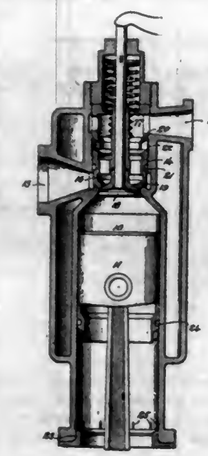
5. In a wheel hub liner a lubricant collecting port, a series of oil ports in constant open communication with said collecting port, and a second series of ports open at each end and extending from the perimeter of the liner to its journal bearing face, said ports being formed in and open to the hub bearing face of the liner.

1,663,034. BOILER. RALEIGH J. ADAMS, Chicago, Ill. Filed Sept. 14, 1922. Serial No. 588,189. 4 Claims. (Cl. 122—478.)



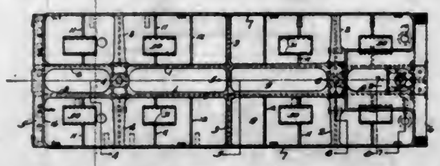
1. In a boiler, a combustion chamber at the front thereof, a bridge wall, an upper forward transverse steam drum, an upper rear transverse steam drum, a transversely extending mud drum located at the rear part of the boiler in spaced relation with the bottom and rear wall thereof, a bank of tubes extending forwardly from the mud drum to the front part of the boiler above the combustion chamber and connecting the mud drum and the forward upper steam drum, banks of tubes connecting the rear steam drum to the forward steam drum and to the mud drum, baffling means for directing the heated gases from the combustion chamber beneath the mud drum, and a superheater arranged below the said mud drum and extending adjacent the rear wall of the boiler, the superheater being connected with the upper rear steam drum.

1,663,035. METHOD OF AND MEANS FOR PREVENTING LEAKAGE. DORSEY F. ASBURY, Broomes Island, Md. Filed Feb. 19, 1925. Serial No. 10,293. 7 Claims. (Cl. 74—109.)



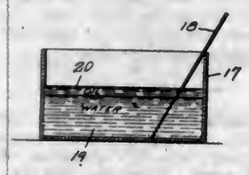
1. Means to prevent leakage of fluid past a member reciprocal in a passageway between high and low pressure fluid chambers, including means operated by movement of said member in the direction of said low pressure chamber to raise the pressure of a portion of the fluid in the low pressure chamber, and means whereby the fluid compressed by said first named means is forced past a portion of said member in the direction of the high pressure fluid chamber to balance the tendency of fluid in the high pressure chamber to pass by said member into the low pressure chamber.

1,663,036. RAILWAY VEHICLE STRUCTURE. WILLIAM O. ASHE and HARRY M. PFLAGER, St. Louis, Mo., assignors to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed July 1, 1927. Serial No. 202,877. 21 Claims. (Cl. 105—286.)



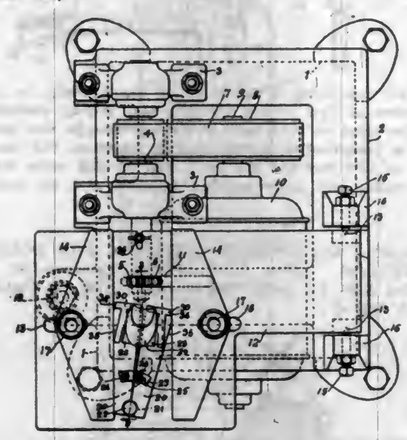
1. A railway vehicle underframe casting comprising a complete tank bottom member.

1,663,037. METHOD OF GALVANIZING. JASPER BLACKBURN, Webster Groves, and ARTHUR ALBRECHT, St. Louis, Mo.; said Arthur Albrecht assignor to said Jasper Blackburn. Filed Dec. 7, 1925. Serial No. 73,558. 3 Claims. (Cl. 91—70.2.)



2. The method of galvanizing which comprises first making a bundle of a number of articles to be treated, second pickling said bundle, third dipping said bundle into a bath of molten metal, fourth removing said bundle from said bath and simultaneously therewith subjecting the same to a flame for increasing its temperature, fifth jarring said articles so as to separate the same from each other, sixth passing said bundles through oil and into water by a continuous movement for cooling and setting the metal adhering to the articles.

1,663,038. CONCAVING HEELS. GEORGE CLAUSING, Portsmouth, Ohio, assignor to The Vulcan Last Company, Portsmouth, Ohio, a Corporation of Ohio. Filed May 10, 1927. Serial No. 190,335. 13 Claims. (Cl. 12—46.)



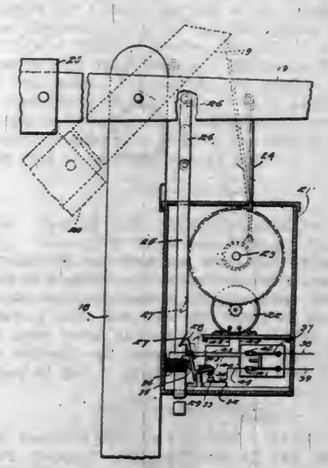
1. In a heel concaving machine, a supporting platform, a cutter rotating therethrough, a guide, a heel holder having a tapering surface adapted to be moved over the cutter, and clamping members arranged to hold the heel in position to be operated on by the cutter when the holder and heel are moved over the cutter.

1,663,039. TENNIS RACKET. EDWARD J. CRAVEN, Springfield, Mass. Filed June 25, 1927. Serial No. 201,331. 10 Claims. (Cl. 273—73.)



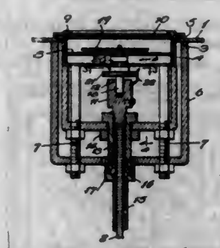
5. In a racket, a frame and a handle, a perforated tightener, a string having its ends fastened to said frame, and being looped three times through the frame and twice through the perforation in said tightener, and means to move said tightener endwise.

1,663,040. AUTOMATIC RAILWAY GATE. MATTHEW DUCHSHERER, Balfour, N. Dak. Filed Sept. 7, 1926. Serial No. 134,040. 5 Claims. (Cl. 246—125.)



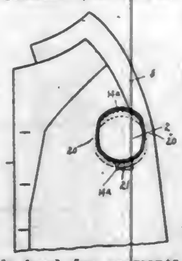
1. An automatic barrier for a railway crossing comprising a pivoted and weighted gate, a winding drum, a cable connected to the gate and drum, an electric circuit, a motor in the circuit operatively connected with the winding drum for closing the gate, a rod carried by the gate, and having a detent receiving means, a circuit breaker in the circuit, and a detent associated with the circuit breaker normally held by the rod to maintain the circuit closed, said detent being arranged to operate the circuit breaker to break the circuit upon engaging with said detent receiving means and to maintain the gate in closed position until a train has passed the crossing.

1,663,041. LIQUID-LEVEL INDICATOR. GEORGE J. DUNBAUGH, Jr., Chicago, Ill., assignor to Champion Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1923. Serial No. 667,672. 3 Claims. (Cl. 116—129.)



2. An indicator comprising a dial cup, a dial arranged thereacross, a bracket for holding said dial cup in position, a drive shaft carried by said bracket and having a socket at one end, a spindle rotatably journalled in said socket and extending through said cup, a pointer carried by said spindle and movable across said dial, enlargements on said spindle on opposite sides of said cup so as to prevent axial displacement of said spindle, and means for transmitting rotation between said spindle and shaft and comprising a notched wheel carried by one of said members, a resilient arm carried by the other of said members and having a tooth engageable in said notches, whereby said members may be adjusted angularly of one another.

1,663,042. ARMHOLE BEAD FOR GARMENTS. FRANK J. DUX, Utica, N. Y. Filed Mar. 15, 1927. Serial No. 175,564. 5 Claims. (Cl. 2—93.)



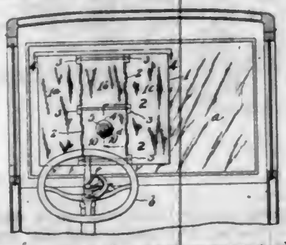
4. In an armhole bead for garments having a sleeve portion and a chest portion, and an armhole at the junction of said portions, said sleeve comprises an outside material and an inner trim and said chest portion comprises an outside material and an inner trim and an unyielding cord fastened adjacent the junction of said sleeve and chest portions, whereby to aid in supporting said chest portion.

1,663,043. LINK. DON J. EDWARDS, Portland, Me., assignor to The Thomas Laughlin Company, Portland, Me., a Corporation of Maine. Filed Feb. 12, 1923. Serial No. 618,662. 2 Claims. (Cl. 59—90.)



1. A link of the character described comprising a connecting end portion integral with opposite side portions having offset terminals formed to interlock when forced endwise towards each other into overlapping relation, the side portions having their greater diameter at right angles to the general plane of the body of the link and a substantially shorter diameter in said general plane, whereby to facilitate the forcing of the arms into overlapped relation and resist the bending of the arms out of said plane.

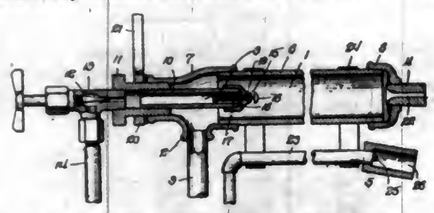
1,663,044. ANTITHEFT DEVICE FOR AUTOMOBILES. JAMES J. FURLONG, Youngstown, Ohio. Filed Feb. 26, 1926. Serial No. 90,946. 5 Claims. (Cl. 296—95.)



2. The combination of a nontransparent plate consisting of a plurality of sections; means for hingedly connecting the said sections whereby folding upon each other is permitted in one direction only; and means for detachably locking the said plate to the windshield of an automobile so that the direction of folding will be towards the said windshield.

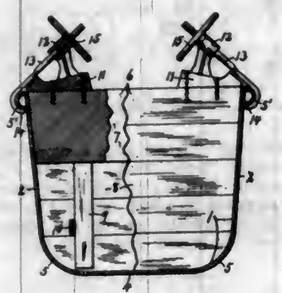
1,663,045. OIL BURNER. JEFFERSON C. GIBSON, Chicago, Ill. Filed Nov. 17, 1922. Serial No. 601,641. 1 Claim. (Cl. 158—76.)

An oil burner comprising an elongated tubular mixing chamber having an axially alined restricted outlet at one end thereof and an air inlet adjacent the other end thereof, a concentrically disposed oil inlet nozzle extending into said mixing chamber and having its discharge end located between said air inlet and said restricted outlet, a cap having a port therethrough screwed on the end of said oil nozzle, a valve for said port having a transversely disposed head located on the outside of said



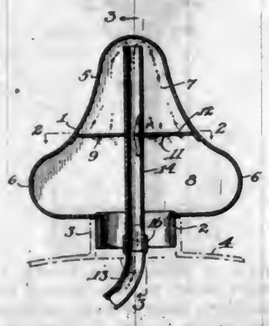
cap for producing a spray of oil transversely to the direction of flow of air through said mixing chamber, a valve stem on said valve extending through said port, and a compression spring bearing between the inner wall of said cap and the inner end of said valve stem for urging said baffle member to close said oil nozzle port.

1,663,046. ADJUSTABLE PARTITION FOR DOUGH TROUGHS. LOUIS F. GOTTWALD, Syracuse, N. Y. Filed Nov. 24, 1925. Serial No. 71,134. 5 Claims. (Cl. 107—7.)



4. An adjustable partition for dough troughs having brackets secured to the upper edge thereof and provided with downwardly diverging guides and clamping bolts adjustable in said guides and provided with means for engaging opposite sides of the trough for clamping the partition in its adjusted position.

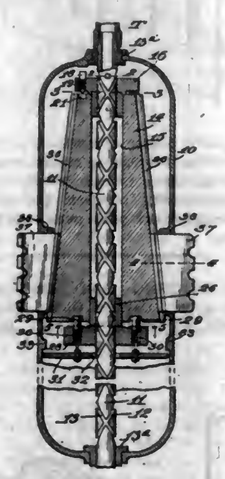
1,663,047. ATTACHMENT FOR AUTOMOBILE RADIATORS. GAROLD C. J. GRAY, Hastings, Nebr. Filed Mar. 26, 1927. Serial No. 178,627. 7 Claims. (Cl. 257—25.)



1. A device of the character described comprising a casing having an upper chamber and a lower chamber, a

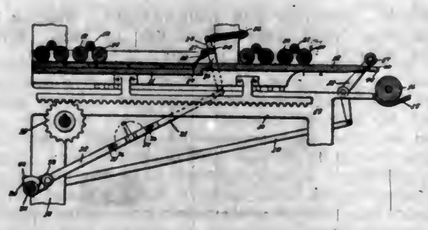
perforate baffle between said chambers, and a downdraft vent pipe extending upwardly through the lower chamber and into the upper chamber and in communication at its upper end with the latter-named chamber.

1,663,048. UNDERREAMER. EARL S. HARTSON, Los Angeles, Calif. Filed Apr. 11, 1927. Serial No. 182,723. 7 Claims. (Cl. 255—74.)



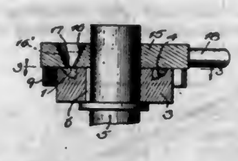
1. In an underreamer, a housing, a tubular mandrel extending axially through said housing, said mandrel having right and left hand threads, a conical member arranged within the housing, cutter blades arranged for movement through the wall of the housing, the inner portions of which cutter blades have inter-engagement with said conical member, nuts loosely mounted in the ends of said conical member, one of which nuts engages in the right hand thread of the mandrel, the other nut having engagement with the left hand thread of the mandrel and automatically acting means for effecting an alternate locking of said nuts to the ends of said conical member.

1,663,049. INK-CLEANING DEVICE FOR FLAT-BED CYLINDER PRINTING PRESSES. BOARDMAN J. HILL, Des Moines, Iowa. Filed Apr. 26, 1927. Serial No. 186,690. 3 Claims. (Cl. 101—425.)



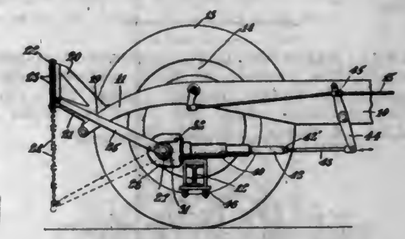
1. The combination with a printing press having a flat ink distributing plate and a series of ink distributing and form inking rollers, of a flexible cleaner above the flat ink distributing plate, means for moving the cleaner into engagement with the flat ink distributing plate during the movement of said plate in one direction and elevating said cleaner out of engagement with the said ink distributing plate during the movement of the latter in the opposite direction, a trough shaped ink receptacle attached to one end of the ink distributing plate in position to receive ink scraped from the said plate and of such size as to permit the flexible cleaner to move downwardly into the trough after the end of the ink distributing plate passes the cleaner, the side of the trough opposite from the adjacent edge of the ink distributing plate being formed into a blade to engage the side of the cleaner and remove ink therefrom and discharge it into the trough, and means for causing the flexible cleaner to swing downwardly through an arc as it passes through the trough and to approach a substantially vertical position when it engages the blade at the side of the trough opposite from the ink distributing plate.

1,663,050. MOLD FOR MAKING PACKING OR THE LIKE. NORMAN E. JOHNSON, Chicago, Ill., assignor to Chicago Rhopac Products Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1923. Serial No. 667,696. 6 Claims. (Cl. 22—150.)



1. In apparatus for molding metallic packing rings, a mold section having a mold cavity therein, a plurality of partitions arranged transversely of the mold cavity for forming a plurality of independent chambers in the mold cavity, a second mold section revolubly mounted with respect to said first mold section and having a gate for each of said chambers, and means for rotating said second mold section with respect to the first mold section.

1,663,051. FENDER. HARRY M. KATZ, New York, N. Y. Filed Aug. 9, 1927. Serial No. 211,673. 9 Claims. (Cl. 293—41.)

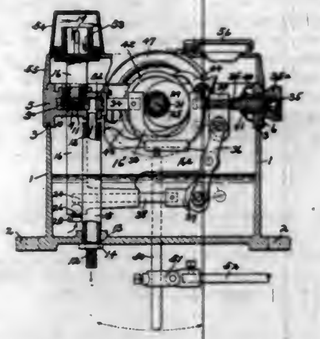


1. A safety fender for vehicles comprising in combination with the brakes of a motor vehicle, a plurality of fender bars carried by the chassis of the vehicle, lazy-tongs connections between said bars, and means connected to the lowermost of said bars actuated by the application of the vehicle brakes to operate said bars and lazy-tongs forming a protecting screen.

1,663,052. AUTOMATIC OIL PUMP WITH SIGHT FEED. JOHN J. LANGMACK, Portland, Oreg. Filed Sept. 24, 1925, Serial No. 58,413. Renewed Aug. 19, 1927. 6 Claims. (Cl. 184—27.)

6. A sight feed oil pump including in combination a container for oil, a sleeve set in the bottom of said container and extending upwardly above the oil level and

providing an outlet through the bottom of said container, a pumping mechanism removably set in said container



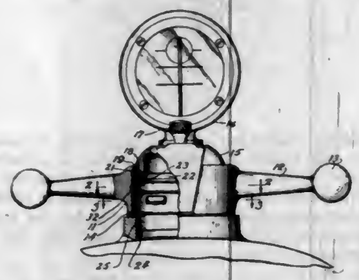
and having a discharge pipe extending through said sleeve, and means providing a sight feed of oil from the pumping mechanism to said sleeve.

1,663,053. FOLDING EYEGLASSES. CHARLES R. LAUBSCHER, Richmond Hill, N. Y. Filed Jan. 27, 1927. Serial No. 164,042. 2 Claims. (Cl. 88—44.)



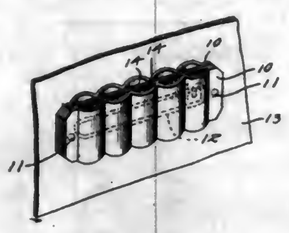
1. Folding eyeglasses comprising lens holding frames, a handle piece on one of the frames having a plurality of bores therein, a sleeve in one of said bores having an opening therein arranged to coincide with the other bore, a hook on the other frame, the hook being arranged to extend through the opening in said sleeve and into the adjacent bore and a latch for retaining the hook in said opening.

1,663,054. RADIATOR CAP. ALOYSIUS C. LIPPERT, Kenosha, Wis., assignor, by direct and mesne assignments, to The Norlipp Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1924. Serial No. 731,291. 6 Claims. (Cl. 220—24.)



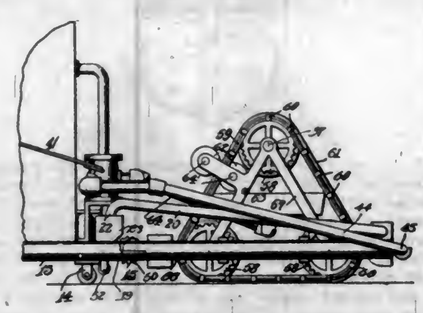
1. A radiator cap, comprising an inner member attachable to the radiator neck of an automobile or the like, an outer member enclosing said inner member, a cover hinged to said outer member, a motometer permanently secured to said cover, and means extending in through said outer member and arranged tangentially to said inner member for securing said members together against theft.

1,663,055. PEN AND PENCIL HOLDER. PATRICK F. MCAULEY, Buckner, Ill. Filed July 28, 1927. Serial No. 209,040. 1 Claim. (Cl. 24—12.)



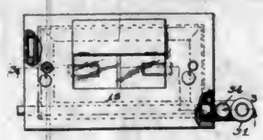
A pen and pencil holder comprising a plurality of pen and pencil receiving tubular members, means for attaching the tubular members to a garment, and elastic strips extending longitudinally between the tubular members for frictional engagement with pens and pencils inserted into said bores.

1,663,056. SCRUBBING AND DRYING MACHINE. GEORGE C. MEOLING, Canton, Ohio. Filed Feb. 7, 1924. Serial No. 691,265. 2 Claims. (Cl. 15—99.)



1. A drying apparatus comprising a frame, a roller mounted transversely in the upper portion of the frame, a pair of rollers mounted in the lower portion of the frame and arranged in a common horizontal plane, a mop belt engaged around the rollers whereby the portions of the same between the lower rollers will wipe the surface to be dried, and means arranged between the upper roller and a lower roller for squeezing the liquid from the belt.

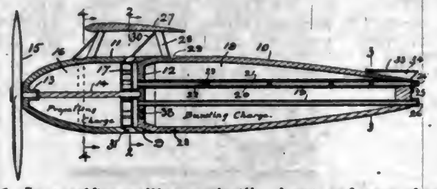
1,663,057. HEATER FOR INCUBATORS. WILLIAM H. MONROE, Colfax, Iowa. Filed Feb. 15, 1924. Serial No. 693,039. 1 Claim. (Cl. 237—15.)



A heater for incubators comprising a tubular tank in the form of a loop designed to be supported substantially horizontally, one portion of said tank having an inclined downwardly and outwardly extending tubular portion, a vertical non-water-jacketed lamp flue adjacent to the outer end of said downwardly and outwardly extending portion, a heating pipe extending longitudinally through one side of said loop and through said downwardly and outwardly extending portion and communicating with the interior of said flue, that portion of said

heating pipe which extends through the downwardly and outwardly extending tubular portion of said tank being mounted below the center of the inclined tubular portion, substantially as described and for the purposes stated.

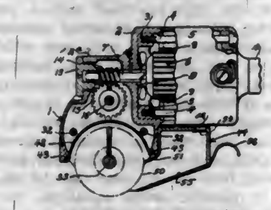
1,663,058. GLIDING PROJECTILE. JOSEPH PEPPIN, Sciota, N. Y. Filed July 1, 1927. Serial No. 202,899. 5 Claims. (Cl. 244—1.)



1. In a self-propelling projectile, front and rear chambers having a propelling charge and a bursting charge respectively, a pipe having an ignition train enclosed in the rear chamber and opening into the front chamber, a time fuse comprising a tube having its ends fixed in the rear chamber, an inner tube mounted to turn within the fixed tube and opening into the front chamber its rear end being closed, a time train filling the inner tube, said tubes being provided with corresponding vents similarly spaced longitudinally but dissimilarly spaced circumferentially; and a propeller adapted to be actuated by said propelling charge to drive the projectile.

3. In a self-propelling projectile, front and rear chambers having a propelling charge and a bursting charge respectively, a propeller adapted to be actuated by the propelling charge to drive the projectile, sustaining wings and means for detachably securing the wings on the projectile, comprising bands fixed on the wings embracing the projectile, and supporting members having button-headed elements engaging in corresponding apertures provided in the projectile.

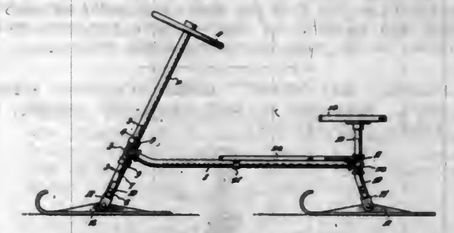
1,663,059. CLEANING AND ABRASIVE DEVICE. JOHN J. PETERSON, Steubenville, Ohio. Filed Dec. 30, 1922. Serial No. 609,923. 1 Claim. (Cl. 15—93.)



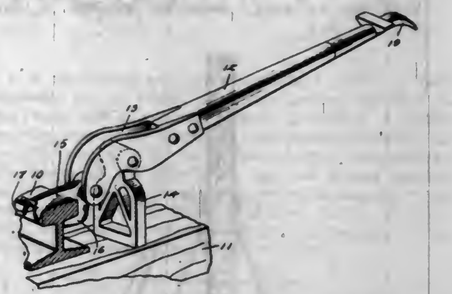
In a machine of the character described, a casing, heads fitting into the casing at the ends thereof and each provided with a peripheral flange abutting the end of said casing, a cleaning member mounted in the casing and provided with a bearing element at each end, the heads being provided with recesses for reception of said bearing elements, means for detachably securing the heads together, a supplemental casing integral with the main casing, a motor casing detachably secured to said supplemental casing and provided with a rearwardly projecting handle element, a motor in the motor casing, and driving connections between the motor and said cleaning member, said connections permitting bodily removal of the cleaning member when the heads are detached.

1,663,060. CHILD'S CONVERTIBLE TOY. AUSTIN E. RAINEY, Grove City, Pa. Filed Nov. 24, 1926. Serial No. 150,490. 3 Claims. (Cl. 208—165.)

1. A child's vehicle comprising a reach bar having its front end upwardly deflected, clusters at opposite ends of the reach bar, a steering post vertically adjustably mounted in the vertical portion of the front cluster, a seat post secured within the upper portion of the rear cluster, a supporting element detachably connected to the lower end of the steering post, a second supporting element coupled to the rear cluster, a platform secured to the rear portion of the reach bar, and arms projecting laterally from opposite sides of the rear cluster.

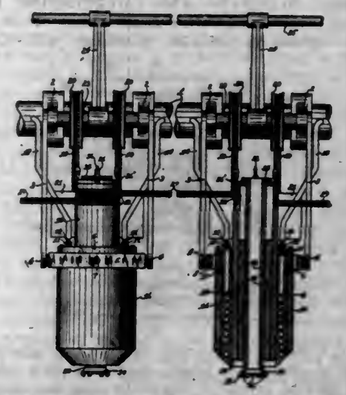


1,663,061. RAILWAY-RAIL-LIFTING BAR. DAVID RICH, Spooner, Wis., assignor of two-fifths to Garnett R. McKeever, Spooner, Wis. Filed Apr. 16, 1927. Serial No. 184,364. 1 Claim. (Cl. 254—121.)



A railway rail lifting device comprising a lever having a bifurcated end, a fulcrum leg pivotally depending from the inner end portion of the bifurcation, and a rail engaging arm pivotally mounted in the outer end of the bifurcation and having a hook portion adjacent its inner end and an angularly extending portion on its outer end, said angularly extending portion being disposed on the same side of the arm as that of the hook.

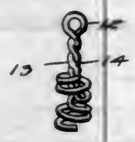
1,663,062. CAN-CAP-SOLDERING APPARATUS. ALPHEUS E. ROE, Oakland, Calif. Filed Mar. 28, 1927. Serial No. 178,888. 6 Claims. (Cl. 113—108.)



1. A can-cap soldering apparatus comprising a heating member; a soldering member within said heating member; connections for flexibly suspending said soldering member independently of said heating member;

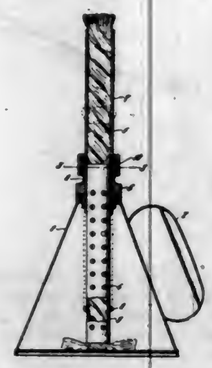
means for raising and lowering said connections to move said soldering member to and from the work; a holder member fitted within the soldering member for linear movement to and from the work; and means associated with said members for effecting their movement with relation to the work, in reversed timely order.

1,663,063. HAY SLING. HENRY SCHNEIDER, Alden, Minn. Filed May 18, 1927. Serial No. 192,375. 3 Claims. (Cl. 24—123.)



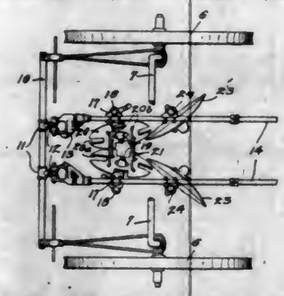
1. An eye member for a rope end consisting of a length of wire having its ends passed into the rope end and finally coiled around the rope end.

1,663,064. TORCH. HOWARD R. VAUGHAN, Victoria, Va. Filed May 14, 1927. Serial No. 191,386. 3 Claims. (Cl. 67—55.)



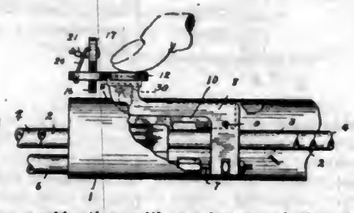
1. In a device for the purpose set forth, the combination of a torch body, a wick tube therein and a wick extending through the tube, of a sleeve slidable on the tube and receiving the wick therethrough and means for clamping the sleeve adjusted on the tube.

1,663,065. BLOCKING AND CULTIVATING DEVICE. FRANK VERJOSTA, Silver Lake, Minn. Filed Aug. 5, 1927. Serial No. 210,816. 2 Claims. (Cl. 97—12.)



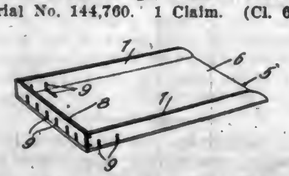
1. In a device of the class described, a wheeled frame a pair of cultivator beams supported from said frame and a pair of revoluble oppositely disposed discs having circumferentially spaced recesses extending inwardly from their peripheral edges, said discs being supported from said cultivator beams with their forward portions in close relation and diverging rearwardly and upwardly, and a pair of cultivator discs spaced some distance apart also supported from said cultivator beams behind said first mentioned discs and diverging rearwardly, said cultivator discs having their forward portions lapping the rear portions of said first mentioned discs on the inner sides thereof.

1,663,066. ADJUSTABLE VALVE-CONTROLLING MEANS. ROY VON FELDEN, Duluth, Minn., assignor of one-half to Sperling Carlson, Duluth, Minn. Filed Mar. 21, 1927. Serial No. 177,171. 2 Claims. (Cl. 251—152.)



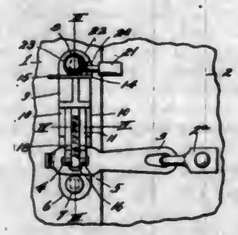
2. The combination with a plunger of the character described having a thumb engaging tread, of an extension upon one side of said tread, a screw threaded bolt adjustably mounted within said extension and protruding therebeneath, and means for sealing the bolt to said extension in any desired adjusted position.

1,663,067. ICE-HANDLING DEVICE. FRANK W. WALLACE, Chattanooga, Tenn., assignor of one-half to Blucher Blair, Chattanooga, Tenn. Filed Oct. 28, 1926. Serial No. 144,760. 1 Claim. (Cl. 62—1.)



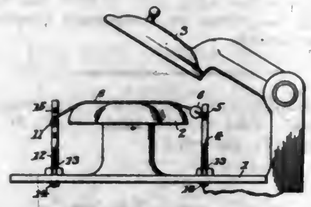
A device for handling ice from a household electric refrigerator of the type provided with a pan in which the ice is frozen in cubes; said device comprising a tray made of non-metallic material and upon which to invert the pan of ice with one hand while holding said tray with the other hand, whereby upon loosening of the ice from the pan it will be deposited in the tray, said tray having an imperforate rectangular bottom and imperforate back and side walls of a height corresponding to an ice cube, said back wall and the rear portions of the side walls being formed with saw cuts which extend into the bottom to provide drain openings, the front end of the tray being open to permit the ice cubes to slide from this end of the tray.

1,663,068. COMBINED HASP AND SEAL FOR BOX CARS. STRAUD K. WOOD, Hutchinson, Kans. Filed Jan. 24, 1927. Serial No. 163,061. 4 Claims. (Cl. 292—282.)



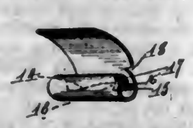
1. In a combined fastener and seal, a plate having a keeper and a staple, a slide mounted for longitudinal movement only on the plate and extending through the keeper and staple, and provided with a shelf within the former and a head spaced above the shelf, a seal strip fastening the plate and slide in looped relation and extending through said shelf into the keeper, and a head fastening the ends of the strip together within the keeper between the head and shelf of the slide.

1,663,069. PLAITING ATTACHMENT FOR PRESSING MACHINES. HYMAN DIENER, Washington, D. C., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 8, 1926. Serial No. 86,892. 7 Claims. (Cl. 68—9.)



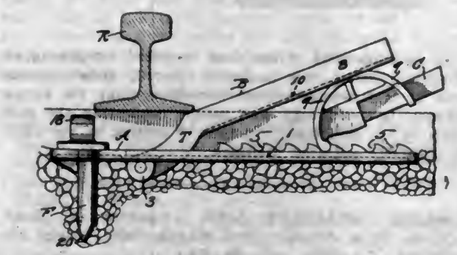
1. A plaiting attachment for garment pressing machines, including engaging elements on opposite sides of the pressing member of a machine, a spring-actuated reel engaged with one of said elements and adjustable thereon longitudinally along said pressing member and a tape secured at its one end to said reel, the opposite end of said tape being adapted for releasable engagement with the other of said engaging elements.

1,663,070. SHUTTLE THREADER BLOCK. ARSÈNE DION, Berkeley, R. I. Filed Jan. 13, 1927. Serial No. 160,977. 5 Claims. (Cl. 139—223.)



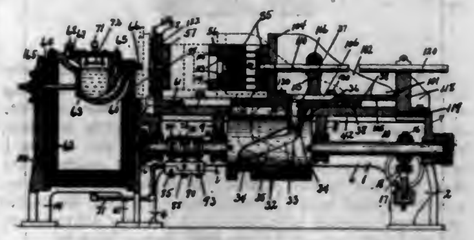
1. A shuttle threader block having a longitudinal slot and a longitudinal recess communicating with the slot, a coiled member disposed in the recess and having one end secured to one of the walls of said slot, said member having a notch cut in the forward end thereof, said member having its inner edge slanted with reference to the longitudinal axis of the coil, and a tongue projecting inwardly from said edge and disposed at the forward end of the coil.

1,663,071. TRACK LINER. CLARKSON A. DISBROW, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed May 1, 1923. Serial No. 636,033. 2 Claims. (Cl. 254—44.)



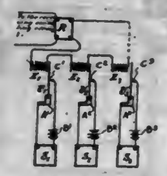
1. A track lining device including a base provided at one end portion thereof with an opening, means carried by said base at the upper side thereof and in rear of the said opening for exerting a lateral force against the rail, and an anchoring plate removably mounted in the said opening and of a cross-sectionally flanged formation, the said plate being provided with a pointed lower end for penetrating the ballast and at its upper end with a tapping head engaging over the said base.

1,663,072. DIE-CASTING MACHINE. WILLIAM J. DURNO, Syracuse, N. Y., assignor to Precision Castings Company Incorporated, Fayetteville, N. Y., a Corporation of New York. Filed Apr. 23, 1925. Serial No. 25,301. 18 Claims. (Cl. 22—69.)



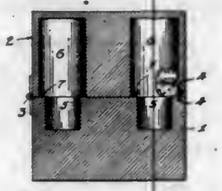
1. A die-casting machine comprising a frame, a shaft journaled on the frame, a slidable member mounted on the frame and adapted to carry a die-section, a sliding carriage adapted to carry the other die-section and frictionally engaged with the sliding member, and cooperative means on the main shaft and the sliding carriage for effecting simultaneous reciprocating movement of the carriage and sliding member within limits of movement of the latter, and then positive movement of the carriage independent of the slide member.

1,663,073. RADIO TELEMECHANIC SYSTEM. EMANNO FIAMMA, Aquila, Italy. Filed July 1, 1924, Serial No. 723,490, and in Italy June 14, 1923. 1 Claim. (Cl. 250—9.)



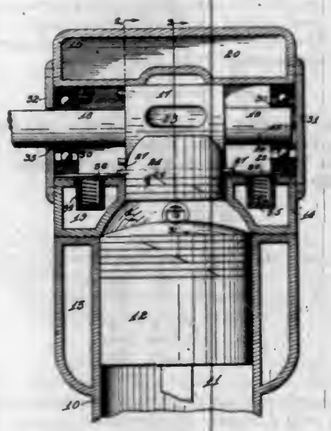
In a radiotelemechanical system a transmitting station equipped with a number of modulators equal to the number of orders to be transmitted, consisting each of a group of two bands of reeds of magnetic metal, secured at one end and free at the other, tuned by construction to a determined frequency of vibration equal for the two bands of the same modulator, but different for each modulator, and kept vibrating by an electro-magnet whose circuit is periodically interrupted by a contact made by one of the bands in its vibration, while the other band makes a similar contact which can be inserted at will of the operator in the circuits of the transmitting station, so as to cause the emission of a wave train for each vibration of the band, and a receiving station equipped with a selector consisting in an electromagnet whose armature is connected to a number of metallic reeds equal to the number of signals to be received secured at one end and free at the other, and tuned each to a frequency of vibration equal to the frequency of the corresponding transmitting modulator, the electromagnet being connected to the radio receiver conveniently tuned, and each of the receiving reeds, when in vibration closing a contact causing the electromechanical execution of the corresponding order.

1,663,074. GAME DEVICE. JACOB W. FIELD, Peoria, Ill. Filed Sept. 24, 1926. Serial No. 137,488. Renewed Feb. 3, 1928. 6 Claims. (Cl. 273—145.)



1. A box for the game of dice consisting of two bodies adapted to lie upon one another, one of the bodies having a series of shallow pockets exposed at the meeting place of the bodies, each of a diameter but slightly in excess of that of a die, the other of the bodies also having a series of pockets greater in diameter and of greater depth than the first named pockets and exposed to the latter and so disposed with respect to the same when the bodies overlie one another as to expose an annular abutment on the first body at each of said first named pockets.

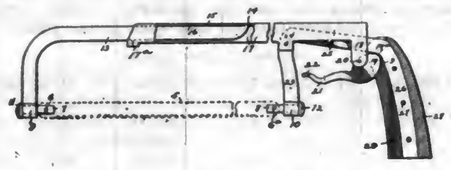
1,663,075. ROTARY-VALVE STRUCTURE. PEARL G. FRAZIER, Ankeny, Iowa. Filed July 10, 1924. Serial No. 725,147. 9 Claims. (Cl. 123—190.)



1. In a rotary valve structure, a valve chamber, a passage communicating therewith, a rotary valve mounted in said chamber, a sleeve in said passage having no parts of a maximum diameter greater than that of the passage and having grooves, said sleeve being mounted for slight vertical adjustment to take care of expansion and contraction, and means projected into said grooves for imparting yielding pressure on said sleeve in one direction.

1,663,076. HACK-SAW FRAME. CHARLIE R. GARNER, Chase City, Va. Filed Sept. 13, 1927. Serial No. 219,267. 4 Claims. (Cl. 145—34.)

1. A hack saw frame, comprising a pair of frame members pivoted to each other for rocking movement with respect to each other, one of said frame members comprising a longitudinally extending run and a downturned forward end portion, which carries a member adapted to engage one end of the hack saw blade, the other of said frame members comprising a hand grip portion, and a downturned leg carrying a member adapted to engage the other end of said hack saw blade, and a manually operable cam acting between said frame members to rock



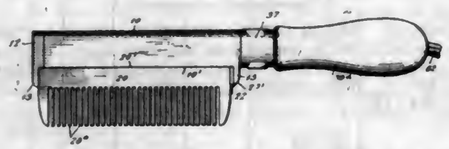
them with respect to each other to move the leg of the grip portion away from the downturned member of the other frame portion.

1,663,077. GLUE GUN. WILLIAM I. HALLOCK, Los Angeles, Calif. Filed Dec. 13, 1926. Serial No. 154,493. 6 Claims. (Cl. 221—47.)



1. A syringe-like device for dispensing liquids, comprising in combination a cylindrical chamber, a conical piston in said chamber, said conical piston having its concave side disposed rearwardly, a flexible diaphragm in said chamber, said diaphragm having its marginal edge secured to the walls of said chamber at the forward end thereof, and its center portion attached to said piston, thereby forming a liquid-retaining space forwardly of said diaphragm, an air-retaining chamber between said diaphragm and said piston, whereby motion of said piston will compress the air in said air chamber and force the flexible diaphragm forwardly to expel liquid from said liquid-retaining space.

1,663,078. ELECTRICAL HAIR-TREATING IMPLEMENT. SOLOMON HARPER, New York, N. Y., assignor to Clifford L. Miller, New York, N. Y. Filed Oct. 25, 1924. Serial No. 745,830. 6 Claims. (Cl. 132—14.)



1. An implement of the class described comprising an elongated casing, lugs projected laterally from opposite ends of said casing, a comb extending along the casing between the said lugs, and means connecting the said comb to the said lugs to permit of setting of the comb in angularly adjusted positions.

1,663,079. BRACELET LINK. CHARLES A. HART, Walla Walla, Wash. Filed May 2, 1925. Serial No. 27,360. 2 Claims. (Cl. 59—79.)

1. In a bracelet link, a laterally formed body portion provided with a longitudinally disposed keyway, laterally formed indentures provided in said body portion, an open

link mountable in said body portion, and engageable with said indentures to form with said body portion a rigid



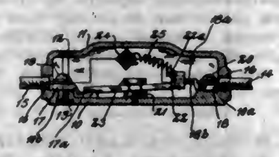
continuous link, and a yieldingly operable closed link slidably secured in said continuous link, and adapted to engage a succeeding link.

1,663,080. FISH BAIT. CHARLES HEDDON, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a Corporation of Michigan. Filed May 29, 1926. Serial No. 112,590. 12 Claims. (Cl. 43—42.)



1. A bait consisting of a body and a head connected with the body by a neck of reduced transverse diameter as compared with the transverse diameters of the head and body, the neck and head extending obliquely downward with respect to the longitudinal axis of the body, the upper surface of the head being flattened substantially from the tip thereof to the point of mergence into the neck to afford an obliquely presented area of impingement adequate to impart life-like movements to the bait when the bait is in trailing position, and the body being divided at its rear end to simulate the legs of a frog, substantially as described.

1,663,081. SNAP SWITCH. HARRY HERTZBERG, Brooklyn, N. Y., assignor to M. Propp Co., New York, N. Y., a Firm composed of Morris Propp and Louis Propp. Filed Apr. 17, 1926. Serial No. 102,708. 5 Claims. (Cl. 200—67.)



1. In a switch of the kind described a casing, a pivot centrally located therein, a switch blade having two equal arms oscillatably mounted on said pivot, a contact plate for each end of said blade, one plate being mounted to engage the upper face and the other the lower face of said blade at diagonally opposite places of said casing and common resilient means for snap operation of said blade and for pressing its opposite faces against said contact plates.

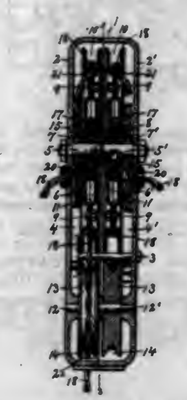
1,663,082. FUMIGANT MATERIAL AND PACKAGE. HARRY W. HOUGHTON, Glen Echo, Md., assignor to Safety Fumigant Company, Boston, Mass., a Corporation of Massachusetts. Filed June 25, 1925. Serial No. 39,614. 9 Claims. (Cl. 167—6.)

1. A caked mixture of a cyanide and an oxidizing agent with a protective binder not affected by moisture in proportions to produce a lachrymatory fumigant gas by the addition of dilute hydrochloric acid.

5. A cake for producing hydrocyanic acid gas and cyanogen chloride in lachrymatory proportions for fumigant purposes comprising a cyanide and a chlorate of an alkali metal mixed with slacked lime and sand in plastic condition with the addition of a small amount of common salt and allowed to harden.

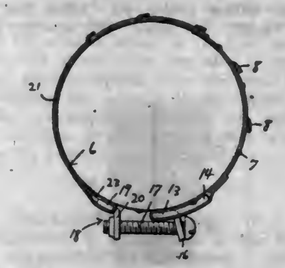
7. A hardened cake of plastic material comprising a cyanide and an oxidizing agent in proportions to form hydrocyanic acid gas and halogen cyanide when treated with hydrochloric acid for the purpose described.

1,663,083. SPRING REEL FOR CONDUCTORS. OSCAR C. KAYLE, Syracuse, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 8, 1925. Serial No. 74,110. 4 Claims. (Cl. 242—109.)



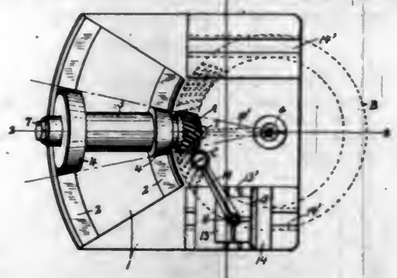
1. In a device of the character described, a case, a drum and a sheave both rotatably mounted within the case to rotate about parallel axes and in substantially the same plane, a cable wound around the drum and extending from one side thereof around the opposite side of the sheave and outwardly through an opening in the case and provided with an electric implement, the other end of the cable being extended through a separate opening in the case to the exterior thereof and provided with means for attachment to a source of electric energy, and a spring for rotating the drum in a direction to rewind the cable thereon.

1,663,084. PISTON-RING COMPRESSOR. STEPHEN G. LING, Cleveland, Ohio. Filed June 22, 1927. Serial No. 200,657. 2 Claims. (Cl. 29—86.4.)



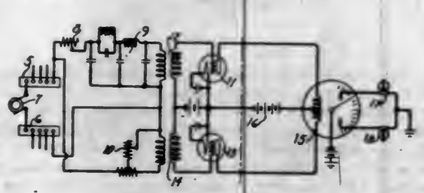
1. In a piston ring compressing tool, a split band, a bracket carried by one end of the band, lugs provided on said band, a resilient strap provided with openings engageable with said lugs, a second bracket carried by one end of said strap, and a bolt cooperable with said brackets for contracting the ends of said band.

1,663,085. APPARATUS FOR TESTING BEVEL-GEAR TEETH. CHARLES H. LOGUE, Syracuse, N. Y., assignor to The Gear Grinding Machine Company, Detroit, Mich. Filed Apr. 16, 1926. Serial No. 102,368. 14 Claims. (Cl. 73—51.)



1. In a device for testing the teeth of bevel gears, a test tooth, movable supporting means for said tooth, means for supporting the gear to move about the apex of a cone corresponding to the pitch cone of the gear with a tooth of the gear in contact with the test tooth.

1,663,086. MEANS FOR INDICATING FREQUENCY CHANGES. MAURICE B. LONG, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 4, 1924. Serial No. 696,772. 8 Claims. (Cl. 175—368.)



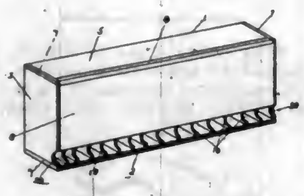
1. A frequency indicating system comprising a source of alternating current, a non-reactive transmission path and a low pass filter of the broad band type associated therewith, and an indicating instrument differentially connected to said resistance element and filter.

1,663,087. METHOD OF MAKING FULL-FASHIONED HOSIERY AND PRODUCT THEREOF. MAX A. MARSCHNER, Willow Grove, Pa. Filed Dec. 7, 1925. Serial No. 73,627. 2 Claims. (Cl. 66—178.)



1. The method of making full fashioned hosiery, which consists in knitting a hose in the flat condition along parallel lines, narrowing or shaping said hose along the edges thereof by shifting inwardly at suitable intervals, a relatively few of the outermost stitches, thereby to position the narrowing marks a relatively small distance from the respective edges of the flat hose form, and spaced therefrom, and seaming the edges of said flat hose form so as completely to gather in, within said seam, said narrowing marks.

1,663,088. DISPLAY RECEPTACLE. AVERY A. MATHESON, Binghamton, N. Y., assignor to Ansco Photo-Products, Inc., Binghamton, N. Y. Filed May 11, 1926. Serial No. 108,393. 1 Claim. (Cl. 312—42.)



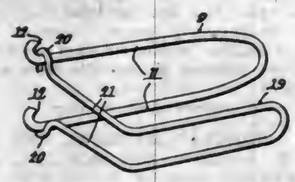
A receptacle comprising a box, vertical partition members in said box forming a plurality of sets of compartments varying in depth and width, backing members for said portions extending across all of said sets, said partition members for each set being folded from a single piece of material.

1,663,089. NAIL FILE AND CLIP THEREFOR. ROSS MCFARLAND, Portland, Oreg. Filed Apr. 4, 1927. Serial No. 180,730. 1 Claim. (Cl. 24—3.)



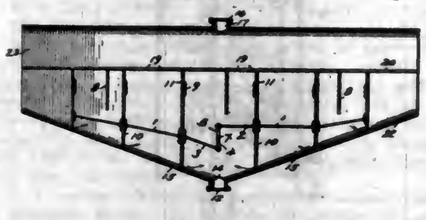
A nail file having a handle portion at one end, a tongue integrally connected adjacent the outer extremity of the handle portion and struck out from the handle material to extend in spaced parallel relation longitudinally of said handle portion extending over the aperture from which said tongue is formed towards the opposite end of the file.

1,663,090. WINDOW SHADE AND CURTAIN HANGER. WILLIAM W. MULLENDORE, Knoxville, Tenn. Filed June 14, 1926. Serial No. 115,909. 1 Claim. (Cl. 156—23.)



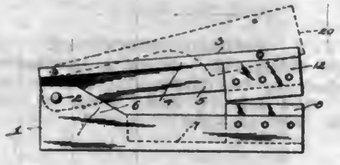
An end member for combined window shade and curtain hangers embodying a main section formed of a length of wire bent intermediate its ends defining parallel leg members, spurs formed at the ends of the parallel leg members, an auxiliary section including a length of wire bent intermediate its ends and defining leg members, the last mentioned leg members having right angled portions terminating in inwardly extended hooks to grip the leg members of the main section, and supporting members to which the leg members are secured.

1,663,091. CONVEYING-PIPE COTTON CLEANER. THOMAS L. OATES, Rhodhiss, N. C. Filed Aug. 3, 1926. Serial No. 126,890. 4 Claims. (Cl. 19—77.)



1. In a device of the class described, a conduit, a screen in the conduit and dividing the conduit into upper and lower portions, the lower portion being provided with an outlet, doors in the lower portion of the conduit on opposite sides of the outlet, the doors being movably mounted to permit trash to pass through the outlet, and transverse baffles located between certain of the doors and below the screen.

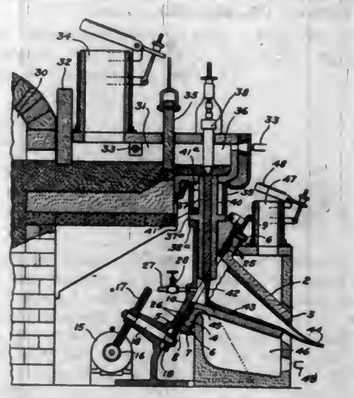
1,663,092. SHEARING MACHINE. ANDY PARTS, Canton, Ohio. Filed May 4, 1926. Serial No. 106,736. 2 Claims. (Cl. 164—58.)



1. In a shearing machine, a pair of relatively movable frames, one of said frames being formed with a longitudinal socket opening to the upper side thereof, a flat cutter bar mounted in said socket, fastening elements extending transversely through the walls of said socket and through said cutter bar to reversibly retain the latter in said socket, the other of said frames being formed with a depending web arranged in the place of said socket, a second flat cutter bar, and fastening appliances for uniting said last named cutter bar to either of the vertical side walls of said web, said appliances passing transversely through said web and the last named cutter bar.

1,663,093. MANUFACTURE OF GLASS TUBING AND CANE. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Jan. 3, 1927. Serial No. 158,461. 22 Claims. (Cl. 49—17.1.)

16. Apparatus for continuously drawing glass in tubular form, comprising a conical receiver inclined downwardly toward its smaller end and having a flange at its larger upper end, a gear ring and an annularly grooved bearing member clamped to opposite sides of said flange, rollers engaging the groove of said bearing member for rotatably supporting said receiver, means for driving said gear ring, a stationary closure member adjacent to said gear ring, means for introducing compressed air into said receiver through said closure member, means for preventing escape of air between said gear ring and said closure member, means for introducing a stream of molten glass into said receiver, comprising a feed tube extending through an opening in said closure member and having an external flange for supporting said feed tube and for preventing escape of air from said receiver around said feed tube, and means for supplying a regulated quantity of molten glass to said feed tube.



1,663,094. SHOE AND METHOD OF MAKING THE SAME. FREEMAN PERKINS, Seabrook, N. H. Filed Dec. 9, 1926. Serial No. 153,562. 3 Claims. (Cl. 36—18.)



1. A shoe comprising an outsole, an upper, a half insole, including a heel portion and a shank portion, and a flanged heel counter, the fore part of the outsole being provided in its inner side with an inner channel extending from the ball at each edge portion to and around the toe, the bottom of said channel being separated from the margin of the sole by between substance, the rear part of the outsole being provided in its outer side with outer channels extending from the ball to the heel, at opposite edge portions, and with lips to close said outer channels, turn-shoe machine stitches securing the fore part of the upper to the fore part of the outsole, and extending through the said between substance, said stitches being formed while the outsole and upper are wrong side out, tacks uniting the heel portion of the upper and the counter flange to the heel portion of the half insole, and driven when the shoe is right side out, and McKay stitches formed when the shoe is right side out and uniting the outsole to the upper and insole between the tack-united portion of the upper and the turn-shoe machine stitches, the McKay stitches being covered by the outer channel flaps.

1,663,095. BUILDING MATERIAL. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,336. 8 Claims. (Cl. 92—21.)

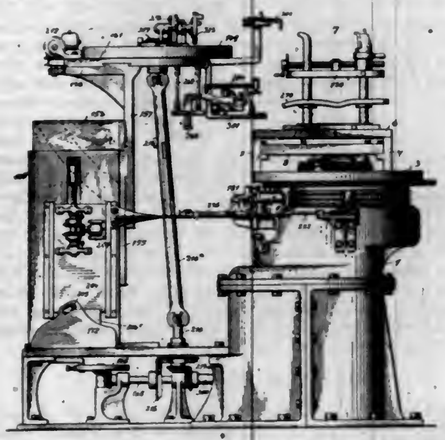
1. The herein described process which comprises forming a sheet containing fibrous material and an emulsion of bituminous material, an emulsifying agent and water, drying said sheet, and introducing into said sheet waterproofing material having a larger percentage of volatile constituents than said bituminous material.

1,663,096. CORE DRILL. JOHN T. PHIPPS, Huntington Park, Calif., assignor to H. C. Smith Manufacturing Company, Whittier, Calif., a Corporation of California. Filed Mar. 11, 1925. Serial No. 14,688. 27 Claims. (Cl. 255—72.)



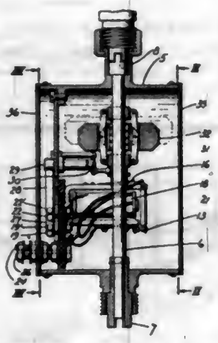
1. Improvements of the character disclosed, comprising a tubular drill body, and a core tube within the same, means being provided for retaining the core tube against vertical movement within the drill body and in driving relation thereto and removable at the bottom thereof, said means comprising a detachable member applied within the bottom of the drill body, said detachable member having a vent communicating with the interior of the core tube and leading to the exterior of the drill body above its lower end.

1,663,097. AUTOMATIC SHOEMAKING MACHINE. EDWIN J. PRINDLE, East Orange, N. J., assignor, by mesne assignments, to United Shoe Machinery Corporation, Boston, Mass., a Corporation of New Jersey. Filed July 31, 1916. Serial No. 112,292. Renewed Apr. 13, 1927. 135 Claims. (Cl. 12—17.)



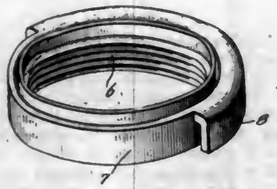
135. In a shoe machine, a tool, a shoe support, mechanism for automatically bringing the tool and support into working relation, mechanism for relatively rotating and moving the support and tool to transfer the tool along the shoe, mechanism for stopping the relative movement, mechanism for disengaging the tool and shoe, and mechanism for relatively moving the support and tool in reverse direction to starting position.

1,663,098. SPEED SIGNAL SWITCH. PAUL RUEGG, San Francisco, Calif., assignor to Steven A. Rice, San Francisco, Calif. Filed Jan. 18, 1926. Serial No. 82,083. 2 Claims. (Cl. 200—80.)



1. In a switch of the character described, a rocker shaft, a governor, a movable part on the governor adapted to be moved in accordance to the speed of the governor, a connection between said movable part and the rocker shaft whereby a rocking movement is imparted to the rocker shaft, a pair of leaf spring arms disposed one on top of the other and secured at one end to the rocker shaft, one of said leaf spring arms being longer than the other and each leaf spring arm having a contact member on its outer end and a pair of stationary cooperating contact members adapted to be successively engaged during the rocking movement of the rocker shaft.

1,663,099. BUSHING STRUCTURE. MORRIS SCHWARTZ, Chicago, Ill., assignor to American Flange & Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed July 21, 1926. Serial No. 123,923. 4 Claims. (Cl. 220—39.)



1. The combination with a sheet metal member including a body portion, a circular rim portion angular to the body portion and surrounding a circular opening formed through said member, said body portion of said member being dished around said rim portion to form, with said rim, a pocket, this pocket being outwardly bulged away from the side of the rim portion to widen the pocket at one portion thereof, shoulders being formed at the ends of the bulged portion of the pocket; of an interiorly threaded bushing having a body portion surrounded by said rim portion, a returned portion surrounding and spaced apart from the body portion of the bushing and received in said pocket and surrounding the aforesaid rim portion which extends into the space between said body and returned bushing portions, said bushing having a second portion returned upon the first returned portion toward the connected rim of the latter and itself received, where connected with the first returned bushing portion, in the bulged portion of the aforesaid pocket and engaging the aforesaid shoulders to obstruct turning movement of the bushing, the unconnected rim of the bushing body portion lapping the base of the rim portion of the aforesaid sheet metal member, the outer wall portion of said pocket where the pocket is outwardly bulged being formed to offer no material resistance to the turning movement of said bushing.

1,663,100. COATING COMPOSITION CONTAINING RUBBER AND DRYING OILS AND METHOD OF MAKING SAME. CHARLES M. STINE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 19, 1923. Serial No. 681,648. 14 Claims. (Cl. 134—17.)

5. The process which comprises mixing 10 parts of unvulcanized rubber dissolved in a rubber solvent with from about 4 to 31 parts of a drying oil, and with an amount of a drier equal to between 0.4 and 5% of the oil, and heating the resulting composition in the form of a thin film to a temperature between about 70 and 125° C. to volatilize the solvent, oxidize the oil, and cure the rubber.

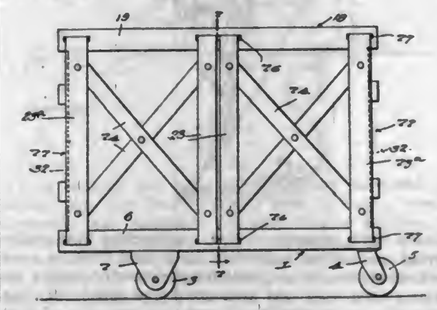
9. A coating composition comprising uncured rubber, a vegetable drying oil, a drier, an amount of sulfur not in excess of 2% of the amount of rubber, a vulcanization accelerator, and a thinner.

1,663,101. COATING COMPOSITION AND PROCESS OF MAKING THE SAME. CHARLES M. A. STINE and COLE COOLIDGE, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 5, 1924. Serial No. 736,018. 18 Claims. (Cl. 134—54.)

4. The process which comprises preparing a solution of rubber in a volatile solvent, said solution having a suitable consistency for use as a coating composition, and incorporating therein a drying oil and an amount of metallic drier having, upon exposure to the atmosphere, an effect on the viscosity of the rubber solution equal to that of an amount of cobalt drier equivalent to from about 0.001% to 0.01% cobalt metal on the basis of weight of oil employed.

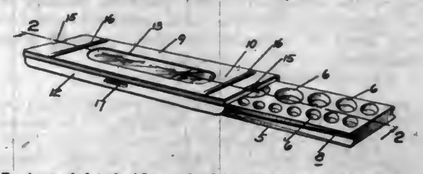
6. The process which comprises mixing 10 parts of unvulcanized rubber dissolved in a rubber solvent with from about 30 to 80 parts of a drying oil, thinning with a volatile solvent to a suitable consistency for coating purposes and incorporating therein an amount of cobalt drier equivalent to from about .001% to .01% cobalt metal on the basis of weight of oil used, whereby, with exposure to atmospheric oxygen ordinarily encountered in the art, the viscosity of the composition remains satisfactory for coating purposes over a period of time in excess of two days.

1,663,102. SHIPPING CRATE. DALLAS TAYLOR, Lorain, Ohio. Filed Apr. 26, 1926. Serial No. 104,761. 3 Claims. (Cl. 220—4.)



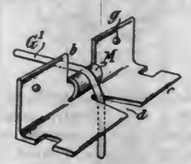
1. In a crate structure of the class described, a wheel supported base, a top, side members and end members, said base, top and side members being provided with latches and cooperating slots, the side members and end members being provided with apertured tongues extending through said slots, and said latches being engaged with the tongues to retain the parts in assembled relation for producing a crate.

1,663,103. WEIGHT CONTAINER. FRED W. THOMPSON, Denver, Colo. Filed Sept. 19, 1925. Serial No. 57,373. 8 Claims. (Cl. 206—1.)



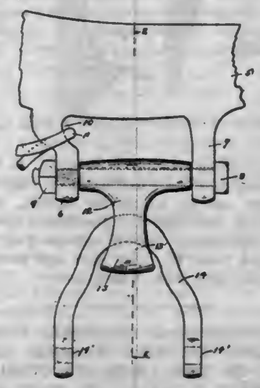
7. A weight holder of the character described, comprising a tray member having grooves on the sides thereof; and a flanged, sliding cover member having detents to fit in the grooves, the distance from the top of the detent to the under surface of the top of the cover being not more than the distance from the upper and lower edge of the groove to the top and bottom of the tray respectively.

1,663,104. WIRE ANCHOR. ROWLAND T. WALES, New Rochelle, N. Y. Filed May 22, 1926. Serial No. 110,902. 25 Claims. (Cl. 24—130.)



1. An anchor for holding a taut tie-wire for concrete forms comprising a base portion through which the taut wire passes having a flat seating surface in a plane perpendicular to the taut wire, adapted to seat against the form, and integral wire-gripping means including surfaces between which the wire may be drawn, of such angular relation as to grip and mutually hold the wire, and integral means for engaging the wire to prevent its escape from such gripping surfaces.

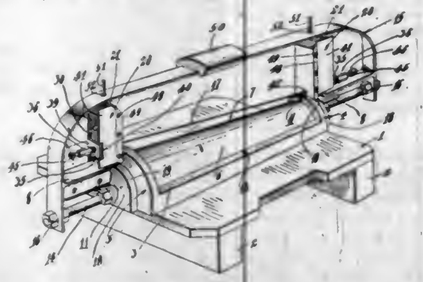
1,663,105. HARNESS CONSTRUCTION. JAMES M. WALSH, Milwaukee, Wis., assignor to James M. Walsh Co., Milwaukee, Wis., a Corporation of Delaware. Filed May 11, 1925. Serial No. 29,528. 7 Claims. (Cl. 54—30.)



5. A harness construction, comprising a hame member having spaced projecting eyed arms, one of said arms having a recessed portion spaced from the hame,

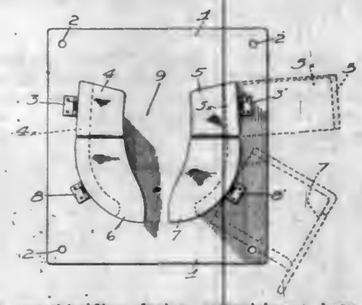
a breast strap link engaging the recessed portion of the recessed arm, a bolt extending through said arms, a T-shaped connector member journaled on the bolt between the arms to swing laterally with respect to the hame and having a projecting stem portion provided with an eye in parallel alinement with the bolt, and a trace member extending loosely through the eyed stem portion of the connector member and movable in a line parallel to the movement of the connector member and also at right angles thereto, said connector and trace members being of increased thickness at their points of engagement.

1,663,106. METHOD AND MEANS FOR PRODUCING HANDMADE TILE. JOHN R. WARFIELD, Los Angeles, Calif., assignor to True-Tile Corporation, Reno, Nev., a Corporation of Nevada. Filed June 23, 1926. Serial No. 117,923. 22 Claims. (Cl. 25—42.)



4. In an apparatus for forming hand made clay tile, the combination of a base, a core removably supported on the base, retaining plates secured to the said base, a cutting element, and means secured to the said base for actuating the said cutting element to cut the surplus clay from a billet of clay kneaded on the said core.

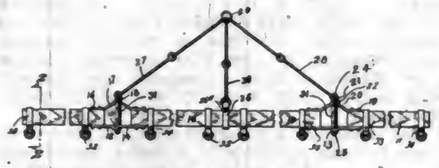
1,663,107. TOWEL HOLDER. BEVERLY WHITE, Chicago, Ill., assignor of one-half to Charles M. Bender, Chicago, Ill. Filed Feb. 23, 1927. Serial No. 170,318. 2 Claims. (Cl. 211—16.)



1. A towel-holding device, comprising a base, a pair of towel-holding members having their edges contiguous to one another, spring hinges for holding each of said members to said base and for permitting them to swing in different directions, and a second pair of holding members spaced from the first pair and movable toward and away from said first-named pair.

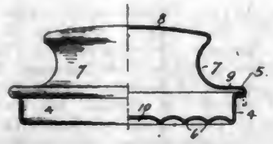
1,663,108. HINGED-DRAG DRAWBAR. FRANK A. BESSMAN, Hubbard, and EMIL WARMBIER, Alden, Iowa. Filed Mar. 25, 1926. Serial No. 97,241. 1 Claim. (Cl. 55—84.)

A draw bar structure comprising a bar, connecting means on said bar whereby devices may be connected to the bar and drawn thereby, said connecting means comprising a band encircling the bar and engaging three sides thereof, the fourth side of the band being substantially spaced from the fourth side of the bar for providing a substantially V-shaped loop, a clamping bolt extending through the sides of the band and engaging



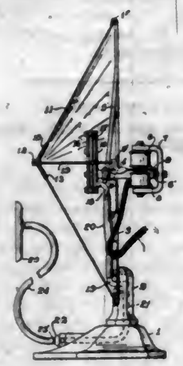
the fourth side of the bar whereby said band may be loosened and moved longitudinally relative to the bar or clamped thereto, the portion of the band extending beyond the bolt serving to prevent distortion of the band when the bolt is tightened.

1,663,109. HAND WASHER FOR CLOTHES. ADDISON B. BRADLEY, Indianapolis, Ind. Filed Feb. 11, 1927. Serial No. 167,449. 1 Claim. (Cl. 68—8.)



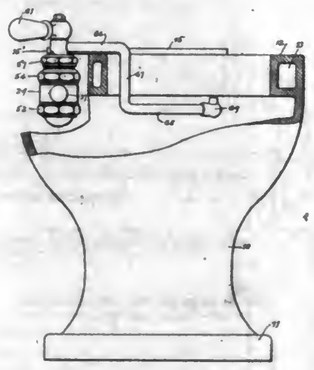
A clothes washer comprising two cup shaped metal members with adjacent rims lock-seamed together, one of said members being formed for convenient grasp and firm hold by the hand of the user and the other member having a rubbing surface with a central depression and a series of corrugations concentric with said depression forming annular ribs extending from the depression to the outside limits of the rubbing surface.

1,663,110. RADIORECEIVER. WILLIAM M. BRUCE, Jr., Springfield, Ohio. Filed Sept. 3, 1925. Serial No. 54,233. 3 Claims. (Cl. 179—116.)



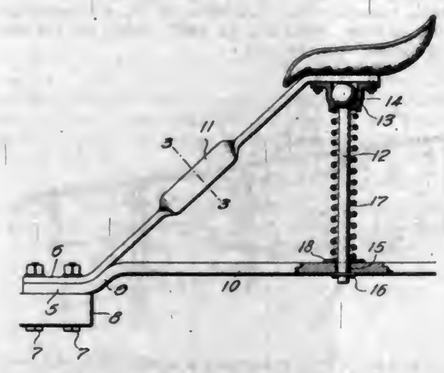
1. In a radio receiving device, a supporting base, audio receiving mechanism supported upon said base, a cone shaped diaphragm of an amplifying character having its apex connected with said mechanism and supported from said base, a sound chamber located on one side of said diaphragm, and a conduit leading from said sound chamber to a connector carried by said base, said connector being arranged to receive the tube of an ear reception member.

1,663,111. LAVATORY. CESARE C. CAMPUS, Santa Monica, Calif. Filed Aug. 25, 1925. Serial No. 52,357. 7 Claims. (Cl. 4—7.)



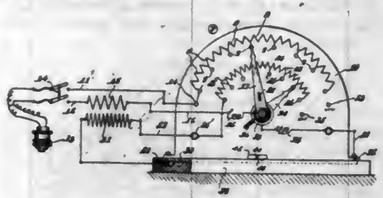
1. In an apparatus of the class described, a closet bowl having a seat attachment flange at the rear thereof, a support member, means for attaching the support member to the seat attachment flange at the rear of the bowl, a valve carried in the said support member, a delivery pipe connected to the said valve to extend into the said bowl to be movable horizontally at the top of the same from a position in which the free end of the delivery pipe lies beneath the rim of the bowl to a position for use in which the free end of the delivery pipe lies approximately centrally of the bowl, and means for moving the delivery pipe from its non-use position to its position for use and vice versa.

1,663,112. TRACTOR SEAT. AMOS B. CASLOW, Elizabethtown, Pa. Filed Aug. 17, 1926. Serial No. 129,715. 2 Claims. (Cl. 155—51.)



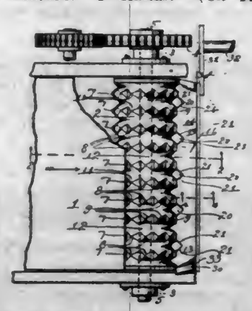
1. A support for seats of the nature indicated comprising top and bottom spring bars having a common anchorage and angularly disposed floated portions, the bottom bar having an offset constituting an abutment for defining the angle between the bars, the top bar having horizontally disposed flat ends and having a vertically disposed spring panel between its flat ends, a spring interposed between the free ends of the top and bottom bars, and a pin connected at one end to one of the bars for universal movement and at the other end to the other of the bars for sliding movement through it, substantially as described.

1,663,113. ELECTRIC SOLDERING DEVICE. SIDNEY CLAYTON, Chicago, Ill. Filed May 18, 1925. Serial No. 30,944. 2 Claims. (Cl. 219—22.)



1. An electric soldering device having, in combination, a primary circuit; a rheostat incorporated therein; a secondary circuit; a rheostat incorporated in the secondary circuit; and a work plate comprising an electrical conductor for holding work thereon and imparting its current thereto inserted in the secondary circuit, substantially as described.

1,663,114. FODDER CUTTER AND THE LIKE. OSCAR B. CLEMENS, Grand Rapids, Mich. Filed Jan. 15, 1927. Serial No. 161,266. 4 Claims. (Cl. 146—109.)



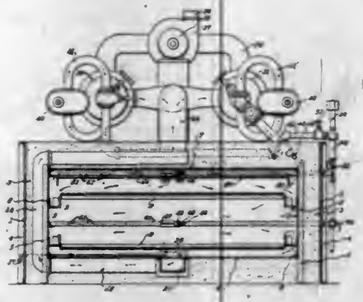
2. In mechanism of the character described: a rotatable feeding element having a plurality of axially spaced series of angularly spaced radially extending work-engaging members, the adjacent sides of adjacent series being outwardly inclined from each other and the forward surfaces of said members being outwardly and rearwardly inclined relatively to the intersecting radii respectively of said element; an element having an edge adjacent said feeding element provided with a serration comprising recesses having sides inclined from each other toward said edge and cooperating with the sides of said series to compress between said elements the work in its feeding movement, the recesses having bottoms spaced farther from the outer extremities of said members cooperating therewith than the sides of said members are spaced from the adjacent sides of the recesses.

1,663,115. BAKER'S OVEN. CORRY B. COMSTOCK, New York, N. Y., assignor to Comstock Oven Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 5, 1923. Serial No. 661,064. 27 Claims. (Cl. 107—57.)

2. In a baker's oven, the combination of a chamber, a substantially horizontal support for articles to be baked within the chamber, means for heating the chamber including burners arranged above said support, a stationary baffle arranged between said support and burners and adapted to maintain a body of vapor generated in the baking operation in contact with the articles being baked while shielding said burners from said vapor, and means for relieving the articles being baked from excessive pressure of said vapor by creating a suction downward through the chamber.

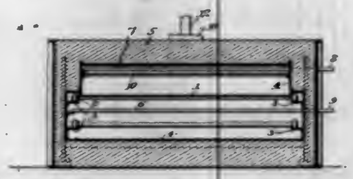
27. In a baker's oven, the combination of a substantially horizontal, elongated, baking chamber, means for

moving articles to be baked longitudinally through the baking chamber, a plurality of burners extending transversely of the baking chamber and spaced apart longitudinally of the chamber to provide a plurality of heating zones, a pilot light adjacent each burner, a thermo-



statically actuated valve controlling supply of fuel to all of the burners of each heating zone, and an independent manually operable valve controlling the supply of fuel to each individual burner, the pilot lights being supplied with fuel independent of said valves.

1,663,116. BAKER'S OVEN. CORRY B. COMSTOCK, New York, N. Y., assignor to Comstock Oven Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1925. Serial No. 48,310. 31 Claims. (Cl. 107—57.)

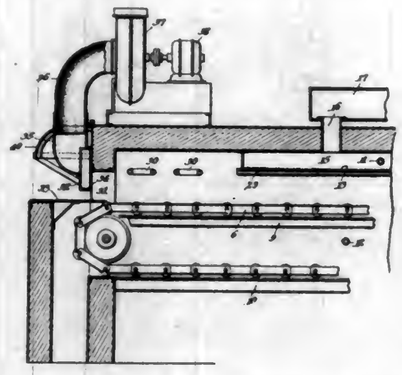


1. In a baker's oven, the combination of a baking chamber, a travelling conveyor for supporting articles to be baked and transporting them through said chamber, and means for heating the chamber, the opposite side walls of the chamber having portions overhanging the edges of the travelling conveyor and reducing the width of the chamber above the conveyor to less than that of the conveyor.

22. The combination with a baker's oven including a baking chamber having a series of vents extending through the top of the chamber to the exterior of the oven, the portions of the body of the oven through which said vents extend immediately surrounding the vents being constructed to offer less resistance to outward pressure from within the baking chamber than other portions of said body, of a common duct or conduit communicating with all the vents.

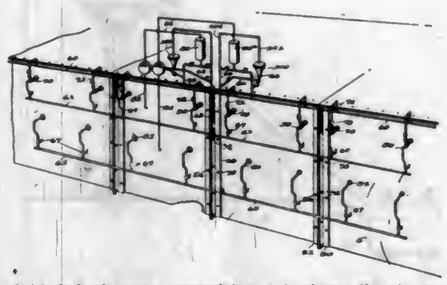
1,663,117. BAKER'S OVEN. CORRY B. COMSTOCK, New York, N. Y., assignor to Comstock Oven Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 16, 1926. Serial No. 88,611. 26 Claims. (Cl. 107—57.)

1. In a baker's oven, the combination of a casing, an endless conveyor mounted to travel substantially horizontally through the casing and support the articles to be baked, means for generating heat to bake articles supported on the conveyor, means for spraying steam upon the articles on the conveyor at points adjacent the receiving end of the casing, a door supported to slide vertically across the feed opening at the receiving end of the casing and provided near its lower edge with a series of steam escape apertures extending substantially throughout the width of the conveyor, a conduit on the exterior of the door and communicating with said apertures, and a fan adapted to draw steam outward from the casing through said apertures and conduit.



20. In a baker's oven, the combination of a casing having an interior substantially horizontal support for articles to be baked, burners positioned respectively above and below said support, means for shielding the articles on the support from the direct action of the upper burners, a plurality of ducts extending transversely of the casing, and each provided within the casing below the horizontal plane of the lower burners with a plurality of inlet openings, means for creating suction through said ducts to draw vapor generated during the baking operation and the products of combustion of the lower burners downward and outward from the oven, and manually adjustable means for varying the area of the inlets of each of said ducts.

1,663,118. BAKER'S OVEN AND MEANS FOR CONTROLLING THE HEATING THEREOF. CORRY B. COMSTOCK, New York, N. Y., assignor to Comstock Oven Company, Inc., New York, N. Y., a Corporation of New York. Filed May 23, 1927. Serial No. 193,538. 15 Claims. (Cl. 107—57.)



3. A baker's oven comprising a horizontally elongated baking chamber formed by a plurality of connected sections arranged end to end and each having sheet metal inner and outer walls and columns or uprights between said walls, one of the sections being immovably secured to the supporting base or floor, and a series of rolls each arranged beneath and supporting one of the columns or uprights of the other sections, whereby the last said sections may move bodily in the direction of the length of the oven relative to said immovable section.

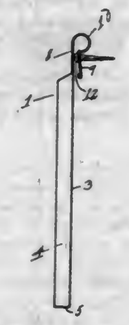
11. In a baker's oven, the combination with a baking chamber, of means for heating the chamber comprising a plurality of burners, a gas supply pipe connected with all of the burners, a thermostatically controlled valve in said supply pipe, whereby the flow of gas to the burners will be varied in accordance with variations in the temperature in the baking chamber, a by-pass connecting portions of the supply pipe at opposite sides of the thermostatically controlled valve, and an automatically acting valve for regulating flow through said by-pass when the thermostatically controlled valve is closed to maintain a uniform pressure of gas in all of the burners.

1,663,119. COATING COMPOSITION AND PROCESS OF MAKING THE SAME. COLE COOLIDGE, Wilmington, Del., and HERBERT E. EASTLACK, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 3, 1925. Serial No. 41,411. 16 Claims. (Cl. 134—54.)

1. A process of regulating the viscosity of a coating composition containing a non-aqueous solution of rubber which comprises adding to said composition a delobbering agent.

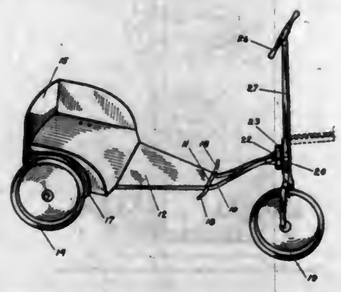
16. A coating composition comprising a solution of rubber, a pigment which ordinarily gives rise to lobbering in a rubber solution, a drying oil and a delobbering agent comprising from .05 to 10% of oleic acid.

1,663,120. PAD HOLDER. CECIL COSPER, Walla Walla, Wash. Filed Apr. 15, 1926. Serial No. 102,155. 2 Claims. (Cl. 45—58.)



1. In a pad holder, the combination with a body portion, of a back extended upward from the holder, the extended portion being provided with screw engaging slots and bent back upon itself to form an apron, said apron being adapted to provide a yielding securing means for said holder.

1,663,121. TOY VEHICLE. BENJAMIN F. DUDEK and ROY J. MANDERY, Lincoln, Nebr. Filed May 10, 1927. Serial No. 190,360. 3 Claims. (Cl. 280—87.5.)



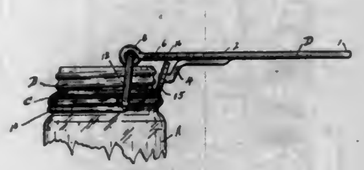
2. A vehicle comprising a frame supported on two rear wheels and a front steering wheel, a wagon box having side walls and one end wall but being open on the end of the wagon box opposite the end wall, means for reversibly positioning said wagon box on said frame with either of its ends directed forwardly, and a handle for controlling said steering wheel, said handle being adapted to be latched in upright position when the vehicle is to be used as a scooter and to be projected either forwardly or rearwardly when the vehicle is to be used as a wagon or as a coaster.

1,663,122. DRAPERY CARRIER. WILLIAM H. EDSALL, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed July 21, 1926. Serial No. 123,830. 1 Claim. (Cl. 156—21.)



In a drapery carrier of the character described, a body having bearings at the opposite edges thereof, a guide lug depending from said body in a plane between said bearings, a plate secured to said body in a plane corresponding to the line of travel of said carrier, a cord loop passage extending transversely through the plate, the edge of said plate being recessed at a point above the lower end of said cord loop therein to form a supporting shoulder for a cord loop.

1,663,123. FRUIT-JAR SEALER. GEORGE A. EVANS, Layton, Utah. Filed Mar. 21, 1927. Serial No. 176,926. 1 Claim. (Cl. 81—15.1.)

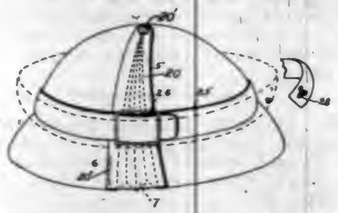


In a device of the class described, the combination of a handle portion made by bending a wire back upon itself and then bifurcating the ends, loops formed in the bifurcated ends, a jar-engaging portion pivoted in said loops and adapted to engage with the top flange of a fruit jar, another member provided on the under side of said handle portion, a roller rotatably mounted thereon adapted to be rolled around the outer edge of a fruit jar cap when the jar-engaging portion is encircling a fruit jar to seal said cap to said rubber and jar.

1,663,124. ADJUSTABLE HAT. PHILIP A. FISCHER, New York, N. Y. Filed Nov. 25, 1922. Serial No. 603,175. 4 Claims. (Cl. 2—175.)

1. An adjustable hat of generally conventional design, having a few closely grouped, pleats in one side thereof, the pleats beginning in the crown of the hat and extending downwardly and outwardly into the brim of the hat the rest of the hat having the usual

smooth outer surface, the pleats gradually widening toward the lower or brim end thereof, means engageable with the hat on opposite sides of the pleats for

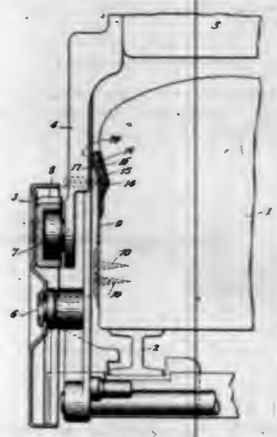


holding the pleats in various positions for varying the head size of the hat, and a covering member for concealing the pleats.

1,663,125. METHOD OF TREATING CALCIUM CYANIDE. PALMER W. GRIFFITH, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Feb. 24, 1926. Serial No. 90,425. 4 Claims. (Cl. 23—79.)

1. A method of increasing the cyanogen content of impure calcium cyanide which comprises agitating the same with an excess of liquid hydrocyanic acid and distilling off the unreacted hydrocyanic acid.

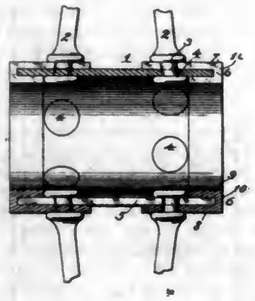
1,663,126. CAR-SEAT CONSTRUCTION. CONRAD T. HANSEN, Detroit, Mich., assignor to The American Motor Body Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 21, 1923. Serial No. 675,984. 2 Claims. (Cl. 155—188.)



1. A car seat closure adapted to close a crevice between a seat cushion and an end plate of a car seat, said closure comprising a part to be firmly affixed to the structural portion of said cushion, a second part pivoted to said first part, a spring co-operating with both of said parts to normally hold said second part in horizontal position, and a covering for said pivoted part, said covering arranged to extend over the junction of said two parts to prevent clothing or other articles from engaging said spring or from being pinched by reason of the pivoting of the said second part on said first part.

1,663,127. WHEEL HUB. JOSEPH L. HECHT, Davenport, Iowa, assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa, a Corporation of Iowa. Filed May 26, 1922. Serial No. 563,808. 7 Claims. (Cl. 301—74.)

1. In combination with a hub shell, spokes fastened thereto and formed on their inner ends inside the shell with fastening heads projecting beyond the interior surface of the shell, and a comparatively narrow sleeve

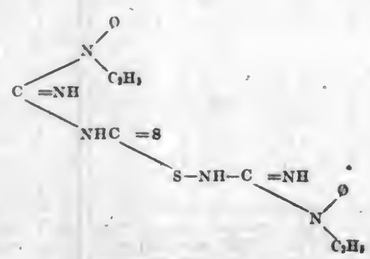


seated in the hub shell between the end of the same and said spoke heads and serving as a bearing for a box or axle.

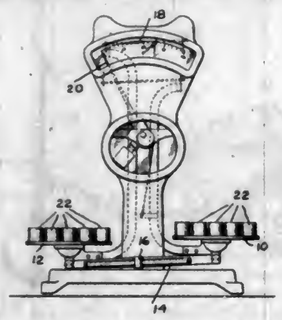
1,663,128. GUANIDINE COMPOUND. RALPH V. HEUSER, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Apr. 24, 1926. Serial No. 104,476. 8 Claims. (Cl. 260—125.)

1. A composition of matter comprising the oxidized product of the reaction between a substituted guanidine having at least one unsubstituted amino hydrogen and carbon disulphide.

8. A composition of matter comprising diethyl-diphenyl-diguany-carbodisulphide having most probably the following structural formula where Ø indicates a phenyl group:

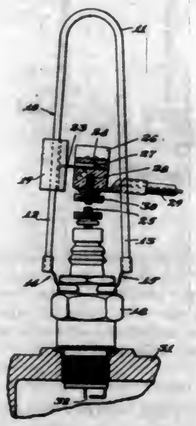


1,663,129. WEIGHING METHOD. JOSEPH HOPKINSON, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Feb. 19, 1926, Serial No. 89,260, and in Germany Oct. 23, 1925. 3 Claims. (Cl. 265—61.)



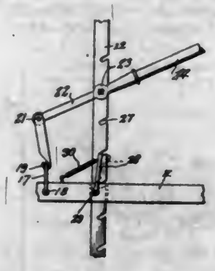
1. The method of apportioning equal parts by weight of a commodity into a plurality of unequal weight containers, which consists of first placing a plurality of empty containers upon each platform of an even balance automatic scale, and then filling single containers on each platform alternately while gauging each filling operation by an observed displacement of the scale indicator which is equal for successive filling operations.

1,663,130. IGNITION TESTER. HERBERT HOUGHTON, Los Angeles, Calif. Filed Jan. 13, 1925. Serial No. 2,094. 3 Claims. (Cl. 175—183.)



3. A spark plug tester comprising a standard having a limb of stiff wire, means forming a readily detachable physical connection between the standard and a spark plug and constituting an electrical connection with one of the electrodes thereof, a sleeve of insulating material carried by said limb and capable of free movements both axially and rotationally thereof, and a contact member, carried by said sleeve, having its one end in engagement with said limb and its other end projecting radially through the wall of said sleeve for relation to the other electrode of the spark plug.

1,663,131. SCAFFOLD. FRANK B. JOHNSTON, Roselle Park, N. J., assignor to American Safety Device Company, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1927. Serial No. 170,542. 1 Claim. (Cl. 304—18.)



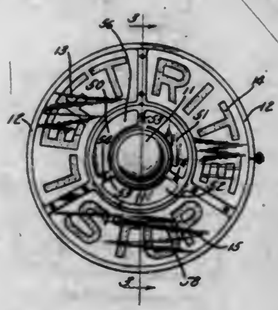
In a scaffold, a platform having a putlog projecting from the edge thereof, a vertical support having inwardly and downwardly inclined notches along one edge, a lever adjustable upwardly on the support, a connection between the lever and the putlog for elevating the latter, a loop pivoted upon the putlog, and a spring disposed between the putlog and the loop for normally urging the latter against the edge of the support and moving the loop into a registering notch as the putlog is elevated by the lever.

1,663,132. SCOURING DEVICE. RUSSELL B. KINGMAN, Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a Corporation of Rhode Island. Filed Jan. 21, 1925. Serial No. 3,740. 2 Claims. (Cl. 15—209.)



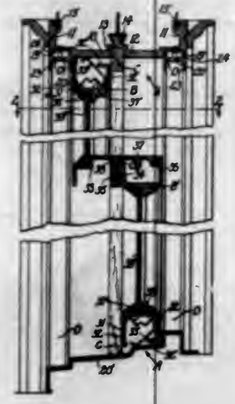
1. A scouring device, comprising a center core comprising a readily deformable elastic body, an abrasive cover engaged upon and around said core so as to be backed thereby said cover consisting in a metallic fabric knitted from flat ribbon-like wire to produce a multiplicity of scraping elements, and means to secure said cover relative to said core.

1,663,133. SAFETY SIGNAL. MORRIS P. KIRK, Los Angeles, Calif. Filed Nov. 24, 1923. Serial No. 676,834. 3 Claims. (Cl. 177—329.)



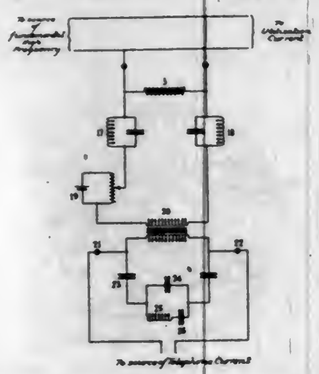
1. In a vehicle safety signal, the combination of: a colored bull's-eye adapted to be constantly illuminated; a housing for said bull's-eye; means for illuminating said bull's-eye; signal segments of transparent material radially extended outward from said bull's-eye, said segments having direction indicia carried thereby; sub-central lights whereby said segments may be separately illuminated; means for confining the rays of said sub-central lights to the proper segments; and a transparent pane of a color contrasting with that of the bull's-eye disposed between each of the adjacent segments and said bull's-eye, and adapted to be illuminated with its adjacent signal segment by the same sub-central light illuminating said adjacent signal segment so as to cause a contrasting series of color impressions to be produced in a given direction from the bull's-eye.

1,663,134. METAL WINDOW CONSTRUCTION. ALFRED M. LANE, St. Louis, Mo. Filed July 16, 1925. Serial No. 43,902. 15 Claims. (Cl. 189—67.)



1. A metal window framing member of substantially channel-shaped section, the web of the channel being formed with a longitudinal recess and an undercut rib and the flanges thereof being formed with undercut grooves.

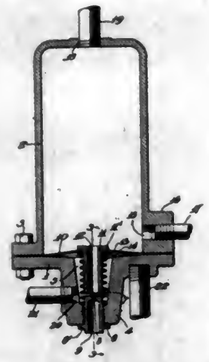
1,663,135. STATIC FREQUENCY MULTIPLIER AND MODULATOR. MARIUS LATOUR, Paris, France, assignor to Latour Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Nov. 20, 1923, Serial No. 675,832, and in France Dec. 9, 1922. 6 Claims. (Cl. 179—171.)



4. A system for producing modulated high frequency current comprising a source of moderately high frequency current, a source of low frequency current; a source of direct current; a coil receiving said high frequency current, said low frequency current and said direct current; and a core for said coil adapted to be magnetically saturated by said currents.

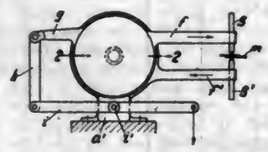
1,663,136. RETARDING VALVE FOR AUTOMATIC SPRINKLER SYSTEMS. LEROY M. LEWIS, Ardmore, Pa., assignor to Central Automatic Sprinkler Company, Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 29, 1926. Serial No. 105,345. 7 Claims. (Cl. 169—23.)

1. A retarding valve for automatic sprinkler systems comprising a dome having an inlet adjacent its lower end and an outlet adjacent its upper end, a flexible diaphragm extended across the lower end of the dome, a valve chamber beneath the diaphragm, a valve movable with the diaphragm and having a passage extending from the interior of the dome to the interior of the valve chamber, a seat adapted to close said passage when



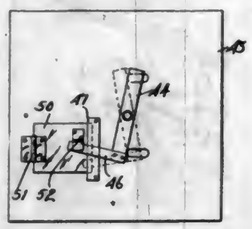
engaged by the valve, a restricted orifice leading from the valve chamber adapted to drain water from the dome irrespective of the position of the valve, a discharge port leading from the valve chamber, and yielding means tending to flex the diaphragm so as to normally hold the valve out of contact with said seat.

1,663,137. ELECTRIC SPOT-WELDING MACHINE. RICHARD MACK, Berlin-Tempelhof, Germany. Filed Feb. 20, 1925, Serial No. 10,512, and in Germany Feb. 28, 1924. 6 Claims. (Cl. 219—4.)



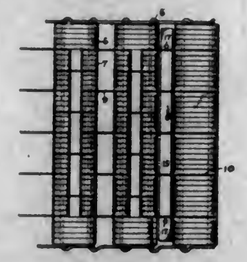
2. Electric welding machine, comprising a transformer with a primary and a secondary winding, two cups movable relatively to each other and enclosing the primary winding and the laminations of the said transformer, said cups forming the secondary winding of the transformer.

1,663,138. SWITCH-OPERATING MECHANISM. CHARLES F. PARKER, San Francisco, Calif., assignor to Western Safety Manufacturing Company, Inc., a Corporation of California. Filed Jan. 28, 1924. Serial No. 688,903. 1 Claim. (Cl. 200—50.)



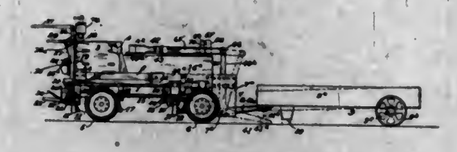
Switch operating mechanism comprising a casing, a cover plate for said casing, a pair of electric switches having insulating bases mounted in said casing and levers for operating said switches, a pivoted bar mounted on said cover plate and adapted to bear on said levers—whereby the closing of one switch will open the other, but the movement of said pivoted bar independently will operate but one of said switches at a time, a hinged door in said cover plate, a lug on said door adapted to be engaged by an arm on said pivoted bar to lock said door when one of said switches is closed, and means to operate said pivoted bar independently of said switch levers.

1,663,139. MATTING. WILLIAM J. REILLY, deceased, Brooklyn, N. Y., by Helen Reilly, administratrix, New York, N. Y. Filed Apr. 9, 1926. Serial No. 100,998. 1 Claim. (Cl. 20—78.)



In a mat of the class described, a row of end links of leather connected by a rod, another row of links separated therefrom by a space, metal links intervening said leather links, and a rod in said space positioned by said metal links.

1,663,140. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 31, 1924. Serial No. 759,026. 19 Claims. (Cl. 280—33.1.)



1. In apparatus of the class described, the combination of a truck frame, supporting wheels therefor, means for driving certain of said wheels, a combined connecting and lifting device pivotally mounted at the rear end of said frame and having an outwardly extending arm adapted to be projected into lifting relationship with a trailer and an upwardly extending arm, and means connected to the latter arm for swinging said device to lift said trailer and to connect it and said frame together.

1,663,141. SOLDERING MATERIAL. SAMUEL RUBEN, New York, N. Y. Filed Oct. 1, 1926. Serial No. 139,021. 2 Claims. (Cl. 75—1.)

1. A solder compound of substantially lead 34%, tin 34%, zinc 31% and magnesium 1%.

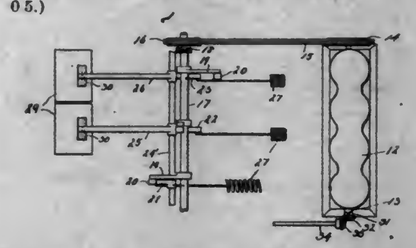
1,663,142. FRICTION-RETAINED CLOSURE. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Feb. 25, 1925. Serial No. 11,433. 10 Claims. (Cl. 215—38.)

1. In a closure cap; a skirt comprising a pair of annular zones spun inwardly to form container grasping means, each of said zones being corrugated to adapt it for expansion to size it to the individual container



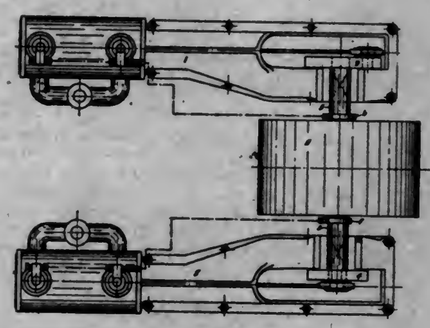
to which the closure may be applied; and a connecting band between said zones, said band being adapted to be deformed when the closure is applied to a container.

1,663,143. SPRING-POWER MARINE PROPULSION DEVICE. LOUIS SHER, Philadelphia, Pa. Filed Nov. 22, 1927. Serial No. 234,984. 2 Claims. (Cl. 115—0 5.)



1. A spring power marine propulsion device comprising, in combination, a hull having after portions spaced apart, a pair of parallel transverse shafts between the spaced hull portions, standards independently rotatable on one shaft, levers carried by said standards, springs to actuate said standards in one direction through the levers, blades hinged to the outer free ends of the standards to present flat surfaces to the water when moving astern and to feather when moving forward, radial arms fixed to the other shaft at different angles for co-operation with the levers to successively actuate the blade standards in the other direction and placing the springs under tension, an air propeller at the stern, and means to actuate selectively the blades and air propeller.

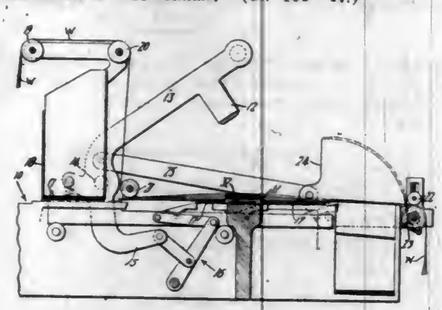
1,663,144. ENGINE. ALLAN D. SKINNER, Erie, Pa., assignor to Skinner Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 4, 1921. Serial No. 489,727. 5 Claims. (Cl. 60—97.)



1. In an engine, the combination of a crank shaft; two cranks on the shaft; two eccentrics, one eccentric having operative relation with one crank and the other eccentric having operative relation with the other crank; a carrier for the eccentrics; two governors, one for each eccentric, each governor comprising a weighted arm on which an eccentric is rigidly mounted, a shaft on which the arm is fixed, and bearings for the shafts in

the carrier; and connections between the shafts compelling equal responses by the eccentrics, said connections being at the opposite sides of the bearings from the governor arms.

1,663,145. MANIFOLD-WEB-PRINTING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 29, 1926. Serial No. 119,279. 15 Claims. (Cl. 101—47.)



1. In a manifold-web-printing machine, in combination, a printing bed over which may be passed a multiple-ply longitudinally-fan-folded work-web having a plurality of carbons interleaved therewith, a plate mounted at each side of said web, and a pair of diagonal guides arranged on each of said plates, one guide of each pair being positioned in front of said printing bed and the other in the rear of said printing bed, each pair of said guides being disposed to extend inwardly between two adjoining superposed plies of said work-web for turning one of said carbons which may enter between said workplies at right angles to the same in the opposite direction of the movement of said work-web and thence away from said work-web at right angles and on the same side from which the carbon entered said work plies.

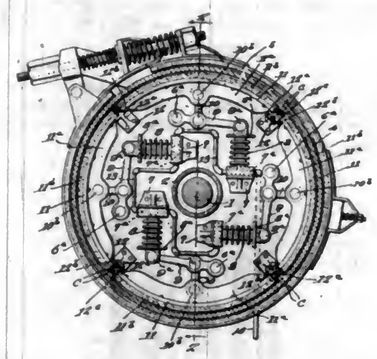
1,663,146. MUSICAL INSTRUMENT. JOSEPH C. SOCIN, Brooklyn, N. Y. Filed Sept. 5, 1925. Serial No. 54,599. 11 Claims. (Cl. 84—404.)



10. In a device of the character described, a plurality of tongues of different lengths mounted upon a sounding box, a key for vibrating each tongue, each key having a lever pivoted thereon, said levers carrying pickers to strike said tongues in one direction, pivoted levers above said tongues to prevent the same from being struck by said pickers as they move in the opposite direction, and means for adjusting the positions of said levers on said keys.

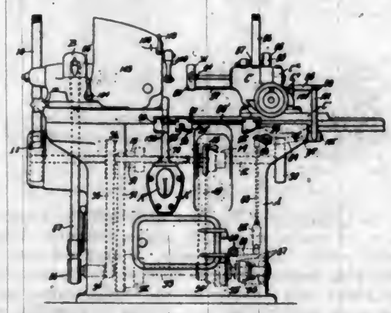
1,663,147. HYDRAULIC BRAKE. CHESTER A. SPOTZ, Greenwich, Conn. Filed Apr. 16, 1926. Serial No. 102,563. 1 Claim. (Cl. 188—152.)

In a brake mechanism for motor vehicles, a brake drum and axle housing, a disc member carried by the housing and closing the open side of the drum, a plurality of arc-shaped radially movable brake shoes within the drum, brackets mounted on said disc between said shoes, said brackets being adapted to guide said shoes and to limit their inward movement, plates removably mounted one on each bracket to normally hold the shoes against axial movement in the drum, a plurality of expansible metal bellows carried by said disc, one for each shoe, a plurality of levers each mounted at one of its ends on a fixed pivot



on said disc, and each connected at its other end to one of said bellows, a plurality of links each swivelly connected at one end to an intermediate portion of a lever and swivelly connected at the other end to a shoe, said bellows being connected in series so as to be simultaneously operable by fluid pressure.

1,663,148. GRINDING MACHINE. PAUL STONER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1920. Serial No. 424,898. 29 Claims. (Cl. 51—95.)



1. In an abrading machine, a carriage, gearing to reciprocate the same, a control lever for said gearing, a yieldable plug extending upward from said lever, dogs on the carriage adapted to engage the plug and swing the lever from side to side, said lever being also swingable toward and from the carriage, and said dog having a beveled face adapted to ride over the plug in one position of the lever without moving the lever, substantially as set forth.

1,663,149. ADJUSTABLE BACK REST FOR BABY CARRIAGES. FREDERICK D. TRYON, New York, N. Y. Filed Apr. 22, 1927. Serial No. 185,750. 1 Claim. (Cl. 280—47.)

A baby carriage comprising a body, a bedding supporting floor in the body, an inwardly extensible and adjustable back rest hingedly supported on the front wall

of the carriage and maintained in normal position thereon by the bedding and a foldable brace on the back rest

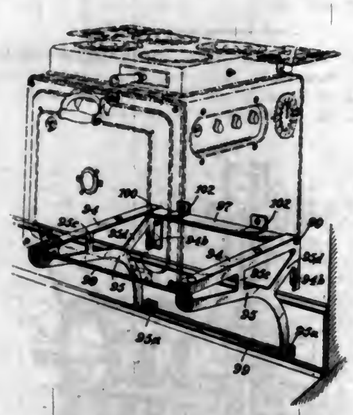


cooperating with the front wall of the carriage to maintain the said back rest in an inclined position and resting on the bedding when the said back rest is extended.

1,663,150. ALUMINUM-BASE ALLOY. ROBERT S. ARCHER, Cleveland, Ohio, assignor to Aluminum Company of America, a Corporation of Pennsylvania. Filed June 30, 1925. Serial No. 40,702. 7 Claims. (Cl. 75—1.)

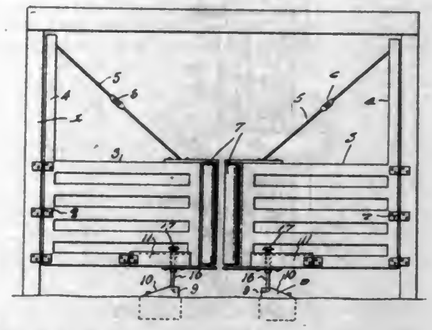
1. An aluminum base alloy containing from about 3 to 15 per cent silicon with more than about 0.8 per cent iron, and more than about 0.05 per cent of a metal of the sixth group of the periodic system having an atomic weight less than 190.

1,663,151. STOVE. CHARLES C. ARMSTRONG, Huntington, W. Va. Filed Oct. 2, 1926. Serial No. 139,154. 2 Claims. (Cl. 248—30.)



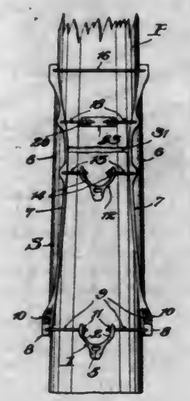
1. A bracket for supporting a cooking stove or the like from the wall and adapted to leave clear floor space beneath, said bracket being composed of two side members connected together, each side member having a horizontal arm of angle iron-like form in cross section, each of which arms has a downward extension at its rear end of right angular form in cross section to bear on the wall, each side member having also an inclined arm extending from the front end of the horizontal arm rearwardly and downwardly to a point below the end of said downward extension, said inclined arms having each a bearing at its lower end in advance of the vertical plane in which the rear face of the said downward extension lies, to rest against the face of the base board and means for securing the bracket to the wall and to the base board, substantially as described.

1,663,152. GATE LATCH. HENRY R. BARTH, Content, Mont. Filed May 25, 1926. Serial No. 111,590. 1 Claim. (Cl. 292—93.)



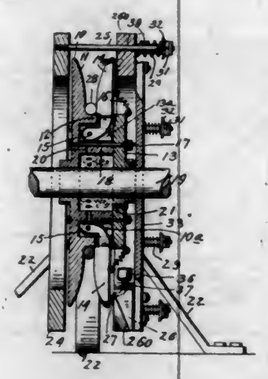
In combination, a keeper in a gate way, a horizontally swingable gate, a horizontally swingable chambered unlatching member hingedly connected at one end to the gate and arranged at one side of the gate and offering an abutment to an approaching automobile, an upright sleeve carried by the gate, a tube carried by said sleeve and having an upright portion in parallelism to the sleeve and also having a lateral portion, an upright latching bolt movable rectilinearly in said sleeve and having a horizontally disposed head above the sleeve, a plunger connected to the unlatching member and arranged therein and disposed and movable in the lateral portion of said tube, an upright plunger arranged in the upright portion of the tube and arranged when raised to act against said head and raise said latching bolt, and anti-friction units in the tube and interposed between the plunger on the swingable member and the upright plunger.

1,663,153. POLE-SUPPORTING DEVICE. ALBERT W. BENSLEY, Pawtucket, R. I. Filed Sept. 22, 1927. Serial No. 221,307. 7 Claims. (Cl. 20—100.)



5. In a device of the type set forth connecting means formed to engage a stub and a pole, means to secure the connecting means to the pole, ground engaging means formed to be driven into the ground from above the surface thereof, and means to secure the ground engaging means to the connecting means.

1,663,154. PULLEY. JOHN W. BISSETT, Garrison, Pa. Filed Dec. 9, 1924. Serial No. 754,779. 8 Claims. (Cl. 64—40.)

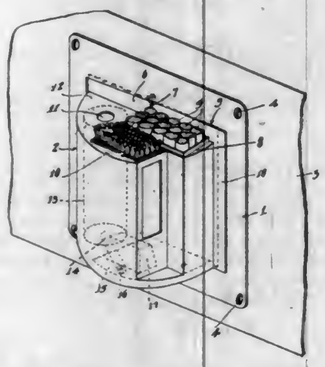


1. A grooved pulley for cooperation with a rope passing partially over the circumference of the pulley, said pulley having laterally movable rope-engaging fingers with surfaces that engage only the rope side, whereby the rope is free to move in a direction radial of the pulley into and out of contact with the circumference thereof, and automatic means to press such fingers against the rope side yieldable outwardly, the movement of the fingers outward depending entirely on the thickness of the rope.

1,663,155. PROCESS FOR THE RECOVERY OF VOLATILE SOLVENTS. JEAN HENRY BRÉGEAT, Paris, France. Filed Aug. 1, 1925, Serial No. 47,648, and in France June 8, 1925. 3 Claims. (Cl. 252—4.)

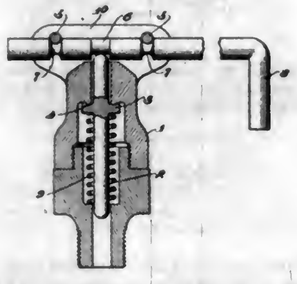
1. A process for the recovery of volatile normally non-gaseous substances carried in gaseous mixtures, which comprises the use as absorbing agents, of hydrogenized terpenes.

1,663,156. HOLDING DEVICE FOR SMOKERS' ARTICLES. CAL V. BROWN, Santa Barbara, Calif. Filed July 17, 1926. Serial No. 123,048. 6 Claims. (Cl. 206—1.)



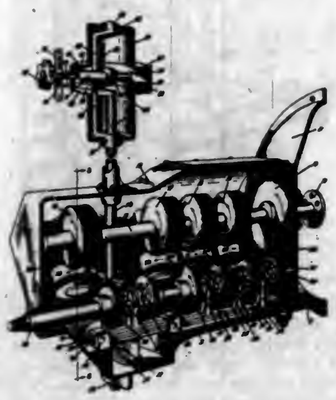
1. In a holding device for smokers' articles, the combination of a supporting member having an opening therein, a holder pivotally mounted in said opening to revolve on a vertical axis located about on the vertical axis of the opening, said holder having a vertical dimension smaller than the vertical dimension of the opening and having one of its side edges at less distance from the axis of rotation of the holder than the vertical edge of said opening whereby the holder is capable of revolving in the opening so as to place the holder in position to expose the articles carried in the holder, and means for stopping the revolving movement of the holder in each direction operating to hold the holder in its open position and in its closed position.

1,663,157. AIR-VENTING VALVE. HAROLD BROWN, Kansas City, and GEORGE RUDOLPH UHL, Tongonoxie, Kans., assignors to The Mid-Continent Equipment and Supply Company, a Corporation of Kansas. Filed July 11, 1925. Serial No. 42,973. 1 Claim. (Cl. 303—80.)



An air brake auxiliary reservoir casing having a guide bore at one end thereof, a piston valve reciprocable in said casing to control the release of air therefrom and having a guide stem longer than and slidable in said bore, a spring in said casing to maintain the piston valve normally closed with the stem thereof normally projecting endwise from said bore, and a rod rotatably mounted on said casing and having a cam part in slidable engagement with the projecting end of said stem and operable by the rotation of said rod to control the opening and closing of said valve.

1,663,158. VARIABLE-SPEED TRANSMISSION MECHANISM. SAMUEL M. DICK, Pasadena, Calif., assignor of one-half to H. H. Ward. Filed Nov. 30, 1925. Serial No. 72,122. 8 Claims. (Cl. 74—59.)



1. In a transmission mechanism, a housing, a drive shaft, a transmission shaft, a plurality of worms on one of said shafts, a plurality of gears on the other of said shafts, a plurality of intermediate elements having worm portions in mesh with said worms and gear portions in mesh with said gears, whereby said drive shaft and said transmission shaft are operatively connected by said worms, gears and intermediate elements, and a plurality of clutch elements for selectively operating one shaft from the other through said connections.

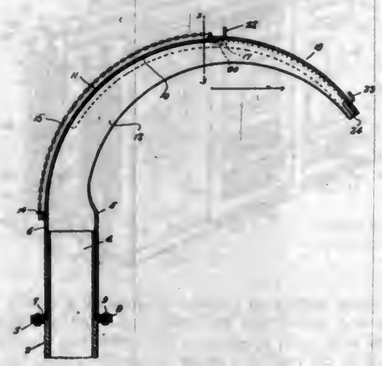
1,663,159. PROCESS FOR PURIFYING AND BLEACHING HEAVY SPAR. KARL EBERS, Ahrensburg, Germany. Filed Dec. 22, 1925, Serial No. 77,132, and in Germany Dec. 24, 1924. 3 Claims. (Cl. 252—8.)

2. Process of purifying and bleaching heavy spar consisting in mixing the ground spar with manganese dioxide and heating this mixture with hydrochloric acid and washing.

1,663,160. COATING AND IMPREGNATING MEDIUM. CARLETON ELLIS, Montclair, N. J. Filed Dec. 7, 1920. Serial No. 428,852. 12 Claims. (Cl. 13—26.)

12. A substantially clear solution of a phenol-sulfur-halide resin, which is not readily soluble in any one of the following, namely, alcoholic bodies including methyl alcohol, ethyl alcohol, denatured alcohol, acetone and higher ketones, methyl acetate, ethyl acetate, benzol, homologues of benzol, chlorbenzol; in a composite solvent which includes at least one of the mentioned solvents.

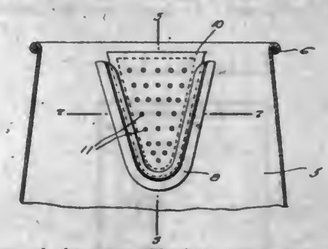
1,663,161. ADJUSTABLE DEFLECTOR FOR SILO FILLERS. WILLIAM C. FABER, Pawpaw, Ill. Filed Feb. 23, 1927. Serial No. 170,275. 2 Claims. (Cl. 193—3.)



1. In combination, a silo filler pipe having a circumferential flange at an intermediate point and also having a tubular portion extending above said flange, a deflector member having a tubular portion surrounding said tubular portion of the filler pipe and flanged at its lower end to bear on the flange of the filler pipe and also having a curvilinear arm with a curved back wall and with skirt flanges extending therefrom, said skirt flanges extending a considerable distance beyond the forward end of said curved wall, an annulus superposed on the flange of said deflector member, and also superposed on the flange of the filler pipe and connected to the latter flange, and a curvilinear extensible member mounted on the said arm of the deflector, and adapted when retracted to permit of ensilage being shot between the forward portions of the skirt flanges of the arm; the said arm of the deflector being provided with side flanges, and the said endwise adjustable curvilinear member being provided with channel portions receiving said flanges of the arm, and the arm being provided with stop means, and the endwise adjustable curvilinear member being provided with means to bring up against said stop means.

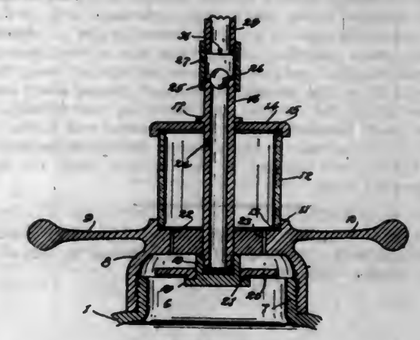
1,663,162. COFFEEPOT. GEORGE L. GESSNER, Toledo, Ohio. Filed Mar. 7, 1927. Serial No. 173,578. 1 Claim. (Cl. 53—3.)

In a coffee pot of the class described, wherein the same is formed with a substantially triangular shaped opening in the side wall thereof adjacent its upper edge, and from which extends a pouring spout; a relatively V-shaped metallic strip secured to the inner face of the wall of the pot and surrounding the triangular opening, the inner edge portion of the strip being bent inwardly and thence laterally to provide a V-shaped offset and a similar shaped retaining flange, the edge of said flange terminating beyond the adjacent side edges of the opening formed in the side edges of the pot, and a triangular shaped plate formed with a series of openings and being curved transversely throughout its length to conform to



the contour of the pot, said plate being of greater dimensions than the triangular openings and being adapted for detachable disposition between the inner wall of the pot and said V-shaped flange, the side edges of the plate engaging the offset portions of the V-shaped strip, the upper edge of the plate extending beyond the upper ends of the V-shaped strip and terminating below the upper edge of the coffee pot.

1,663,163. COMBINATION HUMIDIFIER AND DECARBONIZER. MELVIN EDGAR GILLESPIE, Regina, Saskatchewan, Canada. Filed Dec. 7, 1925, Serial No. 73,781, and in Canada Sept. 22, 1925. 3 Claims. (Cl. 123—25.)



1. A combination humidifier and decarbonizer for attachment to a radiator of an internal combustion engine comprising a demountable radiator cap, a transparent cylinder mounted on the cap and having the ends thereof closed and communicating through suitable openings provided in the cap with the interior of the radiator, and an extending vapor outlet pipe opening to the top of the cylinder, said pipe being cut adjacent the cylinder and having the cut ends detachably connected together and a ball valve normally seated within the pipe.

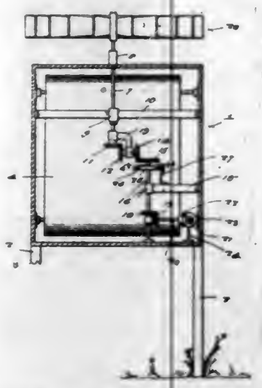
1,663,164. SCREEN FASTENER. AUGUST E. HELMAN, Cleveland, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 9, 1924. Serial No. 685,082. 4 Claims. (Cl. 209—403.)



1. Screen fastening means comprising a U-shaped metal strip enclosing the edge portion of a woven wire screen,

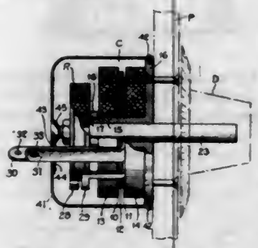
and the legs of said strip being arranged parallel with the screen and having the connecting end bent on a soft, round curve through more than 90 degrees to form a hook portion.

1,663,165. ADVERTISING DEVICE. ALVIN J. HILL and GUY PURNELL, Angleton, Tex. Filed Oct. 9, 1926. Serial No. 140,604. 1 Claim. (Cl. 40—38.)



An advertising device comprising a housing provided at one side thereof with a window pane, upper and lower shafts within the housing, drums on said shafts, an endless advertising band movable over said drums with one of its stretches opposed to said window pane, a horizontally disposed driven shaft, gearing between said driven shaft and the lower of the first named shafts, a vertical driving shaft extending through the top of the housing, a wind wheel on said shaft above and spaced from the housing, a gearing train between said driving shaft and driven shaft for rotating the latter by the former, a brake shaft included in said gearing train and having a notch in its periphery, and a spring detent supported in the housing and adapted to seat in said notch for the purpose set forth.

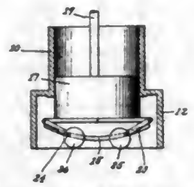
1,663,166. VARIABLE GRID LEAK. LESTER L. JONES, Oradell, N. J. Filed Mar. 16, 1923. Serial No. 625,484. 12 Claims. (Cl. 250—16.)



1. A new article of manufacture comprising a fixed condenser, connecting terminals integral with opposite plates of said condenser, a resistance element and contact means for said resistance element formed integrally with said condenser plates.

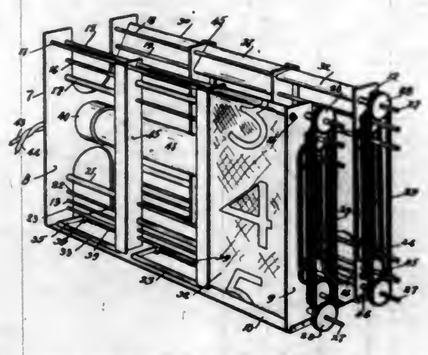
1,663,167. MASSAGE APPARATUS. WALTER KOESTER, New York, N. Y. Filed June 15, 1927. Serial No. 198,901. 3 Claims. (Cl. 128—57.)

1. In a massaging device, a square housing having an annular cylinder integral therewith, the side walls of the housing having downwardly curved channels therein, a plunger reciprocal in said cylinder, rollers pivoted to the plunger and hanging suspended when the plunger



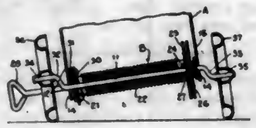
is in lifted position, and means on the end of said rollers registering in said channels for guiding the rollers in a downwardly curved path into contact with the skin.

1,663,168. PRICE-INDICATING MACHINE. DAVID F. MACK, Winnipeg, Manitoba, Canada. Filed July 3, 1926. Serial No. 120,407. 2 Claims. (Cl. 40—95.)



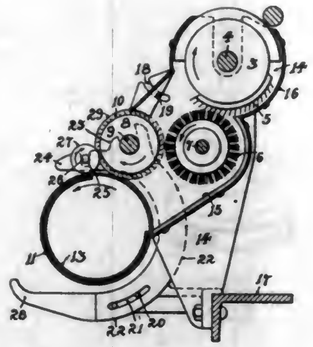
1. A price indicating machine comprising a casing having one end closed and the other open and provided in the sides with sight openings, a removable cap closing the open end of the casing, a frame insertable within the casing through the open end thereof and presenting opposing end plates and a connecting base plate, upper and lower guide members carried by the frame and located in the upper corners of the casing, upper and lower sets of winding shafts rotatably mounted in the end plates, said shafts having their forward ends square and contained within the cap receiving end of the casing, chain wheels secured to the latter ends of the shafts, chains connecting the chain wheels in pairs, winding ribbons arranged side by side and passing over the guides and having their ends secured to the pairs of shafts, said winding ribbons being opaque and having transparent portions appearing thereon and indicating numbers arranged in arithmetical progression throughout the length of the ribbons and a centrally disposed illuminated light carried by one end of the frame.

1,663,169. TOY VEHICLE. LOUIS MARX, Brooklyn, N. Y. Filed Mar. 26, 1927. Serial No. 178,530. 4 Claims. (Cl. 46—48.)



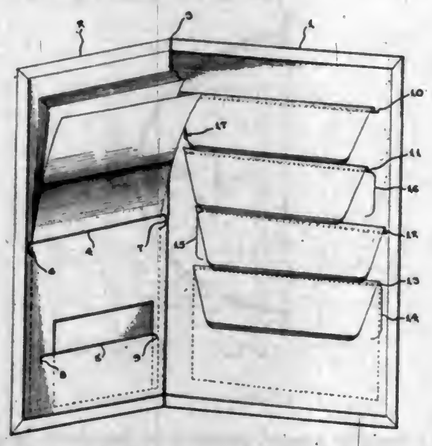
1. A motor driven toy vehicle comprising a vehicle body and means for propelling the same in an erratic manner, said means comprising a drive axle journalled in said body, motor means supported on said body and connected to said axle to drive the same, at least one of the ends of said axle being provided with an integral crank section having a wheel receiving portion offset from the axis of said axle, and wheels loosely mounted at their centers on said axle, one of said wheels being mounted upon the offset portion of the crank end of said axle whereby upon energization of said motor the vehicle may be propelled with a skip and start action combined with a side to side oscillating or rollicking motion.

1,663,170. COMBING MACHINE FOR TEXTILE FIBERS. JOHN WILLIAM NASMITH, Manchester, England. Filed Aug. 1, 1927, Serial No. 209,906, and in Great Britain Apr. 6, 1926. 6 Claims. (Cl. 19—116.)



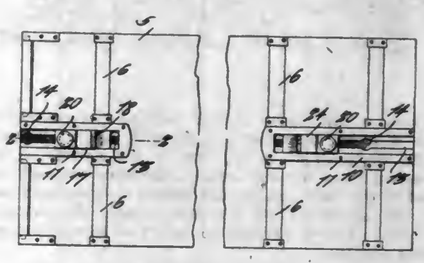
1. In a combing machine in which the combing cylinder is cleared of waste by a brush for the subsequent removal of such waste by means of an aspirator, a doffing roller interposed between the brush and aspirator the said roller having teeth which strip the brush bristles and pass closely adjacent to the aspirator surface; means for rotating the doffing roller; and means supporting the said roller so that it may be bodily adjusted toward and from the brush.

1,663,171. PAPER PORTFOLIO. ARTHUR EDWARD OSBORN, Marion, Ind. Filed Sept. 13, 1927. Serial No. 219,291. 2 Claims. (Cl. 28—31.)



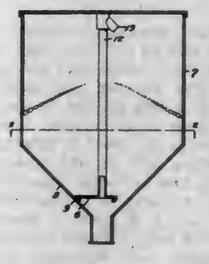
1. A portable paper portfolio having pocket portions on the inside surfaces for receiving and displaying envelopes, blotters and paper, the pocket portions on one side of the portfolio being arranged to receive envelopes, and on the other, paper and blotter, the pockets for the envelopes being provided along one side edge with a slit for allowing easy access to the pockets and, at the same time, function to hold the envelopes in position.

1,663,172. CASKET-RETAINING DEVICE. WILLIAM B. PARSELS, Pleasantville, N. J. Filed Mar. 23, 1927. Serial No. 177,704. 3 Claims. (Cl. 296—18.)



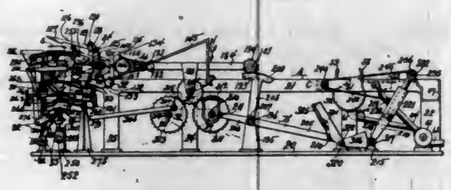
1. In a hearse having a floor with a longitudinally extending groove reduced in width at its bottom, shoulders formed between the wide and narrow portions of the groove, a plate resting on said shoulders, said plate being slotted longitudinally, upstanding flanges at the edge of the plate forming a guide, means for anchoring the plate to the floor of the hearse, a bolt having a shank extending through the slot of the plate and its head slidable in the reduced portion of the groove under the plate, a casket clamp having a base slidable on the plate and guided by the flanges, the said base having an aperture therethrough for the reception of the shank of the bolt, and an element threaded on the bolt for drawing the head of the bolt into engagement with the under surface of the plate.

1,663,173. PROCESS OF AND APPARATUS FOR CONTROLLING THE MOVEMENT OF MASSES OF SOLIDS OF VARIOUS SIZES. LOUIS E. W. PIODA, San Francisco, Calif. Filed Dec. 26, 1923. Serial No. 682,702. 4 Claims. (Cl. 83—46.)



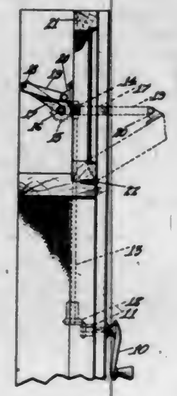
1. The process of controlling the gravital movement of a mass of relatively finely divided solids of various sizes from a container through a discharge outlet in the bottom thereof in which movement pockets of air are entrapped in the mass in the container, which comprises venting the entrapped air from the mass before the air pocket reaches the discharge outlet.

1,663,174. CIGAR-BUNCH-MAKING MACHINE. JOSEPH LEOPOLD POLDY, New York, N. Y. Substitute for application Serial No. 411,175, filed Sept. 18, 1920. This application filed May 17, 1926. Serial No. 109,804. 14 Claims. (Cl. 131—142.)



14. In a cigar bunch making machine the combination of a shaft journaled therein, swinging pressers fastened to the shaft, an oscillating arm in the machine, a pin extending from the arm and a cam with one end fastened to the shaft and its cam surface coacting with said pin, the oscillations of the arm causing the swinging pressers to actuate through the intervention of the intervening elements.

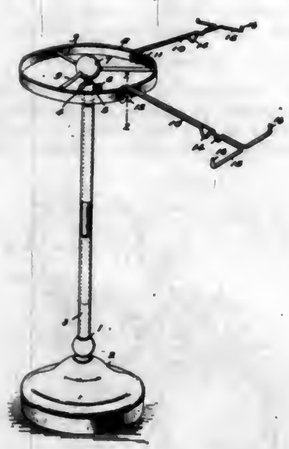
1,663,175. TRANSOM ADJUSTER. WILLIS E. PUTNAM, Worcester, Mass. Filed Apr. 1, 1925. Serial No. 19,984. 1 Claim. (Cl. 268—105.)



In a device for operating a vertical transom pivoted on a horizontal axis at its lower edge, the combination of a horizontal shaft above said axis and at one side thereof, means for rotating said shaft, an arm fixed to the shaft, and a link pivoted to the free end of the arm and to the sash of the transom at a point above the shaft, whereby when the shaft is turned in one direction and the arm turns with it, the sash will swing open on its pivot, the link and arm being arranged to extend substantially in the same horizontal direction when the sash is closed, so as to exert a powerful leverage to close the sash and hold it closed when the link and arm are moved inwardly into horizontal position.

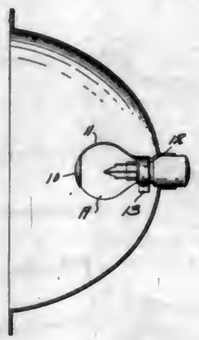
1,663,176. DISPLAY RACK FOR GARMENTS AND THE LIKE. HENRY E. REYHER, Kendallville, Ind. Filed July 8, 1926. Serial No. 121,211. 1 Claim. (Cl. 211—124.)

In a device of the class described, a support including a rim, and a display member outstanding from the rim and including resilient arms which are straight throughout the major portion of their length, the arms being connected at their inner ends by means whereby they are mounted on the rim and held thereon against downward swinging movement, the arms being provided,



adjacent to their outer ends, with approximately V-shaped parts disposed out of alinement with each other and disposed vertically, each arm sliding on the aforesaid part of the other arm, to prevent the arms from becoming crossed on each other, at their outer ends.

1,663,177. HEADLIGHT DIMMER. DREW REYNOLDS, Denver, Colo. Filed Nov. 21, 1925, Serial No. 70,596. Renewed June 6, 1927. 1 Claim. (Cl. 240—48.6.)



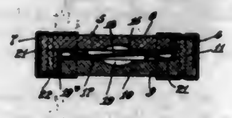
A headlight dimmer comprising an imperforate opaque disk having an integral, thin, rearwardly extending, outwardly bowed, relatively narrow arm adapted to fit longitudinally along an electric light bulb, the arm terminating in an integral split, resilient collar.

1,663,178. PHOTOGRAPHIC SHUTTER. WILLIAM A. RIDDELL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 12, 1923. Serial No. 612,218. 12 Claims. (Cl. 95—63.)



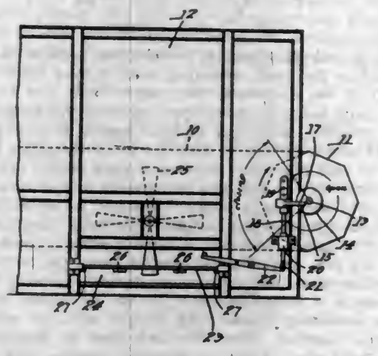
1. In a photographic shutter, the combination with a blade mechanism and a blade actuator, of a master member having an operating engagement with the actuator in one direction and a releasing movement therefrom in a relatively transverse direction.

1,663,179. RENEWABLE FUSE. FREDERICK J. ROTH, New York, N. Y. Filed Sept. 10, 1926. Serial No. 134,725. 4 Claims. (Cl. 200—131.)



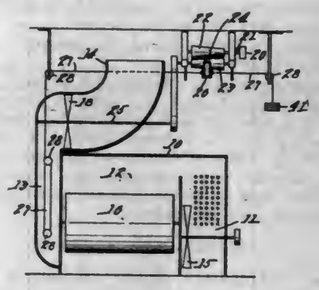
1. A renewable fuse comprising separable body portions, a link positioned between said body portions, end caps for releasably holding said body portions together, and contact springs connecting the link and said end caps.

1,663,180. AUTOMATIC DAMPER-OPERATING DEVICE FOR DRYING MACHINES. FREDERICK G. SARGENT, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1926. Serial No. 130,056. 3 Claims. (Cl. 34—12.)



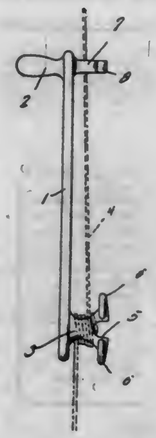
3. In a drier, the combination with an exhaust fan for taking out the moisture laden air and an outlet therefor, of a damper for controlling the opening of said outlet, said damper being arranged normally to remain open, means adapted to engage the damper and close it, and means controlled by the operation of the drier for periodically actuating said means and opening the damper.

1,663,181. EXHAUST-FAN CONTROL FOR DRYING MACHINES. FREDERICK G. SARGENT and FRANK L. FURBUSH, Westford, Mass., assignors to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1926. Serial No. 130,058. 5 Claims. (Cl. 34—12.)



4. The combination with a drying chamber, an exhaust air duct and an exhaust fan for drawing the air out of the air duct, of a variable speed drive for the exhaust fan comprising a belt, a belt shifter for controlling the position of the belt along the variable speed drive, a moisture absorbing cord connected with the belt shifter for moving it along, a series of loose pulleys in the air duct, said cord passing around said pulleys several times so as to be free to come and go as it expands and contracts, one end of the cord having a counterweight thereon for holding that end normally in constant position but capable of moving up and down if the shrinkage of the cord is greater than the traverse of the belt shifter.

1,663,182. LINE-TIGHTENING TOOL. FRANK SEMMLER, West Allis, Wis. Filed May 10, 1927. Serial No. 190,236. 1 Claim. (Cl. 24—71.3.)



As a new product of manufacture, a lever provided at one end and on one side with right angularly disposed winding drum about which a portion of the line is

adapted to be coiled, said drum being formed at its outer end with a notch to facilitate the winding of the line on the drum, retaining flanges formed on said drum adjacent said notch, a keeper at the opposite end of the lever and on the same side thereof, said keeper comprising an angularly disposed extension provided with oppositely extending retaining hooks, and a hand grip at the last named end of the lever and on the opposite side of the latter.

1,663,183. PHTHALIC ANHYDRIDE-GLYCEROL RESINS AND PROCESS OF PREPARING SAME. JOHN H. SCHMIDT, Chicago, Ill., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1924. Serial No. 709,667. 2 Claims. (Cl. 260—8.)

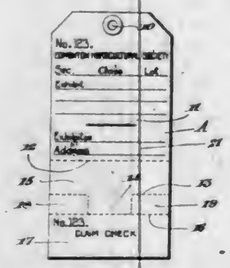
1. Process comprising reacting with phthalic anhydride upon a polyhydric alcohol at a temperature below 175° C. to form a colorless initial condensation product; subjecting said product to prolonged heating at temperatures below that at which a substantial amount of inherent color is formed; and continuing the heating until a hard, tough and infusible product substantially free from inherent color is produced.

1,663,184. RAILROAD GATE. ROBERT D. STOKES, Bristol, Va. Filed Feb. 15, 1927. Serial No. 168,361. 2 Claims. (Cl. 246—125.)



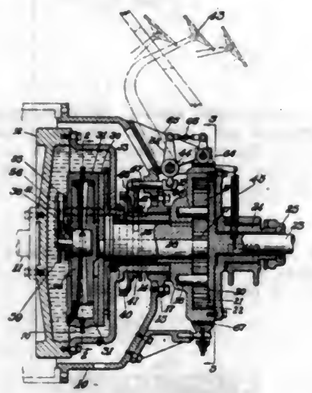
1. The combination with a track and a highway crossing, of a gate shaft supported for rotation, a highway gate carried by the shaft, a reversible motor, a connection between the motor and the gate shaft and including a clutch, spring means for rotating the clutch in one direction to close the gate, and train-actuated means near the track for operating the motor directly and reversely, thereby to tension the spring means and to open the gate when the motor is operated directly, and to render the clutch rotatably responsive to the spring means, thereby to close the gate, when the motor operates reversely.

1,663,185. TAG. WILLIAM EDWARD WEBB and ERNEST PENROSE WILLIAMS, Edmonton, Alberta, Canada. Filed Apr. 1, 1927. Serial No. 180,257. 5 Claims. (Cl. 40—2.)



1. An entry tag of the character described comprising a main panel having a slot therein, a middle panel separated from the main panel by a weakened line, an irregular weakened line spaced from the aforementioned weakened line to provide the middle panel with a tongue, and a weakened line between the tongue and the lower panel whereby on the lower panel being detached and the tongue and middle panel folded the tongue on the middle panel engages with the slot in the main panel.

1,663,186. FLUID CLUTCH AND REVERSE GEAR. ALFRED C. ANDERSON, Worcester, Mass. Filed July 21, 1926. Serial No. 124,073. 10 Claims. (Cl. 74—34.)



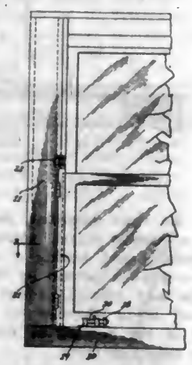
1. In a fluid clutch and speed change gearing, the combination with a driving shaft and a casing for a liquid secured to rotate therewith, of a shaft, cylinders fixed with respect to the last named shaft, cylinders rotatable with said casing, and pistons connected together and working in the cylinders and constituting means for transmitting the motion of rotation to the last named shaft from the first named cylinders.

1,663,187. MULTIPLE TIMER. THOMAS J. BARRETT, Los Angeles, Calif. Filed May 20, 1925. Serial No. 31,575. 1 Claim. (Cl. 200—36.)



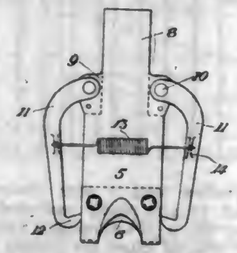
In a multiple timer, in combination with a clockwork including dial and indicating hand carried by a central shaft of the clockwork, the central shaft and therewith the hand being in continuous operative connection with one terminal, indicating members having head pieces disposed on the outside of said dial to contact with the free end of said indicating hand at desired points throughout the circle of the dial and terminating on the rear-side of the dial carrying a contact member in operative connection with a second terminal normally insulated from the first-named terminal, a second contact member having its free end disposed spaced from the free end of the first-named contact member thereby normally forming a gap in a circuit while in direct connection with the said indicating member and thereby with the said first-named terminal when the said hand is disposed over the head piece of said indicating member, and a plug receiving means disposed at a point to bring an inserted plug between the two free ends of said contact members to bridge the said gap on the rear-side of said dial for closing the circuit and at a point adjacent to each of said indicating members.

1,663,188. PIVOTED WINDOW. RUDOLF BENZENBERG, New York, N. Y. Filed July 28, 1927. Serial No. 208,975. 4 Claims. (Cl. 20—42.)



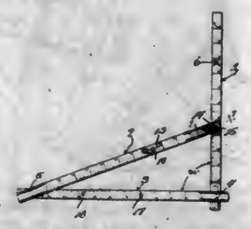
1 In window construction means for pivoting the window sash on the window frame comprising an eyelet on the sash and a slide bolt on the frame adapted to engage said eyelet, and means for normally retaining the sash in vertical position.

1,663,189. CABLE CUTTER. ALFRED BERGSTROM, Vancouver, British Columbia, Canada. Filed Jan. 13, 1927. Serial No. 160,891. 2 Claims. (Cl. 164—47.)



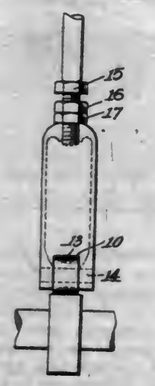
1. In a device for cutting cables the combination comprising, a pair of concavely curved angular edged cutters sliding one against the other, one of said cutters being adapted to slide past the other by hammer blows delivered upon a projection on it, and means for intercepting the reaction of the said blows upon the cutter so that the latter may be in effective contact with a cable during successive blows, the said means comprising claw-like arms in pivotal connection with the said hammer driven cutter engaging corresponding ratchet-racks on the other said cutter.

1,663,190. RULE. WILLIAM F. BOAST, Casper, Wyo. Filed May 21, 1925. Serial No. 31,883. 2 Claims. (Cl. 33—98.)



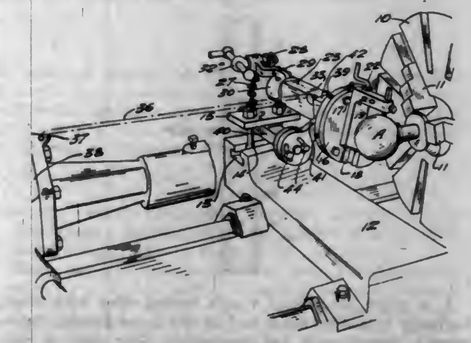
1. An instrument of the class described comprising end and intermediate sections, the end sections being each pivotally connected at one end to a respective end of the intermediate section whereby the sections may be relatively angularly adjusted, one of the end sections having an opening therein and being formed with slits extending radially in opposite directions from the opening whereby to permit of expansion of the opening, and means for holding the sections in a definite position of angular adjustment comprising a stud carried by the other end section and engageable in the said opening and having an entering end of less diameter than the opening, the body of the stud being of a diameter slightly greater than that of the opening whereby to provide for a tight fitting of the stud in the opening to prevent disarrangement of the sections when adjusted.

1,663,191. METHOD OF MAKING VALVE LIFTERS. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 15, 1922. Serial No. 543,952. 4 Claims. (Cl. 29—156.4.)



1. The method of making a valve lifter which consists in drawing a tube or cup from flat stock, elongating the tube so that the body portion thereof will be thin and so that the stock near the open end thereof will be thick, and crimping or pressing in the stock near said open end so as to produce a blank in integral tubular form having a uniform outside diameter with the stock near the open end thicker than the body portion thereof.

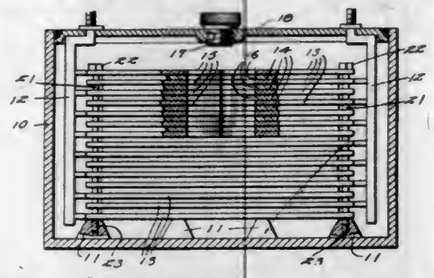
1,663,192. BALL-TURNING ATTACHMENT FOR LATHES. JOHN T. COMPTON, Montgomery, Ala. Filed May 26, 1927. Serial No. 194,433. 3 Claims. (Cl. 82—12.)



1. The combination with a lathe having a rotatable work supporting chuck, of a tool support mounted upon the lathe and including an oscillatably mounted head, the

head oscillating in a plane at right angles to the plane of rotation of the work, a tool holder mounted upon said head for radial movement and carrying a tool at its extremity adapted to engage the work, means for oscillating the head by hand, and means for oscillating the head by power including a plurality of headed studs projecting from the rear face of the head, a longitudinally extending rod having a hook-like member pivotally engaged therewith at one end, the hook-like member being engageable with any one of said studs and the rod being engageable with a movable part of the lathe.

1,663,193. STORAGE BATTERY. FRANK PAUL DANNA, Plaquemine, La., assignor of one-third to Hubert J. Lamson, Plaquemine, La. Continuation of application Serial No. 196,575, filed June 4, 1927. This application filed Aug. 11, 1927. Serial No. 212,306. 3 Claims. (Cl. 136—17.)



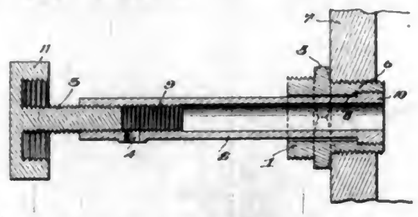
1. In a storage battery, a cell, a plate group comprising positive and negative connection straps extending vertically, horizontally disposed plates carried by said straps and interdigitating in the assembled relation thereof, separators between adjacent faces of the plates, said plates having apertures at the corners thereof and insulated rods extended through said apertures threaded at their lower ends for engagement in the cell bottom and at their upper ends having heads for engagement with the uppermost plate and an electrolyte within the cell and surrounding said plates.

1,663,194. WALL BRUSH. ARTHUR G. DENMAN, Sedan, Kans. Filed Aug. 18, 1927. Serial No. 213,854. 5 Claims. (Cl. 15—198.)



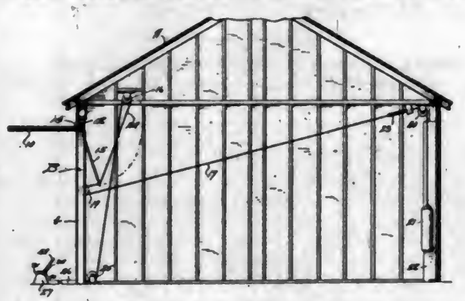
1. A brush comprising a core having sides with longitudinally extending flutes and having bores passing transversely therethrough and opening at their ends in diametrically opposite flutes, and lengths of wire cable mounted in the bores and having their ends projecting beyond the major diameter of the core.

1,663,195. BARREL SPIGOT. MICHAEL FORD, Long Beach, Calif. Filed Nov. 14, 1925. Serial No. 69,160. 5 Claims. (Cl. 221—27.)



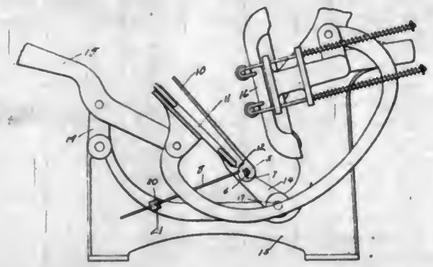
1. A spigot of the class described, comprising an attaching bushing, a tubular spigot member telescopically carried by the bushing and having a lateral discharge port, and a valve member carried by the outer end of the discharge tube and controlling the discharge port, the discharge port being disposed to lie within and closed by a wall of the housing at the inner limit of movement of the spigot member.

1,663,196. DOOR-OPERATING MECHANISM. JOHN R. GIBBONS, Pleasant Ridge, Mich. Filed Apr. 16, 1927. Serial No. 184,822. 8 Claims. (Cl. 268—74.)



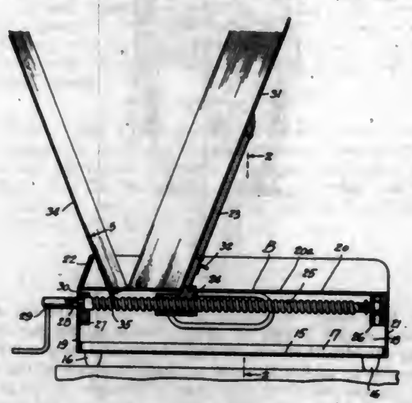
1. The combination with a door pivotally mounted at its upper end, an arm rigidly connected to the door to swing therewith, a counterweight operatively connected to said arm to cause the raising of the door from a vertical position to a horizontal position, a lever operatively connected with the arm to cause the simultaneous lifting of the counterweight and the closing of the door, and means for locking the lever with the door in a closed position against the action of the counterweight.

1,663,197. PRINTING PRESS. CHARLES W. GLASNAPP, Meriden, Conn., assignor to The Kelsey Press Company, Meriden, Conn., a Corporation. Filed Feb. 8, 1927. Serial No. 166,655. 2 Claims. (Cl. 101—408.)



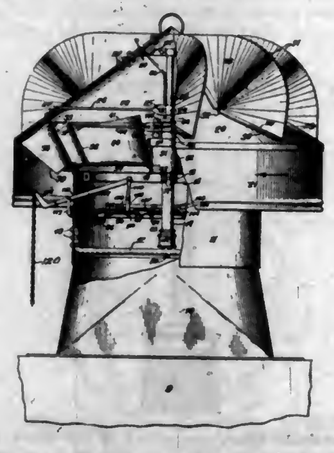
1. In a printing press, the combination with the frame and oscillating platen thereof, of a transversely-arranged gripping-finger shaft carried by the said platen, gripper-fingers mounted upon said shaft, a transverse socket formed in said shaft, a reciprocating spring-arm provided at one end with an offsetting coupling-finger adapted to enter the said socket and to be yieldingly held therein by the tension of the spring-arm, and a bearing mounted upon the said frame for the reception and guidance of the said spring-arm.

1,663,198. POSTING TRAY. CECIL BERNARD HARRISON, Hollywood, Calif., assignor, by mesne assignments, to Bankers Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 24, 1924. Serial No. 751,722. 11 Claims. (Cl. 129—1.)



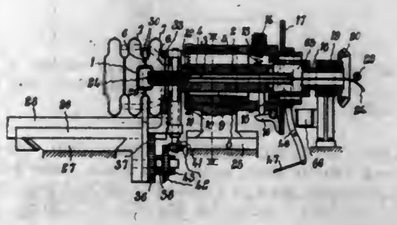
10. A posting tray comprising a base, a member in inclined position on the base to support stacked sheets approximately vertically thereon, a second member supported on and removable from the base, a stationary member on the base, and means for moving the first member on the base toward or away from the other members.

1,663,199. ROTARY VENTILATOR. WILLIAM F. HIRSCHMAN, Buffalo, N. Y. Filed Jan. 3, 1925. Serial No. 348. 4 Claims. (Cl. 98—85.)



8. In a ventilator, a circular vent stack, a plurality of parallel louvers arranged transversely in said stack and conforming at their ends to the shape of said stack, means for pivotally supporting each end of each of said louvers on said stack to swing about a longitudinal axis, the axes of at least two of said louvers being disposed between the longitudinal center line of said louver and the longitudinal inner edge thereof, said louvers being adapted to engage each other and form a closure and to be disengaged and permit air to pass through the stack, and means for swinging said louvers into open, closed or intermediate positions.

1,663,200. RESISTANCE WELDING MACHINE. ANDERS JÖNSSON, Helsingborg, Sweden. Filed Nov. 10, 1926, Serial No. 147,556, and in Sweden Oct. 19, 1925. 12 Claims. (Cl. 219—4.)



1. A machine for electrically welding together metallic radiator sections having connection openings the peripheral edges of which are brought together for welding, comprising a rotatable spindle mounted to revolve eccentrically abont an axis, and an electrode carried by said spindle adapted while rotating, to revolve within the connection openings in contact with the peripheral edges thereof.

1,663,201. PROCESS FOR MAKING BISMUTH TARTRATES AND PRODUCT PRODUCED THEREBY. PHILIP ADOLPH KOBER, Evanston, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a Corporation of Illinois. Filed May 28, 1926. Serial No. 112,398. 17 Claims. (Cl. 260—11.)

1. A process for making bismuth tartrates which consists in treating a basic bismuth compound with an alkali and tartaric acid at not exceeding normal room temperature.

1,663,202. HAIR DYE. WOLF KRITCHEVSKY, Chicago, Ill. Filed Mar. 29, 1926. Serial No. 98,285. 5 Claims. (Cl. 167—9.)

1. A dye and shampoo for hair consisting of soap, ethylene glycol and paraphenylenediamine.

5. A composition of matter consisting of soap, solvents and organic bases of the general formula

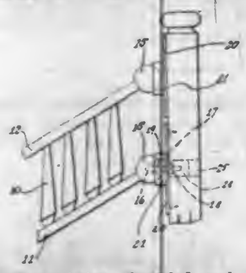


in which C stands for an organic cyclic hydrocarbon, R stands for a hydroxy group, an amino group and their substituted products, and in which the position of two of the R's to each other is such that they are capable of forming a quinoidal structure.

1,663,203. BANISTER-CONSTRUCTION JOINT. FRANK LUIPERSBEK, Boundbrook, N. J. Filed Mar. 5, 1927. Serial No. 172,983. 1 Claim. (Cl. 20—92.)

Means for joining a banister rail with a rigid support comprising a socket having a partly spherical surface mounted on said support, said socket having less than a hemispherical seat, a ball attached to said rail, a shank adapted to pass through said socket, a part of said ball seating on the entire area of said seat, a second and smaller ball rigid with one end of said shank, said second ball being rotatably secured at the center of the first

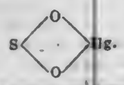
ball, a radial portion of the first ball being cut out between its center and its surface to allow universal movement of the shank with respect to the first ball, the other



end of said shank being threaded and having a nut adapted to be tightened to draw said first ball into said socket.

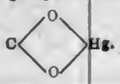
1,663,204. ORGANIC MERCURY COMPOUND. EDWARD LYONS, Detroit Mich., assignor to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 12, 1923. Serial No. 674,387. 12 Claims. (Cl. 260—13.)

1. A new organic mercury compound containing the following group:

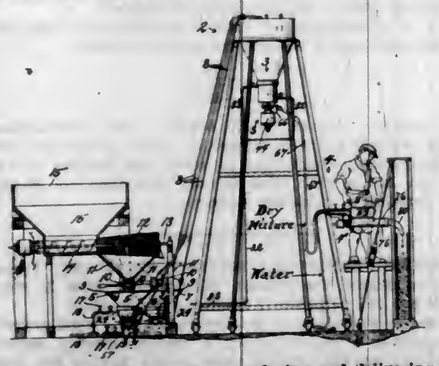


1,663,205. ORGANIC MERCURY COMPOUND. EDWARD LYONS, Detroit Mich., assignor to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 12, 1923. Serial No. 674,388. 7 Claims. (Cl. 260—13.)

1. A new organic mercury compound which is the reaction product of mercuric oxide with an organic compound containing two or more carbonyl groups, said compound containing the mercury directly linked to one or more of the carbonyl groups according to the formula

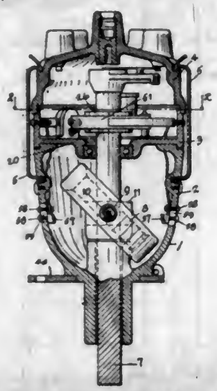


1,663,206. METHOD OF AND MEANS FOR MAKING AND DELIVERING QUANTITATIVE MIXTURES. THOMAS MACRAE, Florence, Ariz. Filed June 25, 1923. Serial No. 647,616. 10 Claims. (Cl. 83—73.)



1. The method set forth of producing and delivering a quantitative mixture which consists of isolating predetermined charges of materials to be mixed, simultaneously spreading such materials under pressure through a common orifice meanwhile spreading the charges to form parallel thin sheets and forcibly impacting said sheets against each other, thus thoroughly mixing the materials, separating the produce into charges and successively delivering such charges to a chamber, then adding water and mixing the product and discharging the mixture to the place where it is to be used.

1,663,207. ENGINE IGNITION SYSTEM. MARION MALLORY, Toledo, Ohio. Filed Dec. 26, 1925. Serial No. 77,807. 3 Claims. (Cl. 123—117.)



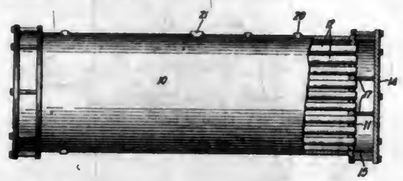
1. In a timer for ignition systems of an internal combustion engine, a pair of circuit closers, a cam for operating the circuit closers, the circuit closers disposed with reference to each other and the cam that one of the circuit closers will close and open in advance of the other of the circuit closers and will open between the closing and opening of the other of the circuit closers, an induction coil having a primary and secondary, the primary coil connected to both circuit closers and the circuit closers connected in parallel in the circuit of the primary coil, a secondary coil located in inductive relation to the primary coil.

1,663,208. BROMOIL BRUSH. EMIL MAYER, Vienna, Austria, assignor to Drem Products Corporation, New York, N. Y., a Corporation of New York. Filed May 23, 1927. Serial No. 193,716. 4 Claims. (Cl. 15—143.)



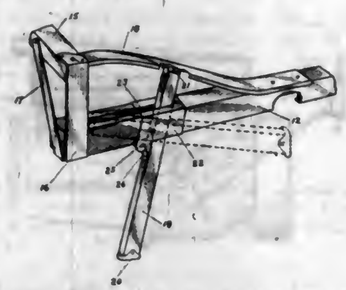
1. A bromoil brush comprising a handhold substantially aligned with the axis of the handle of the brush, and spring means connecting the said hand-hold and said handle, the said hand-hold and the handle being movable with respect to each other, said spring means being sufficiently soft to permit said brush to freely vibrate when the head thereof is pushed against the print to be covered with pigment.

1,663,209. HEAT INTERCHANGER. EDWARD B. MCCABE, Carbondale, Pa., assignor to Carbondale Machine Company, Carbondale, Pa., a Corporation of Pennsylvania. Filed June 3, 1927. Serial No. 196,188. 3 Claims. (Cl. 219—10.)



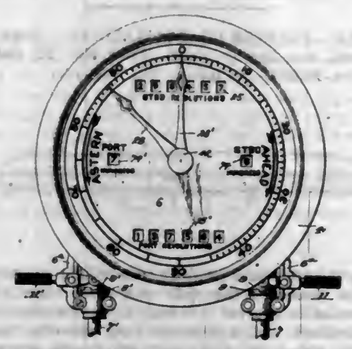
1. A heat interchanger having a tube sheet provided with a groove in the inner surface thereof to form a short cylindrical flange and a shell of substantially the same internal and external diameters as said flange, and butt-welded thereto.

1,663,210. BED LEG. EARL E. MCGREW, Lincoln, Nebr., assignor to McGrew Machine Company, Lincoln, Nebr., a Corporation of Nebraska. Original application filed Sept. 2, 1924, Serial No. 735,513. Divided and this application filed June 11, 1926. Serial No. 115,281. 6 Claims. (Cl. 5—315.)



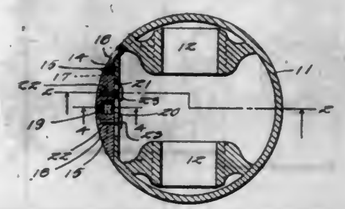
1. In combination with the channel iron side rail of a bed, the open side of the channel iron being the bottom side of the side rail, a box secured to and surrounding said side rail, said box being provided with a pair of depending ears, a leg pivotally connected with said depending ears and normally inclined to the side rail when the leg is in its supporting position, the leg being foldable on its pivot into said channel iron side rail.

1,663,211. LOGOMETER. ALEXANDER MCNAB, Bridgeport, Conn. Filed Sept. 20, 1920. Serial No. 411,502. 3 Claims. (Cl. 235—144.)



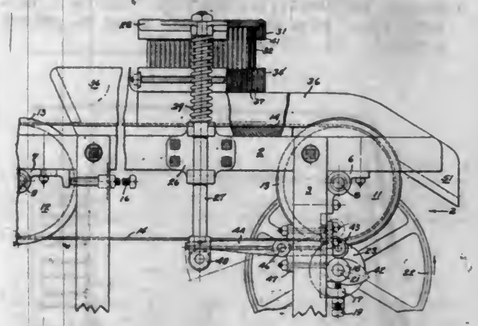
1. In a device of the character described, the combination with two hands independently rotatable about the same axis, of hand setting means including a member rotatable about said axis and movable along said axis to one position for locking said hands together, when brought into coincidence, to permit both hands to be turned together to a desired position, the hands being unlocked from each other by restoration of the handle to its original position along said axis.

1,663,212. PISTON FOR INTERNAL-COMBUSTION ENGINES. ROBERT H. MCQUIDDY, Marshall, Mo. Filed Mar. 23, 1927. Serial No. 177,776. 6 Claims. (Cl. 74—108.)



1. The combination with a piston embodying the usual head and skirt sections and bosses, of chordally extending vertically disposed faces formed upon the piston adjacent to and at opposite sides of a diameter thereof perpendicular to the axis of the piston pin bosses, a wall section slidable transversely of each face, means urging the wall sections apart and means preventing vertical movement of the wall sections upon the faces.

1,663,213. PIERCING MACHINE. ERNST F. MULLER and CARL G. MULLER, Oakland, Calif. Filed Oct. 26, 1925. Serial No. 64,821. 6 Claims. (Cl. 146—56.)

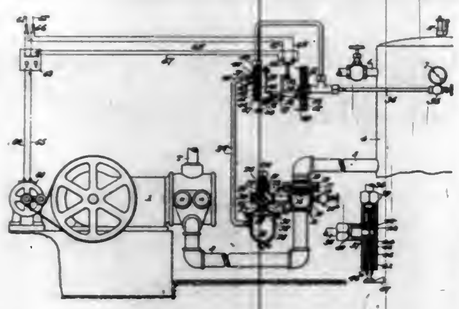


1. A piercing machine comprising a conveyor belt adapted to carry the objects to be pierced, a head arranged for vertical movement above said conveyor, a group of piercing points disposed on the underside of said head, a driving cam engaging said belt during a part of the revolution of the cam, and means operative during the period of no engagement between cam and belt for depressing said head.

1,663,214. COMPRESSOR UNLOADER MECHANISM. FREDERICK A. MULLER, Richmond Hill, and LORENTZ L. BASBERG, Brooklyn, N. Y., assignors to Janet E. Cleary, trading under name of American Air Compressor Works, Brooklyn, N. Y. Filed July 7, 1927. Serial No. 204,113. 11 Claims. (Cl. 230—4.)

1. In a system of air compressor control, a compressor, an air receiver, an air line leading from the compressor to said receiver, a check valve in said line, an outlet

to external atmosphere leading from the control side of said check valve, a normally closed atmospheric valve in said outlet, a relatively small air line leading exteriorly from said receiver to said last named valve for

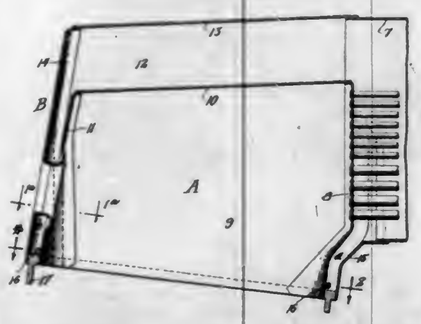


opening the same to unload the compressor when the pressure in the receiver reaches a predetermined high point, and a motor switch controlled by variations in pressure in said relatively small air line to stop and start the motor.

1,663,215. ZINC-BASE ALLOY. WILLIS MCGERALD PEIRCE and EDMUND ARNOLD ANDERSON, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 5, 1927. Serial No. 159,237. 6 Claims. (Cl. 75—1.)

1. A zinc base alloy containing 1 to 15% aluminum, 0.5 to 4% copper, 0.05 to 0.5% magnesium and 0.01 to 0.5% nickel.

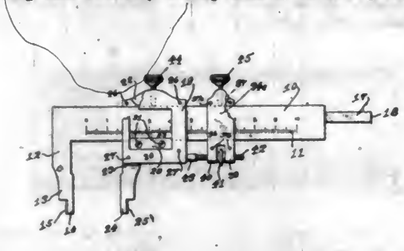
1,663,216. LOCOMOTIVE FIRE BOX. WILLIAM L. REID, Lima, Ohio. Filed Apr. 20, 1923. Serial No. 633,371. 4 Claims. (Cl. 122—58.)



1. A locomotive fire box comprising the usual inside and outside boxes, the corners of the boxes, however, being materially rounded and formed on radii diminishing upwardly, the radius of the outside corners at the bottom being approximately equal to the radius of the inside corners at the bottom and both bottom radii being not less than the distance between side sheets.

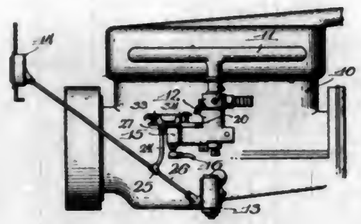
1,663,217. CALIPER AND DEPTH GAUGE. EDWARD J. RYAN, Torrington, Conn. Filed Jan. 19, 1927. Serial No. 162,057. 1 Claim. (Cl. 33—163.)

In a vernier caliper, a graduated bar provided at one end with an integral caliper jaw, a sliding member embracing said bar and carrying a movable caliper jaw, and an auxiliary sliding member embracing said bar, screw means for connecting said sliding members, means for locking said auxiliary sliding member to said graduated



bar, each of said sliding members comprising a pair of side plates, and filler blocks for spacing said side plates apart.

1,663,218. PRESSURE CARBURETOR-CONTROL DEVICE. WILLIAM F. SCHULTZ and LAWRENCE MARCHE, Ripon, Wis. Filed Oct. 18, 1926. Serial No. 142,515. 5 Claims. (Cl. 123—196.)



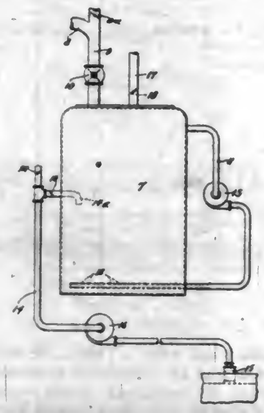
1. A pressure carburetor control device adapted to be applied to the float chamber of the carburetor of an internal combustion engine having a pressure feed or circulating oiling system, comprising means providing a diaphragm chamber, a diaphragm in said chamber, said diaphragm being subjected on one side to the pressure of said oiling system, a spring-controlled lever fulcrum above the other side of said diaphragm, and devices depending from said lever, one engaged with said diaphragm, and one adapted to be engaged against the float valve head in said float chamber to make the opening movement of said float valve dependent upon the movement of said diaphragm.

1,663,219. PLASTER-BOARD WALLING. JOHN SCHUMACHER, Los Angeles, Calif. Filed Mar. 22, 1926. Serial No. 96,653. 2 Claims. (Cl. 72—16.)



1. A plaster board walling, comprising plaster board members placed in the wall with their edges abutting, and formed to provide a trough along the joint between said members, and a covering strip separate from said members placed in said trough after said members are placed in the wall and having its surface formed of a material having the same absorptive properties as the surface of the adjacent plaster board members.

1,663,220. FUEL-CONDITIONING SYSTEM. CARL SCHWARTZ, New Rochelle, N. Y., assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Mar. 11, 1924. Serial No. 698,411. 4 Claims. (Cl. 110—104.)



1. In a pulverized fuel conditioning system, the combination of a source of fuel supply, a point of use, an interposed conditioning vessel having a fuel and air circulator adapted to maintain a mixture of the fuel with the air in the vessel, and a separate air inlet leading from the atmosphere to the conditioning vessel independent of the circulator.

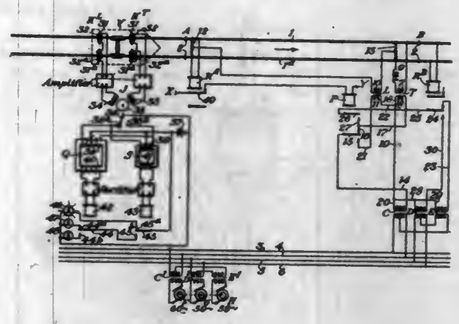
1,663,221. HOCKEY BOOT. PHILIP SCROGGINS, Galt, Ontario, Canada. Filed July 11, 1927, Serial No. 204,973, and in Canada July 2, 1927. 1 Claim. (Cl. 36—71.)



A boot provided with an ankle support secured along its lower edge within the upper; a tongue formed on or secured at its lower end to the upper, secured by one edge to one edge of the front of the ankle support and provided with a strap guide at its opposite edge; a strap secured to the opposite edge of the angle support and passed through the strap guide on the tongue; and a buckle secured to the outside of the upper whereby the strap may be detachably connected therewith, said upper having an opening therethrough for the passage of the strap.

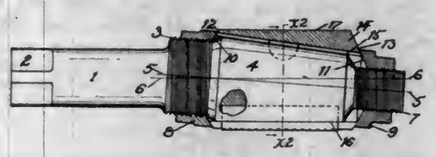
1,663,222. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ANDREW A. SKEEN, Wilkinsburg, and HOWARD A. THOMPSON, Edgewood Borough, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1926. Serial No. 155,844. 14 Claims. (Cl. 246—63.)

1. Railway traffic controlling apparatus comprising means for supplying the trackway with two alternating currents of different frequencies, two train carried receivers separately responsive to such currents, a relay having two windings supplied with energy from the two



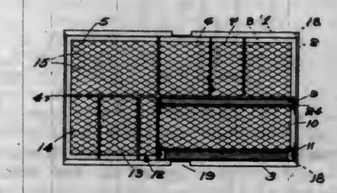
receivers respectively, and governing means controlled by said relay in accordance with the relation between the frequencies of said currents.

1,663,223. ADJUSTABLE REAMER. HJALMAR THOMASON, Los Angeles, Calif., assignor to Shepard-Thomason Co., Los Angeles, Calif., composed of A. M. Shepard and Hjalmar Thomason. Filed June 13, 1921, Serial No. 477,104. Renewed Aug. 22, 1927. 16 Claims. (Cl. 77—75.)



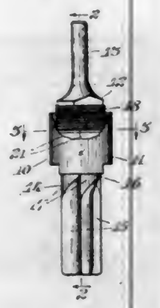
12. An adjustable reamer comprising a cutter; a stock therefor and a sleeve adapted to be mounted on the stock and to provide a support along the side opposite the cutting edge of the cutter, the axis of the stock being oblique to the axis of the sleeve.

1,663,224. BEAUTY CASE. FRANCESCA VAN DER KLEY, New York, N. Y. Filed Feb. 3, 1927. Serial No. 165,620. 4 Claims. (Cl. 220—1.)



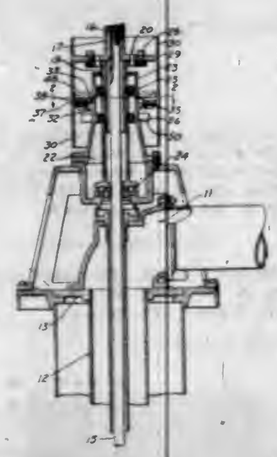
1. A beauty case composed of side walls forming a rectangle, a removable cover, a removable under-bottom, and an over-bottom consisting of perforated material attached to said side walls, positioned above and in contact with said under-bottom for the purpose specified.

1,663,225. TOOL. FRANK J. WIDMAN, Oak Park, Ill. Filed Nov. 17, 1926. Serial No. 148,797. 3 Claims. (Cl. 144—219.)



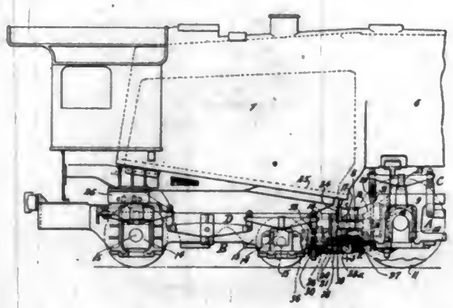
1. In a wood-working tool, the combination with a collar having a constricted opening therein communicating with the bore thereof, complemental cutting elements, each element terminating in an enlarged head complemental to each other in embracing relation with the bore of said collar to abut the constriction therein, and a shank adjustably associated with said collar to retain said complemental cutting elements in rigid relation.

1,663,226. NONREVERSING MEANS FOR PUMP HEADS. JOHN A. WINTROATH, Los Angeles, Calif., assignor to Peerless Pump Company, Los Angeles, Calif., a Corporation of California. Filed May 11, 1926. Serial No. 108,280. 13 Claims. (Cl. 188—81.)



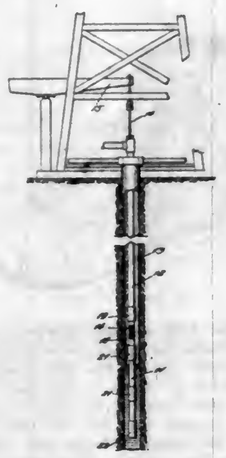
7. In a pump head, the combination of: a stationary part; an annular ratchet carried by said stationary part; a rotatable part having a pulley surrounding said annular ratchet; a riser plate carried between said pulley and said annular ratchet, said riser plate being adapted to rotate with said pulley and to be lifted by windage; and an engager carried by said riser plate adapted to engage said annular ratchet and to prevent a reverse rotation of said rotatable part, said engager being disengaged when said riser plate is lifted.

1,663,227. LOCOMOTIVE EQUALIZING MECHANISM. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed Jan. 2, 1926. Serial No. 78,833. 18 Claims. (Cl. 105—82.)



1. The combination with a main locomotive frame equalizing system and an articulated supplemental frame equalizing system, of equalizing means connecting said systems, and including a movable carrier for said equalizing means operating to maintain said means in a predetermined relation to the supplemental frame equalizing system as the supplemental frame articulates, said carrier being mounted to transmit reacting thrusts of the equalizing systems to the main frame.

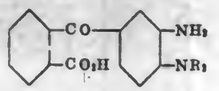
1,663,228. SECTIONAL BARREL FOR OIL-WELL PUMPS. JOHN A. ZUBLIN, Los Angeles, Calif. Filed Feb. 16, 1925. Serial No. 9,673. 4 Claims. (Cl. 74,108.)



1. In combination in an oil well pump, a working barrel comprising: a plurality of sections, said sections having sleeve portions at each end thereof and having male thread formations adjacent to said sleeve portions; and collars for holding adjacent sections together, each of said collars having a central cylindrical portion into which sleeve portions of adjacent sections extend and female thread formations into which male thread formations of adjacent sections thread, engagement between said male and female portions holding the ends of said adjacent sections in abutting relationship.

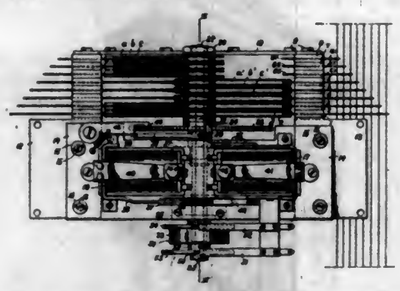
1,663,229. 3,4 DIAMINO BENZOYL O-BENZOIC ACIDS AND PROCESS OF MAKING THE SAME. ROGER ADAMS and JAMES MEYER DAVIDSON, Urbana, Ill., and IVAN GUBELMANN, South Milwaukee, Wis., assignors to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed Sept. 13, 1926. Serial No. 135,293. 3 Claims. (Cl. 260—64.)

1. As new articles of manufacture, compounds of the general formula—



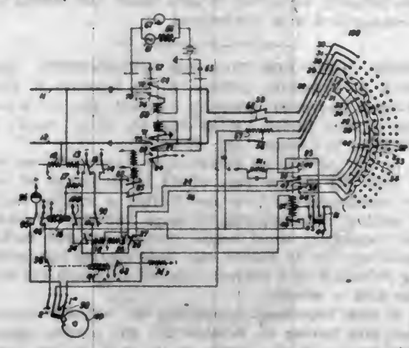
where R represents a hydrogen atom, or an alkyl, aryl or substituted alkyl or substituted aryl group.

1,663,230. ELECTROMECHANICAL TELEPHONE SYSTEM. FRITZ ALDENDORFF, Berlin-Wilmersdorf, Germany; Charlotte Aldendorff, heiress of Friedrich Ernst Aldendorff, deceased. Filed Mar. 30, 1925, Serial No. 19,556, and in Germany Apr. 3, 1924. 31 Claims. (Cl. 179—27.5.)



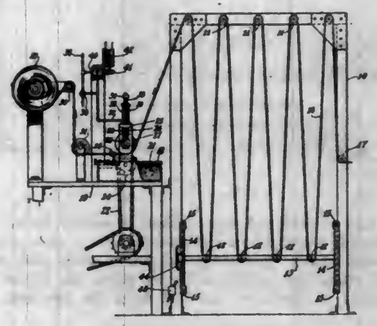
1. In an electro-mechanically controlled telephone system, a switch having brushes and sets of bank contacts, means for driving said brushes in a continuous motion over a plurality of said contacts, means including a brush setting magnet for setting said brushes onto any desired set of bank contacts, and a switching device for connecting said brush setting magnet alternately to different sets of bank contacts.

1,663,231. AUTOMATIC TELEPHONE SYSTEM. FRITZ ALDENDORFF, Berlin-Wilmersdorff, Germany; Charlotte Aldendorff, heiress of Friedrich Ernst Aldendorff, deceased. Filed Nov. 9, 1925, Serial No. 67,977, and in Germany Nov. 10, 1924. 11 Claims. (Cl. 179—18.)



1. A numerical selector comprising a bank of contacts, brushes, a power device for driving the brushes over said bank, an impulse responsive contact, a controlling magnet for positioning said brushes, a relay which is alternately energized and deenergized during the operation of said impulse responsive contact, and circuits including contacts of said relay and alternate contacts of said bank for intermittently energizing said controlling magnet.

1,663,232. STRIP-COATING APPARATUS. ROBERT R. AMBLER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 3, 1927. Serial No. 188,466. 1 Claim. (Cl. 91—50.)



Strip-coating apparatus comprising means for supporting a variable storage-supply of a continuous strip of material in a series of loops and for drawing the strip into the said supply by yieldingly maintaining the loops taut, hold-back means for giving off the strip to the drawing means, the hold-back means comprising a driven coating roll and loosely journaled presser roll mounted for movement into and out of coacting relation to the coating roll, and means for so guiding the strip about the presser roll that the tension of the strip will cause it to leave the coating roll when the presser roll is moved away from the coating roll.

1,663,233. PREPARATION OF LEVULOSE FROM PURIFIED DAHLIA JUICE. WILLIAM C. ARSEM, Schenectady, N. Y., assignor to Industrial Technics Corporation, Schenectady, N. Y., a Corporation of New York. Filed Jan. 31, 1927. Serial No. 165,043. 3 Claims. (Cl. 127—38.)

1. The herein described process consisting essentially of clarifying the juice of inulin-bearing plants to form a mixture of inulin and other carbohydrates in solution, hydrolyzing the carbohydrates to convert them into levulose, adding a ferment to the solution and fermenting to remove protein impurities.

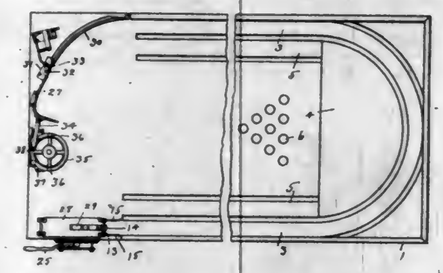
1,663,234. LEVULOSE FROM SOLUBLE NONSUGAR CARBOHYDRATES OF THE DAHLIA. WILLIAM C. ARSEM, Schenectady, N. Y., assignor to Industrial Technics Corporation, Schenectady, N. Y., a Corporation of New York. Filed Jan. 31, 1927. Serial No. 165,044. 8 Claims. (Cl. 127—38.)

1. The herein described process consisting essentially of hydrolyzing the non-sugar carbohydrates contained in the residue after inulin has been recovered from the juice of inulin-bearing plants, and separating the levulose formed from the juice.

1,663,235. GAME. ARTHUR C. BARNES, Baltimore, Md. Filed Mar. 12, 1927. Serial No. 174,761. 2 Claims. (Cl. 273—39.)

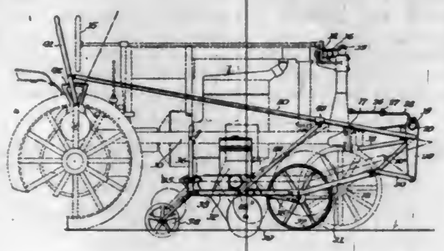
1. A game comprising a base having a run-way extending around part of the sides and one end thereof, a stationary guide secured to the upper surface of the

table at one end of said run-way, an adjustable guide having one end adjustably secured to the table at the end of said stationary guide, a wheel pivoted to the upper surface of said table, a rod connecting said wheel with one end of the adjustable guide, a buffer mounted



at one end of said run-way, a shaft mounted under said table having a handle on one end thereof, a cam on said shaft, and means connecting the buffer with said shaft whereby when the handle is forced down the buffer will be operated to discharge the ball from the run-way.

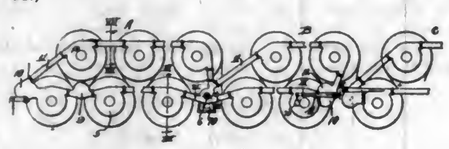
1,663,236. PLANTER ATTACHMENT FOR TRACTORS. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed July 30, 1926. Serial No. 125,855. 4 Claims. (Cl. 111—59.)



1. The combination of a self-propelled vehicle having a longitudinal body frame, traction and steering means supporting opposite ends of the frame, a carrying member extending across the front end of the body frame and projecting beyond it at each side, planter units positioned to trail at each side of the body frame and each having ground wheels normally supporting the unit, draft connections including means carried by the projecting ends of the carrying member for bodily lifting and lowering the planter units while maintaining said units in parallel relation to the ground surface, and means operable from a station on the vehicle for actuating the lifting and lowering means.

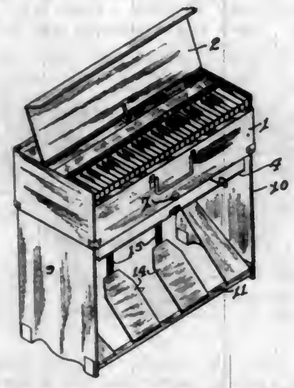
4. The combination of a self-propelled vehicle comprising a rear axle housing having an operator's station thereon and supported at its ends on traction wheels and a body frame extending centrally from said housing and supported on a steering truck, planter units located on each side of the body frame and truck and in advance of the axle within the treads of the traction wheels, supporting wheels individual to each planter unit, means for actuating the units from certain of said wheels, combined draft and lifting means connecting each unit to the body frame, and means operable from the operator's station for actuating the lifting means.

1,663,237. CHAIN DRIVE FOR DRIERS. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed May 13, 1926. Serial No. 108,745. 5 Claims. (Cl. 84—48.)



1. In a drier unit, a plurality of drying cylinders, and a chain mechanism for driving sections of said drying cylinders independent of other sections.

1,663,238. FOLDING ORGAN. PETER P. BILHORN, Chicago, Ill. Filed Dec. 3, 1924. Serial No. 753,578. 4 Claims. (Cl. 84—354.)



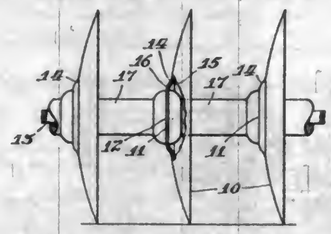
4. A folding organ comprising a case, a bellows herein, flat leg panels hinged in overlapping relation within the opposite ends of the case, and swingable downwardly and laterally in the open position, a case bottom closure panel overlying the leg panels in the folded position and swingable downwardly and rearwardly, means connecting the sides of the said closure panel in the open position to the rear edges of the leg panels whereby to brace the latter, a pedal frame hinged to the free edge of the said closure panel for disposition flatwise against the inner face thereof in the folded position, and swingable downwardly and forwardly therefrom in the open position, means connecting the forward side portions of said pedal frame to the lower forward edges of the leg panels, and pedals hingedly supported on said frame and having flexible connections with the bellows.

1,663,239. DISK FOR TILLAGE IMPLEMENTS. FREDERICK A. BUCKNAM, Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 31, 1922. Serial No. 585,364. 11 Claims. (Cl. 97—217.)

1. As an article of manufacture, an earth working disk with the greater part of its radial extent of ordinary concavo-convex form and having a smaller central hub portion, corresponding in shape and size to conventional supporting spool heads, pressed out and forming a protrusion on its convex side, said central hub portion being delimited by a narrow zone within which the metal of the disk is crimped.

5. A disk implement comprising an ordinary concavo-convex disk having an integral flat hub portion approximately one-fourth the width of the disk pressed out at the back of the disk, the metal surrounding said flat portion merging with the body of the disk on a reverse curve, whereby a saucer shaped depression is formed in the face

of the disk, and supporting means for the disk comprising clamping elements engaging the opposite faces of said flat portion and occupying the entire area thereof.



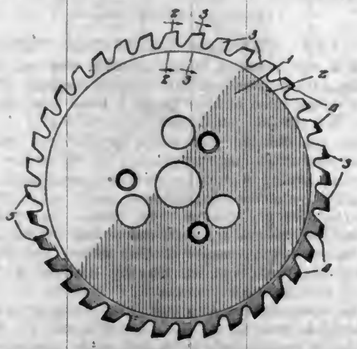
10. In a disk implement, the combination of an earth working disk with the greater part of its radial extent of ordinary concavo-convex form and having a relatively small central hub portion pressed out and forming a protrusion on its convex side, said central hub portion being delimited by a narrow zone within which an annular band of the metal of the disk lies in obtuse angular relation to the disk surfaces adjacent said zone, and disk supporting means occupying all that portion of the hub within said zone.

1,663,240. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed June 14, 1924. Serial No. 719,925. 9 Claims. (Cl. 24—211.)



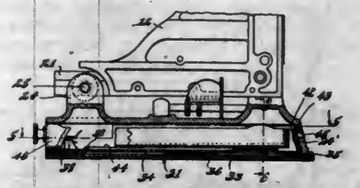
1. A stud and socket fastener comprising, in combination, a socket including a casing, a stud-receiving part movable relative to said casing, a cooperating stud for engagement with said stud-receiving part, locking means forming part of the fastener assembly for locking said stud with the socket and unlocking means separate from said locking means and carried by said stud for displacing said locking means to permit separation of the fastener when said stud and stud-receiving part are moved relative to said casing.

1,663,241. SAW BLADE. EDWARD CHESHIRE, St. Petersburg, Fla. Filed Dec. 9, 1926. Serial No. 153,483. 10 Claims. (Cl. 143—133.)



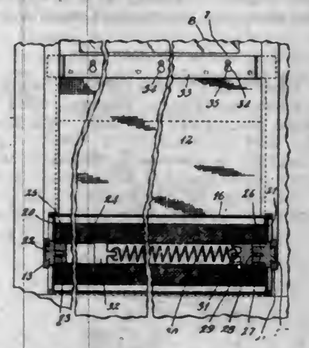
1. A saw blade for cutting both hard and soft materials comprising a supporting portion and teeth projecting therefrom, said supporting portion having a substantially uniform thickness, said teeth being flared continuously from said supporting portion outwardly, intermediate teeth being beveled at their outer edges to provide clearance.

1,663,242. STAPLING MACHINE. JOHN B. CROFOOT, Arlington Heights, Ill. Filed July 1, 1926. Serial No. 119,843. 2 Claims. (Cl. 1—2.3.)



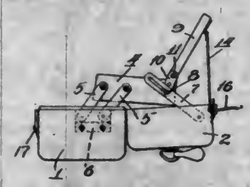
1. In a stapling machine, an auxiliary base structure composed of upper and lower plates; a covering for the lower plate clamped between the plates; lugs on the lower plate piercing said covering and bent over upon the upper plate; and attaching means on the upper plate, substantially as described.

1,663,243. WINDOW SCREEN. AGUSTAL DAGROSA, New York, N. Y. Filed July 20, 1926. Serial No. 123,663. 2 Claims. (Cl. 156—39.)



1. In a spring roller window screen of the class described, a roller housing guide and mounting brackets for supporting the housing and screen in connection with the window frame and for guiding the same in its movement in said frame, said brackets being mounted at the opposite sides of the window frame and comprising rails of channel formation extending longitudinally of the side rails of the window frame and opening outwardly adjacent the lower ends of said brackets, said brackets including bearing portions arranged angularly to said rails and having dove-tailed sockets in which corresponding members of the housing are adapted to be placed in detachably coupling the screen with the window frame.

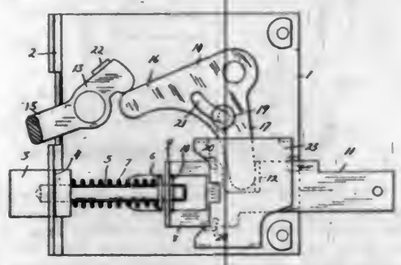
1,663,244. VANITY BOX. CLARENCE L. DEWEY, Elkhart, Ind. Filed July 20, 1927. Serial No. 207,042. 7 Claims. (Cl. 132—83.)



1. In a vanity box, a body portion, a cover hinged to the body portion, a tray connected to the body portion and to the cover for movement over the cover when the

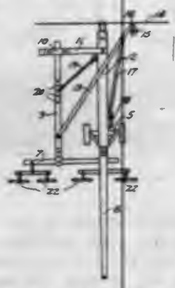
same is opened, a mirror normally superposed on the tray and means connecting the mirror and the cover for elevating the mirror during the opening movements of the cover.

1,663,245. DOOR LATCH. WILLIAM C. DEVEREAUX, Detroit, Mich. Filed Nov. 22, 1926. Serial No. 150,081. 8 Claims. (Cl. 292—173.)



1. In a latch, the combination with a latch bolt, of actuating means for said bolt including a yoke having a slidable and an operative connection therewith, a pivoted bolt retracting member, and an intermediate member having portions normally engaging said bolt retracting member and yoke whereby movement of said bolt retracting member will cause said intermediate member to actuate said yoke.

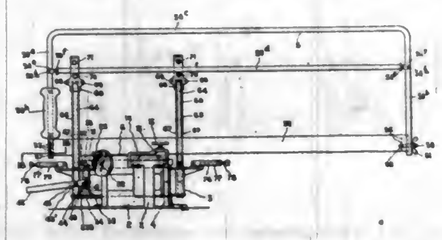
1,663,246. DRAFT HITCHING DEVICE. JOHN THOMAS DOOLAN, Edmonton, Alberta, Canada. Filed May 10, 1926. Serial No. 108,071. 1 Claim. (Cl. 278—5.)



In a draft hitching device, a binder frame, a pole, an equalizing bar and singletrees secured thereto, a truck frame suitably secured to the binder frame and supported by running gear, and comprising a main beam, a parallel bar pivotally secured to said equalizing bar and a pivoted transverse bar having a guide slot for the said parallel bar slidable therein, a draw bar from said parallel bar to said binder frame braced by a rod self adjustably connected to the main truck beam, and a draw bar from said main truck beam adjustably secured to said parallel bar.

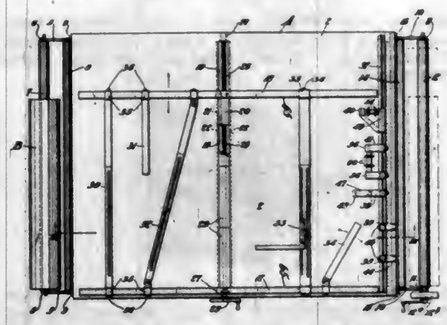
1,663,247. MITERING MACHINE. GEORGE OPIE EDWARDS and LEVANDER BROWN, Jr., Montreal, Quebec, Canada. Filed Apr. 4, 1925. Serial No. 20,582. 8 Claims. (Cl. 143—89.)

1. A mitering machine consisting of a work support, a carriage adjustably mounted upon the work support, a pair of posts rigidly mounted upon the carriage and located one at each end thereof and projecting upwardly therefrom, said posts being slotted from their upper ends downwardly to within close proximity of the carriage and the upper ends of the slots being open to allow the saw to be lifted off at will, and a saw unit consisting of a frame having a horizontal member, a blade mounted in the frame in parallelism with the member, and sleeve guides suspended from the said member and having slots through which said blade passes, said unit being adapted to be mounted upon the carriage with the sleeve guides



enclosing the posts and with the saw blade passing through the slots therein the unit being instantly removable from the carriage as a whole.

1,663,248. WORKTABLE. JOHN A. FRITSCH, Pittsburgh, Pa. Filed Dec. 26, 1925. Serial No. 77,685. 5 Claims. (Cl. 33—32.)

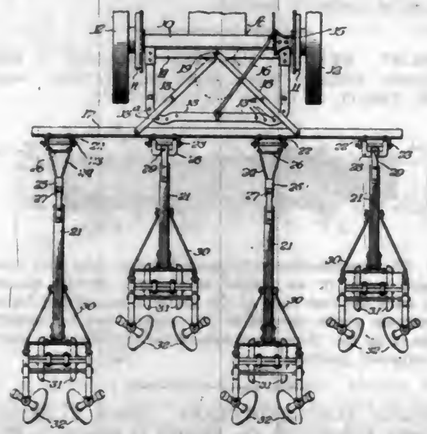


1. A work table for laying out and otherwise working on cloth and other flexible material, comprising an elongated table portion, a fixed straight edge adjacent one side edge of said table, a second straight edge adjustably mounted between the side edges of said table, screw means for adjusting said adjustable straight edge transversely of said table and a plurality of layout bars adjustably mounted on said straight edges and extending transversely of said table, at least some of said layout bars being connected to both said stationary and said adjustable straight edges, and said last named layout bars being extensible.

1,663,249. TRACTOR CULTIVATOR. WILLIAM S. GRAHAM and ARTHUR D. GALLAGHER, Canton, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed June 30, 1926. Serial No. 119,565. 9 Claims. (Cl. 97—47.)

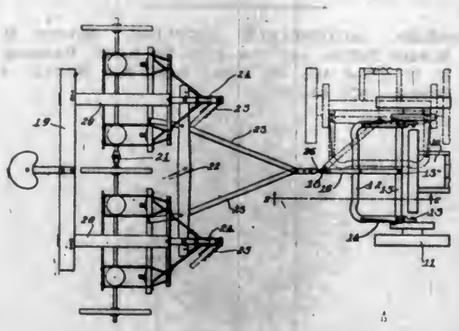
1. The combination comprising a traction frame, a draft member extending transversely of the frame, tillage units each having a tongue pivotally connected to the draft member and having transport means supporting the rear portion of the tongue, and means connecting the draft member to the traction frame for limited lateral sliding movement thereon including means for vertically adjusting the draft member thereby rocking the tillage units on the transport means.

4. The combination comprising a traction frame, a hitch member pivoted to the traction frame for vertical movement, a transversely extending draft member carried by the hitch member and connected thereto for limited sliding movement thereon, tillage units each with a tongue pivotally connected to the draft member and having transport means supporting the rear portion of the tongue, and means on the traction frame for adjusting the hitch member about its pivot thereby swinging said draft member vertically and rocking the tillage units on the transport means.



9. An implement attachment for tractors comprising a ball-shaped hitch bar the arms of which are adapted for connection to a tractor, a draft member extending at right angles to the arms in substantially the same horizontal plane therewith, a draft connection between the member and hitch bar comprising linkage extending from the draft member and pivotally connected to the hitch bar on a line between the ends of the hitch bar arms and slidably engaging the bight portion of the hitch bar, and lister cultivator units connected to the draft member in spaced relation by means permitting independent lateral movement of each unit.

1,663,250. TRACTOR HITCH. WILLIAM S. GRAHAM, Canton, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Aug. 6, 1926. Serial No. 127,545. 4 Claims. (Cl. 280—33.44.)

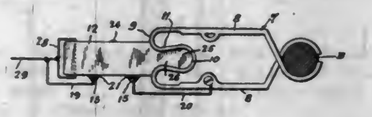


1. A draft device comprising the combination with a tractor of a horizontally positioned arched member comprising a flat bar having parallel arms connected to the tractor on horizontal pintles and its arch extending back of the tractor wheels, supporting links connecting the arched member with the tractor at desired elevation, a longitudinally extending draft link supported intermediate its ends on said arch for lateral movement limited by said supporting links, and pivotal supporting means for the draft link located midway between the arms of said arched member.

1,663,251. PURIFICATION OF 3:4-DICHLOROANILINE. IVAN GUBELMANN, HENRY J. WEILAND, and OTTO STALLMANN, South Milwaukee, Wis., assignors to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed Aug. 19, 1926. Serial No. 130,348. 8 Claims. (Cl. 260—130.5.)

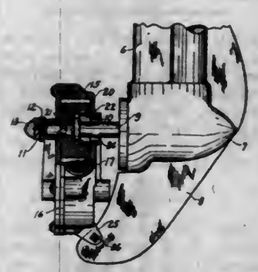
1. The method of separating 3:4-dichloroaniline from a mixture of dichloroanilines, which comprises forming the sulfates of the dichloroanilines in the presence of water and separating the practically insoluble sulfate of 3:4-dichloroaniline from the dissolved sulfates of the other dichloroanilines.

1,663,252. FUSE HOLDER FOR ELECTRICAL CIRCUITS. MILTON B. HERBRICK, Omaha, Nebr. Filed Apr. 3, 1926. Serial No. 99,515. 2 Claims. (Cl. 200—115.5.)



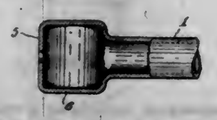
1. In a fuse holder for a clip in an electrical circuit, said clip being provided with a recess having a constricted part, an insulating block having a head and neck adapted to approximately fill the recess and constricted part and having a chamber opening on its side, a pair of keepers entering said chamber in communication with the electrical circuit, a fuse in the chamber engaging said keepers and a transparent plate covering said chamber.

1,663,253. PUMP ATTACHMENT FOR OUTBOARD-MOTOR ENGINES. HERBERT J. HILLBORN, Milwaukee, Wis., assignor to Evinrude Motor Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 24, 1926. Serial No. 156,822. 10 Claims. (Cl. 103—87.)



1. The combination with the submersible parts of an outboard motor including a propeller shaft, gear housing and skeg; of a pump including a casing apertured to receive said shaft and detachably connected with said skeg.

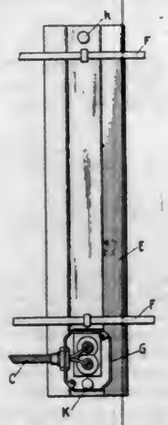
1,663,254. PROCESS OF MAKING TIE-ROD ENDS. GEORGE H. HUFFERD, Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1926. Serial No. 90,841. 2 Claims. (Cl. 29—152.)



1. The process of making a one-piece, seamless, tubular connecting rod, consisting in expanding the open

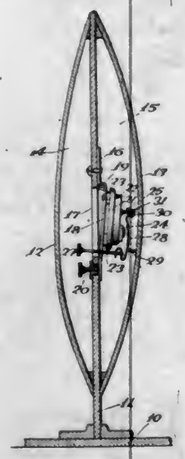
end of a seamless metal tube, forming it into substantially spherical form, shaping the substantially spherical end into cylindrical form, and finally removing the end walls of the cylinder.

1,663,255. ELECTRIC PIPE HEATER. LEE P. HYNES, Albany, N. Y., assignor to Hynes & Cox Electric Corporation, Albany, N. Y., a Corporation of New York. Filed Nov. 25, 1924. Serial No. 752,141. 6 Claims. (Cl. 219—38.)



1. An electric pipe-heater comprising a flat metal casing adapted to seat on the outside of the pipe, with a heating resistance enclosed therein, a hollow extension with a removable cover secured on the said casing and projecting above it, connection-terminals in the said extension, an insulating cover on the casing, a metal plate on said cover, and means for clamping the casing on the outside of the pipe.

1,663,256. SOUND REPRODUCER. GEORGE C. LINDSEY, Los Angeles, Calif., assignor of seven thirty-seconds to Michael Gozzo, one-eighth to Don Eminger, six thirty-seconds to Victor P. Hendrick, and four thirty-seconds to Robert Turner. Filed Sept. 18, 1925. Serial No. 57,153. 3 Claims. (Cl. 179—116.)



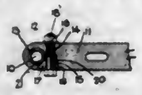
2. A sound reproducer comprising a sound responsive medium, an operating unit adapted to swing relative to the sound responsive medium, a vibrator carried by and adapted to swing relative to the operating unit, said vibrator being actuated by the operating unit and adapted to vibrate the sound responsive medium, adjusting means for swinging the operating unit relative to the sound responsive medium, and adjusting means for swinging the vibrator relative to the operating unit and the sound responsive medium.

1,663,257. GRADING MACHINE. RODERICK A. MACKENZIE, Dishman, Wash. Filed Aug. 31, 1926. Serial No. 132,817. 2 Claims. (Cl. 209—240.)



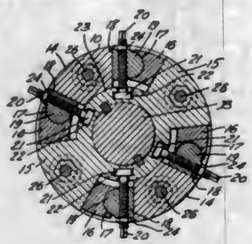
1. The combination with spaced guide rails and their hinged gates, of an arched bar having pivotal connection with the free ends of the gates, a supporting frame, adjustable plates carried by the arched bar for slidable support on the frame, and means for securing the plates in adjusted position.

1,663,258. ELECTRODE CLAMP. JOSEPH W. MEADOWCROFT, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1925. Serial No. 6,046. 7 Claims. (Cl. 219—4.)



1. In a device of the class described, an electrode holder provided with a seat for reception of an electrode and a transverse passage extending through said holder to one side of said seat and, said passage having an off-set portion in communication with said seat, an electrode clamping member having one arm projecting through said transverse passage and another arm seated in the offset portion thereof, the rear edge of the second-mentioned arm being inclined with respect to the axis of the first-mentioned arm.

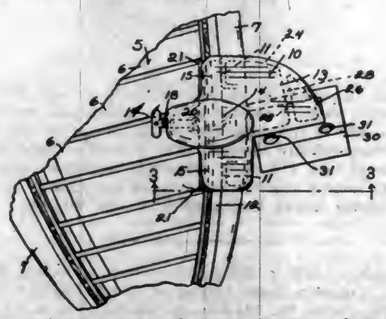
1,663,259. ADJUSTABLE COUPLING. MILTON D. MORRIS, Buffalo, and EDWARD G. DU BARRY, Hamburg, N. Y. Filed Apr. 30, 1926. Serial No. 105,712. 5 Claims. (Cl. 64—90.)



1. An adjustable coupling including a pair of coupling members, each having projections extending into alternate arrangement with the projections of the other coupling member about the axis of said coupling, the opposite faces of adjacent projections being inclined relatively to each other, and wedges arranged between said inclined faces and movable to different positions relatively thereto, said wedges each including a part having a convex substantially cylindrical portion adapted to interfit with a concave substantially cylindrical por

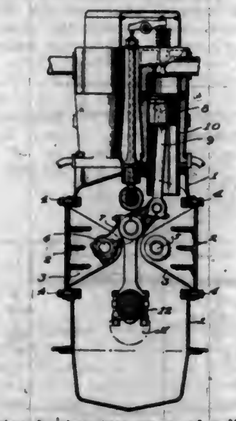
tion of the other wedge part to permit an angular adjustment of said parts to the wedge relatively to each other about centers extending substantially parallel to the axis of the coupling.

1,663,260. OUTBOARD-MOTOR BRACKET. JAMES A. MOULD, Milwaukee, Wis., assignor to Evinrude Motor Company, Milwaukee, Wis. Filed Aug. 1, 1924. Serial No. 729,485. 13 Claims. (Cl. 115—17.)



1. A universal outboard motor bracket adapted for mounting at the side of a canoe or light craft portable outboard motors having transom engaging devices, said bracket comprising a fitting adapted to extend transversely across the gunwale of a canoe at the side thereof, relatively fixed means for engaging said gunwale exteriorly thereof, an adjustable clamping mechanism connected with said fitting and opposed to said relatively fixed means whereby to be adapted to clampingly engage the side of a boat, and a transom member comprising a block secured to said fitting adjacent said means and having a free margin with which the transom engaging devices of portable outboard motors are engageable, said block being at such an angle with respect to said fitting as to be adapted to be approximately normal to the keel of a boat when said fitting is applied to one of the rearwardly converging gunwales of such a boat.

1,663,261. ENGINE. ALVAH LEIGH POWELL, Miles City, Mont., assignor to The A. L. Powell Power Company Incorporated, Miles City, Mont. Filed Mar. 19, 1924. Serial No. 700,808. 5 Claims. (Cl. 123—54.)



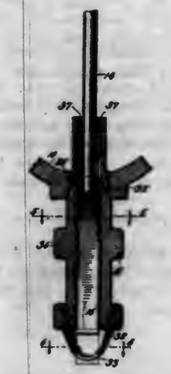
1. An engine having two rows of cylinders, the plane passing through the axes of the cylinders of one row being parallel to the plane passing through the axes of the cylinders in the other row and means for firing explosive charges in two of said cylinders simultaneously said last mentioned cylinders being spaced apart by a distance at least equal to one-half the length of the engine so that the engine is almost perfectly balanced.

1,663,262. GOLF TEE. ISRAEL F. ROBERSON, Springfield, Ohio. Filed Aug. 24, 1927. Serial No. 215,241. 5 Claims. (Cl. 273—33.)



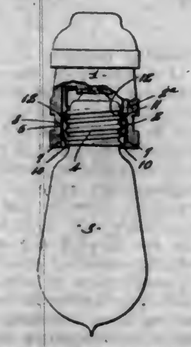
1. In a golf tee, a head, a pair, of prongs projecting from the head, said head and prongs being formed from a single elongated blank of sheet metal with the head formed from the central portion thereof and the prongs formed from the end portions by bending the metal of the blank.

1,663,263. SPRAYING NOZZLE FOR MACERATING MACHINES AND THE LIKE. ROBERT W. SHARP, Baton Rouge, La. Filed Mar. 22, 1924. Serial No. 701,015. 3 Claims. (Cl. 299—59.)



1. In a spraying nozzle for macerating machines, a body portion having a cylindrical bore, longitudinal grooves on opposite sides of the bore, a thin blade adapted to slide in said grooves, a rod attached to the blade, a detachable tip provided with an elongated slot and means for reciprocating the blade in the grooves and slot.

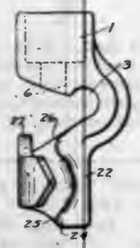
1,663,264. LAMP RETAINER FOR LAMP SOCKETS. DON N. THOMPSON, Syracuse, N. Y., assignor to Pass & Seymour Inc., Solvay, N. Y., a Corporation of New York. Filed Sept. 13, 1922. Serial No. 588,014. 10 Claims. (Cl. 173—356.)



1. A lamp retainer for lamp sockets comprising an expansible and contractile split sleeve formed with tongues

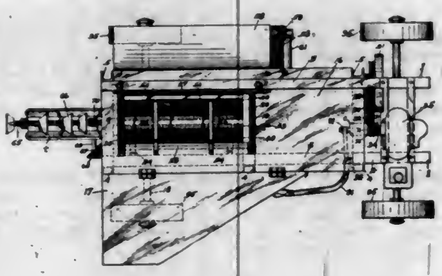
extending in a direction parallel to the axis of the sleeve and provided with projections at their ends for engaging the lamp base, substantially as and for the purpose described.

1,663,265. HOOK. HENRY R. BENSON, Seattle, Wash. Filed Feb. 3, 1926. Serial No. 85,644. 7 Claims. (Cl. 24—123.)



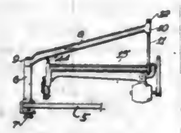
1. In a hook, a cylindrical shaped socket with one end open and the other closed, said socket having a slot in one side and extending into the center of the closed end, another member in combination with the said socket, said latter member having grooves arranged therein and said grooves being so arranged that a cable may be placed in them, twisted and then substantially straightened so that it may also pass through the slot in the socket.

1,663,266. CORN-HUSKING MACHINE. EARLE H. DANIEL, Springfield, Ohio, assignor to H. E. Pearce, Kenton, Ohio. Filed May 24, 1926. Serial No. 111,227. 5 Claims. (Cl. 130—5.)



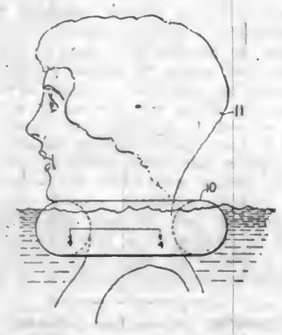
1. In a corn husking machine, a pair of snapping rolls, a plurality of husking rolls, one of said snapping rolls being yieldable and the other nonyieldable, shafts for said snapping rolls, the shaft of the nonyieldable roll being extended to the forward end of the machine, a gear, a transmission member and a fly wheel all connected with said latter shaft supported by said frame, a gear on said short shaft meshing with said other gear, a flexible connection between said short shaft and the shaft of the yieldable roll, an internal combustion engine mounted on the forward end of the frame and having a longitudinally-extending crank shaft, a transmission member normally loose on said crank shaft and connected with said first mentioned transmission member, and an operating lever extending to the forward side of the machine for connecting and disconnecting said crank shaft transmission member with said crank shaft.

1,663,267. MEANS FOR CUTTING. VINCENT V. COLBY, Chicago, Ill., assignor to International Register Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1922. Serial No. 598,688. 10 Claims. (Cl. 164—75.)



1. In combination, an arm mounted at one end for movement about a vertical axis, a second arm connected at one end to the other end of the first arm and movable independently thereof about a vertical axis and a horizontal axis, a member depending from the other end of said second arm for travel upon material to be cut, and cutting means associated with said member.

1,663,268. LIFE PRESERVER. JOHN R. FOLEY, Kelso, and MARJORIE HART, Vancouver, Wash. Filed Oct. 27, 1926. Serial No. 144,430. 2 Claims. (Cl. 9—17.)



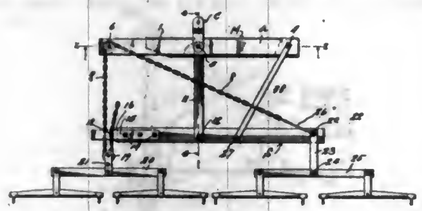
2. A life preserver consisting of an inflatable pneumatic ring having an internal inflating means adapted to be actuated manually, said ring having an inside diameter which will permit same to pass over the wearer's head to enable same to be worn around the neck, but which cannot be removed from the neck of the wearer while inflated.

1,663,269. AUTOMOBILE BUMPER BRACKET. OSCAR H. GOETZ, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed July 30, 1924. Serial No. 729,033. 5 Claims. (Cl. 293—55.)



1. An automobile bumper bracket comprising a supporting arm, having an eye, a clamping member connected with said arm by a pivot-bolt mounted in said eye, and serving therewith to embrace a bumper bar, a wedge member arranged to operate between said supporting arm and bumper bar, and means to actuate said wedge.

1,663,270. DRAFT EQUALIZER. GUST JOHNSON, Orrin, N. Dak. Filed June 8, 1926. Serial No. 114,569. 8 Claims. (Cl. 278—8.)



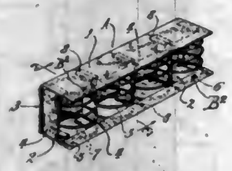
6. A draft equalizer comprising a main evener, a supplemental evener member disposed in advance of the main evener, a connector from the main evener to the supplemental evener having connection with the latter at a point intermediate its length, draft means connected to one end of the supplemental member, separate draft means for the other end of the supplemental member, and an equalizing connection connected to the end of the supplemental member to which the first-mentioned draft means is attached and extending between the main and supplemental evener members, said separate draft means being connected to the equalizing connection at the other end of the supplemental member.

1,663,271. PIPE FITTING. AUGUST KEHM, Chicago, Ill. Original application filed Apr. 3, 1924, Serial No. 703,909. Divided and this application filed Aug. 31, 1925. Serial No. 53,515. 2 Claims. (Cl. 137—75.)



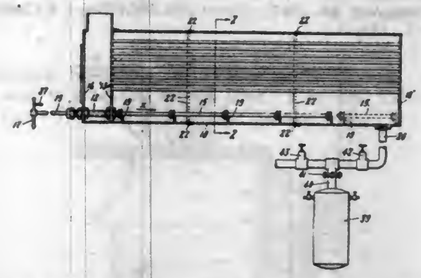
1. A pipe fitting having opposed openings of the same size in substantial alignment and an intermediately disposed lateral opening directed transversely to the opposed openings, an obstruction between one of the opposed openings and the intermediate opening, and a single eccentric tube carried by the obstruction and extending towards the other opposed opening.

1,663,272. SPRING-CONTAINING STRIP. FRANCIS A KELLAR, Grand Rapids, Mich., assignor to James L. MacInerney, Grand Rapids, Mich. Filed Dec. 16, 1926. Serial No. 155,123. 6 Claims. (Cl. 5—353.)



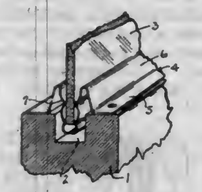
1. A spring retaining strip for cellular cushion construction, comprising a continuous piece of fabric folded between its side edges to form longitudinally extending top and bottom strip portions and one side strip portion, the other side being open, a series of spring elements mounted in said retaining strip, and means for securing the ends of each spring element to said top and bottom strip portions adjacent the open side of said retaining strip comprising means secured to said top and bottom strip portions adapted to slidably receive the top and bottom coils of the springs respectively, whereby said spring elements are held on three sides by said strip portions.

1,663,273. BOILER CLEANER. IRVING L. KEMP, Milton, Mass., assignor to Oscar Hussa, Watertown, Mass. Filed July 21, 1927. Serial No. 207,528. 4 Claims. (Cl. 122—379.)



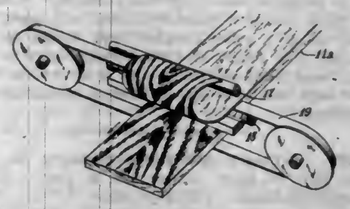
1. A steam boiler having a longitudinally extending guide at its forward end communicating with the water space of the boiler, and a bottom cleaner comprising a rod longitudinally movable and adapted to turn in said guide, a plurality of arms fixed to the rod and projecting laterally therefrom, a plurality of scrapers, and links loosely connecting the scrapers with the rod and arms, and permitting independent edgewise movements of the scrapers.

1,663,274. METAL WINDOW GUIDE. LAWRENCE LIPPER, Houston, Tex. Filed Aug. 2, 1926. Serial No. 126,359. 2 Claims. (Cl. 296—44.5.)



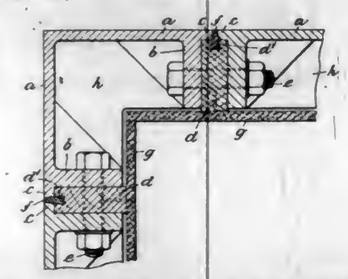
1. In combination with a window casing having a window receiving channel therein, and a slidable window pane in said channel, of resilient guides of sheet metal supporting said pane and comprising a base member for attachment to said casing adjacent each side of said channel, each guide having an inwardly inclined side portion and a recurved portion formed thereon, said recurved portion being corrugated longitudinally and adapted to bear resiliently against said pane at a plurality of lines of contact for the purpose described.

1,663,275. METHOD OF PRODUCING GRAINED-RUBBER ARTICLES. TOD J. MELL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 18, 1926. Serial No. 149,149. 2 Claims. (Cl. 18—59.)



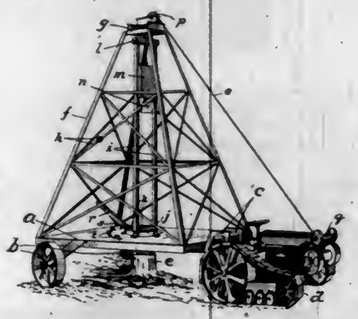
1. The method of producing a grained rubber article which comprises passing two rubber compounds of different colors through an extruding machine together to produce an internally grained strip and removing rubber from the strip to expose the internal grain thereof.

1,663,276. WALL FOR BUILDING CONSTRUCTION. THOMAS VIVIAN MILES, near Sheffield, England, assignor of one-half to Newton Chambers & Company Limited, near Sheffield, England, a British Company. Filed Apr. 23, 1927. Serial No. 186,039½. 3 Claims. (Cl. 189—1.)



1. The improved construction of walls for buildings comprising the combination of metal plates provided with flanges presented inwardly and with marginal rims projecting at right angles to the said flanges, strips of wood inserted between the adjacent flanges of the assembled plates, the said strips of wood having their ends adjacent to the said marginal rims formed with dove-tailed recesses, and a cement filling inserted between the adjacent marginal rims of the assembled metal plates and extending therefrom into and filling the recesses in the wooden strips.

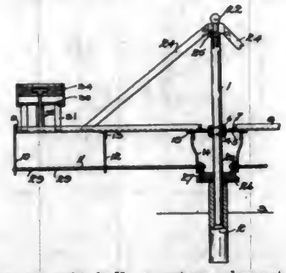
1,663,277. APPARATUS FOR HARVESTING STUMPS. JASPER T. MURRY and CLARK B. PATTERSON, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 15, 1927. Serial No. 168,271. 2 Claims. (Cl. 144—193.)



1. In an apparatus for harvesting stumps, in combination, a platform, means for supporting the platform substantially horizontal to and at a distance from the ground and permitting the platform to be moved from place to place, a base rotatable relatively to said platform, guide members extending from said base, a blade engaged by said guide members and means for raising said blade to a height and for permitting it to drop by gravity, said platform being apertured within the confines of said rotatable base to permit said blade to pass therethrough.

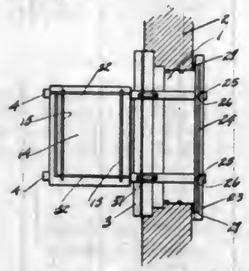
1,663,278. ROTARY SWING. FREDERICK W. OLTERSDORF, Detroit, Mich. Filed Apr. 8, 1927. Serial No. 182,008. 1 Claim. (Cl. 272—33.)

A rotary swing comprising a stationary hollow centre post, a frame rotatably mounted around said post, a stationary gear secured around said post, cranked shafts rotatably mounted on said frame, pinions mounted on said shafts and meshing with said stationary gear so that when said cranks are turned said pinions travel around said gear, a pocket in the upper end of said post, having a semi-spherical lower end, a ball in said pocket, a vertical spindle rotatable in said pocket and having its lower



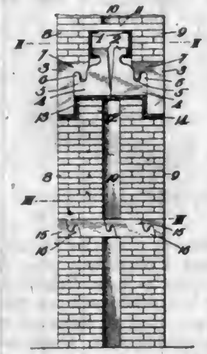
end resting on said ball, a rotary element around the upper end of said spindle above said post, and braces extending downwardly and outwardly from said element to said frame.

1,663,279. WINDOW SCAFFOLD. BYRON A. PORTT, Bay City, Mich. Filed May 7, 1926. Serial No. 107,337. 2 Claims. (Cl. 304—27.)



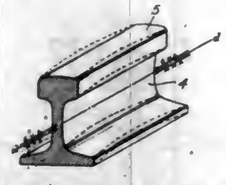
1. A window scaffold comprising a slotted platform, grooved side bars, wall brackets adjustably engaging said side bars and each having a spring tensioned section intermediate the length of the bracket, a transversely disposed bar connecting the inner ends of the side bars and provided with a grooved edge, and padded blocks mounted in said groove.

1,663,280. FURNACE-WALL CONSTRUCTION. GEORGE P. REINTJES, Kansas City, Mo. Filed May 9, 1927. Serial No. 190,021. 9 Claims. (Cl. 72—102.)



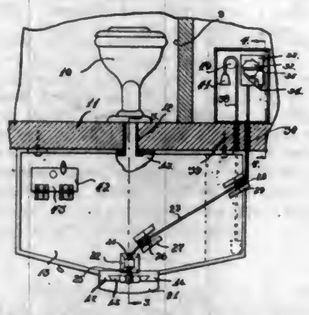
1. A wall comprising superposed sections of masonry, a horizontal metal supporting member above and spaced from one section and extending longitudinally of and through the overlying section, and tile suspended from the supporting member and underlying and supporting the section of the wall through which said supporting member extends.

1,663,281. STRUCTURE HAVING COINCIDENCE OF NORMALLY ECCENTRIC AXES OF FORCE AND MASS. HARRY F. ROACH, St. Louis, Mo. Filed Oct. 31, 1927. Serial No. 229,943. 11 Claims. (Cl. 238—125.)



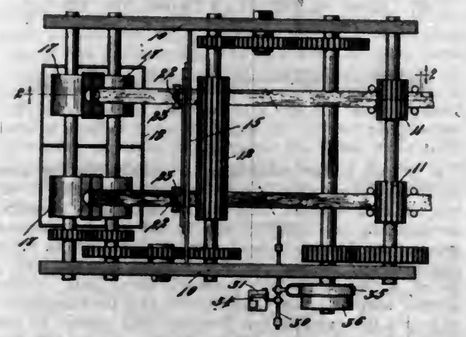
1. A structure having at least one unsymmetrical section and subject to the effect of forces tending to distort it, in which the geometrical neutral axis of the structure and the metallurgical neutral axis are caused to coincide.

1,663,282. TOILET DEVICE. NICK RUSHE, Detroit, Mich. Filed Apr. 14, 1927. Serial No. 183,646. 3 Claims. (Cl. 4—8.)



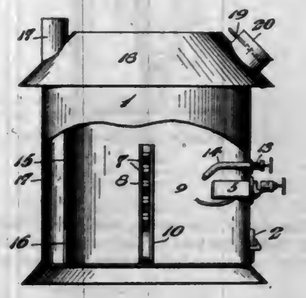
1. In a device of the class described, a reserve tank having an opening formed in its base; a pair of guide brackets extending at opposite sides of said opening; a closure slidably mounted between said guide brackets for opening and closing said opening; a boss projecting outwardly from the lower surface of said closure; a bar secured to and projecting transversely of said brackets adjacent one end thereof; and a spring engaging at one end of said bar and at its opposite end, said boss for normally retaining said closure in closing position.

1,663,283. STOP MOTION FOR GILL BOXES. WALTER J. SCOTT, Woonsocket, R. I. Filed July 27, 1927. Serial No. 208,859. 2 Claims. (Cl. 19—165).



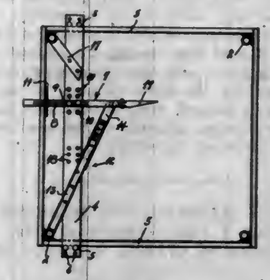
1. In a stop motion for Gill boxes, an electric circuit, a set of draft rolls to act on the sliver, a pair of pivotally suspended feeler arms arranged to straddle the travelling sliver and held from circuit-closing position by contact with opposite edges of the travelling sliver whereby when fibers from the sliver are broken by action of the rolls the width of the sliver is reduced permitting one of said feelers to move and close the circuit to stop the machine.

1,663,284. OIL AND WATER BURNER STOVE. ANDREW O. SLETTAGER, Fertile, Minn. Filed Apr. 15, 1927. Serial No. 183,944. 4 Claims. (Cl. 126—95.)



1. An oil and water burner stove, comprising a casing having a combustion chamber and provided with a controllable air inlet opening through its side wall at its bottom and having a rear wall having an opening at its bottom for the discharge of excess of cold air and the products of combustion and having an exit flue communicating with said discharge opening, and oil and water nozzles extending into said combustion chamber above said air inlet opening.

1,663,285. PIPE RETAINER FOR DERRICKS. ORVILLE R. STUMP and JOHN N. HILES, Long Beach, Calif. Filed Feb. 19, 1927. Serial No. 169,655. 6 Claims. (Cl. 255—1.)

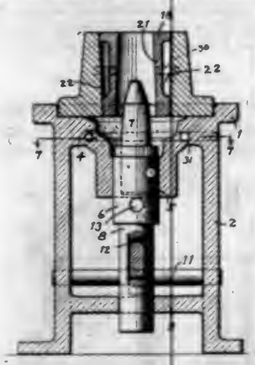


1. A pipe retainer for derricks comprising a board, means removably securing said board to the derrick, and a finger extending inwardly from the said board, said board and finger being formed of metal, and said finger being provided with a tip on the end thereof, and means pivotally mounting said tip on the finger, and means rigidly securing said tip, said last named means being releasable under high stress.

1,663,286. MOLD AND METHOD OF CASTING. CONRAD VAUGHAN, Cleveland, Ohio, assignor to The Permold Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 7, 1923. Serial No. 617,439. 3 Claims. (Cl. 22—200.)

1. The method of forming castings of metal of a relatively high crystallization shrinkage and a relatively low

freezing point which consists in introducing molten metal of such characteristics into a permanent mold having a



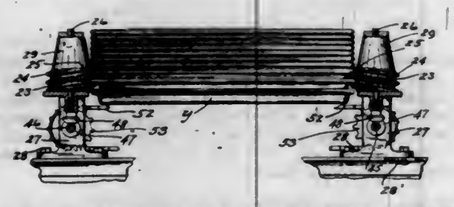
mold cavity and sprue cavity, cooling the mold adjacent the more remote sections of the casting and then cooling that portion of the mold surrounding the sprue cavity.

1,663,287. COW-TAIL HOLDER. ANTHONY VOLENCE, Browerville, Minn. Filed May 17, 1924. Serial No. 714,122. 1 Claim. (Cl. 119—105.)



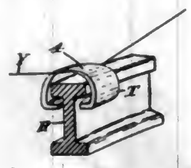
As a new article of manufacture, a cow tail holder comprising a clamp of substantially U-shape in plan constructed from a relatively wide thin strip of resilient metal including an intermediate semi-circular body portion having its ends arranged in converging relation and a pair of elongated resilient legs disposed in parallel relation on said ends defining a restricted neck entrance leading to the semi-circular body portion, the free terminals of the legs being flared outwardly, and a flat resilient plate disposed in abutting relation to the outer face of one of said legs having its opposite ends bent outward away from said legs, the outer flared end of said plate engaging the flared terminal of the mentioned resilient leg and secured thereto, the inner flared end of said plate terminating adjacent to the semi-circular body portion and diverging therefrom.

1,663,288. MACHINE FOR WASHING SERVING TRAYS. CARL J. ULRICH, Mankato, Minn. Filed Nov. 16, 1923. Serial No. 675,073. 3 Claims. (Cl. 241—1.)



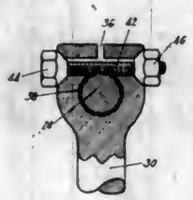
1. A tray-supporting and releasing device comprising, in combination with a conveyor, a plurality of revoluble upright feed screws adapted to support a stack of trays on their threads and successively remove the trays from the bottom of the stack and then release the same to said conveyor, said feed screws having conical truncated upper end portions for directing the stack of trays onto their threads.

1,663,289. RING TRAVELER AND METHOD OF PRODUCING SAME. PHILIP C. WENTWORTH, Providence, R. I. Filed May 11, 1927. Serial No. 190,583. 3 Claims. (Cl. 118—61.)



1. A ring traveler comprising a solid imperforate bow and terminal horns of uniform width throughout, said bow gradually decreasing in thickness from the horns towards the center thereof so that the center of gravity of the traveler is lowered to a point corresponding approximately to the geometrical center of the traveler.

1,663,290. LEVER MOUNTING. VINCENT BENDIX, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed May 3, 1926. Serial No. 106,307. 19 Claims. (Cl. 188—194.)



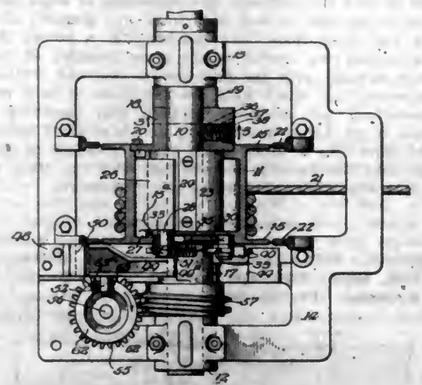
5. A brake comprising, in combination, a drum and backing plate, a friction device engageable with the drum, operating means for said device including a shaft passing through the backing plate and having a worm thread outside the backing plate, an arm having a split hub embracing the threaded part of the shaft, a bolt bridging the split in the hub and having a thread meshing with the thread of the shaft, the arm being adjustable angularly of the shaft by turning the bolt, and a nut on the bolt to lock the split hub on the shaft.

1,663,291. HAIR CURLER. PHILIP C. P. BOOTY, Chicago, Ill., assignor to Innovation Specialties Co., Inc., Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1927. Serial No. 232,628. 4 Claims. (Cl. 132—34.)



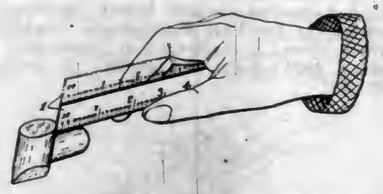
1. A hair curler comprising in combination an elongated tubular member, a head revolubly mounted at one end of said tubular member, an end piece revolubly mounted on the opposite end of the tubular member, means for causing said head and said end piece to rotate together with respect to said tubular member, and a coiled spring removably mounted about said tubular member adapted by engagement with said tubular member to rotate therewith in one direction with respect to said head and adapted by engagement with said head to prevent rotation of the tubular member in the opposite direction with respect to the head.

1,663,292. SHOVEL-OPERATING MECHANISM. SETH CARLSON, Chicago, Ill., assignor to Weller Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1926, Serial No. 87,763. Renewed Feb. 9, 1928. 8 Claims. (Cl. 254—173.)



1. In power driven mechanism of the character described at the end of the forward movement of said driven members, of cooperating clutch members connected respectively to said driving and driven members, a latch for holding said clutch members disengaged, a stop-dog for disengaging one of said clutch-members from the other at the end of the forward movment of said driven member, and means operated by power derived from the driving member, to impart initial movement to said driven member in forward direction for tripping said latch to engage said clutch-members.

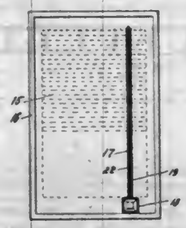
1,663,293. MEASURING RULER. ALVIN B. COOK, Athol, Mass., assignor to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts. Filed Apr. 4, 1927. Serial No. 180,689. 2 Claims. (Cl. 33—111.)



1. A rule comprising a flat relatively thin flexible strip having only two series of differentiated graduations thereon, one series extending along one longitudinal edge of the front face of the rule and the other series extending along the opposite longitudinal edge of the back face of the rule and in nonsuperimposed relation to the graduations on the front face, and both series of graduations reading from the same end of the rule so that by turning the rule on its longitudinal axis either series of graduations may be alternately exposed in the same relative reading position and sequence for direct observation.

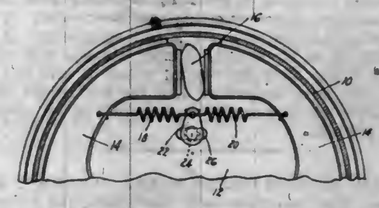
1,663,294. PERFORATING AND SCORING ATTACHMENT FOR PRINTING PRESSES. JOHN A. DAVIDSON, Glendale, N. Y. Filed Mar. 12, 1927. Serial No. 174,872. 5 Claims. (Cl. 101—250.)

1. In a printing press, the combination with a form and a platen having a bodily movement in relation to one another, of a blade disposed in said form and adapted to move in and out of the same, means cooperating with said blade located in the path of and actuated by said platen for causing said blade to project out of said form



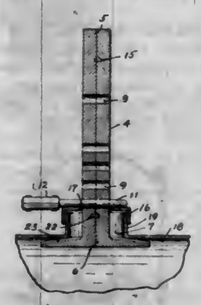
into engagement with the work carried by said platen, and means for returning said blade to its normal position on disengagement of said platen from said actuating means.

1,663,295. BRAKE. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1927. Serial No. 206,184. 2 Claims. (Cl. 188—78.)



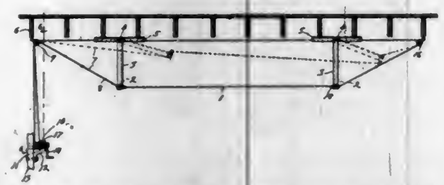
1. A brake comprising oppositely-movable friction parts, in combination with a spring resisting movement of each of said parts, an angularly movable arm to which said springs are connected and which is shifted to balance the springs by application of the brake, and means for securing said arm with the springs balanced, to prevent it from shifting further.

1,663,296. LOCKED CLOSURE FOR TANK OPENINGS. JOHN H. FALSTER, Oakland, Calif. Filed May 20, 1926. Serial No. 110,338. 5 Claims. (Cl. 220—25.)



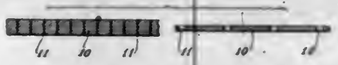
1. In combination with a tank having a wall provided with an aperture, a lock having a bolt, a screw cap providing a closure member for said aperture, and a locking member passing through said aperture and closure member arranged to bear on the inner face of said wall and to receive said lock bolt at a point thereof above said closure member whereby a releasing movement of said cap will effect a forcible engagement of said member with the inner wall face and the displacement of said latter member to uncover said aperture may be prevented.

1,663,297. CLOTHES-DRYING RACK. OSCAR A. FRUEHAUF, Detroit, Mich. Filed Feb. 11, 1927. Serial No. 167,416. 2 Claims. (Cl. 211—117.)



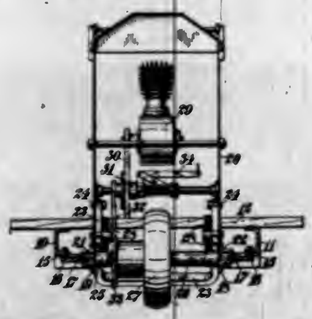
2. In a clothes drying rack, the combination with a pair of parallel substantially horizontal bars, of a plurality of clothes lines extending between said bars, a pair of members supporting each of said bars for swinging movement about an axis parallel to said bars, an elongated flexible member connecting said bars having its end portions respectively extending oppositely from said bars in a substantially transverse relation to said bars, and having an intermediate portion extending transversely to and above said bars, and guide members engaging said flexible member at the junctures of its intermediate portion and said end portions, said flexible member having a portion downwardly extending from one of said junctures, means engaging said downwardly extending portion adapted to exert a pull upon either of said end portions of the flexible member whereby said frames may be swung upwardly toward either of said end portions, and means associated with the last named frames for holding the frames and clothes lines in an upwardly swung position.

1,663,298. RUBBER FILTER SHEET. WILLIAM C. GEER, Akron, Ohio, and CHARLES F. SHERWOOD, San Francisco, Calif., assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 17, 1925. Serial No. 37,664. 10 Claims. (Cl. 210—169.)



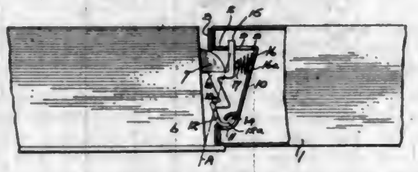
1. A filter medium comprising an elastic rubber sheet having perforations therein.

1,663,299. POWER-DRIVEN VEHICLE. GEORGE GRIST, Norton, St. Philip, near Bath, England, assignor to R. A. Lister & Company Limited, Dursley, Gloucestershire, England, a British Company. Filed Nov. 26, 1926, Serial No. 150,857, and in Great Britain June 22, 1926. 1 Claim. (Cl. 180—26.)



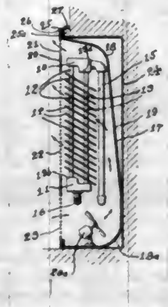
In a power-driven vehicle, the combination of a pair of chassis longitudinals, a vertical steering framework having a turntable connection with the same and arranged to rotate about a vertical axis, at least one driving road wheel journalled in said framework to rotate about a horizontal axis and support the framework and chassis longitudinals, and a power-unit supported by said framework and arranged to drive the road wheel, which turntable connection comprises a disc-like bearing-ring carried by said longitudinals, two pluralities of angle strips fixed on the side of said framework, one plurality above and the other below said bearing-ring, a second disc-like bearing-ring carried by the lower plurality of angle strips co-axial with the first bearing-ring and rotatably supporting the latter with the flat faces of said rings face-to-face and extending between said pluralities of angle strips, and a floating ring that is situated between said pluralities of angle strips and is arranged to maintain said bearing-rings co-axial one with the other and is free to rotate in relation to said framework.

1,663,300. STRIKER PLATE. SAMUEL H. HALPER, Detroit, Mich. Filed Apr. 30, 1927. Serial No. 187,717. 8 Claims. (Cl. 292—340.)



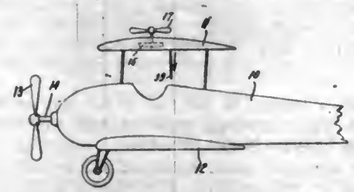
1. In an article of the character described the combination of a striker plate having a trough-shaped central portion, means for attaching the marginal portions of said plate to a door frame, a retainer pivotally mounted in said trough-shaped portion adapted to swing either wholly within the latter or so that it projects partly therefrom, means on the outer surface of said retainer adapted to engage a latch bolt, means for limiting the outward swing of said retainer, and means for tending to hold the retainer so that its outer surface projects outwardly from said trough-shaped portion.

1,663,301. RADIATOR. MAXWELL S. HART, New Britain, and MAURICE GAYLORD STEELE, Hartford, Conn., assignors to The Hart & Hutchinson Company, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 3, 1926. Serial No. 133,320. 18 Claims. (Cl. 257—137.)



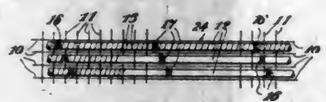
4. In an air-heating radiator, a plurality of upwardly extending tubes for containing a heating medium, a pair of angle-shaped headers at the upper and lower ends of said tubes, means for introducing a heating medium to the upper header, means for withdrawing the spent heating medium from the lower header, said tubes being arranged in two parallel rows in stepped relationship, and deflecting means for directing the inflowing current of air diagonally around said tubes.

1,663,302. AUXILIARY POWER SYSTEM FOR AERIAL VESSELS. MARK HERZL, New York, N. Y. Filed Oct. 27, 1927. Serial No. 229,126. 1 Claim. (Cl. 244—15.)



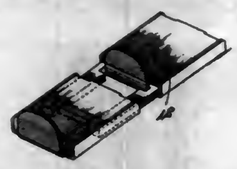
1. An auxiliary propelling mechanism for aeroplanes, including a rotary internal combustion engine having a vertical driven shaft extending through the top aerofoil of the aeroplane, a propeller attached to said shaft above said aerfoil rotatable in a horizontal plane, means associated with said engine for exploding solid explosive charges and permitting the resulting gases to act upon the rotor of said engine, and means within the reach of the operator's seat in the body of said aeroplane for feeding explosive charges to said first-mentioned means and for actuating the charge explosion means.

1,663,303. ELASTIC WEBBING. JOSEPH HIRSCH, Yonkers, N. Y., assignor to Kops Bros. Inc., a Corporation of New York. Filed Jan. 27, 1927. Serial No. 163,891. 3 Claims. (Cl. 139—421.)



2. In an elastic webbing, inelastic warp and weft threads, and a plurality of elastic strands each elastic strand having a core and a cover of inelastic threads in which at spaced intervals the cover threads are wound in a plurality of superimposed turns so as to slightly compress the core when in its normal condition and also to have an exterior diameter appreciably greater than the normal diameter of the elastic strand.

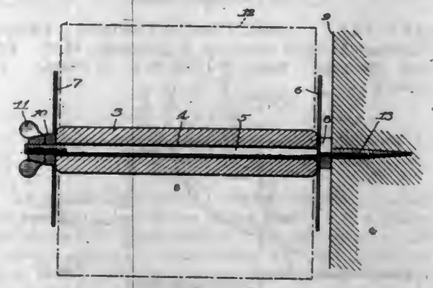
1,663,304. BRACELET. CARL HOECKELE, Newark, N. J., assignor to New Jersey Chain Corporation, Newark, N. J., a Corporation of New Jersey. Filed Feb. 21, 1927. Serial No. 169,898. 5 Claims. (Cl. 59—79.)



4. An expandible bracelet comprising a series of box links having top and bottom walls, a frame link connecting said box links and slidable between said walls, said frame comprising a pair of separate members, cooperating means on said members to interlock to prevent separation longitudinally of the bracelet, said interlocking means being prevented from lateral separation by the top and bottom walls of said box.

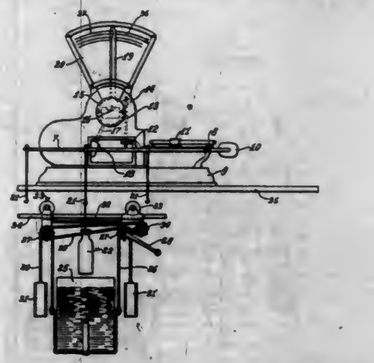
1,663,305. PAPER HOLDER. JAMES E. HUDSON, Galva, Ill. Filed Jan. 7, 1926. Serial No. 79,753. 1 Claim. (Cl. 242—55.2.)

A holder of the class described, comprising a core having a bore therethrough, a spindle extended through said bore with one end threaded, an independent disk at one end of the core and having a threaded boss rigid therewith, an independent disk at the other end of the core and having a threaded spacer rigid therewith, and a lock nut on the threaded end of the spindle bearing against the boss of the adjacent disk for firmly securing



the holder in place, the spindle being passed loosely through the bore of said core and having its other end provided with an elongated tapered thread for securing the holder in any desired position whereby the holder is supported solely by said spindle.

1,663,306. PROCESS OF CHECKING MOLDS DESIGNED FOR THE MOLDING OF GLASSWARE. OLIVER C. K. HUTCHINSON, Alton, Ill., assignor to Illinois Glass Company, Alton, Ill., a Corporation of Illinois. Filed May 26, 1926. Serial No. 111,679. 8 Claims. (Cl. 73—51.)



1. The process of checking a mold designed for the molding of a definite article of a predetermined shape or volume and material, comprising, filling the mold cavity with another moldable material so as to form therein a test piece conforming thereto, and measuring the displacement of the test piece in order to determine the accuracy of the mold.

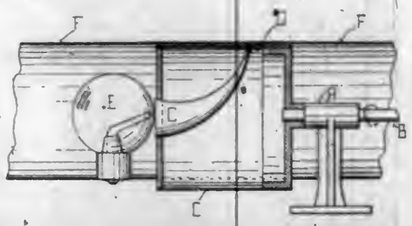
1,663,307. BOOKMARK. GLENN L. JACKSON, Chicago, Ill. Filed Oct. 18, 1926. Serial No. 142,345. 2 Claims. (Cl. 116—119.)



2. A book mark comprising a strip of relatively thin, tenuous flexible material bent between its extremities in a straight line to form two flatly opposed legs, and a portion intermediate the ends of said legs doubled

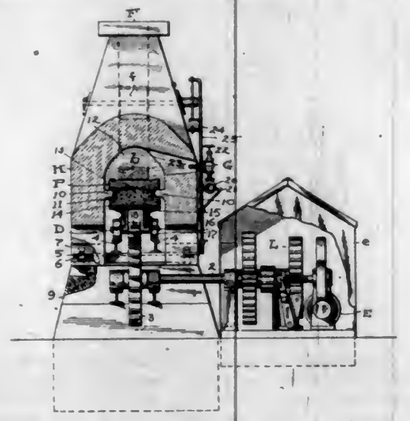
and flattened in such a manner that three sections of a leg are parallel and in close proximity, thus forming a slightly projecting rib to provide means for attaching and releasing said book mark from the margin of a page.

1,663,308. LIGHT-CONCENTRATING DEVICE. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 22, 1924. Serial No. 745,214. 5 Claims. (Cl. 178—7.)



1. In apparatus of the class described, a circularly-formed surface, the marking means the source of which is located approximately at the axis of the circular surface, and means for directing the marking means into pointed contact with said surface, in a plane longitudinally removed from the plane of location of the source.

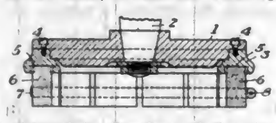
1,663,309. APPARATUS FOR PRODUCING CLAY PRODUCTS. MATTHEW LANG, Akron, Ohio. Filed Apr. 11, 1924. Serial No. 705,827. 5 Claims. (Cl. 25—142.)



1. An apparatus for making clay products, comprising an arched kiln having an open bottom, an endless track and an endless conveyor close to said open bottom, a series of valved burners arranged at intervals longitudinally of the kiln and a series of power units for the conveyor located at intervals longitudinally of the kiln.

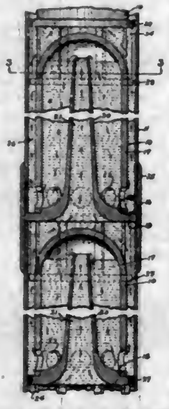
1,663,310. SEGMENTAL GRINDING WHEEL. WILLIAM T. MACAULAY, Brooklyn, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed July 13, 1923. Serial No. 651,350. 3 Claims. (Cl. 51—209.)

1. In a segmental grinding wheel, a flanged center disk, a ring member on the flange whose diameter is substantially the same as the diameter of the central portion of the disk, the ring and disk having contacting shoulders by means of which the ring is centered on the flange of the disk, means for securing the ring to



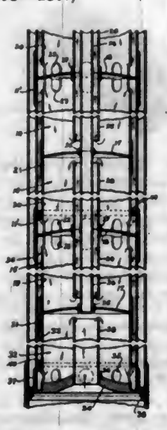
the disk, a channel in the face of the ring at the side opposite the contacting shoulders and a plurality of grinding sections in the channel.

1,663,311. APPARATUS FOR ELEVATING FLUID. LESTER H. MILES, Los Angeles, Calif. Filed Sept. 8, 1926. Serial No. 134,170. 4 Claims. (Cl. 166—2.)



1. In a device of the class described, a casing, said casing having oil lifting means therein, said means comprising a plurality of sections, each section constituting a lifting stage, each of said sections including an inverted cup-shaped member and a necked member fitted within said cup-shaped member, said cup-shaped member having apertures near the bottom thereof, a passageway through said neck member, said neck member terminating short of the closed end of said cup-shaped member.

1,663,312. APPARATUS FOR ELEVATING OIL AND OTHER FLUIDS. LESTER H. MILES, Los Angeles, Calif. Filed Oct. 27, 1926. Serial No. 144,597. 7 Claims. (Cl. 103—239.)



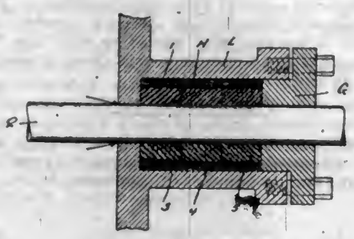
1. In a fluid operated pump, a pair of spaced tubes comprising an inner and outer tube, means to divide said outer tube into a plurality of pumping compartments, means to divide said inner tube into a plurality of pumping compartments, and means to afford communication between said compartments, means for admitting the operating fluid and the liquid to the bottom compartment and means for discharging the pumped liquid from the top compartment.

1,663,313. ADJUSTING MECHANISM FOR PRESSURE GAUGES. JOSEPH W. MOTHERWELL, Melrose, Mass., assignor to The Ashton Valve Company, a Corporation of Massachusetts. Continuation of application Serial No. 715,399, filed May 23, 1924. This application filed Dec. 27, 1924. Serial No. 758,414. 4 Claims. (Cl. 73—109.)



1. A device of the character described comprising an indicator; a Bourdon tube; means to operatively connect said indicator and said tube including two leaf springs; and a member rotatable to adjust said springs.

1,663,314. PACKING. NORMAN B. MILLER, New York, N. Y. Filed Aug. 25, 1923. Serial No. 659,857. 4 Claims. (Cl. 154—45.5.)



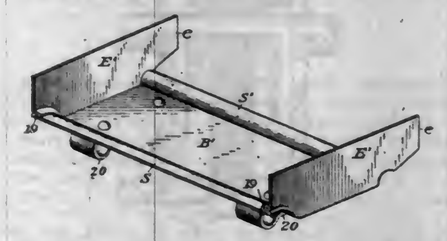
1. A packing adapted to be placed within a stuffing box encircling a shaft in the usual manner, said packing consisting of an elongated body presenting in cross section when within the stuffing box an inner part disposed so as to engage directly against the shaft and an outer part radially beyond the inner part to engage directly against the annular wall of the stuffing box, said two parts being connected together as an integral mass, the inner part extending the full width of the body and being made up throughout of alternate layers of relatively stiff and relatively resilient material, said layers extending obliquely through said inner part, and the outer part also extending the full width of the body and being of a substantially uniformly resilient character throughout its width adapted to serve as a cushion for the inner part substantially as described.

1,663,315. CONNECTING MEANS FOR SPRINGS. LOUIS EDWARD PITTONI, Jamaica, and GEORGE F. SISBOWER, Flushing, N. Y., assignors to Rome Metallic Bedstead Company, a Corporation of New York. Filed Aug. 5, 1924. Serial No. 730,206. 4 Claims. (Cl. 5—269.)



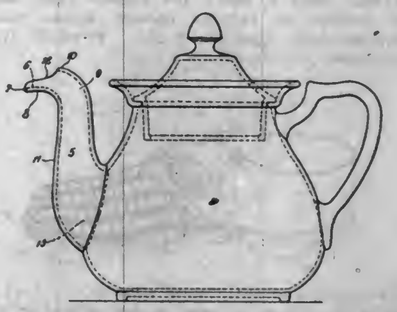
1. An upholstery spring, a connecting member adapted to engage the upholstery spring and having a bearing point adapted to press against a spacer spring to hold the spacer spring in engagement with the upholstery spring, a spacer spring having an end portion adapted to be brought into compression between said bearing point and the upholstery spring by rotation of the spacer spring, and a latch on the spacer spring adapted to engage the upholstery spring to prevent the spacer spring from rotating in a reverse direction and separating from the upholstery spring.

1,663,316. METHOD OF MAKING SHEET-METAL ARTICLES. ROBERT V. PROCTOR, Youngstown, Ohio, assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 16, 1924. Serial No. 726,315. 11 Claims. (Cl. 153—3.)



11. The method of manufacturing sheet metal articles comprising forming a blank, shaping said blank to produce a plurality of corrugations, subjecting said corrugations to pressure to cause the metal therein to flow into one fold and compressing said fold.

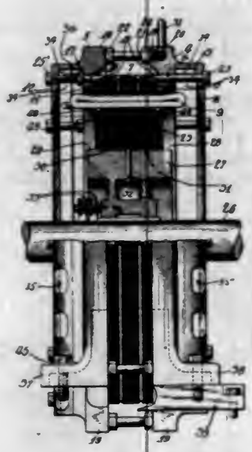
1,663,317. SPOUT FOR COFFEEPOTS AND THE LIKE. ISAAC D. RICHHEIMER, New York, N. Y. Filed Aug. 20, 1924. Serial No. 733,048. 2 Claims. (Cl. 53—3.)



1. A spout for a coffee pot, or the like, having an elongated lip projecting beyond the top of its discharge end, and an abrupt elbow connecting the spout and the lip,

the top side of the lip and the bottom side of the lip being slightly convexly curved longitudinally and the extreme outer ends of said top side and bottom side being slightly rounded to merge together at the extreme outer end of the lip, the said longitudinal curvature of the top side and of the bottom side of the lip being so slight that both said top side and said bottom side are almost horizontal and parallel, the top side having such a slight curvature that when the pot is returned to horizontal position after pouring whatever fluid remains on the top side of the lip will draw back and run down inside the spout, and the bottom side of the lip being sufficiently lowered at its extreme end to prevent any accumulation of fluid thereon from traveling outside the spout.

1,663,318. ELECTRIC MACHINE. THEODOR SCHOU and RICHARD L. BEHRENS, Mansfield, Ohio, assignors to The Ideal Electric & Manufacturing Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 4, 1923. Serial No. 643,159. 8 Claims. (Cl. 171—252.)



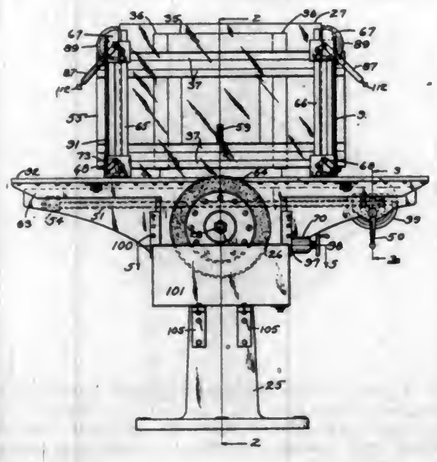
2. An electrical machine comprising an annular core, two annular frame parts on opposite sides of the core and secured tightly against the latter, and adjusting screws between the peripheral edges of the frame parts tending to secure even pressure throughout the core.

1,663,319. SHOE AND METHOD FOR FORMING THE SAME. JOHN B. SNELL, Los Angeles, Calif., assignor of one-half to Anthony Richard Kuhns, Colorado Springs, Colo. Filed Mar. 9, 1927. Serial No. 173,880. 2 Claims. (Cl. 36—3.)



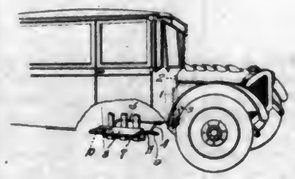
1. The method of forming a shoe which comprises cutting a strip of leather in the shape of a sole, punching a plurality of apertures marginally around said sole, weaving a strand of leather transversely of said sole through said apertures, weaving a second strand of leather transversely of said sole through said apertures in and about said first mentioned strand, thereby forming a cross-weave, cutting a second strip of leather in the form of a sole, and fastening the same beneath said first mentioned strip as and for the purpose specified.

1,663,320. GLASS-GRINDING MACHINE. EDGAR R. STODDARD and LOUIS C. ZILKY, South Bend, Ind., assignors to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed June 11, 1925. Serial No. 36,382. 4 Claims. (Cl. 51—92.)



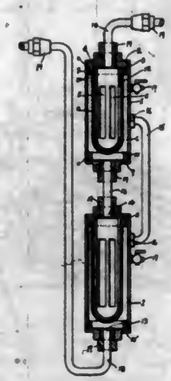
2. In a machine for forming the edges of glass plates, a stationary base provided with a slidable carriage having vertically disposed slides carrying a frame, vertically disposed supporting members horizontally adjustable on said frame and vertically adjustable glass clamping members supported on said supporting members, a grinding wheel disposed beneath said clamping members, and a vertically adjustable table carried by said base for initially positioning said plates in said clamping members in respect to said wheel.

1,663,321. EXTENSION STEP. JOHN BELL STROUD, Pass Christian, Miss. Filed June 7, 1926. Serial No. 114,353. 1 Claim. (Cl. 280—166.)



In combination with a fixed step, an extensible step, Z-shaped arms supporting the extensible step, a transverse bar secured to the fixed step at the rear edge of the latter, said arms bearing upon and being slidable over said bar, and means for imparting longitudinal movement to said arms, said means comprising a vertical shaft provided with a turning crank, and a lateral arm at the lower end of the shaft having a universal connection with one of the first said arms, both of the first said arms being connected together beyond said universal connection.

1,663,322. GASOLINE AND OIL FILTER. JOHN TEKAVEC, Cleveland, Ohio. Filed May 9, 1927. Serial No. 189,922. 5 Claims. (Cl. 210—183.)



1. The combination of a container having a testing cock and an auxiliary by-pass on its outer surface, a lower cap screw threadedly engaging the container, a closing cap detachably secured to the container and having a threaded socket integrally formed therein, a cylinder having a plurality of longitudinal apertures and a semi-spherical closed end, said cylinder screw threadedly engaging the closing cap, a filtering element externally engaging the cylinder, holding means for securing the filtering element to the cylinder and sealing means positioned between each cap and the container.

1,663,323. PRODUCTION OF EMULSIONS. WILFRED AMBROSE WHATMOUGH, Finchley, England. Filed May 14, 1927, Serial No. 191,546, and in Great Britain May 13, 1926. 3 Claims. (Cl. 167—6.)

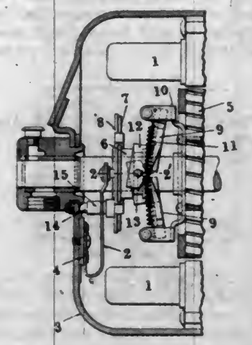
2. A process for the production of an emulsion consisting in mixing with a fatty oil a small quantity of oleic acid and then mixing said mixture with water containing neutralized casein to which a small quantity of an alkali has been mixed, said quantity being an amount such that the interfacial tension between the oil and water phases is sufficiently reduced to permit rapid and substantially spontaneous emulsification.

1,663,324. SLEEPING DOLL. JOHN N. WHITEHOUSE, New York, N. Y., assignor to Markon Mfg. Co. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1925. Serial No. 65,283. 2 Claims. (Cl. 46—40.)



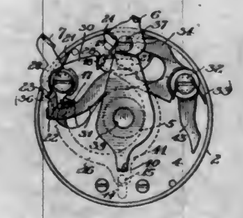
1. An eye mechanism for dolls comprising an attaching plate, a shaft carried by said plate, a hollow eye open at the rear mounted on said shaft on either side of said plate, a weight, a wire secured to said weight and having two extending ends, one of said ends being bent around said shaft inside of one of said eyes at such an angle that the wire touches each side of the eye and engages the inner surface of the shaft at a point inside the eye.

1,663,325. AUTOMATIC SWITCH MECHANISM. CARL H. WOLFF, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 18, 1926. Serial No. 82,056. 2 Claims. (Cl. 200—80.)



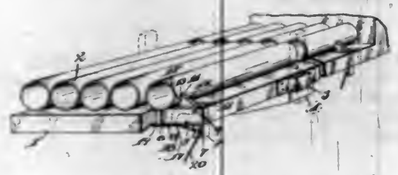
1. In a dynamo electric machine having stationary and revolving parts, a pair of resiliently mounted contacts carried by a stationary part, stop members limiting the forward movement of said contacts, a circular circuit closing member mounted on a revolving part of the machine, means holding said circuit closing member in engagement with said contacts and in frictional engagement with said stops when the revolving member is at rest, and centrifugal means for moving said circuit closing member out of engagement with said contacts and stops when the revolving member has attained a predetermined speed.

1,663,326. PHOTOGRAPHIC SHUTTER. ANDREW WOLLENSAK, Rochester, N. Y., assignor to Wollensak Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 18, 1925. Serial No. 37,981. 12 Claims. (Cl. 95—63.)



1. In a photographic shutter, the combination with a blade mechanism and an operating member, of a master member adapted to actuate the blade mechanism and having a combined pivotal and bodily movement influenced by the operating member.

1,663,327. SAFETY DOG FOR TRUCKS AND CARS. DAVID H. YAKE, Los Angeles, Calif., assignor of one-half to Otis Scott, Whittier, Calif. Filed Feb. 14, 1927. Serial No. 168,063. 9 Claims. (Cl. 280—145.)



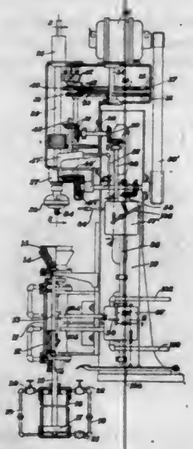
1. A safety dog for truck platforms and the like, comprising a housing adapted to be embedded in said platform, a latch pivoted in said housing and means for normally urging said latch into a position projecting above said platform.

1,663,328. SWIMMING DEVICE. FELIX ARNOLD, Santa Barbara, Calif. Filed Mar. 23, 1927. Serial No. 177,543. 5 Claims. (Cl. 9—21.)



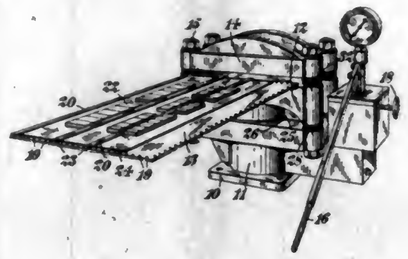
1. A swimming paddle comprising in combination a back adapted to be attached to a limb of the user, said back being wedge-shaped, a channel piece attached to said back, said channel piece being narrower than said back, angle pieces disposed against said channel pieces and against said back, and a pair of paddles pivoted within said angle pieces for swimming movement.

1,663,329. FORMING AND TAPPING MACHINE. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Feb. 12, 1925. Serial No. 8,824. 33 Claims. (Cl. 25—3.)



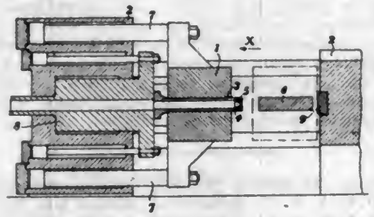
1. The combination with a thread forming device of a spindle for rotating said device, means for moving said spindle longitudinally when rotated and a drive for rotating said spindle, said drive including an interrupted gear for reversing the rotation of said spindle at a definite position in the movement thereof.

1,663,330. EMBOSSING MACHINE. FRANK STANLEY BAKER and JOHN LOUGHER RICHARDS, London, England, assignors to Hydro-Press Machines Limited, London, England, a British Company. Filed June 20, 1927, Serial No. 200,208, and in Great Britain June 11, 1926. 2 Claims. (Cl. 101—393.)



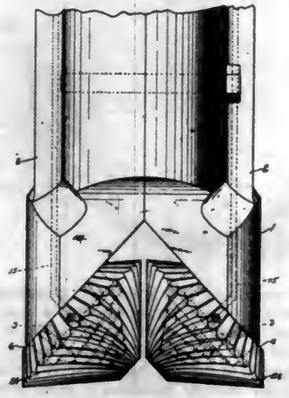
1. In an embossing machine of the kind described, a platen provided along its marginal edges with rows of spaced holes; and an alignment bar having two projecting members, one at each end, directed transversely to the direction of length of the bar and adapted to enter corresponding holes in opposite margins of the platen, said projecting members being displaced laterally from the longitudinal center line of the bar toward the same side thereof.

1,663,331. EXTRUSION PRESS. ALFRED BORN, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed June 24, 1926, Serial No. 118,381, and in Germany June 24, 1925. 1 Claim. (Cl. 207—9.)



An extrusion press for the manufacture of rod shaped or tubular bodies comprising a hollow ram, a matrix mounted on said ram, a counter-pressure abutment opposite said ram, said ram and abutment being relatively movable, a billet holder adapted to slip over said ram, said holder being shorter than said ram and shorter than the distance between the head of said ram and said abutment in their most remote relative positions, and means for reciprocating said holder, the stroke of said reciprocating means being of such length that said matrix is exposed in either end position of the holder.

1,663,332. ROCK BIT. CLINTON H. BULL, Columbus, Ohio, assignor of one-half to Clarence C. Le May, Columbus, Ohio. Filed Aug. 4, 1925. Serial No. 48,065. 6 Claims. (Cl. 255—71.)



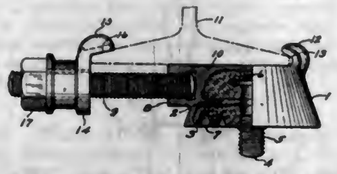
3. The combination with a rotary drill head, of a stub shaft carried thereby, a bushing engaged with the stub shaft, a bit rotatably engaged upon the bushing, and plates rockable in the bearing shaft and rotatably interlocking the bit and body, as and for the purpose set forth.

1,663,333. FUSE. JAMES H. CARMEAN, Kansas City, Mo. Filed Nov. 2, 1925. Serial No. 66,358. 1 Claim. (Cl. 200—142.)



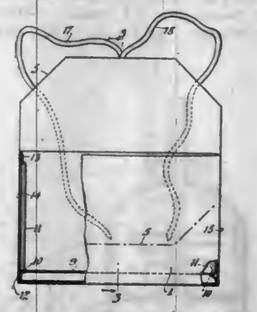
A cut-out element connecting terminals in an electrical heating circuit, comprising resilient members engaged with the terminals, and a link comprising a disk having opposite heat-reflecting and heat-absorbing surfaces and hooks fusibly attached to the disk and engaged with said resilient members, the hooks being tensioned by said members toward separation from said disk.

1,663,334. SUPPORT. HOMER P. CHANDLER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 27, 1926. Serial No. 125,170. 7 Claims. (Cl. 191—40.)



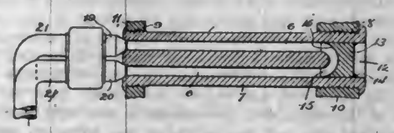
1. A hanger comprising a body member, a supporting stud projecting therefrom and having means of attachment to a conductor support, insulation interposed between the body member and stud, hook-shaped means integrally secured to and projecting at one point from the top edge of the body member to engage an overhead support, means projecting from the side of the body member at the opposite side from the hook means, a slidable member mounted on the projecting means and having hook-shaped means to engage the overhead support and an adjustable member mounted on the projecting means to engage the slidable means to move the slidable means into engagement with the overhead support and maintain the hook-shaped means in locked relation with the said support.

1,663,335. PORTFOLIO. LEONARD DANZIGER, New York, N. Y. Filed May 6, 1927. Serial No. 189,377. 5 Claims. (Cl. 129—1.)



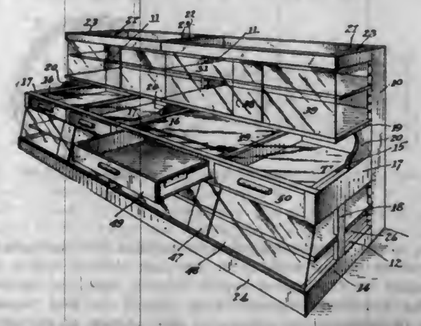
2. A portfolio, comprising a body defining a pocket, a flap for covering said pocket, a folder adapted to be positioned in said pocket, and flexible means connected with the body and with the folder for limiting the movement of the folder as it is moved out of the pocket.

1,663,336. STAY BOLT FOR BOILERS. ETHAN I. DODDS, Central Valley, N. Y., assignor, by mesne assignments, to Flannery Bolt Company, a Corporation of Delaware (1926). Filed Sept. 24, 1925. Serial No. 58,373. 13 Claims. (Cl. 85—1.5.)



1. A staybolt having a plurality of longitudinal passages side by side and in communication at their inner ends and receiving testing means.

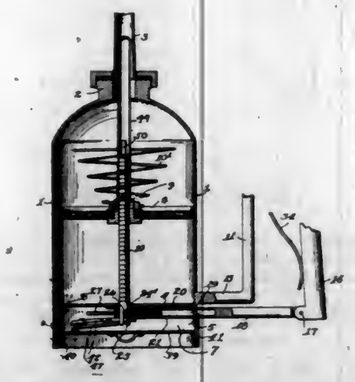
1,663,337. WALL CASE. ROBERT I. EUSTIS and FRED S. BEIGER, Los Angeles, Calif. Filed Jan. 19, 1926. Serial No. 82,210. 7 Claims. (Cl. 312—122.)



1. A wall case unit comprising two upright side members, supporting members projecting forwardly from said side members, shelves mounted between said side mem-

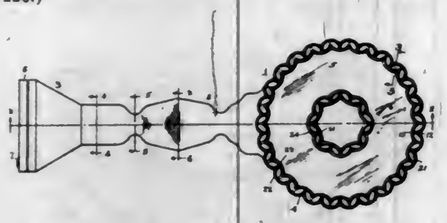
bers having their end edges flush with the faces of said side members, whereby when a plurality of said units are assembled side by side, the end edges of the shelves will abut each other forwardly of said side members so as to present shelves of continuous appearance extending across all of the units, and closures mounted upon said supporting members adapted to close over the forward edges of said shelves whereby when a plurality of units are placed side by side, said closures may be completely slid from one unit to another.

1,663,338. DISPENSING DEVICE. LOUIS GAGNE, Willow Bunch, Saskatchewan, Canada. Filed May 6, 1926. Serial No. 107,158. 10 Claims. (Cl. 221—47.)



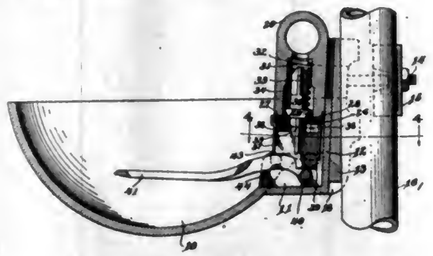
3. The combination of a receptacle having a lubricant containing chamber and a base chamber, a removable closure for the base chamber, a piston in the lubricant-containing chamber, a rod in said chamber and in threaded engagement with the piston and extending at its lower end into the base chamber, pawl and ratchet mechanism in said base chamber for intermittently rotating said rod in one direction for advancing the piston, means for operating said pawl and ratchet mechanism from the exterior of the receptacle, and means in said base chamber for rotating the rod for returning the advanced piston to initial position.

1,663,339. GAS BURNER. BERNARD A. GEURINK and LOUIS H. GEURINK, East Cleveland, Ohio. Filed July 13, 1923. Serial No. 651,237. 2 Claims. (Cl. 158—116.)



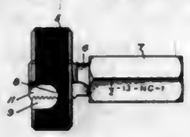
1. A gas burner comprising a tubular gas passageway, a valved intake member at one end thereof and a jet member at the opposite end thereof, said jet member being angularly disposed with respect to said tubular gas passageway, an inner and outer series of lenticular orifices formed in said jet member, each alternate orifice being angularly disposed with respect to its immediately adjacent orifices.

1,663,340. WATER BOWL FOR STOCK. HAAKON P. HANSON, Albert Lea, Minn., assignor to Olson Manufacturing Company, Albert Lea, Minn., a Corporation of Minnesota. Filed June 26, 1925. Serial No. 39,761. 4 Claims. (Cl. 119—75.)



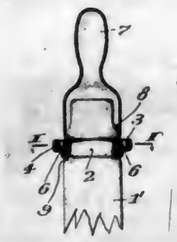
1. In a device of the character described, the combination of a receptacle formed with a rearwardly disposed recess, the outer faces of the sides of said recess being formed with depending lugs a bracket for supporting said receptacle having hooks for receiving said lugs a water supply member including a valve housing, means for securing the water supply member to the bracket and in engagement with a wall of said recess to lock the receptacle to said bracket, a valve seat, a valve within said housing, a lever mounted within the receptacle and operable to lift the valve from its seat, and means for returning the valve to its seat as soon as the lever is released.

1,663,341. SCREW-THREAD TOLERANCE INDICATOR. JOHN O. JOHNSON, New Haven, Conn. Filed Sept. 26, 1925. Serial No. 58,773. 8 Claims. (Cl. 116—114.)



2. A screw thread tolerance indicator including a threaded ring and plug, said ring formed with a sight opening intersecting the bore, one wall of said opening being a plane face, the line defining the intersection of such face with the wall of the bore being substantially parallel to the axis of the bore, and with a second opening communicating with the sight opening and peripheral to the bore, said plug sectioned in the threaded portion thereof to provide a face adapted to be brought into the plane of the aforesaid face.

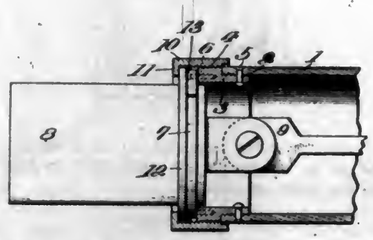
1,663,342. FEEDING BOTTLE FOR INFANTS. JOSEF KÖLLNER, Schaffhausen, Switzerland. Filed May 12, 1927, Serial No. 190,908, and in Switzerland May 18, 1926. 4 Claims. (Cl. 215—11.)



1. An arrangement for fixing teats to feeding bottles for infants, comprising a circular ring of a rigid material and having a U-shaped cross-section, the open part

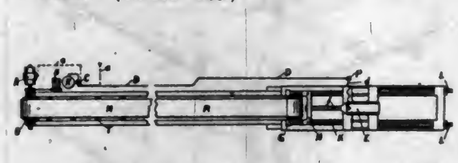
of the cross-section pointing towards the inner side of the ring, and an elastic ring inserted in said U-shaped cross-section of the ring and adapted to cause a pressure on the neck of the bottle when pushed over the latter.

1,663,343. RENEWABLE FUSE. MAX M. LEAR, Jamestown, N. Y., assignor to Monarch Refillable Fuse Company, Jamestown, N. Y., a Corporation of New York. Filed Mar. 17, 1926. Serial No. 95,338. 4 Claims. (Cl. 200—132.)



1. A fuse end cap comprising an open-ended ferrule having an inwardly projecting flange on its outer end and a second internal inwardly projecting portion spaced from said flange, a slotted metal washer seated in said ferrule, said washer being of less diameter than the open end of said ferrule and of greater diameter than the inner diameter of said flange, and means adapted to be inserted within said ferrule between the washer and said second portion for retaining said washer in position within said ferrule, said means being constructed and arranged to permit said washer to be rotated relatively to said ferrule.

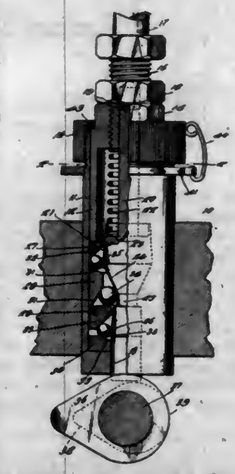
1,663,344. ENDLESS BELT CONVEYER. THOMAS CAYGILL LENNARD, Glasgow, Scotland. Filed July 2, 1927, Serial No. 203,134, and in Great Britain May 21, 1926. 4 Claims. (Cl. 198—208.)



1. In electrically-driven endless belt conveyers, a belt tensioning device, a fluid-pressure engine connected thereto, a pressure fluid supply pipe connected to the engine, a valve controlling the pressure fluid supply, and means controlling said valve and actuated by fluctuations in the current supply to the driving motor of the conveyer.

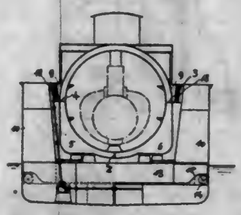
1,663,345. PUSH ROD. JOSEPH BENJAMIN LIEVRE, Mexico, Mexico, assignor of one-tenth to L. D. Ornsby, Bexar County, Tex. Filed Apr. 20, 1925. Serial No. 24,655. 6 Claims. (Cl. 123—90.)

6. In a valve operating mechanism, a push rod comprising inner and outer relatively movable sleeves, means carried by the inner sleeve to engage the stem of a valve, yieldable means to force the inner sleeve outward, a plurality of relatively movable rings having inclined edges and defining annular grooves, balls within the grooves, a grooved cam engaging the push rod to actuate the latter to open the valve, a stem movable within the push rod and controlled by the pressure of the spring of the valve during the opening movement of the latter



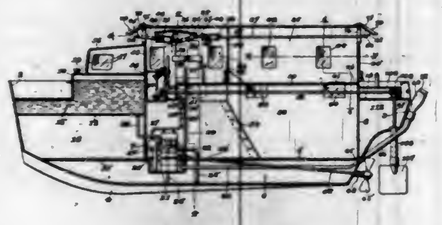
to engage certain of the balls and move said balls outward and position the rings to hold the inner sleeve against inward movement, means included in the ball engaging stem to lock the rings in position and means included in the grooved cam to actuate said stem and release the rings during the operation of the valve.

1,663,346. TESTING DOCK FOR SUBMARINES. PAUL MATTHIESSEN and ADOLF DETLEF MÖLLER, Hamburg, Germany. Filed May 12, 1926, Serial No. 108,626, and in Germany May 18, 1925. 1 Claim. (Cl. 114—0.5.)



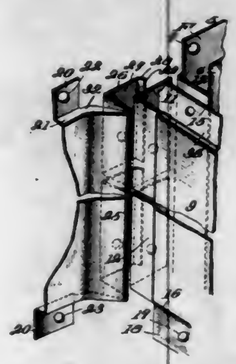
A separable dock comprising in combination a testing cylinder itself of a buoyant capacity sufficient to float itself loaded with a submarine, but not the additional weight of the water for testing, and said dock including complementary portions receiving said tesing cylinder portion, of sufficient buoyancy to float the latter above water level when loaded with the testing water, said complementary portions being laterally expansible to vary the width of the space within which the testing cylinder portion is received, the sides of said space fitting the testing cylinder portion closely when the complementary portions are in contracted position.

1,663,347. MARINE VESSEL. RUDOLPH MILLER, Detroit, Mich., assignor of one-half to Louis C. La Coursiere, Detroit, Mich. Filed Aug. 3, 1927. Serial No. 210,344. 7 Claims. (Cl. 114—211.)



1. In a marine vessel, a hull, means connected to the hull to provide a lower chamber and a pair of upper chambers, said upper chambers arranged one in advance of the other and each provided with a ventilating opening, the floor of said rear chamber having means for the passage of air thereto from the lower chamber, the bottom of said forward chamber having means for the passage of air from such chamber to the lower chamber, ventilators arranged exteriorly of said upper chambers for controlling said ventilating openings, and means for simultaneously adjusting said ventilators and operated from within said forward chamber.

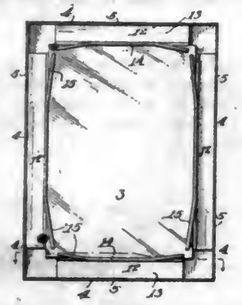
1,663,348. GAS-RANGE CONSTRUCTION. HENRY MOECKER, Jr., Flossmoor, and THEODORE THOMPSON and OTTO HAMMERMEISTER, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Apr. 16, 1927. Serial No. 184,278. 12 Claims. (Cl. 126—39.)



1. A range construction comprising a cooking top having an oven at one side and a splash plate at its rear, a beveled connection between the splash plate and the oven, and the bevel forming said connection being an integral part of said splash plate.

1,663,349. SIGN-LETTER PLATE. ALFRED OTTO, Taylor, and ROBERT OTTO, Lee County, Tex. Filed Apr. 27, 1926. Serial No. 104,078. 4 Claims. (Cl. 40—133.)

1. A sign comprising a sheet metal stencil plate having a perforate portion delineating a sign character and provided with marginal rearwardly extending flanges forming a rear housing, an open frame sign character disposed upon the face of said plate, retaining members upon the rear of said plate within the space bounded by said housing, said retaining members having rearwardly extending flanges, and a backing plate disposed between said retaining members and marginally engaged

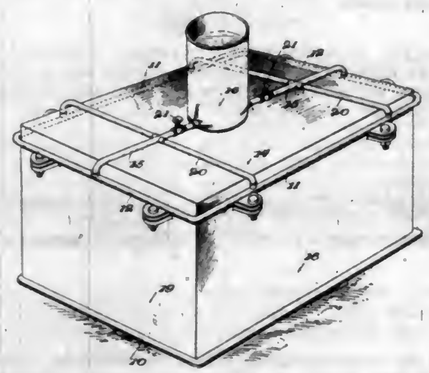


thereby, said retaining members having bendable fingers adapted to be projected over upon said backing plate to hold the same in position.

1,663,350. METHOD OF PRODUCING ACETONE. KOLOMAN RÓKA, Konstanz, Germany, assignor to Holzverkohlungs-Industrie A. G., Konstanz, Germany, a Corporation of Germany. Filed Dec. 12, 1925, Serial No. 75,085, and in Germany Dec. 10, 1924. 10 Claims. (Cl. 260—134.)

1. Process for the production of acetone consisting in bringing into reaction ethyl alcohol and water vapor at temperatures from about 250° C. to about 650° C. in the presence of a catalyst.

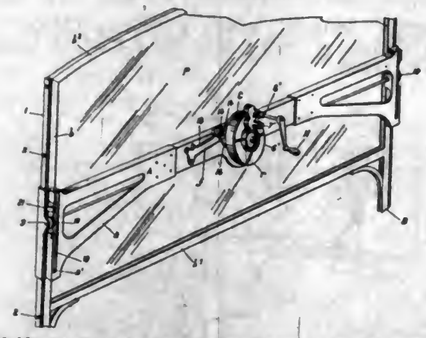
1,663,351. PROCESS FOR TREATING PIG IRON. EDWARD P. ROSS, Riddlesburg, Pa. Filed Sept. 24, 1926. Serial No. 137,634. 1 Claim. (Cl. 148—13.)



The process of treating ingots having a temperature of approximately the temperature of pig iron after being poured into a mold, which comprises confining the ingots in a volume of air enclosed by a heat conducting medium and applying a cooling medium to the heat conducting medium for gradually cooling the ingots.

1,663,352. DEVICE FOR RAISING OR LOWERING WINDOW PANES. JACQUES SAOÛTCHIK, Neuilly-sur-Seine, France. Filed July 7, 1926. Serial No. 120,977. 4 Claims. (Cl. 268—132.)

1. A raising and lowering device for window and like panes, comprising independent end members of channel form in cross section and an intermediate connecting member of channel form in cross section and fitted within the channel formation of the end members, each of the end members being integrally formed with a channel offset from the longitudinal plane of the member and opening inwardly toward the member to



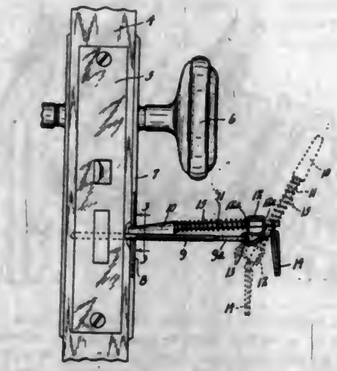
slidably receive a pane-carrying frame, the end members being further formed with an integral channel arranged in the longitudinal plane of the member and opening at right angles to said plane, said latter channel serving to house an operating means and a locking means for the pane frame.

1,663,353. TELEGRAPH CABLE WITH LOADING COILS. HANS SALINGER and JOHANN STAHL, Berlin, Germany. Filed Feb. 8, 1926, Serial No. 86,956, and in Germany Feb. 10, 1925. 1 Claim. (Cl. 178—45.)



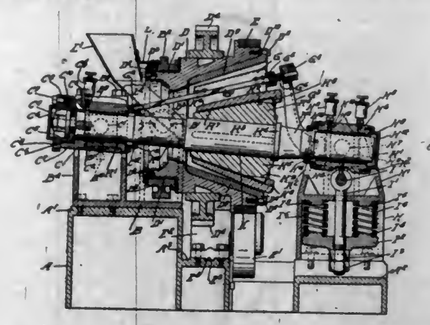
Cable with loading coils exclusively for direct current telegraphy in which the natural frequency of a coil section is at least equal three times the direct current telegraphing frequency.

1,663,354. DOOR-KEY RETAINER. ALLIE SMITH, Minneapolis, Minn. Filed Jan. 12, 1927. Serial No. 160,586. 2 Claims. (Cl. 70—65.)



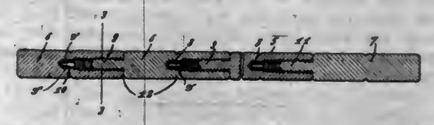
1. A door key retainer comprising a tapered member adapted to be seated against oscillation in the round part of a key hole against the shaft of a key, a plunger carried by said tapered member and axially alined therewith, a connection member in which said plunger is slidably mounted but held against oscillation, an elastic element interposed between said tapered member and said connection member, a stop disposed adjacent the rear end of said plunger to limit the slidable movement of said plunger in said connection member, said connection member having a substantially flat hook adapted to pass through the annular handle of a key to hold said key against oscillation in the door lock.

1,663,355. CONICAL CRUSHING MILL. CHARLES F. SMITH, ARTHUR C. THIELE, and LLOYD P. WALKER, Milwaukee, Wis., assignors to Smith Engineering Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 21, 1926. Serial No. 110,684. 31 Claims. (Cl. 83—13.)



1. A conical crushing mill comprising a rotatably mounted conical concave and a conical crushing head within the concave with its axis at an angle to the axis of the concave, a shaft for such head, a pivotal support for such shaft positioned beyond one end of the concave and a yieldingly mounted support for the opposite end of the shaft positioned beyond the opposite end of the concave.

1,663,356. CURTAIN POLE. CHARLES W. SMITH, Grand Rapids, Mich. Filed Sept. 20, 1926. Serial No. 136,581. 1 Claim. (Cl. 156—19.)



A curtain pole comprising a pair of terminal units and a plurality of interchangeable intermediate units, each of said intermediate units provided with a socket opening at one end thereof and a reduced extension projecting from the other end thereof, one of said terminal units formed with a socket opening at its inner end, the other of said terminal units having a reduced extension projecting from its inner end, the wall of each of said sockets threaded from its outer end to a point removed from its inner end, each of said extensions peripherally threaded to a point removed from its outer end, thereby providing a smooth peripheral portion for frictional engagement with the non-threaded portion of the wall of a socket and in connection with the threaded portions of the walls of said sockets and the threaded portion of the peripheries of said extensions detachably connecting said units together in abutting engagement.

1,663,357. LIGHTING FIXTURE. GEZA STEFAN, Chicago, Ill. Filed Feb. 2, 1927. Serial No. 165,327. 1 Claim. (Cl. 240—81.)

In a lighting fixture of the character described the combination of a base of metal having tubular telescoping members of metal mounted thereon, and electric light bulbs supported by said telescoping members, an electric circuit supplying current to said bulbs, said base

and tubular members forming one conductor for said circuit, an electric conductor comprising a single wire extending through said tubular members to said bulbs forming a portion of the other conductor for said circuit, means cooperating with said tubular members, for assuring a good electrical contact therebetween at all times, said means comprising a metallic sleeve having inwardly extending spring fingers formed thereon, said sleeve being rigidly secured to one of said tubular members in position for bringing the spring fingers thereof into yielding engagement with the other of said tubular members, a me-



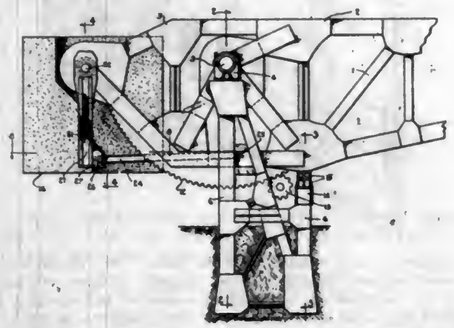
tallic bracket mounted and supported within said base and insulated therefrom, a metallic shaft mounted on said bracket, said shaft having a metallic spring wound drum mounted for rotation thereon, said drum having a portion of said wire wound thereon for permitting the extension or withdrawal thereof as the telescoping members are extended or collapsed, and means surrounding said drum for insulating the same from said base, said drum and shaft being electrically connected with said single wire wound thereon so as to form the remaining portion of said conductor for said circuit.

1,663,358. COMBINED PROTECTIVE AND SIGNALING DEVICE. JAY G. STEPHENSON, Athens, Tenn. Filed Nov. 6, 1926. Serial No. 146,756. 6 Claims. (Cl. 116—135.)



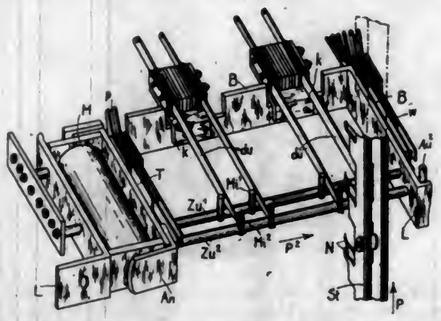
6. In a signal, a supported open-ended casing, a longitudinally shiftable actuating rod passing therethrough, a plurality of signal elements mounted on the rod and normally disposed within the casing, the actuating rod being shiftable to predetermined positions to successively expose the signal elements, and latch means for retaining the actuating rod in selected positions.

1,663,359. BRIDGE. JOSEPH B. STRAUSS, Chicago, Ill. Filed June 11, 1923. Serial No. 644,526. 8 Claims. (Cl. 14—38.)



4. A bridge comprising a moving leaf having separated main trusses, trunnions connected with said trusses, supports upon which said trunnions are carried, a concrete counterweight, a metal frame embedded in said counterweight having separated top and bottom members, a link connecting the counterweight with the leaf support, said link connected with said bottom member, said counterweight metallic frame having side members connected with the bottom member and pins connecting said side members with said trusses.

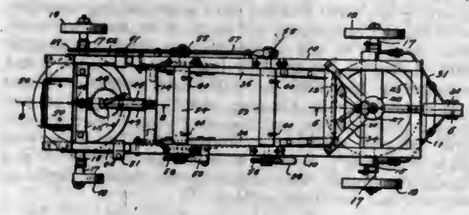
1,663,360. SWITCH DEVICE FOR AUTOMATIC TELEPHONE-EXCHANGE SYSTEMS. FRITZ TRACHSEL, Bern, Switzerland, assignor to Chr. Gfeller Aktiengesellschaft, Bern-Bumpliz, Switzerland. Filed Apr. 14, 1927, Serial No. 183,764, and in Germany Apr. 17, 1926. 1 Claim. (Cl. 179—27.5.)



In an automatic telephone exchance system the combination of a switch device comprising a stirrup-shaped bracket, an electromagnet fixed to one leg of said bracket, a contact set fixed to the outside of the other leg and included in the circuit of the magnet, an intermediate leg of the bracket and an angular armature pivoted at the end of this leg, two rods disposed inside of the bracket and provided with insulated carrier pins, one rod slidingly held at one end in a bracket leg and attached to said armature and the other rod slidingly supported in a leg of the bracket and in the intermediate leg and attached to a contact member of said contact set, transverse insulated contact springs, capable of maintaining the relief

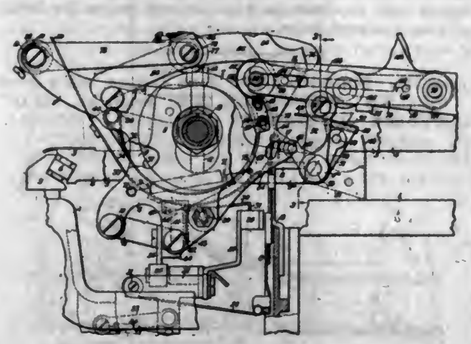
position of said armature while leaning against the pins of the first rod and capacle of assuming a position of readiness when displaced by the first rod hinged to the armature, and electrically conducting switching blades arranged transversely to said rods, and springs near the ends of the latter and provided with sideways projecting lugs adapted to seize the ends of these springs in order to establish the contact and to displace the second rod for breaking the circuit of the magnet and restoring again the initial position.

1,663,361. DIRIGIBLE AXLE FOR AGRICULTURAL IMPLEMENTS. WILLIAM R. WAGONSELLER, Montague, Tex. Filed Nov. 8, 1923. Serial No. 673,581. 2 Claims. (Cl. 280—99.)



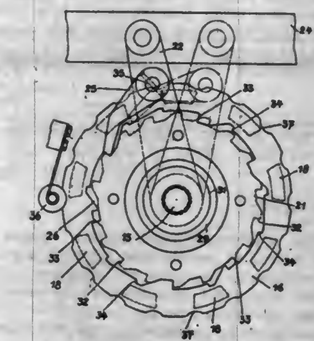
1. In an agricultural implement, a carrying frame including a bed and arch-shaped axle, coacting rings one on said bed and one on the bight of said axle forming a fifth wheel connection, a cross member on and within the vertical confines of said bed forwardly of the rings, an upstanding shaft surrounded by the rings extending above and below the bed, brackets extending rearwardly from said cross member one above and one below said bed, said shafts being journaled in said brackets, a pivot member extending from the bed through the rings, said axle and lower bracket, an element on the lowermost ring having a concave toothed surface, a gear on said shaft below the bed in engagement with said toothed surface, a detent plate on said shaft between the uppermost bracket and said bed, and a detent adjacent the detent plate for coaction therewith.

1,663,362. TYPEWRITING MACHINE. SIGURD L. WALSON, Lyndhurst, N. J., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Sept. 2, 1926. Serial No. 133,228. 35 Claims. (Cl. 197—127.)



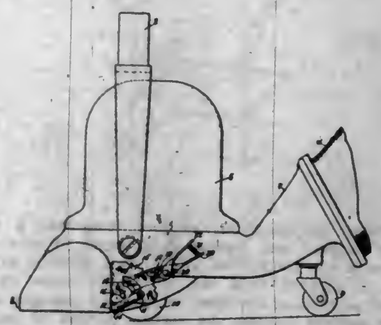
1. In a typewriting machine, the combination of a platen; paper feed rollers; a spindle on which said feed rollers are mounted; means for guiding said spindle to receive a shifting movement towards and from the platen for shifting the feed rollers into and out of contact therewith; and manually controlled means for shifting said spindle, said manually controlled means comprising a toggle coacting with said end of the spindle, a finger piece, and connections therefrom for simultaneously straightening both toggles to apply to feed rollers.

1,663,363. PLATEN PRINTING PRESS. PAUL WIEGHARDT, Magdeburg, Germany, assignor to the Firm: Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Dec. 31, 1926, Serial No. 158,369, and in Germany Jan. 6, 1926. 6 Claims. (Cl. 101—198.)



1. In a platen printing press having a reciprocating printing plate for printing materials fed through the press with variably composed patterns, a rotatable disk having an axially disposed interrupted flange, a stop member on said printing plate adapted to cooperate with said interrupted flange to hold said printing plate in inoperative position or to permit said printing plate to execute a printing stroke depending upon the angular position of said disk, means for rotating said disk, an auxiliary mechanism connected with said disk rotating means adapted to permit said disk rotating means to operate only at predetermined positions of said auxiliary mechanism.

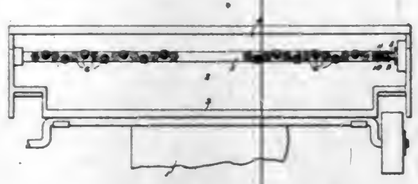
1,663,364. NOZZLE ADJUSTMENT FOR VACUUM CLEANERS. THOMAS O. ADAMS, New Philadelphia, Ohio, assignor, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio, a Corporation of Ohio. Filed May 19, 1923. Serial No. 640,042. 1 Claim. (Cl. 15—16.)



A portable cleaner provided with a suction nozzle, a crank shaft journaled upon the cleaner adjacent to the nozzle and having crank arms, wheels upon the crank shaft, a sector fixed upon the cleaner and having an arcuate slot, a lever journaled upon the cleaner and having a lug extending through said arcuate slot and bearing upon one crank arm of the crank shaft, a pawl pivoted

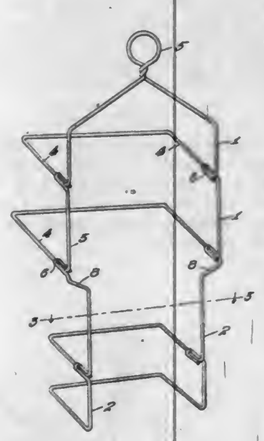
upon the lever for engagement with the sector, and provided with a handle portion and a spring between said handle portion and lever for normally holding the pawl in engagement with the sector.

1,663,365. BRUSH FOR VACUUM CLEANERS. WILLIAM J. WISE and THOMAS O. ADAMS, New Philadelphia, Ohio, assignors, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio, a Corporation of Ohio. Filed July 5, 1923. Serial No. 649,392. 3 Claims. (Cl. 15—10.)



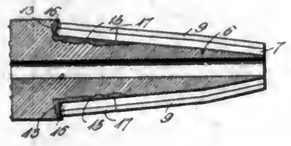
1. A vacuum cleaner provided with a suction mouth and a brush journaled therein and having a zig-zag row of bristles frictionally engaging the objective surface at all times and means for limiting the movement of the brush in each direction whereby to and fro movement of the cleaner upon the objective surface will cause oscillation of the brush.

1,663,366. HOLDER. FRANK BERRY, Anita, Pa. Filed Jan. 7, 1927, Serial No. 159,652. Renewed Dec. 12, 1927. 1 Claim. (Cl. 211—119.)



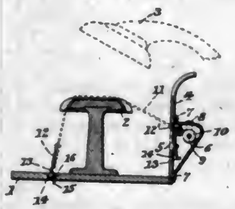
A holder of the class described comprising a number of sections each formed of a length of wire bent to form a vertical portion and a shelf forming portion which is inclined from the horizontal, hooks on the vertical portions of the lower sections for engaging parts of the inclined portion, the vertical portion of the top section having a loop formed at its upper end, the hooks being arranged parallel with the arms of the shelf forming portions with portions of the hooks engaging portions of the section above, with the bights of the hooks resting upon the arms of the shelf forming portions so that sheets of paper of the like will be held on the shelf forming portions by having parts placed under the hooks.

1,663,367. PROCESS OF REPAIRING TOOLS. CHARLES HENRY BROWN, Breckenridge, Tex. Filed Sept. 2, 1926. Serial No. 133,251. 3 Claims. (Cl. 76—101.)



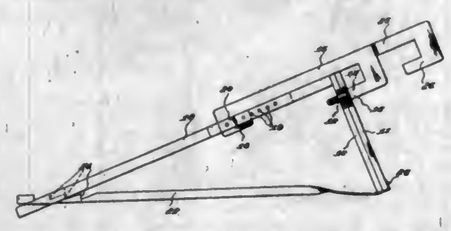
3. A process of repairing a tool of a type having a body formed with a guiding surface for a movable member, a bumping shoulder at one end of said surface, and parallel undercut guide ridges at two edges of said surface terminating in spaced relation with said bumping shoulder; said process comprising the steps of building up worn-away portions of said surface and said bumping shoulder with molten metal, finishing the surface of such metal, substituting for worn or broken end portions of said ridges toward said bumping shoulder, a pair of preformed ridge sections and disposing them in contact with said bumping shoulder, welding said ridge sections in place, including a welding of said ridge sections to said bumping shoulder, and tempering the finished built up portions and the ridge sections.

1,663,368. COMBINATION BACKPLATE AND PLAITING ATTACHMENT FOR PRESSING MACHINES. HYMAN DIENER, Washington, D. C., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 4, 1926. Serial No. 146,206. 5 Claims. (Cl. 68—9.)



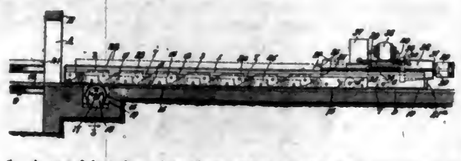
1. In a pressing machine, the combination with a table and pressing element thereon; of a back plate carried on said table and extensible means supported on the rear of said plate and adapted for cooperation with said pressing element to retain garments in position on the latter at predetermined times.

1,663,369. BOLT HOLDER. JOHN DOBSON, Black River Falls, Wis. Filed Sept. 14, 1926. Serial No. 135,467. 3 Claims. (Cl. 81—13.)



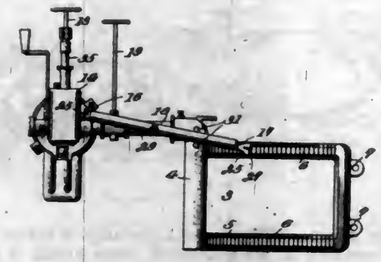
1. A bolt holder comprising a bar having a return bend terminating in a slot engaging extremity, a lever fulcrumed to the bar and adapted to co-act with the teminus to clamp together the work, and means engaging the work and the lever for holding the lever in clamping position.

1,663,370. MACHINE FOR CHARGING AND DISCHARGING ANNEALING OVENS, ETC. HARRY E. EDWARDS, Niles, Ohio. Filed Feb. 1, 1927. Serial No. 165,183. 6 Claims. (Cl. 214—26.)



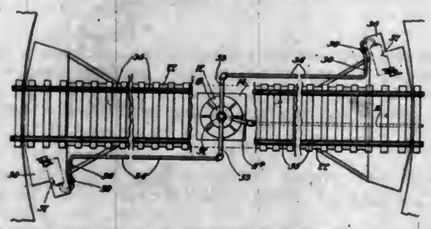
1. A machine for charging ovens or the like comprising a movable base frame, anti-friction devices carried by the base frame, load-supporting bars mounted over the base frame and having inclined cam surfaces on their under sides to ride on the anti-friction devices, a pressure cylinder mounted on the base frame, arms connected to the supporting bars to move the latter longitudinally when the pressure is admitted to the cylinder to cause the bars to elevate a load thereon, and springs on said arms to retract the bars and release the load.

1,663,371. LIGHTER FOR BURNERS OF RANGES. FREDERICK L. FULDAUER, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 21, 1926. Serial No. 156,159. 10 Claims. (Cl. 126—44.)



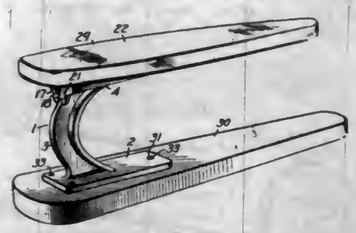
1. A hydrocarbon range comprising an open burner portion and an oven, a main burner located in the open burner portion comprising a housing, a generator adapted to supply vapor to the said housing, a burner located in the said oven portion, a conduit passing through the wall nearest to the open portion, one end connected with the main burner housing and the other end connected with the oven burner, and a lighting tube extending through the said wall having its outer end adjacent the main burner housing, its inner end adjacent the oven burner, and a vapor communication between the said lighter tube and the said conduit, whereby the oven burner may be lighted as described.

1,663,372. AIR-SUPPLY CONNECTION FOR TURNTABLES. CHAUNCEY MARSH GOODRICH, Windsor, Ontario, Canada. Filed Dec. 23, 1926, Serial No. 156,688, and in Canada Dec. 14, 1926. 1 Claim. (Cl. 104—17.)



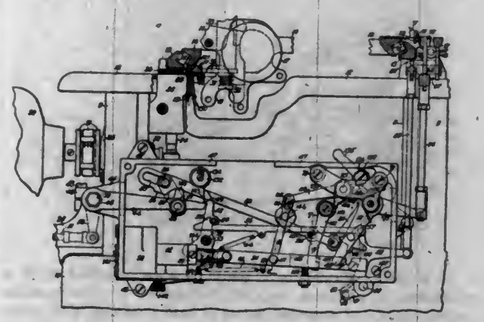
Air supply connection for turntables including the combination with a hollow stationary center bearing member and the turntable proper structure, of an air supply pipe extended into said hollow stationary center bearing member to supply air thereto, a stationary vertical air conducting pipe leading from said hollow stationary center bearing member and extending upwardly into the turntable proper structure, said vertical air conducting pipe being composed of two sections detachably connected together, a hollow coupling casting surrounding the upper end of said vertical air conducting pipe, a sealing bushing surrounding the upper end of said pipe and mounted in said casting to form a rotary sealed joint therewith, a T-connection threaded in said hollow coupling casting and communicating with the upper end of said vertical air conducting pipe, cross pipes connected to said T-connection and mounted in the turntable proper structure to rotate therewith, and air conducting pipes connected with said cross pipes and extending along the main center beams of the turntable proper structure toward the opposite ends thereof to supply air to the air engines or hoists for the turntable.

1,663,373. PRESS BOARD. ARO M. HARVEY, Kansas City, Mo. Filed Nov. 22, 1926. Serial No. 149,928. 6 Claims. (Cl. 68—10.)



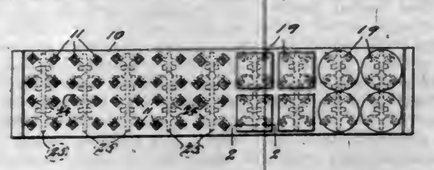
1. In a device of the class described, a bracket comprising a supporting member having a rearwardly extending rib, a plate integral with the upper end of the supporting member, an attaching member for seating on the plate, a pressing board secured to the attaching member, means for removably securing the attaching member to the plate and means carried by the attaching member for engaging the rib for guiding the attaching member into seated position.

1,663,374. TYPEWRITING AND LIKE MACHINE. FREDERICK A. HART, New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Aug. 5, 1926. Serial No. 127,324. 9 Claims. (Cl. 197—65.)



1. The combination with a traveling carriage, power mechanism for returning said carriage, a part arranged to be moved at the end of the return movement of the carriage, and a shock absorber operated by said part, of a device operable by hand to lock said part in its moved position when it is desired not to use the power mechanism.

1,663,375. TRANSPORTATION SYSTEM. HENRY W. KIRCHNER, St. Louis, Mo. Filed Apr. 4, 1921. Serial No. 458,471. 27 Claims. (Cl. 105—366.)



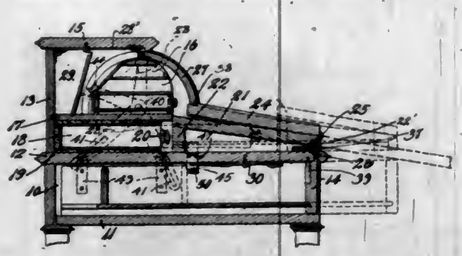
1. The combination with a carrier, of a container supported on the floor thereof and having projections engaging said carrier, said projections occupying planes relative to said carrier so that when said carrier is tilted and the center of gravity of said container is changed, the arcs of movement from the fulcrum point of said container are such as to bind said container in its seat.

1,663,376. SLIPPER. JOHN KOLLER, Johnstown, N. Y. Filed Feb. 20, 1924. Serial No. 694,090. 7 Claims. (Cl. 36—9.)



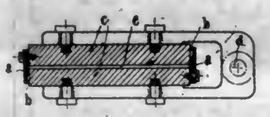
5. An article of foot wear comprising an upper, a sole, a welt strip secured to the lower margin of the upper and united to the sole, a lining for the upper, the said lower margin of the upper, the lower margin of the lining, and the inner edge of the welt strip all being in registration, and a built up insole secured upon the main sole and comprising a lining ply and a ply to give thickness arranged in marginal registration and marginally abutting and flush with said lower margin of the upper.

1,663,377. HOME DESK. LEON KNASTER, Union City, N. J. Filed May 21, 1924, Serial No. 714,909. Renewed Apr. 24, 1926. 8 Claims. (Cl. 45—6.)



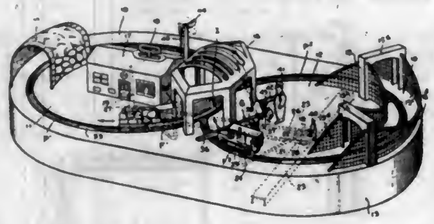
1. A desk comprising a body portion provided with a platform, a partition spaced therefrom, a withdrawable secret container disposed between said platform and partition, a concealed filing chamber disposed above said partition, a sliding top normally retained to close said filing chamber, a drawer mounted in the body of the desk, a sliding table section mounted upon the desk to engage said partition and conceal the secret compartment, and a desk cover mounted upon the body portion and adapted to engage said table section and connected for operation by said drawer.

1,663,378. WAFFLE IRON OR MOLD. LOUIS LEBERT, Pantin, France, assignor to Societe Des Anciens Etablissements a Savy, Jeanjean & Co., Courbevoie, France, a Corporation of France, Baker Perkins, Ltd., London, England, a Corporation of Great Britain, and himself. Filed Mar. 11, 1927, Serial No. 174,546, and in France Mar. 12, 1926. 3 Claims. (Cl. 53—10.)



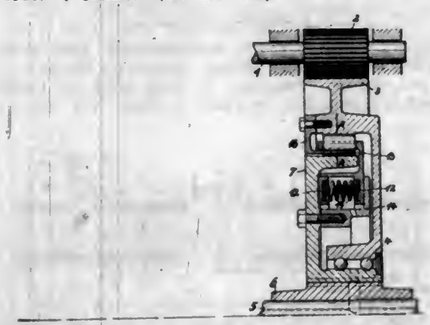
1. A waffle iron, comprising a pair of hingedly-connected, coacting plates having narrow recesses at their margins for the escape of vapours and excess batter from the iron when the plates are practically, but not completely, closed together and to shear off the excess batter when said plates are completely closed; said recesses being so shaped as to produce an abrupt change in the direction of movement of the escaping vapours and thereby cause the latter to reduce the traction exerted on the batter.

1,663,379. ROUNDABOUT TOY. LOUIS MARX, Brooklyn, N. Y. Filed Dec. 1, 1926. Serial No. 151,927. 27 Claims. (Cl. 272—31.)



1. In an amusement device, a plurality of figures movable cyclically in pre-determined paths having a given intersection, means for moving said figures and means controlled by the movement of one of said figures for automatically preventing the other of said figures from passing the said intersection while the said first figure is passing the intersection.

1,663,380. FREE-WHEEL MECHANISM. KARL MAYBACH, Friedrichshafen, Germany, assignor to Maybach Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Filed July 22, 1924, Serial No. 727,599½, and in Germany Aug. 13, 1923. 7 Claims. (Cl. 192—42.)



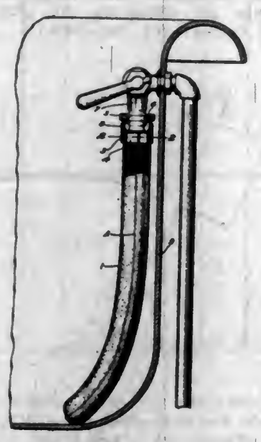
1. A free-wheel mechanism comprising a driving member, a driven member; rolling members arranged between corresponding faces of said first two members, said rolling members being adapted to transmit rotation from said driving member to said driven member; and a disc in frictional connection with said driven member; said disc being adapted automatically to lift said rolling members from the face of said driven member after said driven member has overrun said driving member.

1,663,381. SHOE PROTECTOR. ARTHUR MCKINLEY, Kansas City, Mo. Filed July 13, 1926. Serial No. 122,166. 2 Claims. (Cl. 36—72.)



1. In a shoe protector, a flexible body portion having a pair of side flaps, an end flap, a pair of integral tabs on said body portion between said side and end flaps secured to the wearing face of said protector, and means for securing said side flaps together, said end flap being adapted to underlie said side flaps and being held in position thereby.

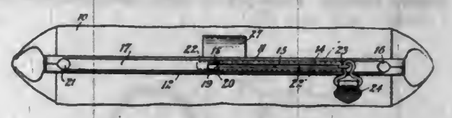
1,663,382. WATER SILENCER. SONYA BEATRICE MERKEL and EMMANUEL DOBROWSKY, New York, N. Y. Filed Apr. 16, 1927. Serial No. 184,406. 3 Claims. (Cl. 137—111.)



2. A water silencer, including a flexible fabric member, a collar, a clamping ring within the silencer securing the same in the collar, and a faucet coupling member having screw-threaded engagement with the collar.

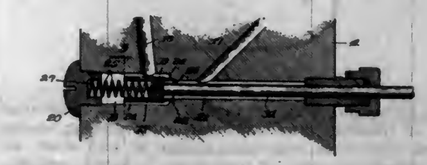
1,663,383. BAG LATCH. MURRY MILLER, New York, N. Y. Filed Feb. 8, 1927. Serial No. 166,759. 8 Claims. (Cl. 292—57.)

1. The combination with a bag frame consisting of hingedly connected sections, of a latch consisting of a bolt movably associated with two tubular members respectively carried by said hingedly connected sections, and said bolt having means movable into and out of



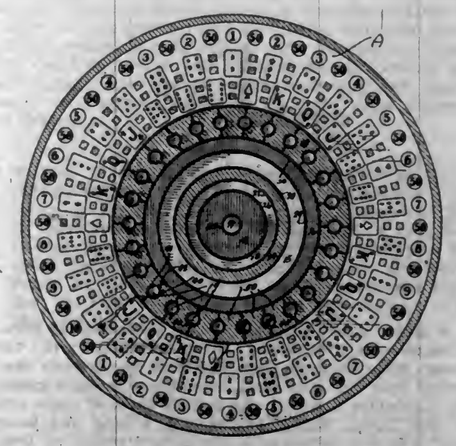
slots respectively in said tubular members for effecting the movement of said bolt, so as to latch and unlatch the sections of said bag frame.

1,663,384. VALVE DEVICE. GEORGE A. MORRISON, Park Ridge, Ill., assignor to Torchweld Equipment Company, Chicago, Ill., a Corporation of Delaware. Original application filed July 3, 1926, Serial No. 120,418. Divided and this application filed Jan. 3, 1927. Serial No. 158,709. 8 Claims. (Cl. 251—159.)



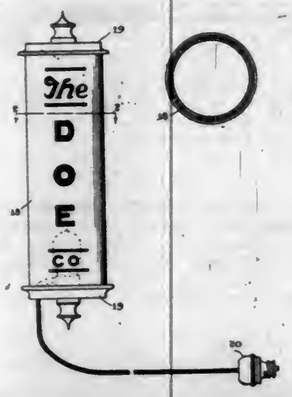
6. A gas-burning device comprising a member containing a gas-passage provided with an outwardly flaring valve seat, and a valve movable to closed position by the pressure of the gas in said passage and cooperating with said seat and having a relatively thin flexible end portion at which it bears conformingly against said seat.

1,663,385. GAME. ARTHUR F. REINHEIMER, Detroit, Mich. Filed Mar. 26, 1926. Serial No. 97,704. 1 Claim. (Cl. 273—102.)



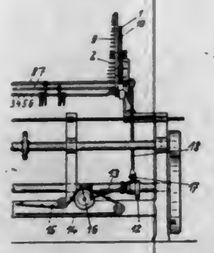
In a target game the combination of a target board having a substantially ring shaped target area thereon outlined by concentric guide walls, said guide walls therebetween having radially extending guide walls in spaced relation, each of said radial guide walls between the concentric guide walls of the ring shaped target area being circularly arranged to provide a pocket.

1,663,386. TRANSPARENT SIGN AND THE METHOD OF MAKING SAME. CYRIL M. RICE, Montreal, Quebec, Canada. Filed Apr. 5, 1926. Serial No. 99,924. 1 Claim. (Cl. 40—132.)



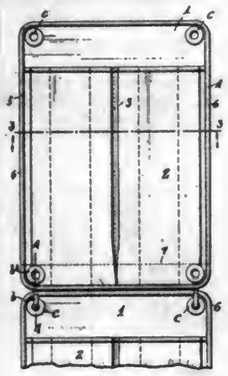
An advertising sign comprising an inner cylindrical sheet of transparent celluloid having advertising matter applied directly on the outer surface of said sheet, an outer cylindrical sheet of transparent celluloid enclosing said inner cylindrical sheet, said sheets having their contacting surfaces chemically treated and united by adhesion to form in effect a unitary cylinder wall with the advertising matter positioned between the inner and outer surfaces of said wall, caps closing the ends of said cylindrical sheet, and illuminating means contained within the cylinder.

1,663,387. DEVICE ON COTTON FRAMES FOR THE PRODUCTION OF BODILY THICKENINGS OF PATTERNS. ARTHUR RICHTER, Bergisdorf, Erzgebirge, Germany. Filed Mar. 9, 1927, Serial No. 173,943, and in Germany Dec. 1, 1926. 1 Claim. (Cl. 66—129.)



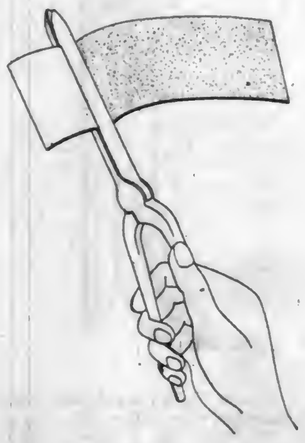
A device on cotton-frames for the production of thickening-patterns, comprising in combination with the frame, with the main shaft and with an eccentric controlled from said main-shaft, several bars carrying guides for thickening threads, one pattern-wheel at each end of said frame, tappets having each a head and being short and long according to the pattern projecting from the inner surface of each pattern-wheel and serving as abutments for said thickening-thread-guides, a pattern-chain controlled by said eccentric, means for raising said pattern wheel prior to each part rotation and means for communicating a part rotation to said pattern-wheel after the knitting of one or two rows of loops in order to bring said pattern wheel out of the range of said thread-guide-bars, so that it descends again by gravity to serve as abutment.

1,663,388. HOLDER FOR SHOES. GUSTAVE G. RONA, New York, N. Y. Filed June 23, 1926. Serial No. 117,939. 1 Claim. (Cl. 150—52.)



In a sectional shoe holder, a backing member of cloth, a cloth-piece superposed thereon and connected approximately at its centre to the backing with a longitudinal line of stitching, a folded piece of material at the side margins and bottom of the holder and enclosing the edges of the said two cloth members and stitched thereto, and a plurality of interlocking members at the top and at the bottom of the holder, the said interlocking members at the bottom being adapted to co-act with the top locking members of a succeeding holder.

1,663,389. WAXING STRIP FOR MARCEL IRONS. ERNEST A. SAMUELSON and RALPH W. MITCHELL, Kansas City, Mo. Filed Mar. 26, 1926. Serial No. 97,809. 3 Claims. (Cl. 132—36.2.)

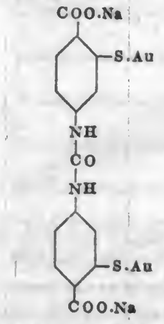


3. In a waxing strip for Marcel irons, a fabric vehicle impregnated with a composition of refined beeswax, oil of eucalyptus and sodium carbonate in substantially the following proportions:

	Parts by weight.
Oil of eucalyptus	10
Refined beeswax	85
Sodium carbonate	5

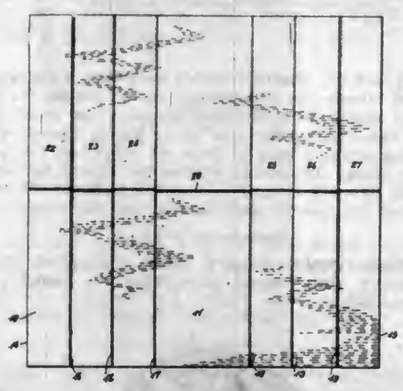
1,663,390. PHARMACEUTICAL PRODUCT. WALTER SCHOELLER, ADOLF FELDT, MAX GEHRKE, and ERICH BORGWARDT, Berlin, Germany, assignors to Firm: Chemische Fabrik Auf Actien, (vorm. E. Schering), Berlin, Germany. Original application filed May 9, 1925, Serial No. 29,207, and in Germany June 2, 1924. Divided and this application filed June 1, 1926. Serial No. 113,077. 5 Claims. (Cl. 260—11.)

2. As a new product the sodium salt of the symmetric di-(meta-auro-mercapto benzene-para-carboxylic acid) urea, corresponding to the formula



such product having a yellowish green color and being readily soluble in water.

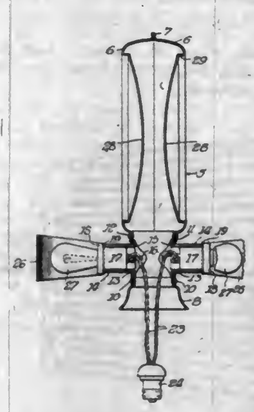
1,663,391. FOLDED SHEET AND METHOD OF FOLDING THE SAME. GLENN A. SHAFFER and FRANKLIN H. WIRTZ, Green Bay, Wis., assignors to Fort Howard Paper Company, Green Bay, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1927. Serial No. 171,703. 5 Claims. (Cl. 206—57.)



3. A folded napkin or the like comprising a center portion of two thicknesses presenting raw edges at one transverse end, a folded edge at the opposite transverse end and presenting folded edges at the opposite longitudinal sides with tabs resulting from initially folding the margins of the sheet upon themselves, said tabs lying upon the opposite sides of said double thickness portion with the edges of said tabs lying adjacent upon said opposite sides and adjacent the center portion of said double thickness.

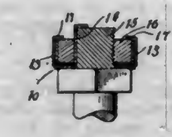
1,663,392. ILLUMINATED ADVERTISING SIGN. JOHN C. SMITH, Chicago, Ill. Filed Sept. 30, 1926. Serial No. 138,583. 10 Claims. (Cl. 40—130.)

1. An illuminated advertising sign including a metallic casing forming a globe and having opposite concaved sides substantially forming sections of a sphere, means for supporting the casing from beneath, lamps projecting from opposite sides of the supporting means outwardly



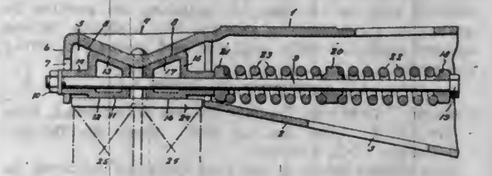
of said sides, and reflectors around the lamps and open above and below for the reflection of light rays in similar directions.

1,663,393. NUT LOCK. ORLOW C. SNYDER, Long Island City, N. Y. Filed Jan. 21, 1927. Serial No. 162,522. 1 Claim. (Cl. 151—3.)



In a nut lock, the combination with a nut and bolt, the bolt having a groove therein, a lock plate having a tongue for engagement with the groove, said lock plate having ears adapted to be bent into overlapped relation for engagement with the sides of the nut, certain of said ears having lips for engagement with the upper edges of the inner ears and with the upper surface of the nut.

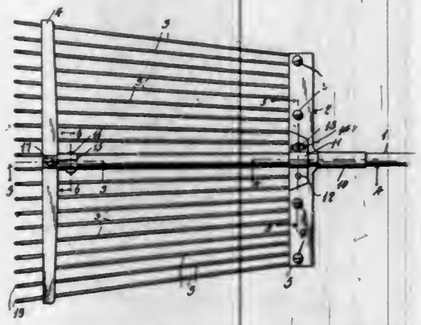
1,663,394. TRUCK BOLSTER WITH ABSORPTION MECHANISM. THOMAS HARRISON SYMINGTON and PERCY R. DRENNING, Baltimore, Md., assignors to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland. Original application filed Oct. 7, 1926, Serial No. 140,181. Patented Sept. 20, 1927, Patent No. 1,642,751. Divided and this application filed Feb. 21, 1927. Serial No. 169,916. 19 Claims. (Cl. 105—197.)



1. In a truck bolster, a pocket in each end thereof, a vertically movable follower within each pocket adapted to seat upon the truck springs, wedge members mounted within the pocket and movable toward or from each

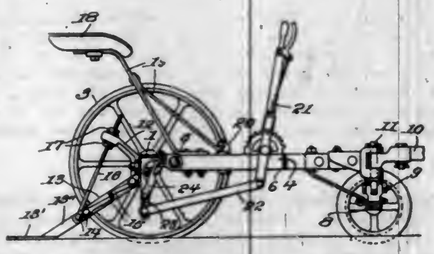
other longitudinally of the bolster, means for opposing separating movement of the wedge members, and an intermediate wedge member in the pocket located between said wedge members.

1,663,395. RAKE. KAY T. TANAKA, Salt Lake City, Utah. Filed May 26, 1927. Serial No. 194,341. 2 Claims. (Cl. 55—10.)



1. A rake comprising a handle, a spreading bar secured to the handle and provided with openings, a head slidably mounted on the handle for adjustment with respect to the spreading bar and embodying connected upper and lower plates, said lower plate being provided with openings, means for securing the head in adjusted position on the handle, teeth carrying rods slidably passing through the openings in the spreading bar and having their rear ends positioned between the head plates and provided at said ends with angular members passing through the openings in said lower head plate.

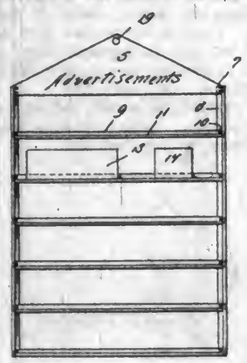
1,663,396. WEEDER. HENRY WESELOH, Lincoln Center, Kans. Filed Nov. 6, 1926. Serial No. 146,741. 3 Claims. (Cl. 97—144.1.)



1. A farm implement comprising a wheeled frame including a tiltable beam, a plurality of brackets carried thereby, an arm pivotally connected with the lower part of each bracket, a rod connected with each arm and extending through the upper end of each bracket, nuts on the rod for adjusting its position in relation to the bracket, a substantially L-shaped cutting member connected with each arm and means for tilting the beam.

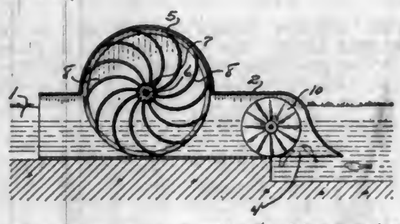
1,663,397. DISPLAY RACK. MALTBY L. BUNNELL, Oneonta, N. Y. Filed Apr. 14, 1927. Serial No. 183,757. 2 Claims. (Cl. 40—124.)

1. A display device of the class described including, in combination, a head plate, a pair of side rails having their upper ends attached to the head plate and extending therefrom in spaced parallel relation to each other, the outer edges of the side rails formed with integral flanges bent over upon themselves, a plurality of cross rails having their lower edges formed with flanges bent upwardly over upon themselves to provide channels, the ends of the flanges being pressed against the rails, the



ends of the rails being disposed between the side rails and their respective flanges, and means for securing the ends of the cross rails to said side rails.

1,663,398. FISH GUARD. JOE R. COOKE, Odem, Tex., assignor of one-half to Jesse E. Palmer, Kerrville, Tex. Filed July 3, 1926. Serial No. 120,338. 1 Claim. (Cl. 210—173.)



A guard for irrigation ditches comprising a casing employed between the ditch and the feeding stream, the said casing shaped so as to allow access to the water thru only one opening positioned in the bottom thereof, a revolving screen formed of discs set closely on the same shaft closing the opening whereby the turning movement of the screen forces any solid matter back out the opening and a means for operating the revolving screen.

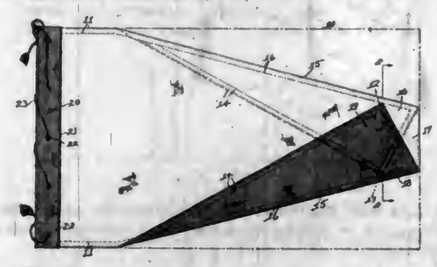
1,663,399. COMB. FREDA L. DEDEN, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,572. 1 Claim. (Cl 132—38.)



A device of the class described comprising a plurality of combs of substantially U-shape, a strap connecting

the limbs of the first comb together, rightangularly extending parts at the ends of all the combs excepting the first and means for detachably connecting said parts to the extremities of the limbs of the other combs.

1,663,400. FLAG. MARY FRANCES DESPECHER, Ralston, Nebr. Filed Apr. 16, 1927. Serial No. 184,263. 5 Claims. (Cl. 116—173.)



5. A flag comprising a body composed of laminated fabric having the upper and lower corners of the fly end folded toward and across the median line and overlapping and stitched into folded and overlapped position.

1,663,401. TREATMENT FOR HIDES AND SKINS. HARRY DODGE, Danvers, Mass. Filed July 8, 1927. Serial No. 204,428. 2 Claims. (Cl. 149—5.)

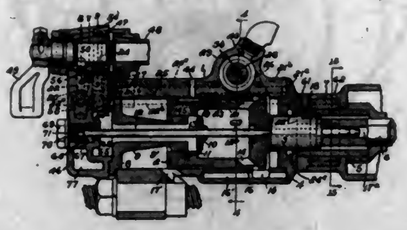
1. In the curing of hides and skins the applying thereto of a composition including salt, nitre, bicarbonate of soda and formaldehyde.

1,663,402. LENS MOUNTING. JOSEPH ENGEL, Brooklyn, N. Y., assignor to Superloid Manufacturing Company, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 9, 1925. Serial No. 61,438. 5 Claims. (Cl. 88—43.)



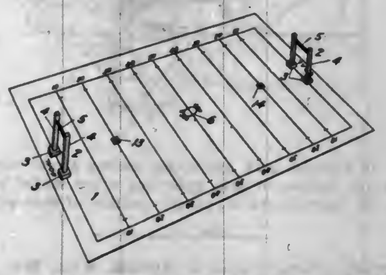
1. In a lens mounting, a pair of rims formed of non-metallic material, a pliable wire connecting said rims, and a pliable cable upon said wire extending from end to end of the latter and secured at its ends to said rims, said cable formed of non-metallic material.

1,663,403. DRILLING MACHINE. GEORGE H. GILMAN, Boston, Mass. Filed Feb. 24, 1920. Serial No. 360,619. 36 Claims. (Cl. 121—18.)



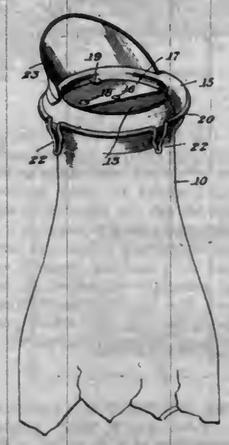
1. A rock drill having, in combination, a hammer piston, a chuck, a motor for rotating said chuck, a casing for said hammer piston and chuck, a valve casing carried by said first named casing, a frusto conical chamber in said valve casing forming a seat for a frusto conical valve in said chamber, said valve having a longitudinal passage opening on the large end of said valve, a motive fluid supply connection to said chamber at the end thereof adjacent the large end of said valve, a port and passage intermediate the length of said valve for controlling the supply of motive fluid for operating said hammer piston, said valve by its turning movement opening and closing said port and passage, means for supplying motive fluid from said longitudinal passage to said motor for rotating said chuck comprising a cooperating port and recess in said valve and valve casing at that side of said first named port and passage which is opposite the large end of said valve, and stop means for limiting the extend of turning movement of said valve, said port and recess being in fluid communication in all positions of said valve.

1,663,404. INDOOR FOOTBALL GAME. SIDNEY G. HANDS, Davenport, Iowa. Filed Jan. 28, 1927. Serial No. 164,216. 4 Claims. (Cl. 273—94.)



1. In a house game simulating the game of football, a fabric having marked thereon a playing field representing a football field, goals to be positioned at the ends of the playing space, and a pair of playing pieces, one being flat and adapted to be held in the hand to cause the other to be advanced along the playing field and said other being in plan similar to a football but in edge view being flattened and tapered from a thicker central to a thinner edge portion.

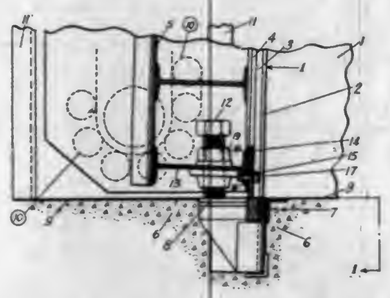
1,663,405. BOTTLE TOP. MARTIN H. HEALICK, Long Beach, Calif. Filed Dec. 31, 1926. Serial No. 158,359. 3 Claims. (Cl. 215—63.)



1. A container closure comprising in combination with a container having an opening and a bead surrounding the opening, a disk adapted to fit within said opening,

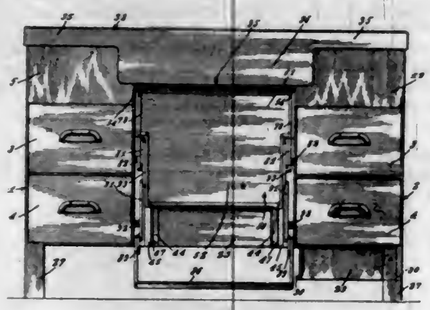
said disk also having an opening therein, a pivoted closure secured upon the top of the disk, means associated with the disk and engaging the bead to hold the disk in place, and a lip positioned above the disk for frictional engagement by the pivoted closure to hold the latter in position.

1,663,406. SLUICE GATE. HARRY W. HOLMES and ERWIN B. PHILIPS, Kenton, Ohio, assignors to Philips and Davies, a Partnership composed of Erwin B. Philips and Francis Davies, Kenton, Ohio. Filed Apr. 23, 1926. Serial No. 104,201. 8 Claims. (Cl. 61—28.)



1. In a sluice gate, adjustable sealing means mounted upon the bottom of said gate, and other means on the gate for limiting the lowermost position of said gate.

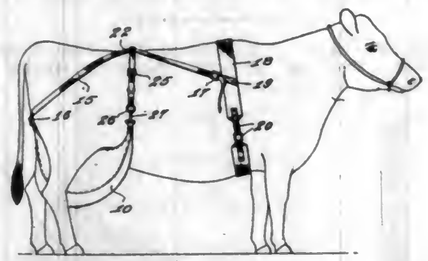
1,663,407. DESK. JOHN A. HUGHES, Waco, Tex. Filed June 7, 1926. Serial No. 114,340. 11 Claims. (Cl. 312—21.)



1. A desk of the type described comprising a body portion, a shiftable typewriter support arranged within the latter, a pair of spaced, vertically movable open top receptacles arranged within the body portion at the rear thereof, a shiftable hinged top common to said receptacles and body portion, and slidably connected to the front of the back of the latter, and a link and lever mechanism pivotally connected with said top, support and receptacles and slidably and pivotally connected to said body portion to provide for the synchronous shifting of the support and receptacles to open and closed positions on the opening and closing of said top respectively.

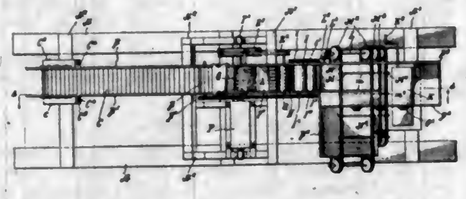
1,663,408. UDDER PROTECTOR. CAROLYN T. JENKINS, Dunbar, Nebr. Filed May 9, 1927. Serial No. 190,111. 2 Claims. (Cl. 119—146.)

1. In combination, an udder protector, harness supporting means for said protector, said means including a body encircling band, straps connected to the opposite sides of the band and also connected at a common point with one end of the protector, a body strap terminally connected with the adjacent corners of the protector,



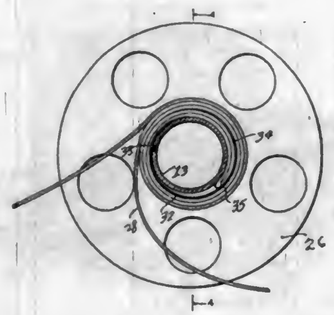
and said first mentioned straps intersecting each other and capable of sliding movement with relation to each other and said body strap.

1,663,409. CANE STRIPPING AND TOPPING MACHINE. JOSEPH THOMAS LANDAICHE, Thibodaux, La. Filed Feb. 24, 1927. Serial No. 170,620. 21 Claims. (Cl. 130—31.)



7. A machine for stripping and topping cane stalks, comprising two upper conveyors of unequal length adapted to receive the cane stalks transversely thereon, with means located between said conveyors for severing the stalks into two segments while carried by said conveyors, two lower conveyors adapted to respectively receive the stalk segments in a longitudinal direction from the upper conveyors, means for stripping the stalks of green leaves, trash and other solid matter, and means for topping the stripped stalks.

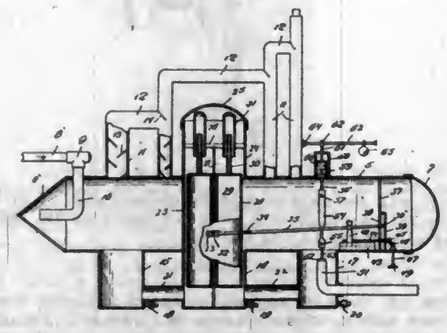
1,663,410. HOSE REEL. CARL H. LARSON and ANDREW G. LARSON, San Francisco, Calif. Filed Aug. 9, 1926. Serial No. 128,222. 1 Claim. (Cl. 242—86.)



In combination with a support and a bracket secured thereto, of a shaft fixed in the bracket, a hub member rotatable on said shaft, a casing mounted on said hub

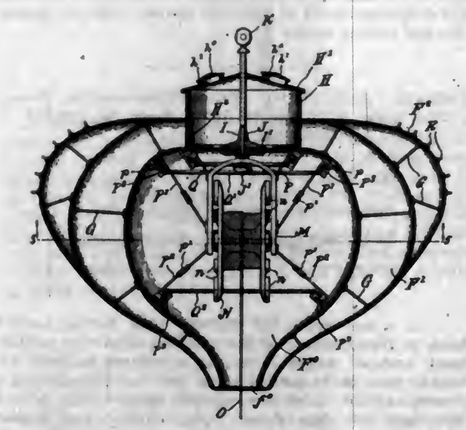
member and rotatable therewith, means carried by said casing for retaining thereon a portion of hose, said means comprising a curved resilient metal strip secured at one end to the outer periphery of said casing and spaced at its free end from said casing for receiving a folded section of the hose.

1,663,411. SEPARATOR. WILLIAM M. LITTLE and JESSIE L. SHERMAN, Norphlet, Ark. Filed Oct. 9, 1926. Serial No. 140,500. 1 Claim. (Cl. 183—2.7.)



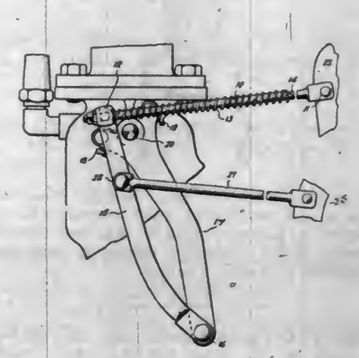
A device of the class described, including, in combination, an elongated horizontal casing, an oil pipe leading into the casing, water outlet means associated with the casing, gas outlet means associated with the casing, an oil outlet pipe leading into the casing and terminating in a valve seat, a valve associated with the seat, a stem rising from the valve, a connecter, a wrist-pin connection between the connector and the valve stem, a drum rising from the casing and having apertures, a piston rod slidable in the drum having a stem connected with the connector, said connector having an opening, a beam extension through the opening, a float in the casing, means connecting the float with one end of the beam, a fulcrum block for the beam, and means for adjusting the fulcrum block.

1,663,412. LIFE-SAVING AND SALVAGING APPARATUS FOR USE WITH MARINE VESSELS. BENJAMIN ALEXANDER MATHEWS, Shreveport, La. Filed Oct. 24, 1927. Serial No. 228,319. 16 Claims. (Cl. 114—51.)



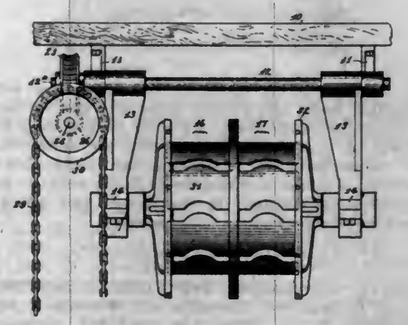
1. Apparatus of the character described for use with marine vessels, comprising a skeleton frame securely attached to the vessel, and provided with a series of radially disposed, upwardly inclined beams forming a seat for the float, with cable connecting said beams, and adapted to be grappled by grappling hooks, with a float normally resting in said skeleton frame, but adapted to float upwards therefrom should the vessel sink, a cable drum journalled in said float, and a fine wire cable wound on said drum, and having one end secured to the vessel, and the other end secured to said drum.

1,663,413. CLUTCH AND ACCELERATOR INTERLOCKING MECHANISM FOR AUTOMOBILE ENGINES. JOHN MILLINGTON, Bondi, near Sydney, New South Wales, Australia. Filed Dec. 16, 1926, Serial No. 155,250, and in Australia Dec. 24, 1925. 5 Claims. (Cl. 192—01.)



2. Carburetter control means for automobiles including a hand throttle control lever link connected to the carburetter throttle spindle arm through an intermediate member, and a link connection between said member and the clutch pedal, disposed so that in the clutch pedal opening movement the carburetter throttle is closed to idling position without disturbing the hand throttle lever, and in the clutch pedal closing movement is restored to the degree of opening for running determined by the position at which the hand throttle lever is set.

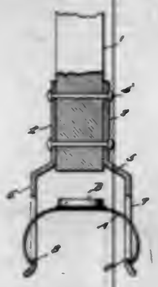
1,663,414. VARIABLE-SPEED PULLEY. ALBERT HORACE MIZE, Greenville, S. C. Filed Sept. 10, 1926. Serial No. 134,727. 5 Claims. (Cl. 64—8.)



1. In combination a pair of segmental expansible and contractible pulleys, means for pivotally supporting the same, an element rotatable with each pulley, and operative connections between said elements and pulleys where-

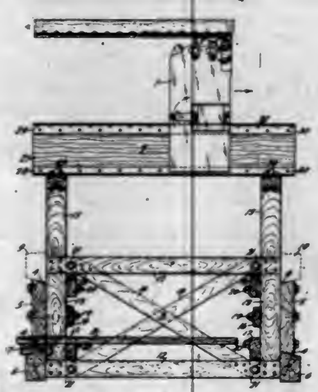
by said elements are rotated relative to the pulleys in reverse directions to contract one pulley and expand the other simultaneously upon tensioning one of the drive belts with which the pulleys are engaged.

1,663,415. TORPEDO PLACER. RUFUS R. NOBLIT, Meadville, Pa. Filed May 18, 1927. Serial No. 192,382. 3 Claims. (Cl. 246—216.)



1. A torpedo placer of the character described comprising a handle, cooperating arms secured to the ends of said handle to provide a fork at each end thereof, said arms being slotted, shoulders formed in said slots and being adapted to receive a torpedo.

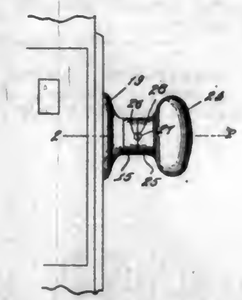
1,663,416. PLASTERING MACHINE. JOSEPH F. RAUB, New York, N. Y. Filed Feb. 24, 1926. Serial No. 90,418. 14 Claims. (Cl. 72—130.)



2. In a plastering machine, the combination with a supporting frame and a track adjustably carried thereby, of a carriage on the track, a plaster compartment in the carriage, a trowel mounted adjacent the outlet end of said compartment for smoothing the plaster delivered therefrom, a lubricant compartment in the carriage, means for delivering lubricant to the trowel, and means for extruding plaster from the outlet opening.

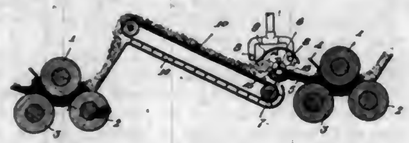
1,663,417. DOOR-KNOB AND SPINDLE FASTENING. CARL D. SCHUNCK, Brooklyn, and WILLIAM J. KELLY, Jamaica, N. Y. Filed Apr. 15, 1927. Serial No. 184,109. 4 Claims. (Cl. 292—355.)

1. In combination with a square spindle having one of its ends split inwardly, a threaded bore provided in the split end of said spindle, a collar having a square bore therein for the passage of said spindle, a key having threads for threading engagement with the walls of said threaded bore, co-acting means between said key and said spindle for expanding the split end of said spindle into engage



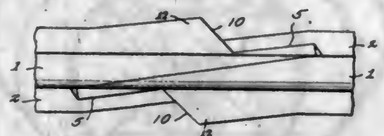
ment with the walls of said square bore, and a hollow door knob keyed to said collar for concealing the split end of said spindle and said key.

1,663,418. MEANS FOR BEATING OF BAGASSE FOR THE IMBIBITION OF SAME IN CANE-SUGAR-MAKING INDUSTRY. HIROMU SEGUCHI, Horigai, Taichu-Shu, Taiwan, Japan. Filed July 20, 1926, Serial No. 123,765, and in Japan Mar. 18, 1926. 4 Claims. (Cl. 127—4.)



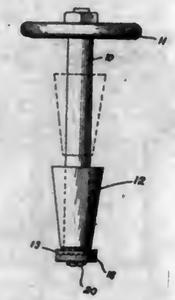
1. Improved means for beating and saturating bagasse comprising in combination milling means, conveying means situated rearwardly thereof, scraping means operatively associated with the milling means, beating means operatively arranged between the scraping means and conveying means, sprinkling means operatively arranged over the beating means and positioned slightly forwardly and rearwardly thereof to effect thereon saturation of the bagasse at said points, and combined covering and deflecting means in operative relation with the sprinkling and beating means.

1,663,419. RAIL JOINT. PETER STELLINGWERF, Orange City, Iowa. Filed Apr. 25, 1927. Serial No. 186,513. 2 Claims. (Cl. 238—232.)



1. In a rail joint, two railway rails having beveled faces at the ends thereof designed for contacting engagement, each of said rails having a reduced laterally extending base flange portion at the end thereof providing a tongue and the under face of each tongue being formed with lugs, the base flange being widened and formed with pockets to receive the tongues of the respective rails therein and said pockets having sockets to receive the lugs on the tongues therein, in combination with bolts and nuts connecting the rail ends.

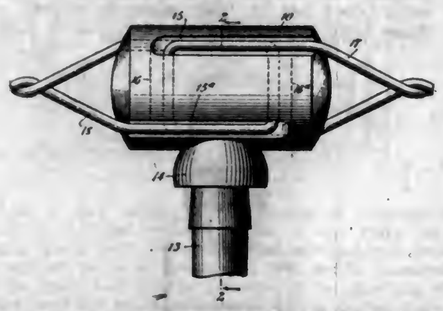
1,663,420. GRINDING TOOL. FRED W. STOLL, Cleveland, Ohio. Filed Aug. 6, 1926. Serial No. 127,652. 1 Claim. (Cl. 51—205.)



A grinding tool comprising a spindle, a hand wheel carried upon one end thereof, a tapered guide sleeve slidably mounted upon said spindle to guide the same upon its work, the remote end of the spindle being provided with a key way extended transversely thereof and communicating at an intermediate point in its length with a threaded socket portion, a cushion member provided with a key upon one side fitted within a key way and a key way slot within its opposite side, a grinding element provided with a key upon one side received within the key-way slot of the cushion member, and a fastening element passed through the grinding element, and disk and threaded within the socket to hold the grinding element against independent rotary movement upon the spindle and to prevent breakage upon the member

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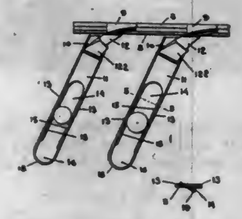
1,663,421. LINE BREAKER. EDWIN L. STUBBINGS, Huntington, N. Y. Filed Mar. 10, 1927. Serial No. 174,328. 1 Claim. (Cl. 173—366.)



A line breaker including a generally cylindrical block of insulating material having pairs of longitudinally extending grooves in its outer face, said grooves being spaced approximately equal distances apart, the pairs of grooves starting from the two ends of the block and extending nearly to the opposite ends thereof, and said block having transverse bores therein connecting the blind ends of the pairs of grooves, said block having a tapered threaded socket in one side thereof, and including a flared petticoat around the socket mouth.

1,663,422. APPARATUS FOR ASSORTING COINS. ANDERS WERNER SVENSON, Vanersborg, Sweden. Original application filed Apr. 7, 1925, Serial No. 21,407, Patent No. 1,554,140, dated Sept. 15, 1925. Filed in Sweden Dec. 16, 1924. Divided and this application filed Aug. 27, 1925. Serial No. 52,876. 2 Claims. (Cl. 133—3.)

1. In combination with a coin conveying track upon which the coins are caused to roll and a glide plate angularly arranged relative to the track, a guide member of part spiral formation having one end substantially parallel to said track and its other end substantially parallel to



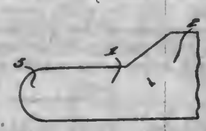
said plate for receiving a coin rolling from said track and causing the same to assume sliding position upon said plate.

1,663,423. RAILWAY SWITCH. DUKE TATUM, Dothan, Ala. Filed Nov. 14, 1925. Serial No. 69,123. 5 Claims. (Cl. 246—317.)



1. The combination with a switch point, of a switch point operating lever, a pivoted arm freely engaging said lever and controlling the movement thereof, a pivoted lever freely engaging the pivoted arm, said arm having detached endwise engagement with the levers and means adapted for operation by a car carried device, for controlling the lever.

1,663,424. VEHICLE IMPACT BAR. HUSTON TAYLOR, Detroit, Mich. Filed Sept. 30, 1927. Serial No. 222,979. 16 Claims. (Cl. 293—55.)

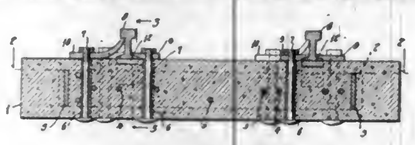


1. An impact bar comprising a resilient metallic body section tubular in appearance having integral re-inforcing end portions of stiffer resiliency than said body portion.

1,663,425. RAILWAY TIE AND RAIL CHAIR THEREFOR. WILLIAM C. TEMPLE, Munson, Fla. Filed Sept. 5, 1925. Serial No. 54,747. 1 Claim. (Cl. 238—92.)

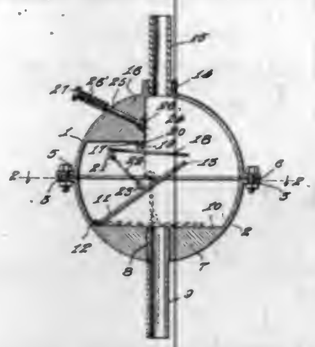
A rail tie comprising a concrete body, reenforcing plates located in and extending longitudinally of the body, members connecting the plates and anchoring them in the body, rail chairs of inverted U-form having their cross members extending transversely of the body and having their side members extending down into the body and provided in their inner faces and adjacent their lower ends with rabbets for the reception of the upper portions of the reenforcing plates, the horizontal portions of the

rabbets resting directly upon the upper edges of the reenforcing plates, said cross members being shorter than the transverse dimension of the body and the upper side



of the body inclining downwardly and outwardly from the ends of said members, and attaching elements engaging said side members and reenforcing plates.

1,663,426. GAS VALVE. ERNEST S. TRONZO, Akron, Ohio. Filed June 1, 1927. Serial No. 195,728. 1 Claim. (Cl. 67—115.)



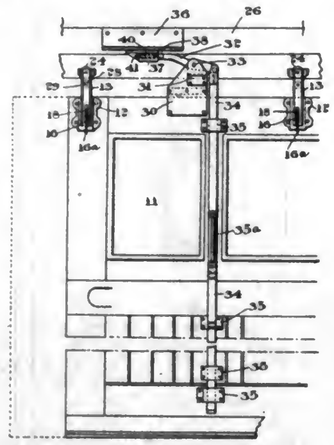
A gas valve of the character described comprising a casing formed from upper and lower semi-circular shaped sections, means for securing said sections in operative association, an inlet pipe threadedly secured to the lower section, an outlet pipe secured to the upper section, a solid portion having a flat upper surface to provide a valve seat and being formed in the lower section, a plate valve member hingedly secured in the lower section and cooperating with said seat for controlling the inlet pipe, a solid portion formed in the upper section and being laterally disposed therein, a disk hingedly secured to the solid portion of the upper section, flexible means connecting said disk with the plate valve member, spring pressed means arranged at an inclination and slidably mounted in the solid portion of the upper section, and said spring pressed means being engageable with said disk.

1,663,427. GAS COCK. FRANK L. UHL, Detroit, Mich. Filed July 21, 1927. Serial No. 207,327. 4 Claims. (Cl. 251—152.)



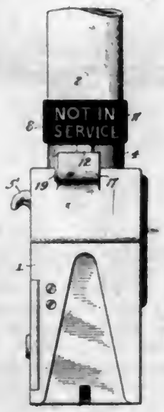
1. A valve construction comprising a body having inlet and outlet means, a ported plug rotatably mounted in said body and adapted to establish or obstruct communication between said inlet and outlet means, said plug having a longitudinal groove at its lower end and a transverse slot communicating with the upper end of the groove, a washer adapted to slide on said plug, a stop tooth projecting inwardly from said washer and adapted to slide through said groove into said slot, and means for locking said washer to said body.

1,663,428. BUFFER MECHANISM FOR CAR DOORS. ERNEST R. VIBERG, Montreal, Quebec, Canada. Filed July 8, 1925, Serial No. 42,257, and in Canada Aug. 4, 1923. 4 Claims. (Cl. 292—237.)



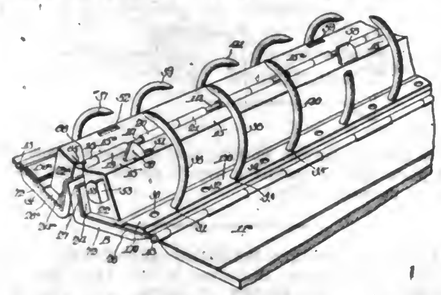
1. A buffer mechanism for car doors and the like comprising latch means which will allow the door free movement in the opening direction when said latch means is in a predetermined position and means engaging with the latch means to keep the door open at least a predetermined amount during yard operations.

1,663,429. DISPENSING DEVICE. EDWIN G. WESSMAN, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1924. Serial No. 737,362. 17 Claims. (Cl. 312—43.)



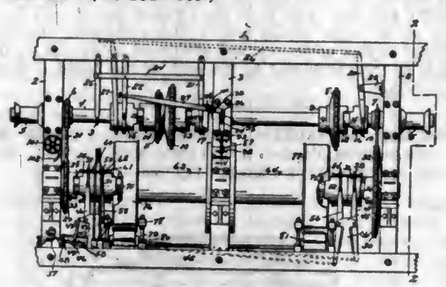
1. In a dispensing device, a supporting casing including a socket part, a container adapted to detachably seat in said socket part, the container having a ring like part thereon bearing thereupon a sign, said part being adjustable relatively to the casing to position the same with its sign facing to the front of the casing in view, or to position the same out of said position at another point about the casing out of view, and stop means for holding said ring like part in either of said positions against rotary movement relatively to the casing.

1,663,430. LOOSE-LEAF BINDER. VAN A. WIRT, Chicago, Ill., assignor to Visible Records Equipment Company, a Corporation of Illinois. Filed June 8, 1925. Serial No. 35,573. 9 Claims. (Cl. 129—17.)



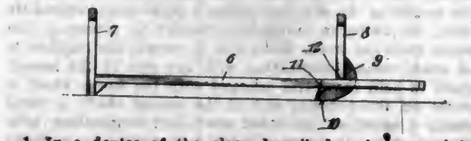
1. In a loose-leaf binder, the combination of a pair of longitudinally-extending metallic parts having opposed portions lying substantially parallel with each other and spaced apart, said parts being secured in rigid relation to each other, one of said parts having a plurality of longitudinally spaced-apart apertures therein, prongs projecting through said apertures respectively and having their inner ends abutting and spot-welded to the other of said parts, the arrangement providing that the opposed portions are sufficiently spaced-apart at said apertures to cover and conceal the flowed metal at the welded ends of the prongs.

1,663,431. DRAW WORKS. HAROLD B. ZIEGLER, Duncan, Okla. Filed Aug. 8, 1925. Serial No. 49,046. 8 Claims. (Cl. 254—185.)



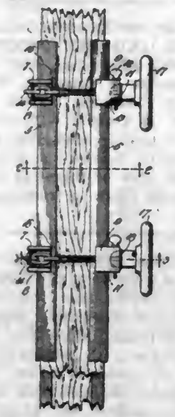
1. In a draw works, the combination of a frame, a shaft, two drums freely journaled on the shaft, said drums having their confronting heads provided each with an annular series of apertures, a bolt member mounted in the frame and movable into one of the apertures of either head for locking the drum thereof against movement, said bolt being normally in inactive position, clutching means on the shaft, operating means for said clutching means to cause the same to engage with either of the drums to lock one or both of the drums to the shaft, and means for revolving the shaft at varying predetermined speeds to impart like speeds to the drum or drums clutched to the shaft.

1,663,432. BOOKRACK. CHESTER L. AMES, Phoenix, Ariz. Filed Mar. 11, 1926. Serial No. 93,908. 5 Claims. (Cl. 312—43.)



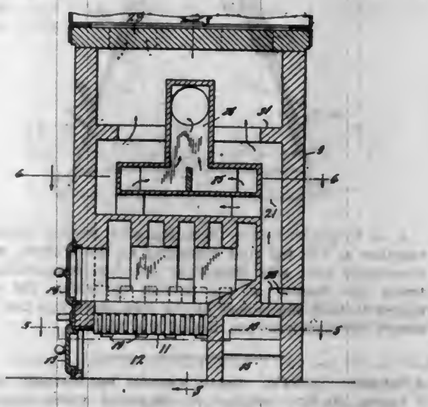
1. In a device of the class described, a base, a plate resting at its lower edge upon said base, a rocker leg depending from said plate and having its normal point of bearing disposed beyond the lower edge of the plate, and a stop on said leg disposed in the same vertical plane with the said point of bearing.

1,663,433. CLAMP. JOHN B. BENSON, Independence, Kans. Filed Nov. 16, 1925. Serial No. 69,457. 2 Claims. (Cl. 144—291.)



1. A clamp of the class described comprising a plurality of parallel transversely angular bars for engagement with a structure to be constricted, said bars having transverse enlargements on their outer sides spaced apart longitudinally of said bars, the outer sides of said enlargements having smooth-bottomed grooves extending transversely of the bars, an additional transversely angular bar having longitudinally spaced lugs on its exterior, flexible binding elements detachably secured to said lugs respectively, and screw-threaded tightening devices for said elements mounted on said lugs and connected to the free ends of said elements, said elements being slidably engageable with the smooth bottoms of the aforesaid grooves.

1,663,434. HOT-AIR FURNACE. JAMES BOUCEK, JAMES HALICK, and JOSEPH TREFNEY, Cleveland, Ohio. Filed Apr. 28, 1927. Serial No. 187,250. 2 Claims. (Cl. 126—99.)



1. A furnace comprising a housing, a fire box within the housing and having its top and side walls spaced from the walls of the housing to provide an air heating chamber having communication with the atmosphere, vertically disposed conduits extending from each corner

of the fire box, a horizontally disposed substantially H-shaped passage spaced above the top of the fire box and communicating with the vertically disposed conduits, an upwardly and outwardly centrally located conduit communicating with the H-shaped passage, and said passage and conduits being located within the heating chamber, whereby air within said chamber will circulate over and around the passage and conduits before leaving the furnace.

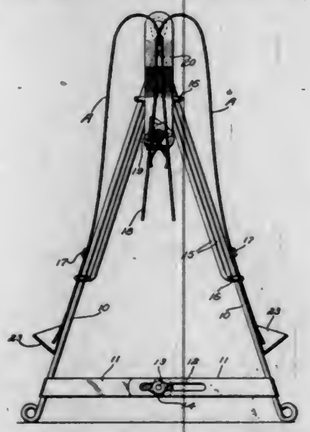
1,663,435. METHOD OF PRODUCING BASIC ALUMINUM SULPHATE AND THE PRODUCT THEREOF. DONALD B. BRADNER, Edge Moor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 19, 1925. Serial No. 16,839. 5 Claims. (Cl. 23—124.)

2. The process of making aluminum sulphate of high basicity from material containing aluminum and iron which comprises the step of digesting the material and treating the material with a reducing agent during digestion.

1,663,436. COLORED VULCANIZED RUBBER AND PROCESS OF MAKING THE SAME. ERNEST R. BRIDGWATER, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 29, 1926. Serial No. 84,783. 3 Claims. (Cl. 260—91.)

1. The process of coloring rubber which comprises mixing rubber or rubber-like materials with a vulcanizing agent and with the sodium salt of the azo compound obtainable by coupling diazotized 2-chloro-5-toluidine-4-sulfonic acid with beta-naphthol.

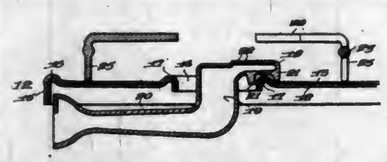
1,663,437. FLY-PAPER HOLDER. LUCY MAY SMITH BROWN, Winchester, Idaho. Filed Feb. 19, 1927. Serial No. 169,595. 4 Claims. (Cl. 43—115.)



1. A fly-paper holder including side frames connected together at the top and diverging at the bottom, means connecting said side frames at the top, connections between the frames at the bottom to stiffen the same, means to hold the papers at the side edges and means to secure the paper at the top of the holder.

1,663,438. STOVE. ISAAC VERNON BRUMBAUGH, Washington, D. C., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 27, 1924. Serial No. 758,454. 2 Claims. (Cl. 126—215.)

1. An improved stove and burner therefor, the stove comprising a horizontal top plate having a burner opening, a burner passing through the said opening and located wholly above the top plate, and a grate supported



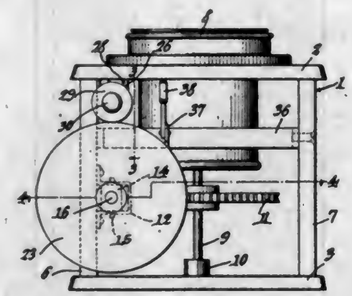
above the said burner, whereby heat is reflected from the top plate upward against a utensil placed on the grate, for the purpose specified.

1,663,439. FOUNTAIN WASHING APPARATUS. MAGNUS CHRISTIANSON, Brooklyn, N. Y. Filed May 18, 1926. Serial No. 108,902. 2 Claims. (Cl. 15—128.)



1. A device of the character set forth, comprising a hollow staff provided at its forward end with a downwardly and forwardly extending nozzle, a bracket consisting of angularly related arms of solid formation and secured to the staff with one of its arms extending upwardly and forwardly therefrom to a point beyond the nozzle, the other arm of the bracket extending downwardly and forwardly from the forward end of said first arm at an angle to the nozzle, and a cleaning element secured to said other arm and positioned below and at an angle to the nozzle and in the path of the liquid issuing therefrom.

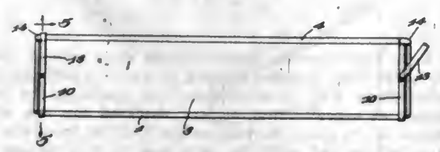
1,663,440. MEASURING INSTRUMENT. CALVIN F. CHRISTOPHER, Canton, N. C. Filed Mar. 17, 1926. Serial No. 95,418. 2 Claims. (Cl. 33—129.)



1. A measuring device comprising a frame, a register carried by the frame and including a shaft, a worm wheel on the register shaft, a second shaft, a worm on the second shaft, and meshing with the worm wheel, means for mounting the second shaft at a point intermediate its ends, for swinging movement, thereby to disengage the worm from the worm wheel and to permit the register to be reset, means cooperating with one end of the second shaft to hold the worm engaged with the worm wheel, a worm on the opposite end of the second shaft, a third shaft, a wheel on the third shaft and cooperating with the wheel on the second shaft to engage the material which is to be measured, means for mounting the third

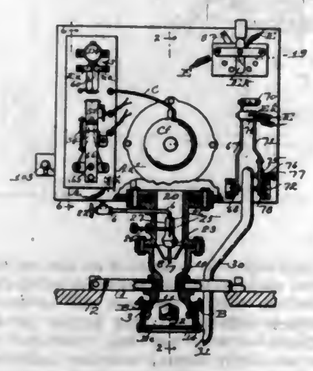
shaft for radial swinging movement in a plane approximately at right angles to the plane in which the second shaft swings, thereby to permit the wheel on the third shaft to be spaced from the wheel on the second shaft, and means cooperating with the third shaft to hold the wheel of the third shaft in engagement with the wheel on the second shaft, and out of engagement with the wheel on the second shaft, at the will of an operator.

1,663,441. BOX. AQUILLER D. CLAWSON, Chicago, Ill. Filed June 24, 1925. Serial No. 39,358. 1 Claim. (Cl. 217—12.)



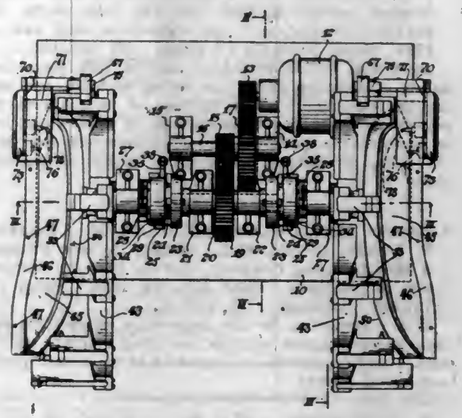
A box structure including a body comprising bottom, side, and end portions, spaced cleats secured to the side members adjacent the ends thereof, the cleats disposed toward the ends being of shorter length than those disposed away from the ends, cleats secured to a cover member and the bottom member and adapted to rest upon the ends of the shorter of the cleats, said end members being adapted to be slidably positioned between the spaced cleats with their lower edge portions abutting the cleats of the bottom member, said side and bottom members having portions cut from one face thereof adjacent the ends adapted to provide shoulders, connecting bands each having end portions secured together and arranged for connecting the end members, side members, and bottom member in distended position, and bands connected to the side members fitting over beveled edges on the cover member for connecting the cover to the box when in distended position.

1,663,442. LIQUID-FUEL-BURNING HEATER. GEORGE K. CULP, Jr., GALEN D. BARKER, and WILLIAM J. STURGIS, Hamilton, Mo., assignors to Electromatic Appliance Corp., a Corporation of Delaware. Filed Nov. 26, 1924. Serial No. 752,429. 12 Claims. (Cl. 158—28.)



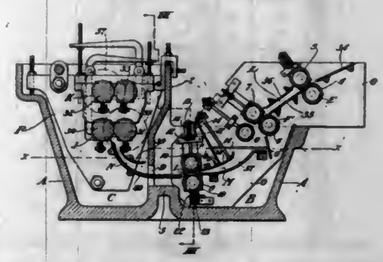
1. In apparatus of the character described: a combustion chamber; fuel-igniting means; means for propelling fuel to the igniting means and into the chamber; thermically-controlled means for maintaining the operation of the fuel-propelling means; a conduit adapted to convey to the thermically-controlled means gases heated directly by the flaming fuel to a degree sufficient to operate the thermically-controlled means to maintain the operation of the fuel-propelling means.

1,663,443. PUNCHING MACHINE. WALTER H. D'ARDENNE, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1920. Serial No. 423,969. 26 Claims. (Cl. 164—90.)



1. A punching machine comprising a frame, a plurality of punches mounted therein, a drive shaft, an eccentric on said shaft, and independent means controlled by said eccentric for actuating each of said punches in a predetermined sequence.

1,663,444. TINNING APPARATUS. STEWART A. DAVIS, Pittsburgh, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Original application filed June 25, 1919, Serial No. 306,521. Divided and this application filed Dec. 18, 1924. Serial No. 756,742. 3 Claims. (Cl. 19—12.6.)



1. Tinning apparatus comprising a tinning pot having compartments for the molten tin bath communicating with each other below the top of the tin bath, means in one compartment for maintaining a body of flux on top of the tin bath, means in the other compartment for maintaining an oil bath on top of the tin bath, a feeding mechanism above the flux to feed the plates into and through the flux into the tin bath, an intermediate feed

mechanism to feed said plates through the tin bath into the oil bath, said intermediate mechanism comprising a single pair of rollers set in the tin bath close to the flux so that the flux is carried rapidly and at a uniform rate to said rollers, and a feed-out mechanism in the oil bath to feed the tinned plates out of the oil bath, said feed mechanism being operatively connected to successively and uninterruptedly feed plates into, through and out of the flux, tin bath and oil bath at a relatively high and substantially equal and uniform speed.

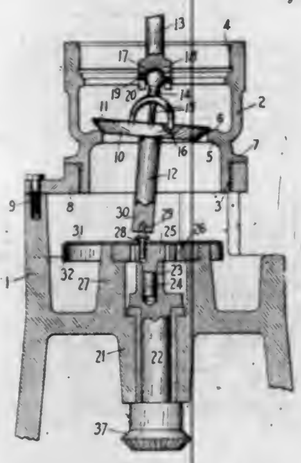
1,663,445. TIN PLATE. STEWART A. DAVIS, Pittsburgh, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Original application filed June 25, 1919, Serial No. 306,521. Divided and this application filed Jan. 8, 1925. Serial No. 1,303. 1 Claim. (Cl. 29—180.)

As a new article of manufacture a coke plate consisting of a ferrous metal base coated with tin, and having the thin light weight coating of from 1.5 to 2.5 pounds per base box characteristic of coke plate and being substantially continuous, non-porous and free from pin holes, providing a bright luster typical of charcoal plate.

1,663,446. METAL-CLEANING SOLUTION. CLARENCE F. DINLEY, Detroit, Mich., assignor to Rex Products & Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed July 19, 1924. Serial No. 727,035. 9 Claims. (Cl. 148—6.)

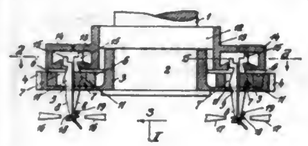
3. A composition for the preparation of metallic surfaces for subsequent coatings, including a dilute etching acid, a soluble metallic salt, an acid of the tannin group, and an oil solvent.

1,663,447. DEVICE FOR LAPPING IN VALVES. EARL E. EICKMEYER, Dayton, Ohio, assignor to The National Recoring Pump Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 31, 1924. Serial No. 703,089. 23 Claims. (Cl. 51—29.)



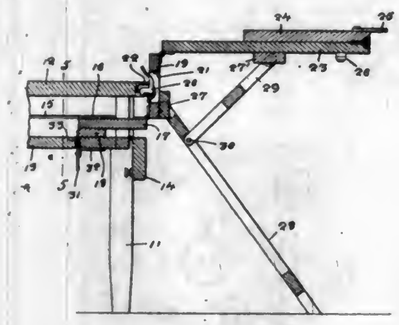
16. In a mechanism of the character described, a stationary element having an annular part to engage the surface of a valve, and separately operated devices each having means for connecting it with said valve, for rotating said valve in contact with said part and for tilting said valve with relation to said part during the rotation of said valve.

1,663,448. MACHINE FOR MANUFACTURING CHAIN MAIL IN TUBULAR SHAPE. ROBERT EINSELE, Pforzheim, Germany, assignor to Rodi & Wienenberger, Akt.-Ges. für Bijouterie- & Kettenfabrication, Pforzheim, Germany. Filed Jan. 29, 1925, Serial No. 5,587, and in Germany July 24, 1922. 2 Claims. (Cl. 140—8.)



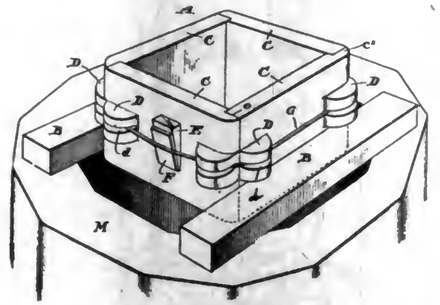
1. In a machine for manufacturing chain mail in tubular shape with opposite working points in which the finished chain mail is alternately held suspended by two groups of opposite ring holders displaced the one with regard to the other, in combination with the inner row of ring holders and with the outer row of ring holders, a fixed axle, a feeding disk rotatably mounted on said fixed axle and having slots in which said holders are oscillatably mounted, means for rotating said disk step by step the distance of one diameter of a ring, a collar on said fixed axle, stationary ring elements fixed on said collar above said feeding disk, cam-like thickenings on said ring elements at points displaced 90° with regard to the points of working, said ring elements acting upon said ring holders in such a manner that when said ring holders are passing through the points of working they are guided by the normal surface of said ring elements so that the mutual position of said ring holders remains the same, the cam-shaped thickenings of said ring elements acting upon said ring holders at points spaced 90° from said working points to make said ring holders carry out the movement required for the changing of the row of rings.

1,663,449. IRONING-BOARD TABLE. IRVIN W. FOLEY, Reynoldsville, Pa. Filed Jan. 27, 1926. Serial No. 84,182. 2 Claims. (Cl. 68—10.)



1. The combination of a table, of an ironing board slidably mounted therein and adapted to be withdrawn therefrom, a platform carried upon one end of the board, a second platform slidably mounted within the table and hingedly connected with the first mentioned platform, means for detachably locking the first mentioned platform upon the adjacent end of the table when the board is called into use, a foldable supporting frame carried by the first mentioned platform, and a brace frame carried by the ironing board and connected with the supporting frame.

1,663,450. SHRINK-HEAD CASING FOR INGOT MOLDS. EMIL GATHMANN, Baltimore, Md., assignor to The Gathmann Engineering Company, Baltimore, Md., a Corporation of Maryland. Filed Sept. 6, 1924. Serial No. 736,274. 4 Claims. (Cl. 22—147.)

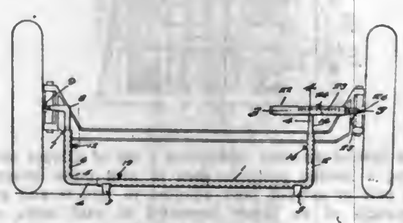


3. A feeder for ingot molds comprising four slabs of refractory material fitted together at the corners, one vertical end of each slab being formed of an angular contour and the opposite end being formed of a rounded contour and having its inner portion provided with a recess.

1,663,451. PROCESS OF DYEING WITH BASIC DYESTUFFS INVOLVING THE USE OF ARYL DERIVATIVES OF AMIDES OF AROMATIC HYDROXYCARBOXYLIC ACIDS AS MORDANTS. ALFRED GUENTHER, Cologne-Riehl, JOSEF HALLER, Wiesdorf, and ERWIN KÖSTER, Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 29, 1926, Serial No. 84,760, and in Germany Feb. 19, 1925. 8 Claims. (Cl. 8—13.)

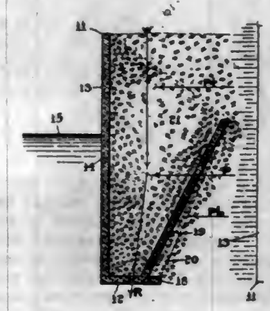
1. In a process of dyeing cotton with a basic dyestuff, the step of fixing the dyestuff by means of an aryl derivative of an amide of an aromatic hydroxycarboxylic acid as a mordant.

1,663,452. WHEEL-ALIGNING DEVICE. HELEN GENEVA HERSHMAN and FRANK HERSHMAN, Miller, S. Dak. Filed May 14, 1927. Serial No. 191,385. 4 Claims. (Cl. 33—203.)



1. A wheel aligning gage of the character described comprising a tubular body, feet depending therefrom for supporting the same, a tubular upright formed with one end of said body, a right angle shaped member telescopically mounted in the opposite end of the body, means for adjustably securing said member with respect to said body, a pointed member including a shank mounted for vertical adjustment in said right angle disposed member, a sleeve mounted for vertical adjustment in said tubular upright, a threaded rod slidable through said sleeve and terminating at one end in a point adapted to cooperate with the point of the pointed member, a nut carried by said threaded rod, and resilient means for retaining said nut in contacting engagement with one end of said sleeve for the purpose specified.

1,663,453. QUAY WALL. LIONEL COKE-HILL, Montreal, Quebec, Canada. Filed Sept. 10, 1925. Serial No. 55,526. 6 Claims. (Cl. 61—49.)



1. A quay wall of substantially truncated V formation with a flat base formed at the vertex of the angle enclosed by the legs of the V.

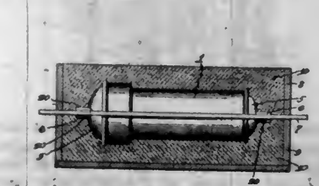
1,663,454. TRISAZO DYES FOR COTTON AND PROCESS OF MAKING THE SAME. HENRY JORDAN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 10, 1926. Serial No. 128,519. 14 Claims. (Cl. 260—72.)

8. A compound having the general formula:

$$R_1-N=N-R_2-N=N-R_3-N=N-R_4$$

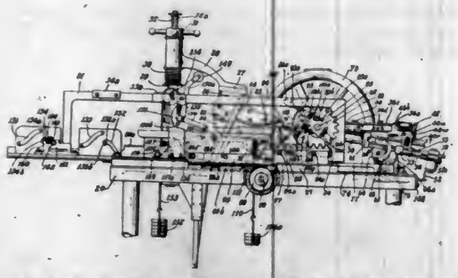
in which R_1 represents an aryl radical having no free hydroxl group, R_2 and R_3 represent naphthalene derivatives without a free hydroxyl group, and R_4 represents a 2-acylamino-8-naphthol-6-sulphonate.

1,663,455. MOLDING APPARATUS. JOHN B. LUKOMSKI, Detroit, Mich. Filed July 9, 1925. Serial No. 42,449. 5 Claims. (Cl. 22—194.)



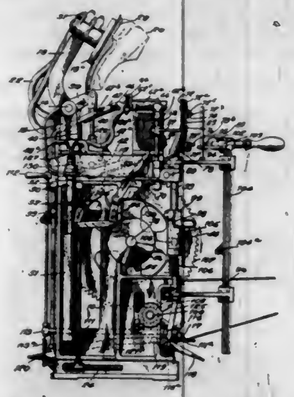
1. A method of molding articles wherein cores, patterns, and mold bodies constitute a molding apparatus by which my method may be carried into practice, said method consisting in first forming an oversized mold cavity from a core true to size; second, making a core pattern in the mold cavity and forming a core from said core pattern; third, using the core of true size to form another mold cavity differentiating from the first mentioned mold cavity, and fourth, placing the core made from the core pattern in the last mentioned mold cavity and forming an article.

1,663,456. METHOD AND APPARATUS FOR MAKING FOOTWEAR. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1922. Serial No. 582,884. 70 Claims. (Cl. 12—7.)



10. A shoe-lasting machine comprising a last support, an upper-supporting member having a position fixed with relation to said last support and adapted to receive an inverted upper in position to be swung over onto a last on said last support, a gauge for positioning said upper on its support, and an upper-transferring mechanism including a toe-stretcher and heel-stretchers constrained to move in determinate courses to so swing said upper and apply it to the last in a position thereon determined by said gauge.

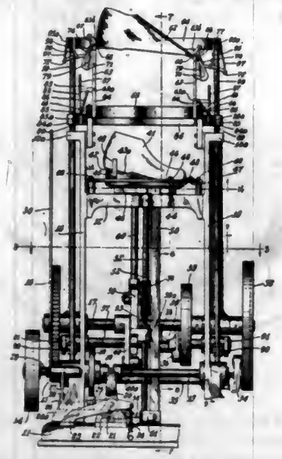
1,663,457. METHOD AND APPARATUS FOR MAKING FOOTWEAR. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 9, 1923. Serial No. 630,796. 52 Claims. (Cl. 12—7.)



7. Apparatus for building footwear upon a last, said apparatus comprising means for holding an upper shoe part in a determinate position and in spread condition, means constrained to move in a determinate course for holding a last inverted and lowering it onto said part, and means for twisting the heel portions of said part and swinging them about the last to apply them progressively thereto.

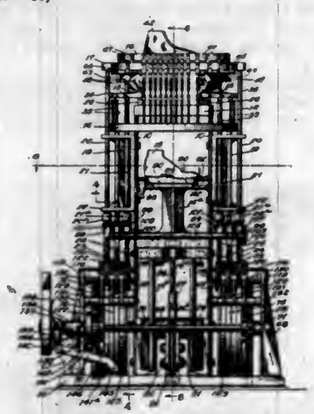
1,663,458. LASTING MACHINE. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1924. Serial No. 703,905. 67 Claims. (Cl. 12—9.)

1. A lasting machine comprising a set of nipper units completely surrounding a lasting position and adapted to receive the sole margin of an upper between their opened jaws, means for concurrently closing said jaws



to hold said upper substantially throughout its perimeter, and means for relatively advancing a last from a non-contiguous position into an upper so held.

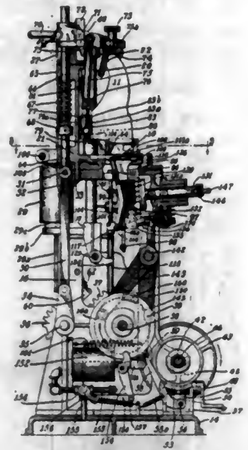
1,663,459. LASTING MACHINE. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1924. Serial No. 704,502. 22 Claims. (Cl. 12—9.)



1. A lasting machine comprising a set of gripper units defining a lasting position, each of said units comprising a pair of gripper jaws adapted to receive and grip the margin of an upper presented to said units collectively, and means having a retractive movement past said gripper jaws for drawing the upper's margin thereinto.

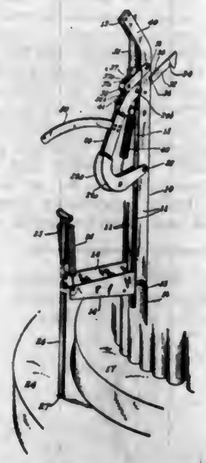
1,663,460. METHOD AND APPARATUS FOR MAKING FOOTWEAR. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 18, 1924. Serial No. 738,378. 30 Claims. (Cl. 12—7.)

4. Apparatus for making footwear, said apparatus comprising means for bringing a piece of shoe stock and a last together by determinate relative movement from isolated positions and progressively applying the stock to the last, said means comprising a gripper having movement along the face of the last and adapted to give off the stock to the last by slippage of the stock from



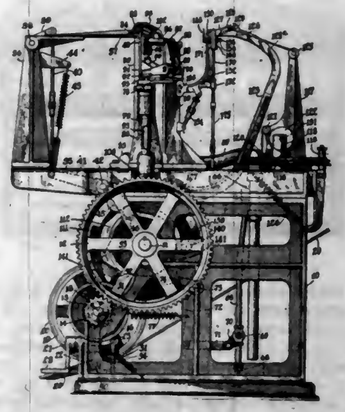
between its gripping members and locally acting means associated with the gripper and adapted therewith relatively to travel over the face of the work for pressing the stock against the last locally and by progression over the work as the stock is so given off.

1,663,461. MANIPULATING DEVICE FOR SHEET MATERIAL. FRANK J. MACDONALD, Eliet, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 25, 1925. Serial No. 11,525. 20 Claims. (Cl. 12—11.1.)



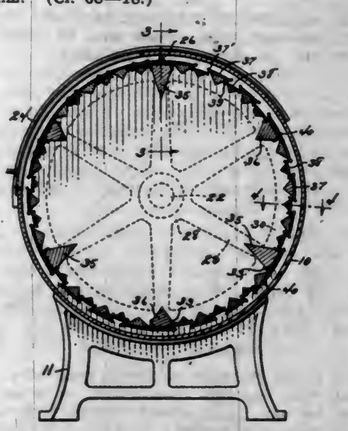
1. A sheet-manipulating device comprising a positioning member adapted to be abutted by the edge of the sheet to position the latter, means for drawing the sheet against said member to position it with its edge against the same, and means for determinately so moving the positioned margin with relation to the rest of the sheet as to give the sheet a complex form.

1,663,462. METHOD AND APPARATUS FOR FORMING SHOE LININGS OR THE LIKE. FRANK J. MACDONALD, Eliet, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 17, 1926. Serial No. 116,561. 28 Claims. (Cl. 12—52.)



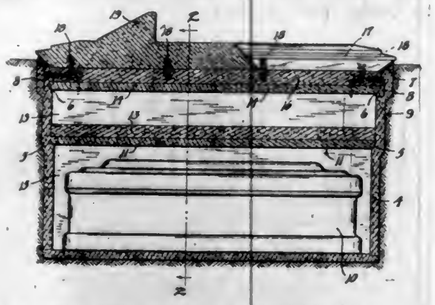
1. The method of joining two margins of sheet material which comprises holding one of the margins by suction applied thereto at a distance back from its edge and while so holding it overlapping it upon the other margin with the said other margin on that side of the first margin to which the suction is applied.

1,663,463. WASHING MACHINE. OTTO MEYER, San Antonio, Tex. Filed Nov. 23, 1925. Serial No. 70,988. 1 Claim. (Cl. 68—18.)



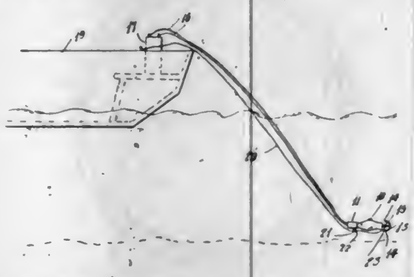
In a device of the class described, a housing, a rotatable cylinder mounted in the housing, said cylinder comprising end members, longitudinally extending devices having flanges coextensive therewith, the longitudinal devices being of triangular cross section and including bases on the outer sides and apices projecting toward the inner portion of the cylinder, and other longitudinal devices, alternating with said first named devices and being of reduced size compared with the others having bases spaced inwardly from the bases of said first mentioned devices, to form pockets, the flanges of adjacent longitudinal devices being flared in opposite directions, to form the opposite walls of individual channels extending from the interior of the cylinder outwardly toward the outer portion of the housing.

1,663,464. BURIAL VAULT. ROBERT C. PLAGGMIER, Taylor, N. Dak., assignor to National Survault Company, Bismarck, N. Dak., a Corporation. Filed Nov. 30, 1927. Serial No. 236,690. 2 Claims. (Cl. 72—7.)



1. A burial vault having in combination, a box adapted to extend into the ground and have its top surface adjacent the surface of the ground, and having a casket chamber in its lower portion, a dead air chamber above said casket chamber and sealed therefrom, supporting means in said box at the top of said dead air chamber, formed members resting on said supporting means and closing the top of said dead air chamber, a poured layer of concrete on said formed members and sealing the top of said dead air chamber, and a formed cover slab resting on the top of said box projecting downwardly somewhat therein and having members embedded therein which are also embedded in said poured layer, whereby an air-tight and moisture proof seal will be provided at the top of said dead air chamber and a heavy rigid construction provided at the top of said box.

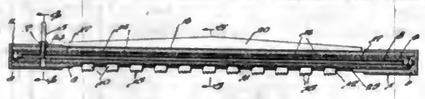
1,663,465. LUMINOUS FISHING TACKLE. JAMES A. NEFF, Lakewood, Ohio. Filed Mar. 25, 1926. Serial No. 97,295. 1 Claim. (Cl. 43—44.)



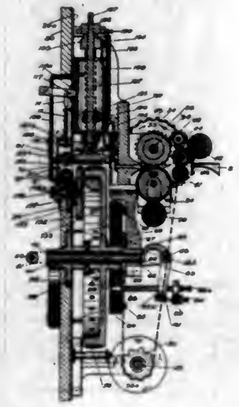
A bait of the character set forth, comprising a socket provided with contacts, conductors connected to the contacts for supplying current thereto, a bulb having one end thereof detachably engaged with the socket, said bulb being provided with a filament engaging the contacts, a hook having a shank secured directly to the other end of the bulb and provided between its ends with an eyelet, an eyelet fixed to and projecting radially from the socket, and a fishing line detachably connected to the eyelets.

1,663,466. NEUTRALIZING BAR. ALBERT J. ROSTAL, Chicago, Ill. Filed Aug. 28, 1924. Serial No. 734,771. 4 Claims. (Cl. 175—264.)

2. In a neutralizing device of the character stated, a rotatably mounted sleeve, a stationary main electrical conductor mounted within and spaced away from the sleeve, stationary means for connecting said conductor to a source of electrical energy, and a plurality of supplemental electrical conductors extending about and adjacent the main conductor, the supplemental conductors being electrically insulated from said main conductor and projecting beyond said sleeve and being movable therewith.



1,663,467. TICKET PRINTING AND ISSUING MACHINE. HENRY ROY SETRIGHT, Newtown, New South Wales, Australia. Filed May 21, 1923, Serial No. 640,603, and in Australia July 20, 1922. 27 Claims. (Cl. 101—66.)



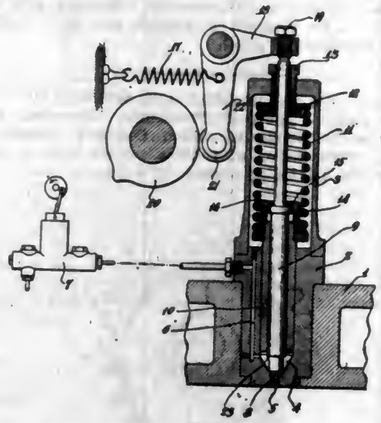
1. A ticket printing and issuing machine comprising rotatable means adapted to intermittingly feed to said machine a strip of paper from a roll thereof and optionally during such feed to print matter on ticket portions of said strip, and means for printing authentication marks on said ticket portions, and also means for cutting and ejecting from said machine said printed ticket portions, the combination of releasable means to lock said rotatable means against rotation, a press handle, an electric circuit, electro-magnetic means interposed in said circuit and controlled by said press handle, said electro-magnetic means acting to release the locking means associated with said paper feed means whereby the latter may be partially rotated together with the means for ejecting said printed ticket portions, means operated by the electro-magnetic means before said ejection occurs to print the authentication marks on said ticket portions, and means for re-establishing normality of said electric circuit and said electro-magnetic means.

1,663,468. COMB. JOSEPH V. VAUGHN, De Land, Fla. Filed June 1, 1925, Serial No. 34,188. Renewed Feb. 14, 1928. 1 Claim. (Cl. 132—14.)



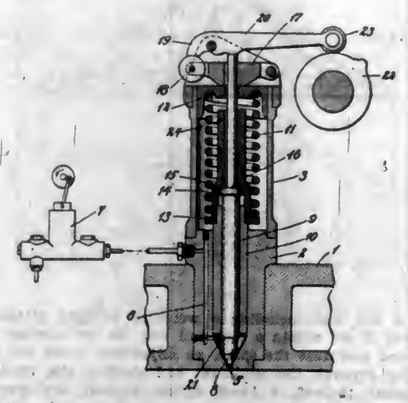
A comb for the purpose stated comprising a head of substantially cylindrical contour, a longitudinal series of relatively coarse teeth projecting radially from one side thereof, and a longitudinal series of relatively fine teeth projecting radially from the opposite side thereof, the teeth of the two series occupying a common plane, the opposite sides of the head between the series of teeth projecting beyond said plane to provide a curvilinear surface to be presented to hairs engaged and tensioned by the series of teeth.

1,663,469. FUEL-INJECTION DEVICE FOR INTERNAL-COMBUSTION ENGINES. EDUARD VON SALIS, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 4, 1924, Serial No. 747,706, and in Germany Nov. 23, 1923. 22 Claims. (Cl. 123—32.)



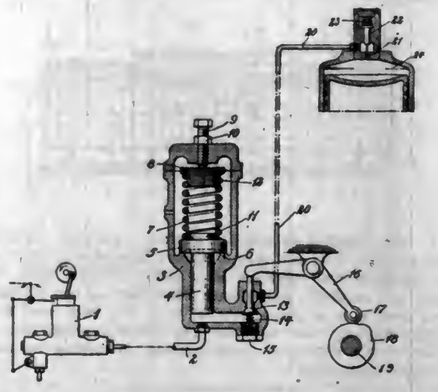
1. An airless fuel injection device for internal combustion engines comprising a fuel injection opening, a valve controlling said opening and having a valve seat surrounding said opening, means for opening said valve, means blocking said valve against opening, an accumulator having an accumulator spring and a plunger associated therewith and subject to contact with the fuel charge, and means for periodically unblocking the valve, said accumulator being operatively connected to the valve and acting to inject fuel when the valve opens and to seat the valve.

1,663,470. FUEL-INJECTION DEVICE FOR INTERNAL-COMBUSTION ENGINES. EDUARD VON SALIS, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 12, 1924, Serial No. 749,375, and in Switzerland Dec. 11, 1923. Renewed July 25, 1927. 33 Claims. (Cl. 123—32.)



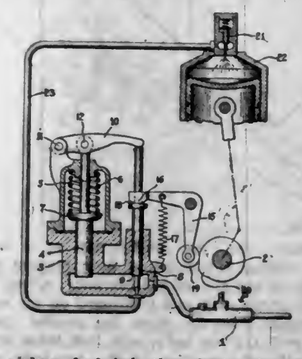
1. An airless fuel injection device, for internal combustion engines comprising a fuel injection opening, a valve controlling said opening, and an accumulator subject to pressure of the fuel charge and operatively connected to said valve so as to press it the more tightly on its seat the higher the accumulator pressure rises.

1,663,471. FUEL-INJECTION DEVICE FOR SOLID-OIL ENGINES. EDUARD VON SALIS, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 12, 1924, Serial No. 749,376, and in Switzerland Jan. 24, 1924. Renewed Jan. 12, 1928. 2 Claims. (Cl. 123—32.)



1. Means for producing substantially constant fuel injection velocity in solid oil engines comprising in combination a variable delivery oil pump, an accumulator chamber connected thereto and to the engine injector nozzle and having an accumulator plunger, a spring loading said plunger, and means for controlling communication between said chamber and the injection nozzle including a valve and timed means for periodically opening it, the accumulator plunger having an abutment adapted to move inward against a relatively fixed abutment before the valve closes, thereby terminating the delivery of the fuel to the engine injection nozzle, said nozzle having a fuel valve to control the delivery of fuel into the engine cylinder automatically opened by pressure of the fuel delivered by the accumulator, and closed by spring pressure on cessation of such delivery.

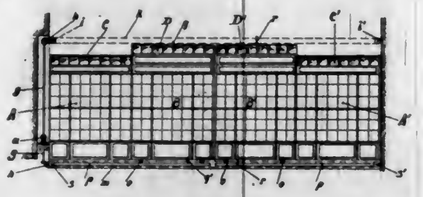
1,663,472. FUEL-INJECTION DEVICE FOR INTERNAL-COMBUSTION ENGINES. EDUARD VON SALIS, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 29, 1924, Serial No. 758,510, and in Switzerland Jan. 22, 1924. Renewed Jan. 12, 1928. 10 Claims. (Cl. 123—32.)



1. An airless fuel injection device for internal combustion engines comprising an accumulator located at a

distance from the cylinder, subject to pressure of the fuel charge, and having associated therewith a fuel outlet, a blocked valve commanding said outlet, means for periodically unblocking said valve, means for operating the valve when unblocked, a pipe connecting said fuel outlet to the cylinder, and a valve automatically controlling the fuel injection nozzle on the cylinder.

1,663,473. BUILDING. CARL APOUST WINDEKNECHT, Berlin, Germany. Filed Nov. 10, 1926, Serial No. 147,577, and in Germany Oct. 14, 1926. 9 Claims. (Cl. 20—1.)

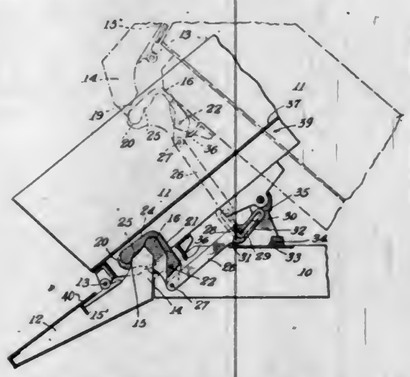


1. In a building or the like having a plurality of fixed and movable wall and roof sections; means for displacing the movable wall sections in a plane parallel with the fixed wall sections; and means for displacing the movable roof section in a plane parallel with the fixed roof sections, whereby the building may be converted into a substantially free open space without disturbing its continuous utilization.

1,663,474. VAT DYESTUFFS OF THE ANTHRAQUINONE SERIES CONTAINING THE TRIAZINE RING AND PROCESS OF MAKING SAME. FRANZ ACKERMANN, Binningen, near Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Sept. 24, 1927, Serial No. 221,858, and in Switzerland Oct. 6, 1926. 3 Claims. (Cl. 260—27.)

1. A process for the manufacture of vat dyestuffs of the anthraquinone series consisting in treating vat dyestuffs of the anthraquinone series containing triazine rings with aqueous hypochlorite solutions.

1,663,475. DUMP-CAR-DOOR-LOCKING DEVICE. ROY E. CARTZDAFNER, Passaic, N. J. Filed Feb. 25, 1924. Serial No. 694,859. 30 Claims. (Cl. 105—276.)

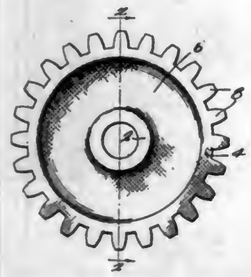


2. In a dump car, the combination of a car body mounted for tilting movement, a door pivoted adjacent its lower edge to one side of the car body, a lock movable independently of the door and positioned on the underside of the car body inwardly from the pivotal connection of the door with the car body, said lock being controlled automatically by the position of the car body when in normal horizontal position for bearing on the door to hold the same in closed position and means controlled by a tilting movement of the car body for shifting the lock into an inoperative position and thus permit the door to swing about its pivotal connection into an open position.

1,663,476. PROCESS OF PRODUCING AROMATIC AMINES. CLARK W. DAVIS, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 24, 1925. Serial No. 25,684. 3 Claims. (Cl. 260—130.5.)

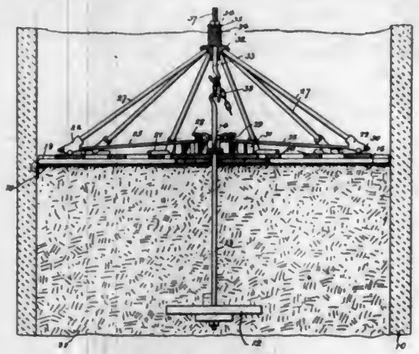
1. A process of producing an aromatic amine which comprises reducing a nitro-aromatic compound with iron and water in the presence of sulphuric acid and a chloride of an alkali-forming metal.

1,663,477. COMPOSITE GEAR AND METHOD OF MAKING SAME. LOUIS T. FREDERICK, Valparaiso, Ind., assignor to Fibroc Insulation Company, Valparaiso, Ind., a Corporation of Indiana. Filed Mar. 2, 1925. Serial No. 12,498. 2 Claims. (Cl. 74—28.)



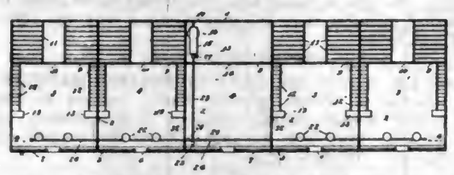
1. A gear blank of the character specified having a thickened rim portion and a thickened hub portion, the web portion being composed of parallel discs of woven fabric extending to the circumference of the blank, and the rim and hub portion at the side of the discs being composed of a mixture of small scraps of fabric, and a binder composed of a phenolic condensation product in hardened form.

1,663,478. SILO SEAL. FRED GÜNTHER, Peru, Ill. Filed Mar. 19, 1927. Serial No. 176,793. 6 Claims. (Cl. 20—1.4.)



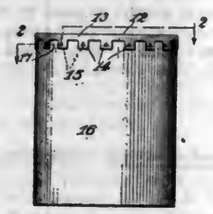
1. A silo seal including a weighted airtight platform adapted to fit within a silo and rest on the ensilage to seal and compress the same, an adjustable guide rod extending through the platform and guiding the vertical movement thereof, a block spring pressed downwardly and mounted adjacent the upper end of the rod, and inclined struts rockably connected to the platform near the edge of the latter and having their inner upper ends arranged under the block to transmit the downward spring pressure of the same to the platform.

1,663,479. EGG FACTORY. OSCAR W. MAPES, Middletown, N. Y. Filed Apr. 27, 1926. Serial No. 104,983. 1 Claim. (Cl. 119—21.)



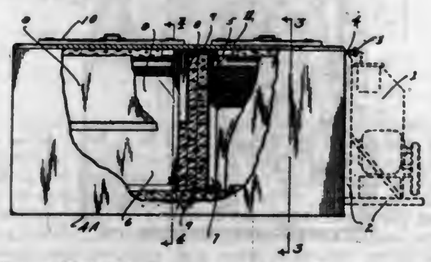
In combination with a building, partitions dividing the building into independent rooms or compartments, drinking pans in certain of the rooms, a water heating supply tank in one of the rooms, means for heating the tank, outlet pipes communicating with the tank, valves in the pipes controlling the flow of water, valved discharge spouts communicating with said pipes and discharging into the pans, flexible devices secured in the compartments, and covers for the pans secured to said flexible devices normally located over the pans but capable of being swung aside to permit access to the valved discharge spouts.

1,663,480. CONTAINER CLOSURE. WILLIAM H. ROSS, Jersey City, N. J. Filed Apr. 22, 1927. Serial No. 185,791. 6 Claims. (Cl. 229—5.7.)



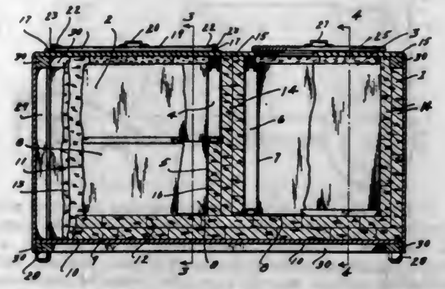
1. In a container closure, in combination, a central member, a flange carried by the central member, a plurality of downwardly extended tongues carried by the outer portion of the flange, a prong extending inwardly from each tongue and a closed ring capable of downward movement over the said tongues such movement forcing the tongues into the sides of a receptacle upon which the device is placed.

1,663,481. REFRIGERATOR FOR TWO-TEMPERATURE CABINETS. JACOB G. PECK, Portland, Oreg. Filed Aug. 5, 1925. Serial No. 48,376. 6 Claims. (Cl. 62—95.)



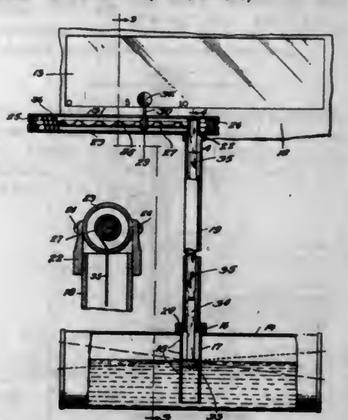
1. A refrigerator for a two temperature cabinet, comprising a two compartment, insulated cabinet, an expansion coil running from a refrigerating machine, through each compartment and back to a refrigerating machine, each compartment having a cooling tank with spaced side walls disposed therein and about the expansion coil, one of the cooling medium tanks having a greater amount of surface exposed to the compartment than the other, and one of the cooling medium tanks having a greater amount of expansion coil disposed therein than the other.

1,663,482. TWO-TEMPERATURE REFRIGERATING AND COOLING CABINET. JACOB G. PECK, Portland, Oreg. Filed Aug. 5, 1925. Serial No. 48,377. 2 Claims. (Cl. 217—7.)



1. A new and improved two temperature refrigerating and cooling cabinet, comprising a frame structure, suitable material to form the exterior covering and floor of said frame structure, two compartments formed in said cabinet, there being an opening thereto through the top of said cabinet; cooling medium tanks about said compartments and forming the walls thereof, pans to form the floors of said compartments, and insulating material between the covering and the sides of the cooling medium tanks, and between the floor of said cabinet and said pans, the tank in one compartment being of greater depth than those of the other compartment whereby to provide different temperatures in the two compartments.

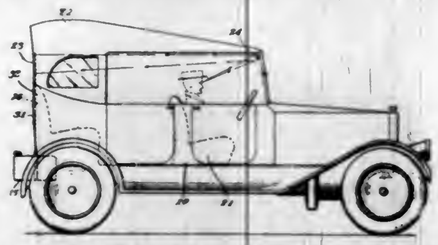
1,663,483. INDICATING MEANS. EARL F. PIERCE, Chicago, Ill.; Central Trust Company of Illinois, administrator of said Earl F. Pierce, deceased, assignor to Florence E. Pierce. Filed Sept. 12, 1924. Serial No. 737,294. 2 Claims. (Cl. 73—82.)



1. The combination with an automobile having a rear window and a rear fuel tank, of means for indicating to the driver of the car the level of fuel in said fuel tank, comprising a threaded rotatable rod extending substantially parallel with one of the horizontal sides of said window, an indicator silhouetted against said window, a

threaded connection between said indicator and said rod, a spring tending to rotate said rod in one direction, a float in said fuel tank, and a connection between said float and threaded rod for rotating said rod in the opposite direction as the level in said fuel tank drops.

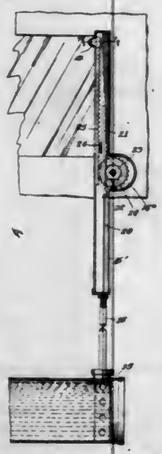
1,663,484. LIQUID-LEVEL GAUGE. EARL F. PIERCE, Winnetka, Ill.; Central Trust Company of Illinois, administrator of said Earl F. Pierce, deceased, assignor to Florence E. Pierce. Filed Sept. 26, 1925. Serial No. 58,856. 7 Claims. (Cl. 73—82.)



1. The combination with an automobile having a rear window and a fuel tank at the rear, of movable means in said tank responsive to the depth of fuel therein, an indicating device silhouetted against said window, said indicating devices having a smaller range of movement than said depth-responsive means, and means for connecting said depth responsive means with said indicating devices comprising means located adjacent said window for compensating for the differences in the range of movement of said indicating device and said depth-responsive means.

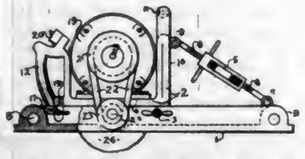
5. The combination with an automotive vehicle comprising a body having a rear window, a fuel tank adjacent the rear end of said body, and a driver's seat, of means in said tank responsive to changes in the level of the fuel therein, and an indicating device located to the rear of the driver's seat and visible in outline by the one occupying said seat and looking through the rear window, said device being operatively connected with said fuel level-responsive means.

1,663,485. LIQUID-LEVEL GAUGE. EARL F. PIERCE, Winnetka, Ill.; Central Trust Company of Illinois, administrator of said Earl F. Pierce, deceased, assignor to Florence E. Pierce. Filed Jan. 15, 1926. Serial No. 81,451. 7 Claims. (Cl. 73—82.)



1. The combination with an automobile comprising a chassis, a fuel tank mounted on said chassis adjacent the rear end thereof, a body mounted on said chassis and having a window at the rear end thereof, and means for indicating the level of fuel in said fuel tank comprising an indicator, a guide for confining the movement of said indicator to a path along one of the vertical edges of said window, a float in said tank, and means for connecting said indicator and float so that said indicator moves proportionately to the movement of said float comprising a rack secured to said indicator, a second rack connected with said float, and a gear train connecting said racks, the gear meshing with one of said racks being of smaller diameter than the gear meshing with the other of said racks.

1,663,486. PORTABLE AND CONVERTIBLE MACHINE. HOWARD G. WERTZ, Wichita, Kans., assignor to The Utility Manufacturing Company, a Corporation of Kansas. Filed Apr. 23, 1926. Serial No. 104,108. 2 Claims. (Cl. 143—43.)



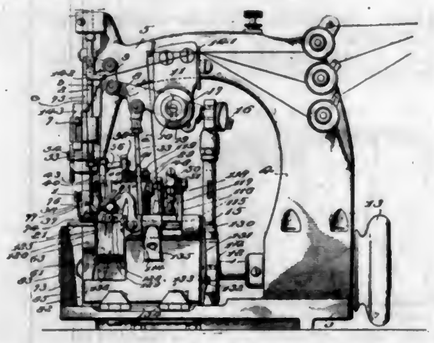
1. In a portable and convertible machine, a right angular frame and a bed pivotally connected, an electric motor and a mandrel carried by the frame, the frame adapted to rock so that either side of the right angle will position parallel with the bed, and means for attaching the frame to the bed rigidly when rocked either way.

1,663,487. BRACE STRUT. EARL F. SMITH and GUY KENNETH WILSON, Muncie, Ind., assignors to Mid-West Metal Products Company, Muncie, Ind., a Corporation. Filed Oct. 22, 1926. Serial No. 143,350. 4 Claims. (Cl. 20—9.)



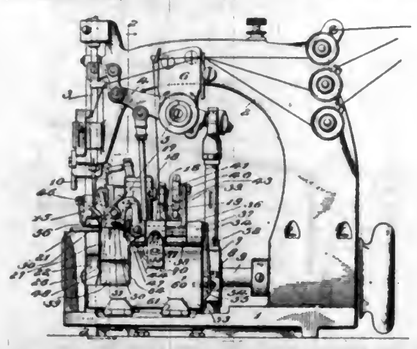
1. A brace strut of the kind described, consisting of a sheet metal bar having its ends bent in opposed directions from the axis of the bar, there being a rib across the line of the bend of each of said ends.

1,663,488. OVEREDGE SEWING MACHINE. JOSEPH BERGER, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1924. Serial No. 729,099. 32 Claims. (Cl. 112—162.)



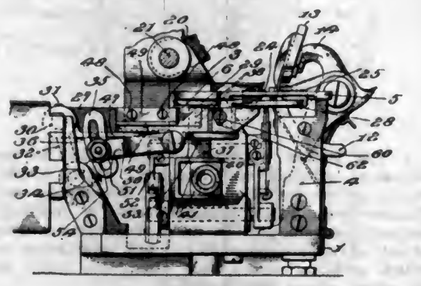
1. In a sewing machine, a cloth plate, a reciprocating needle, an under thread carrying looper cooperating with said needle beneath the cloth plate and movable back and forth in a single plane in rear of the needle, an overedge looper, means for oscillating said looped for moving the point thereof from below the plane of the cloth plate over the cloth plate, and means for shifting the plane of oscillation of the overedge looper whereby the point thereof moves from a position in rear of the under thread looper to a point in front of the needle.

1,663,489. OVEREDGE SEWING MACHINE. JOSEPH BERGER, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1924. Serial No. 729,100. 20 Claims. (Cl. 112—122.)



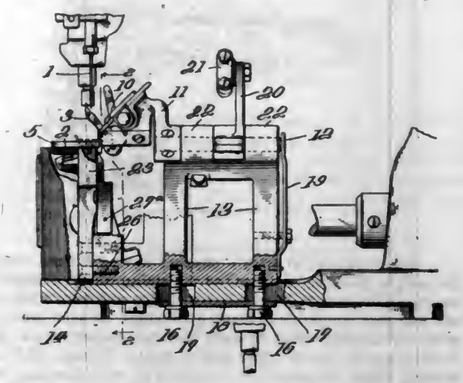
1. A trimming mechanism for sewing machines comprising an upper movable trimming blade and a lower stationary cooperating blade, means for supporting and moving said upper blade from a position well above said stationary blade into cooperative cutting action therewith, and means independent of and movable with said movable blade for maintaining said movable blade in proper alinement with the stationary blade during the entire movement of said movable blade.

1,663,490. FEEDING MECHANISM FOR SEWING MACHINES. JOSEPH BERGER, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 30, 1924, Serial No. 729,099. Divided and this application filed July 30, 1924. Serial No. 729,101. 6 Claims. (Cl. 112—209.)



1. A feeding mechanism for sewing machines including in combination, a main feed bar, swinging rock arms for supporting the rear end of said main feed bar, means for raising and lowering said main feed bar, an auxiliary feed bar mounted on said main feed bar and movable up and down therewith, feed dogs carried by the respective feed bars, an oscillating shaft at the rear of the machine supporting said swinging rock arms, a bracket rigidly secured to said shaft and having two separated upwardly extending arms, each of which is provided with a slot, a link having adjustable connection with one of said arms and a direct connection with the main feed bar for moving the same back and forth, and a link connected to the other arm and having a direct connection with the auxiliary feed bar for moving said auxiliary feed bar back and forth.

1,663,491. TRIMMING MECHANISM FOR SEWING MACHINES. JOSEPH BERGER, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 25, 1926. Serial No. 90,605. 5 Claims. (Cl. 112—126.)

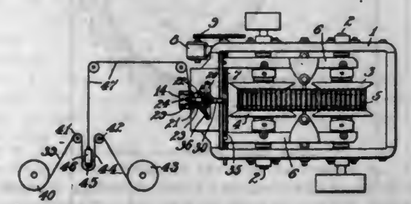


1. In a sewing machine, the combination of a bed plate, a throat plate, stitch forming mechanism including a needle, trimming mechanism including upper and lower trimming members, and means for supporting said trimming members including a bracket on which said members are mounted, means for connecting said bracket to the bed plate so that said bracket can be adjusted for varying the position of the trimming mechanism relative to the needle and means for supporting one end of said throat plate on said bracket.

1,663,492. MUD-LADEN FLUID FOR OIL AND GAS WELLS. LEE CHAMBERLAIN, Los Angeles, Calif., assignor to Chamberlain Co., Inc., a Corporation of California. Filed Aug. 2, 1926. Serial No. 126,747. 1 Claim. (Cl. 255—1.)

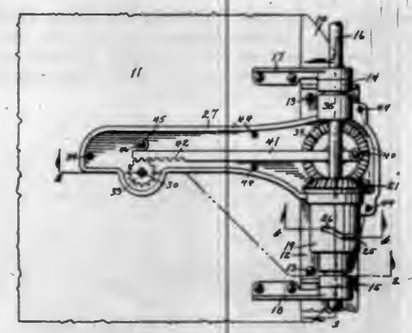
A mud-laden fluid for oil and gas wells comprising finely ground iron filings, borings and scale.

1,663,493. CONTROL FOR VARIABLE-SPEED MECHANISM. HARRY C. CLAY, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a Corporation of Indiana. Filed May 23, 1927. Serial No. 193,480. 6 Claims. (Cl. 242—75.)



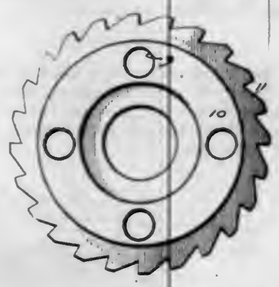
1. The combination with a variable speed mechanism, of an electric motor for controlling the same to cause it to drive at varying speeds, a switch controlling the operation of said motor and means for operating said switch, including a pair of operating arms operated by different agencies, an arm for operating said switch and a differential gear operably connecting said arms.

1,663,494. DRIVING MECHANISM FOR WASHING MACHINES. HARRY J. CRISSM, Burlington, Iowa, assignor to Clarinda Manufacturing Company, Clarinda, Iowa, a Corporation of Iowa. Filed Feb. 26, 1927. Serial No. 171,197. 3 Claims. (Cl. 74—14.)



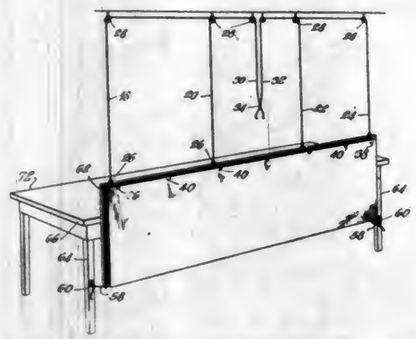
1. The combination with a support having a fixed member and a movable member, of a driving shaft arranged for rotation on said fixed member, hinge members fixed to the movable support and having bearings on said driving shaft, a housing fixed to said movable support and extending across and at right angles to said driving shaft, a bearing block arranged for rotation in said housing, an agitator shaft arranged for rotation with and for sliding movement relative to said bearing block and extending through said movable support, a bevel gear arranged for rotation in said housing, a second bevel gear feathered on said driving shaft and adapted to be brought into operative engagement with the first mentioned bevel gear, the first mentioned bevel gear having a wrist pin on its face, a rack bar pivoted on said wrist pin, and a pinion on said bearing block meshing with and adapted to be operated by said rack bar, the housing and members connected therewith being movable through an arc with said movable support on the axis of said driving shaft.

1,663,495. FEED MILL. JAMES A. DAY, Knoxville, Tenn., assignor to O. B. Wise, Knoxville, Tenn. Filed Feb. 26, 1926. Serial No. 90,948. 4 Claims. (Cl. 83—9.)



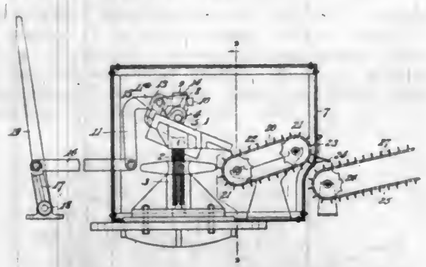
1. In a grinding mill having a driven shaft, a plurality of supporting elements mounted on the shaft and having alined openings, and a rod extending through the openings, the combination of material contact and grinding disks pivotally and eccentrically mounted upon said rod and having annular series of teeth for engaging the material, each tooth having one end edge arranged substantially radially of the disk and the outer edge of each tooth extending diagonally inwardly, said material contact and grinding disks being urged outwardly by centrifugal force, and spacing members mounted upon said shaft and between said supporting elements for spacing the same and said spacing members being positioned to engage said disks for limiting the pivotal movement of said disks.

1,663,496. METHOD AND APPARATUS FOR LAYING UP CLOTH. JOSEPH EBENHART, New York, N. Y., assignor of one-half to Harry J. Silverman, New York, N. Y. Filed Jan. 30, 1926. Serial No. 85,067. 5 Claims. (Cl. 270—61.)



1. An apparatus of the class described comprising a frame carrying a plurality of suspension pins and means for elevating and lowering said frame with a parallel motion.

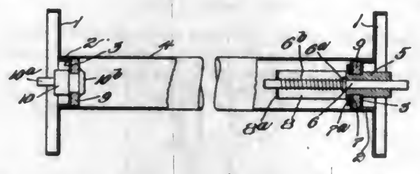
1,663,497. METHOD OF PREVENTING OXIDATION OF METAL PIPE WHILE COOLING. BENJAMIN P. HAZELTINE, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Apr. 7, 1926. Serial No. 100,866. 3 Claims. (Cl. 148—116.)



1. The method of handling metal pipe to prevent excessive oxidation while cooling, which consists in conveying the heated pipe to and through an enclosed chamber from which atmospheric air is excluded, and maintaining said pipe in the non-oxidizing atmosphere of said chamber while cooling it to a point below that at which oxidation occurs, said atmosphere being created by steam within said chamber.

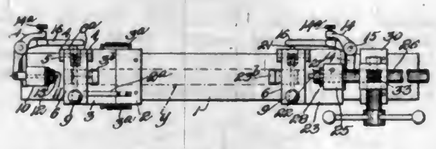
1,663,498. YARN SPOOL. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 15, 1927. Serial No. 168,824. 4 Claims. (Cl. 242—118.)

1. In a yarn spool, the combination with a tubular barrel, an end head having an interior annular hub portion with an inturned centrally perforated flange, an axially disposed longitudinally bored gudgeon having its inner end portion reduced to form a neck fitting into the aperture in said flange, a spring pressed pintle slidable in said bore, an attaching member also surrounding the inner end of the gudgeon and having peripheral



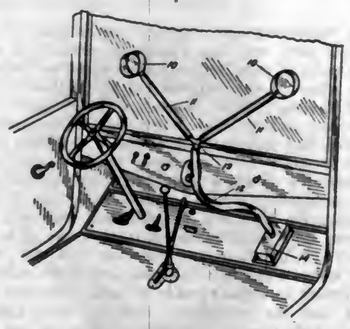
laterally offset wings, a thrust member having at its outer end detachable locking engagement with said wings and having a transverse portion arranged to form a seat for sustaining the inner end of the pintle-pressing spring.

1,663,499. MACHINE FOR AFFIXING FERRULES TO WOODEN ROLLERS OR THE LIKE. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,763. 14 Claims. (Cl. 29—84.)



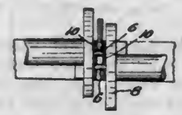
1. In a machine for applying ferrules to wooden rollers, the combination with a supporting bed-plate, separable die-carrying jaws mounted in axial alignment, ferrule-supporting abutments mounted in coaxial alignment with said die-carrying jaws, and means for forcing one abutment and its associated jaws toward the other and thereby force the ferrules over the opposite ends of an interposed roller.

1,663,500. CLEAR-VISION DEVICE FOR AUTOMOBILE WINDSHIELDS. EDWARD A. KROH, Stella, Nebr., assignor of one-half to L. L. Poe, Lincoln, Nebr. Filed Mar. 24, 1927. Serial No. 178,069. 2 Claims. (Cl. 20—40.5.)



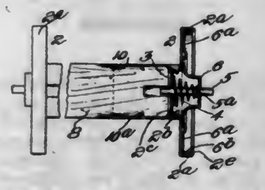
1. A clear vision device for automobile windshields including a frame member, means for conducting heated air to the interior of said frame member, and a window in a side of said frame member, said means for conducting heated air being adapted to yieldably hold said frame member in intimate contact with the windshield of an automobile whereby the heated air will be forced out at the edge of said frame member contacting with the windshield.

1,663,501. TUBE FRAME. CHARLES LEA, Milton, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 24, 1926. Serial No. 104,317. 4 Claims. (Cl. 139—10.)



1. In a tube frame for tuft-weaving, the combination with a longitudinal carrier-bar, a plurality of longitudinally arranged spools rotatably journaled above the tube frame with the adjacent journals of adjacent spools disposed in transversely offset planes to permit the journals to lap by each other.

1,663,502. YARN SPOOL FOR TUBE FRAMES. CHARLES LEA, Milton, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 15, 1927. Serial No. 168,822. 5 Claims. (Cl. 242—124.)



1. A yarn spool comprising a substantially cylindrical barrel, an end head having an interior annular flange fitting inside the hollow end portion of said barrel, separate inner and outer bearing members arranged in said end head in axially spaced relation, one of said members being interiorly cupped to increase the axial distance between the bearing members, a bearing pintle slidably supported in axial position by said spaced bearing members, and a spring arranged between the two bearing members acting to yieldingly force the pin to its outer position.

1,663,503. PROCESS OF MAKING STRUCTURAL INSULATING BOARDS OF EXPLODED LIGNO-CELLULOSE FIBER. WILLIAM H. MASON, Laurel, Miss., assignor to Mason Fibre Company, Laurel, Miss., a Corporation of Delaware. Filed June 19, 1925. Serial No. 38,356. 3 Claims. (Cl. 92—1.)

The process of making structural insulating board, which consists in exploding ligno-cellulose material from pressures in excess of 275# per square inch, whereby fibrated material of graduated fineness is obtained well adapted for the production of insulating board, forming into the sheet form in hot water, passing through press rolls and drying.

1,663,504. PRESS-DRIED STRUCTURAL INSULATING BOARD AND PROCESS OF MAKING SAME. WILLIAM H. MASON, Laurel, Miss., assignor to Mason Fibre Company, Laurel, Miss., a Corporation of Delaware. Filed Sept. 18, 1925. Serial No. 57,251. 5 Claims. (Cl. 92—8.)

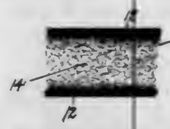
1. An integral, stiff, strong, structural insulating board, made from ligno-cellulose fiber exploded from under high pressure, and containing at least a greater

part of its original lignins, dried under heat and pressure, and which, while porous throughout, comprises an inner portion of relatively high porosity, and denser, harder and stronger surface portions of relatively lower porosity enclosing said inner portion.

1,663,505. HARD GRAINLESS FIBER PRODUCTS AND PROCESS OF MAKING SAME. WILLIAM H. MASON, Laurel, Miss., assignor to Mason Fibre Company, Laurel, Miss., a Corporation of Delaware. Filed Sept. 18, 1925. Serial No. 57,252. 26 Claims. (Cl. 92—54.)

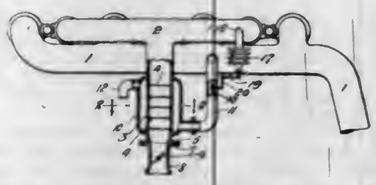
1. An article of manufacture consisting of a coherent, grainless, hard, stiff and strong body of wood or woody material which had been disintegrated into substantially fibrous state, said body being denser than, and comprising practically all the substance of, the original or woody material, and practically completely freed from moisture in making.

1,663,506. INTEGRAL INSULATING BOARD WITH HARD WELDED SURFACES. WILLIAM H. MASON, Laurel, Miss., assignor to Mason Fibre Company, Laurel Miss., a Corporation of Delaware. Filed Mar. 1, 1926. Serial No. 91,447. 7 Claims. (Cl. 92—38.)



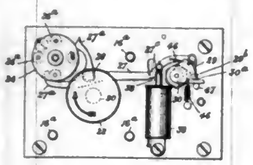
1. An integral fiber product comprising wood or woody material which had been disintegrated into substantially fibrous state and containing practically all the original wood or woody material, said product comprising a dense, non-porous portion of material thickness and high strength in which the fibers are permanently coalesced together under heat and pressure, and an adjacent light porous portion integral with the first-named portion and formed from the same body of fiber.

1,663,507. PROCESS OF PREPARING A DRY GASEOUS FUEL MIXTURE FOR INTERNAL-COMBUSTION ENGINES. CHARLES E. PARSONS, Englewood, N. J., assignor to William P. Deppé, New York, N. Y. Filed Aug. 14, 1926. Serial No. 129,193. 8 Claims. (Cl. 48—180.)



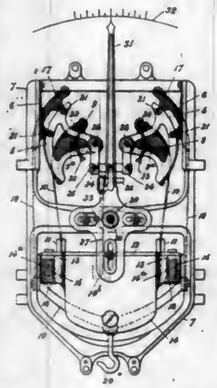
1. In an internal combustion engine, the method of producing a homogenous dry gaseous mixture of liquid fuels and air by equilibrium vaporization during the operation of the engine, which comprises impregnating a moving stream of air with liquid fuel particles in predetermined ratio to form the mixture, successively filming entrained liquid fuel particles in contiguous films transversely of the mixture stream, heating successively formed films while maintaining the fuel vapors in contact therewith until complete vaporization is effected under equilibrium conditions, the amount of heat applied being such that the temperature of the resulting dry gaseous mixture is not less than the temperature for complete equilibrium vaporization of the fuels in the ratio involved.

1,663,508. COIN-FREED DELIVERY MECHANISM. LESLIE CLIFFORD BRADLEY, Birmingham, England, assignor to W. & T. Avery Limited, Birmingham, England. Filed Mar. 18, 1926, Serial No. 95,743, and in Great Britain Mar. 23, 1925. 5 Claims. (Cl. 194—22.)



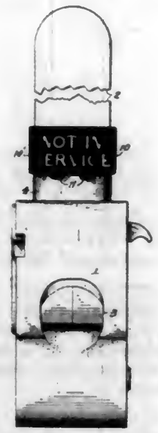
5. A coin freed delivery mechanism comprising a spring operated shaft for actuating a dispensing means, a spur wheel adapted to be driven from said shaft, an escapement wheel adapted to be driven from said spur wheel, stops arranged at 90 degrees apart on said escapement wheel, an escapement lever adapted to co-operate with said escapement wheel, a coin chute, a trip lever an arm whereof is disposed within said coin chute, means connected with said trip lever for releasing the escapement lever upon the insertion of a coin, and means for denoting the number of packets remaining or extracted from the machine.

1,663,509. WEIGHING APPARATUS. WILLIAM TIMSON, Birmingham, England, assignor to W. & T. Avery, Limited, Birmingham, England. Filed Nov. 22, 1926, Serial No. 150,102, and in Great Britain May 19, 1926. 5 Claims. (Cl. 265—70.)



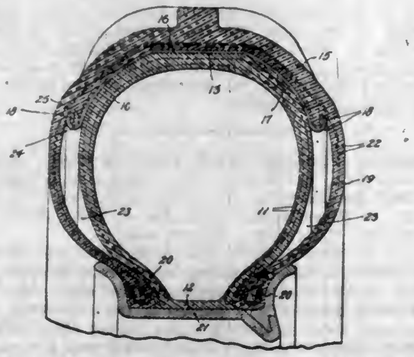
1. An indicating and resistant mechanism for use in connection with weighing apparatus comprising a housing, two pairs of cam-like suspension members disposed on opposite sides of the longitudinal axis of said housing, pairs of flexible ribbons secured at their upper ends to said housing and at their lower ends to the peripheries of the cam-like suspension members, a resistant carrying cam-like member fixed relatively to each pair of cam-like suspension members and having its periphery eccentrically disposed relatively to the peripheries of the cam-like suspension members, a pendulous resistant, a pair of flexible ribbons anchored at their upper ends to the periphery of the resistant carrying cam-like members and at their lower end to said pendulous resistant, a load carrying cam-like member secured relatively to each pair of cam-like suspension members and having its periphery eccentrically disposed relative to the peripheries of the cam-like suspension members, each set of cam-like members being co-axially disposed and arranged on the same side of the vertical plane passing through the common axes, flexible ribbons connected at their upper ends to the load carrying cam-like members, means connected to the lower ends of said last mentioned ribbons for transmitting the pull of the load to said ribbons, an indicating mechanism and means connected with said cam-like members for actuating the said indicating mechanism.

1,663,510. DISPENSING DEVICE. EDWIN G. WESSMAN, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1924. Serial No. 737,863. 12 Claims. (Cl. 312—35.)



1. In a dispensing device, a supporting casing including a socket part, a container having a lower part adapted to detachably seat in said socket part and having an outwardly extending lateral projecting portion, a ring like member adapted to fit over a lower portion of the container and bearing a sign thereupon, said ring like member being adapted to be adjusted relatively to the socket part to position the same with its sign facing to the front of the casing in view or to position the same with is sign out of said position disposed at a different point about the casing, the ring like member having an inwardly extending portion on the lower part thereof adapted to engage between said outwardly projecting portion of the container and the upper portion of the socket part.

1,663,511. AUTOMOBILE TIRE. HIRAM C. ANDERSON, New York, N. Y. Filed May 4, 1926. Serial No. 106,622. 4 Claims. (Cl. 152—18.)



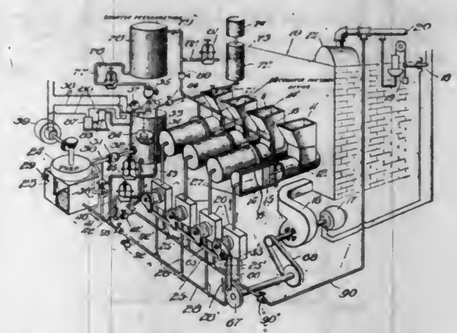
1. The herein described pneumatic tire tread protector adapted to have direct association with the tread portion of said tire, the protector having side portions of flexible but non-elastic structure constituting hangers, the tread portion of the protector including a rigid metallic armor ring having continuous annular side beads whose edges are rolled closely upon themselves and serve to maintain at all times said hangers in spaced relation to the sides of the tire, forming constant lateral air cushions between the hangers and the tire.

1,663,512. PROPELLER. LOUIS BREGUET, Paris, France, assignor to Societe Anonyme des Ateliers d'Aviation Louis Breguet, Paris, France, a Company of France. Filed Dec. 17, 1927, Serial No. 240,853, and in France Sept. 1, 1926. 5 Claims. (Cl. 170—159.)



1. A propeller blade in which the cubical content of the leading edge portion is of greater specific gravity than that of the remaining portion.

1,663,513. RAM DRIVE FOR UNDERFEED STOKERS. CURTIS L. HOWSE, Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1922. Serial No. 540,646. 4 Claims. (Cl. 60—52.)



1. In a driving system for stoker rams, the combination with a plurality of rams, of respective reciprocating engines therefor, means including a hydraulic pump and a storage tank to serve all of said rams for developing engine-operating high pressure, high pressure connections between said tank and one end only of each said engine and including for each said engine an automatic controlling valve, each said valve being operable to connect said end only of its engine with the high pressure and alternately to relieve pressure therein, means for operating said valves, settable individually as to periodicity of operation of each said valve, and means independent of said valves for supplying lower pressure to the other end of each engine for effecting its return stroke when the high pressure is relieved as aforesaid.

1,663,514. AUTOMOBILE DOOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1921. Serial No. 508,943. 24 Claims. (Cl. 296—44.)

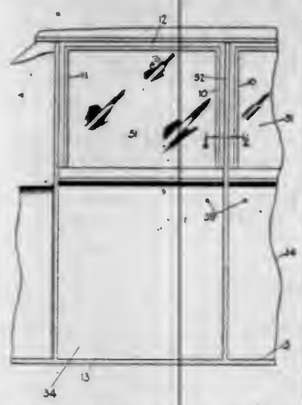
1. A door for automobiles comprising a metallic frame having top and side members, said side members being provided with lateral flanges, and a sheet-metal panel, having a window opening in its upper portion, and having

its upper edge bent to form an angle, said panel being applied to said frame and having its side edges bent over said flanges, the angle portion at the upper edge of said panel being spaced from the top member of the frame.



11. A door for vehicle bodies comprising a hinge rail of channel section, a channel-section reinforcing member positioned within the channel of the rail, and a hinge member secured to the reinforcing member and rail.

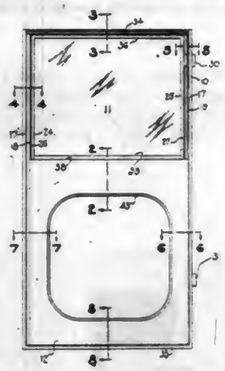
1,663,515. PRESSED-METAL SEDAN DOOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1924. Serial No. 738,783. 21 Claims. (Cl. 296—44.)



10. A top rail structure for the door of closed vehicle bodies comprising a main rail body formed with a shoulder adapted to provide the outer side wall of a glass receiving channel, together with an auxiliary member removably secured to said main body and forming the inner side wall and bottom of the glass receiving channel.

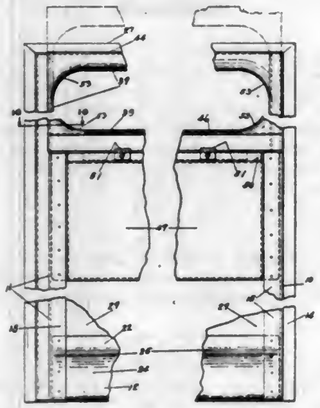
1,663,516. DOOR FOR AUTOMOBILE BODIES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 17, 1925. Serial No. 50,599. 9 Claims. (Cl. 296—44.)

1. A door rail for closed body vehicles comprising a lower section formed integrally with the inner panel of the door, and having a laterally-extending flange thereon constituting the lower outer over-lap of the door, and an upper section of substantially angle section integrally joined to said lower section, said upper section having



a laterally-extending flange in vertical alignment with said first mentioned laterally-extending flange to form therewith the outer over-lap of the door.

1,663,517. DOOR CONSTRUCTION. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 14, 1925. Serial No. 69,012. 17 Claims. (Cl. 296—44.)

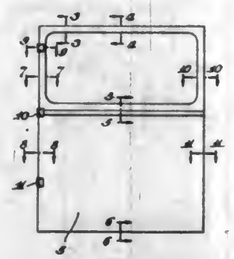


1. In combination, a window frame for closed vehicle bodies, a removable one piece glass retaining frame forming a closed figure, and interengaging means on said frames for effecting an interlocking engagement therebetween by relative movement of the frames in the plane of the window.

1,663,518. PRESSED-METAL VEHICLE DOOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1927. Serial No. 159,828. 11 Claims. (Cl. 296—44.)

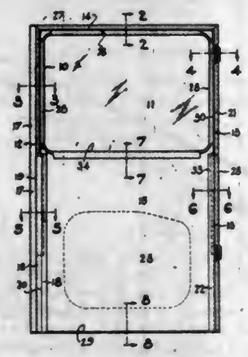
1. In a pressed metal door construction for automobile bodies, a side rail having transversely-extending inward off-sets arranged in spaced vertical relationship and connected together by a portion of the rail which is in the same plane as those portions thereof above and below the offsets whereby a hinge bracket may be arranged interiorly of the rail between the spaced offsets.

4. In a pressed metal door construction for automobile bodies, side and top rails of substantially Z-shape having longitudinally-extending inward offsets formed therein substantially equal in depth to the width of the inner arm of the rails above the belt line of the door.



6. In a pressed metal door construction for automobile bodies, a substantially Z-shaped top rail having its inner arm upwardly and inwardly flanged adjacent one end thereof, and means cooperating with said upwardly and inwardly flanged portion for slidably housing a door stop mechanism.

1,663,519. DOOR FOR AUTOMOBILE BODIES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 12, 1926. Serial No. 80,797. 5 Claims. (Cl. 296—44.)

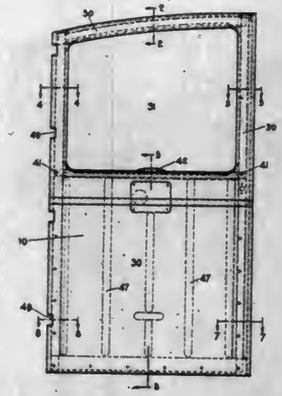


1. In a pressed metal automobile door, in combination, a pair of pressed metal side rails, inwardly-extending integral tabs at the tops of said side rails, and a top rail having its ends seated under and secured to said inwardly-extending tabs.

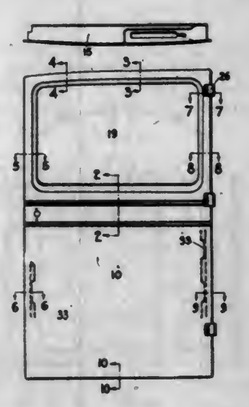
3. A rail for doors of closed vehicle bodies comprising a pressed metal member extending the length of the door and having a transverse web portion forming the jamb face of the door, said web portion being offset intermediate its edges, the offset being substantially less than in its upper portion at the side of the window opening than in the lower portion.

1,663,520. PRESSED-METAL VEHICLE DOOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 23, 1927. Serial No. 170,146. 7 Claims. (Cl. 296—44.)

1. In a pressed metal door structure, a pair of vertically extending side rails of substantially outwardly presenting channel formation, the inner walls of said rails being provided with laterally extending flanges lying substantially in the same vertical plane, a pair of members secured to the inner walls of said channels and provided with flanges spaced from but parallelling said first mentioned flanges, said parallelly arranged flanges constituting the side walls of a pair of glass run channels in the lower region of the door below a window opening therein.



1,663,521. PRESSED-METAL VEHICLE DOOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 5, 1927. Serial No. 172,937. 6 Claims. (Cl. 296—44.)

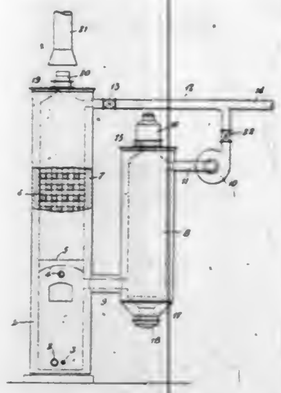


1. In an automobile door construction, a jamb rail of substantially double Z cross section extending substantially the full length of the door, the inner branch of said rail above the belt line of the door being folded back upon the web of said rail, a molding member overlying the inner surface of the folded back portion of said rail, and means for detachably securing said mmbr in position.

1,663,522. CARBONIZING AND GAS-MAKING APPARATUS. PIERRE PLANTINGA, Cleveland, Ohio; The Cleveland Trust Company executor of said Pierre Plantinga, deceased. Filed Dec. 21, 1922. Serial No. 608,203. 3 Claims. (Cl. 202—4.)

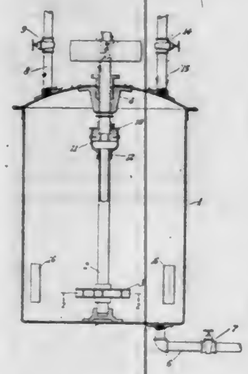
1. A carbonizing and gas-making apparatus comprising a heat-absorbing and transmitting element; heat-generating means including a gas-producer, beneath and connected with said element; a primary-air inlet for the

lower part of the producer and separate means for admitting steam to such producer part; a secondary air inlet for the upper part of said producer; a carbonizing



chamber separate from said producer and said element but communicating with both of same; and means for effecting a circulation of gases through said element and carbonizing chamber.

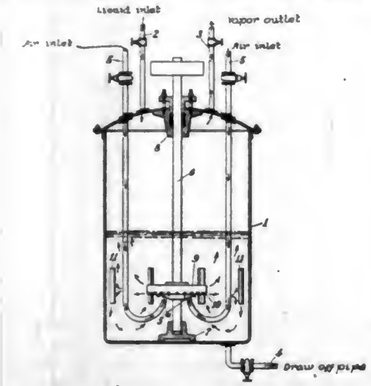
1,663,523. OXIDATION OF HYDROCARBON OILS. EBENEZER EMMET REID, Baltimore, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 5, 1921. Serial No. 482,592. 14 Claims. (Cl. 196—65.)



10. A process of oxidizing mineral oil which comprises injecting finely divided oxygen containing gas into a heated body of the oil below the surface thereof in streams rotating in excess of a thousand revolutions per minute.

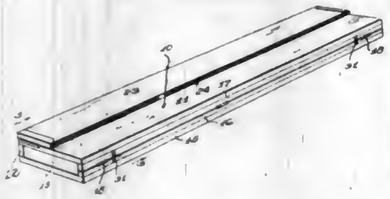
1,663,524. PRODUCTION OF ACIDS. EBENEZER EMMET REID, Baltimore, Md., and CHARLES E. BURKE, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 14, 1925. Serial No. 9,089. 3 Claims. (Cl. 260—116.)

1. The method of producing acids by the oxidation of hydrocarbon oil which comprises stirring and distributing the oil at high speed and at a temperature substantially below 300° C. and meanwhile introducing oxygen-containing gas below the surface of the oil and in close relation to the centre of distribution of the oil to thereby effect high dissemination of the gas, and cause the travelling oil to entrain the gas, thereby effecting intimate mixture of the oil and gas; the stirring being at a speed to pro-



duce bubbles of substantially the size obtainable by introducing the gas with a Witt-type stirrer of 1½ inches diameter rotated at a speed of 2000 to 4000 R. P. M.

1,663,525. COMBINED FOLDING BOX AND PASTE BOARD. JOHN W. ROUNDS, Boscobel, Wis., assignor of one-half to J. W. Anderson, Boscobel, Wis. Filed July 19, 1927. Serial No. 206,928. 1 Claim. (Cl. 304—38.)

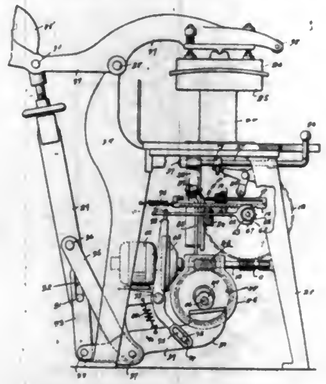


A combined folding box and paste board, comprising a box member including a bottom strip and a side rigidly attached to the bottom strip at the outer edge of the bottom strip and serving to reinforce such edge and render it rigid against vertical flexing, a cover for the box member, a side strip attached to the cover at the inner edge thereof, a second side strip attached to the bottom strip of the box member adjacent to the inner edge of the same, hinges connecting the first and second named side strips so that they are superposed when the cover is in the closed position, said side being of substantially the same width as the combined width of the superposed side strips and extending throughout the entire interior depth of the box member whereby it has the maximum rigidity for the given interior receiving capacity of the box member, said side strips having transverse notches arranged near their ends and extending through their free faces, said notches being adapted to receive horizontal top bars of trestles, said side extending downwardly below the side strips when the device is used as a paste board and serving as guide means for the horizontal bars of the trestles.

1,663,526. PRESS TIMER. HART A. STODDARD, Saugatuck, Conn., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed May 17, 1924. Serial No. 714,130. 15 Claims. (Cl. 68—9.)

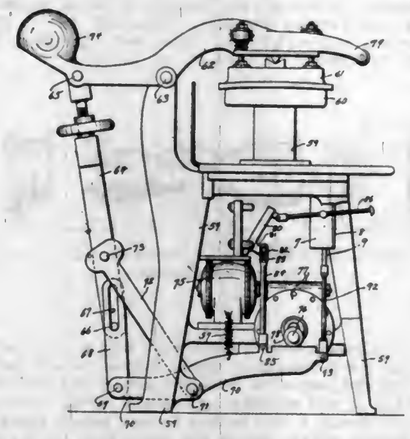
1. A pressing machine comprising in combination, cooperating pressing members between which the work is treated, means for closing the press, motor means to

produce high compression between the pressing members, mechanism causing the press to remain at rest under pressure while permitting the motor to continue in operation, a press opening means, a connection established between the mechanism and the press opening means whereby the press opening means is set in operation when the press goes under high compression, a graduated



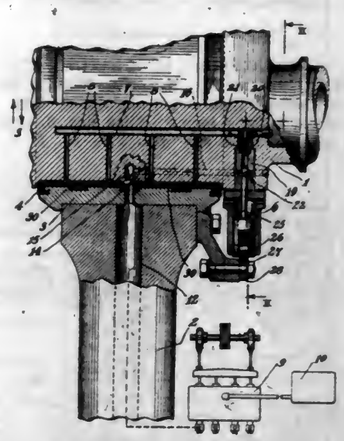
member driven by the motor means after the press closes, adjustable means on the graduated member to actuate the press opening means, whereby the press is caused to automatically open at any selected predetermined time, and means cooperating with the graduated member for initiating the operation of the press opening means.

1,663,527. PRESS TIMER. HART A. STODDARD, Saugatuck, Conn., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Feb. 6, 1925. Serial No. 7,255. 10 Claims. (Cl. 68—9.)



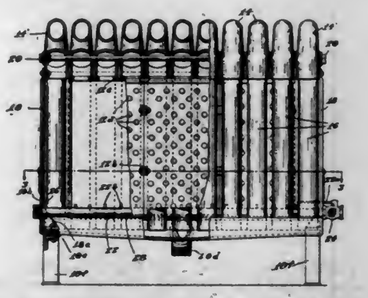
1. A pressing machine comprising in combination, cooperating pressing jaws, means for closing the jaws, motor means cooperating with the closing means to produce jaw compression, starting means to initiate the motor means, means to actuate the starting means to stop the motor leaving the press under compression, timer means to automatically start the motor means at the end of a predetermined pressing period to release the compression, and means to again stop the motor means at the end of the releasing operation.

1,663,528. BEARING. ADOLF TACCHELLA, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo., a Corporation of Missouri. Filed May 2, 1921. Serial No. 465,975. 9 Claims. (Cl. 184—27.)



1. Lubricating means for a bearing comprising a source of lubricant, a lubricant pump mounted on a moving member of said bearing and therewith moving with respect to said lubricant source, means providing a lubricant passageway continuously connecting said source to the pump, said means including a moving joint to accommodate the movement of the pump with respect to the source, and means for operating the pump to deliver lubricant to the bearing.

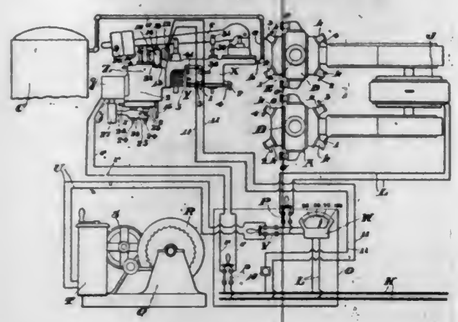
1,663,529. RADIATOR. GEORGE S. BARROWS, Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of Delaware. Filed June 7, 1926. Serial No. 114,160. 5 Claims. (Cl. 126—91.)



1. A local combustion cast metal radiator comprising a base having a pair of parallel horizontal heat-radiating discharge manifolds, each extending integrally from end to end of the radiator with a row of top openings, a burner extending horizontally between the manifolds and shielded thereby; plates rising from said base, from the sides of said manifolds which are adjacent to each other, extending substantially the length of the base, each with inward exposure, forming a unitary intake and combustion chamber above the burner and each with outward exposure to room atmosphere constituting a heat-radiating shielded surface; tubular headers crossing above said chamber with underneath mid-openings arranged to receive products from the combustion chamber, and with underneath side-openings to discharge same downward

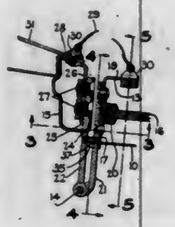
above the manifolds; and pipes extending between the said underneath side-openings of the headers and the top openings of the manifolds, comprising passages for said products and shields for said exposed plates; there being means for discharge from the base manifolds.

1,663,530. COMPRESSOR REGULATOR AND UNLOADER. CHESTER W. METTLER, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 3, 1925. Serial No. 66,492. 6 Claims. (Cl. 230—4.)



1. In an inter-control system, the combination of two power driven devices and pneumatic means for decreasing the power consumption of one of said devices in anticipation of and only during the acceleration period of the other said device.

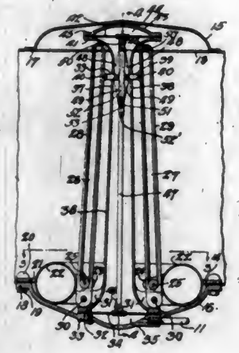
1,663,531. DOOR MOUNTING. EDWARD J. DEISLEY, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1924. Serial No. 755,148. 12 Claims. (Cl. 296—44.)



1. A pressed metal door mounting comprising a post having a mounting face provided with an inward offset, a door having a metal mounting rail of simple web section having a plane inner face and a glass run mounted directly on the plane face of said web section, and a hinge interconnecting the post and said mounting rail having one wing secured to the post at said offset and the other wing secured to the exterior face of the web of said mounting rail and entering said offset when the door is closed.

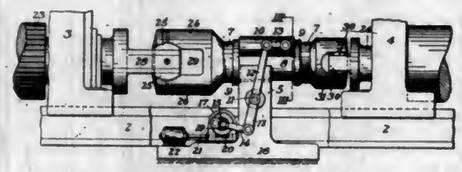
1,663,532. OPERATING MEANS FOR LIQUID-HEIGHT INDICATORS. THOMAS M. EYNON, Philadelphia, Pa. Filed Mar. 19, 1921. Serial No. 453,839. 18 Claims. (Cl. 73—82.)

1. In an indicating device for gasoline tanks, a tank, a fluid operated indicator, a diaphragm within the tank, a casing at one side of the diaphragm closing a space adjacent thereto, thus shut off from the remainder of the tank, means for connecting the space with the indicator, a float, slotted arms with which the float engages and connections between the arms and diaphragm including a toggle whereby lifting of the float causes movement of the diaphragm to contract the space and lowering of the float causes movement of the diaphragm to expand the space.



9. In an indicating device for gasoline tanks, a tank, a vertically movable float therein, a plurality of swinging arms each pivoted at one end and engaged by the float to swing toward or away from the float centre with vertical movement of the float, a diaphragm, a fluid indicator, and means controlled by the vertical movement of the float and swinging movement of the said arms to operate the diaphragm with the movement of the float and arms and indicator-actuating means controlled by the movement of the diaphragm.

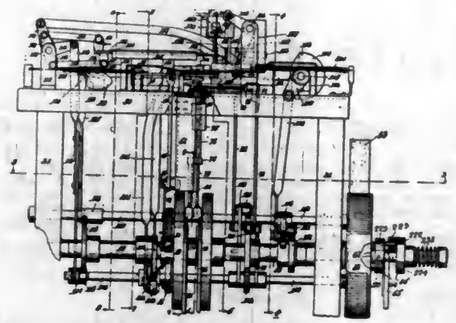
1,663,533. ROLLING-MILL DRIVING SPINDLE. LANE JOHNSON, Pittsburgh, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1924. Serial No. 737,277. 7 Claims. (Cl. 64—91.)



1. In a rolling mill, in combination with a pinion member and a roll member, a spindle coupled to said pinion and roll and adapted to be shifted axially to uncouple it from one of said members, said spindle having a bearing surface thereon, a fixed bearing for said spindle engaging the bearing surface and of less width than the bearing surface, and means for shifting said spindle axially in said bearing, substantially as described.

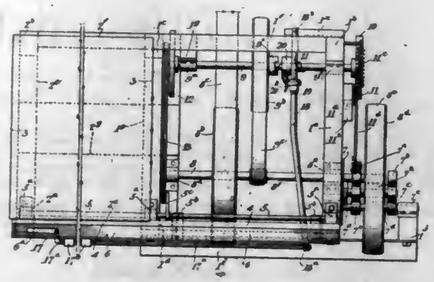
1,663,534. FRINGE-TASSELING MACHINE. ROBERT E. WALLISER, Chicago, Ill. Filed Feb. 9, 1926. Serial No. 87,038. 57 Claims. (Cl. 28—2.)

1. A machine of the class described including an open collar for sustaining a heading loop in spread condition with a portion thereof exposed; co-operating mechanical means for automatically passing tassel material through said spread loop; means comprising co-operating fingers arranged to operate upon the tassel material for folding



it over upon the exposed portion of said loop; and instrumentality for securing together the folded over portions of the tassel material, substantially as described.

1,663,535. AUTOMATIC CORE CUTTER AND LAYING-UP MACHINE. HAROLD L. BRANDAU, Muscatine, Iowa, assignor to Huttig Manufacturing Co., Muscatine, Iowa, a Corporation of Iowa. Filed Aug. 29, 1927. Serial No. 216,089. 29 Claims. (Cl. 144—2.)



1. In a core block laying-up machine; a core board; a trough movably mounted adjacent the core board; means for feeding aligned core blocks into the trough; and means for automatically moving the trough when filled to deposit the row of blocks upon the core board.

Patents Nos. 1,663,536 to 1,664,390.

THE OFFICIAL GAZETTE

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Patents	855—No. 1,663,536 to No.	1,664,390, inclusive.
Total	1,776	

Interference Notice.

U. S. PATENT OFFICE, *Washington, D. C., Mar. 16, 1928.*

Richard Raines, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application for patent of Thomas A. Bowers, 25 Seaview Apartments, Sheepshead Bay, Brooklyn, N. Y., and patent granted December 21, 1926, No. 1,611,677, to Richard Raines, 441 East 182d Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Raines at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Raines, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

AMENDMENT TO RULES OF PRACTICE.

(Order No. 2,984.)

Effective January 1, 1927, Rule 73 is amended by inserting after paragraph 1 a paragraph to read as follows:

"The original numbering of the claims must be preserved throughout the prosecution. When the application is ready for allowance the Examiner will renumber the claims consecutively in such order as requested by the applicant or as indicated when the claims were first presented. Where claims are added by amendment or substituted for canceled claims they must be numbered by the applicant consecutively, beginning with the number next following the highest numbered claim previously in the case. Provided, however, that where a substitute claim either rewritten to include amendments already made, or to take the place of another claim, is presented and the applicant desires it to finally appear in the relative position occupied by the canceled claim, the substitute claim will be given the number it would have if it were an added claim, and the number will be followed by a directing clause as, for example: Claim 16 (to take the place of claim 3), or claim 24 (to follow claim 2). When, by subsequent amendment, still another claim is substituted for a substitute claim already presented, such last presented claim should be given the number following the highest numbered claim previously in the case and this should be followed by such a directing clause as will indicate the desired final position of the claim with respect to the other claims."

November 1, 1926.

THOMAS E. ROBERTSON,
Commissioner.

This amended rule will apply to all amendments filed after January 1, 1927, whether the applications were filed before or after that date.

Applicants and attorneys are requested to assist in carrying out the simplified system contemplated by the rule with the least possible confusion by carefully observing its provisions in amending their cases.

Condition of Applications Under Examination at Close of Business March 16, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 95,400; Trade-Mark Division, 2,160. Oldest new case, June 8, 1927; oldest amended, June 18, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 18	Aug. 8	1,435
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Sept. 21	Sept. 29	1,285
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 3	Oct. 1	1,911
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	June 30	July 1	2,128
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	July 18	July 2	1,489
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	July 23	Sept. 17	2,337
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	July 15	July 19	2,224
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Aug. 23	Sept. 14	1,891
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 3	Nov. 3	1,472
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 11	Oct. 28	1,731
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 3	Sept. 27	1,398
380	12. PIERCE, P. P., Machine Elements	July 1	July 2	1,837
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 22	July 29	1,870
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 5	July 5	1,608
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Aug. 25	Sept. 14	1,952
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Sept. 22	Oct. 11	1,314
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Sept. 3	Sept. 27	1,126
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 4	Aug. 12	1,332
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Oct. 14	Sept. 29	1,363
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Oct. 20	Nov. 2	1,382
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 12	Sept. 9	1,282
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 17	Sept. 6	1,004
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	June 22	June 24	1,401
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 22	July 7	1,521
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 26	Sept. 27	1,901
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 13	July 14	1,237
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 16	Oct. 20	1,311
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 20	Aug. 20	1,904
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 8	July 7	1,698
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	July 29	Nov. 1	1,617
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Aug. 16	Aug. 13	2,408
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 18	Aug. 15	1,806
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Nov. 15	Nov. 8	1,891
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 24	June 18	1,392
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 14	Nov. 7	1,467
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Oct. 24	Oct. 19	1,557
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Aug. 17	Aug. 29	1,946
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Sept. 3	Sept. 7	1,631
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 8	June 29	1,479
209	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Aug. 6	Aug. 24	2,298
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Oct. 1	Oct. 8	963
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	July 21	July 14	1,906
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Sept. 2	Sept. 30	1,992
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	July 12	July 21	1,851
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 10	Oct. 18	1,309
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 27	Aug. 16	1,673
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Aug. 6	Aug. 16	2,485
213*	48. ROEPKE, O. B., Electricity, General Applications	Sept. 15	Sept. 16	1,389
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 15	Sept. 13	1,360
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Aug. 22	Aug. 23	2,313
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Aug. 23	Aug. 23	1,962
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Sept. 20	Sept. 30	2,143
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Aug. 12	Aug. 22	1,571
241*	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space-Discharge Tubes	Aug. 19	Aug. 22	2,083
102	55. RICHARD, V. I. {Bread, Pastry, and Confection Making; Cutlery / Designs	July 25 / †Feb. 8	July 30 / †Feb. 16	869 / 930
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	June 18	July 13	2,315
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks / Labels and Prints	†Feb. 17 / †Feb. 11	†Mar. 5 / †Mar. 4	1,595 / 265

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

EX PARTE ROSS.

Decided October 26, 1928.

1. PATENTABILITY—INVENTION—PROCESS OF MANUFACTURING PAINTS.

A process of manufacturing paints for use in the arts by so selecting colors that mixing equal quantities of any two will give a specified other color *Held* noninventive, being a mere carrying forward of the ideas disclosed in the prior art.

2. SAME—COMMERCIAL USE—RELEVANT ONLY WHERE QUESTION OF INVENTION IS DOUBTFUL.

The alleged improvement of the invention from the view of economy and its favorable reception and wide adoption by the trade would be persuasive, if any reasonable doubt existed, but "after a review of the art here cited, there seems to be nothing new in the process."

[Affirmed by Court of Appeals of District of Columbia. See 368 O. G. 710.]

APPEAL from Examiners in Chief.

Application for patent for color substances and process of producing same.

Mr. Edward R. Alexander and *Mr. Ray S. Gehr* for the applicant.

KINNAN, *Acting Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claims 1 to 12, inclusive, and also from the decision of the Examiners in Chief denying patentability to claims 13 to 20, inclusive, which were submitted for their consideration.

In view of the state of the art it is not believed there is room for anything like 20 claims in this case. A smaller number could be drawn which would readily cover all that appellant contends is new and patentable.

The appellant has now submitted five claims which he requests be substituted for the claims reviewed by the Examiners in Chief. While it is thought that, ordinarily, an applicant should present the claims in the final form in which he desires them to the Primary Examiner in order that he may pass upon them and the appellate tribunals may have the benefit of his expert judgment, yet, in the instant case, it is believed these five proposed claims should be admitted and considered. The appeal, in consequence, as to the 20 claims is deemed withdrawn.

Claim 1 is fairly representative of the group of five proposed claims and is as follows:

1. The process of manufacturing paints for use in the arts which consists in dividing the colors in use into two groups, one of which comprises the comparatively pure colors so used, while the other comprises the colors so used having lower chrome values, separately mixing the pigments comprising the several colors of the smaller group with liquid vehicle producing paints ready for use, packaging equal measures of the several liquid paints thus manufactured and thereafter mixing the contents of pairs of said packages to produce predetermined members of said larger group.

The references relied upon are: Jennings's "Paint and Color Mixing," fifth edition, 1915, Plate IX, pages 236, 237, publication of Anti-Kalsomine Company, Grand Rapids, Mich. (a copy of this publication is to be found in the Patent Office Library); Leggett, 173,408, February 15, 1876; Jorgensen, 709,328, September 16, 1902.

The claims are directed to a process of stocking and dispensing oil paints so that it becomes necessary for the dealer to carry in stock only a limited number of colors. These stock colors are accompanied by a limited number of ready-mixed paints of primary colors. These stock or primary colors may be used as paint without change. There is, however, a chart furnished with these colors which shows a large number of different secondary colors which may be obtained by mixing equal quantities of two of the stock colors, to the end that the examiner can select from the chart the tint desired and if it is not a stock color it can be obtained by mixing two of the stock colors. Obviously, if still other shades than those found on the chart were desired, the ratio of the final mixture could be altered so that the ratio could be other than equal—might well be two to one, or four to one, and so on indefinitely. Appellant, however, is restricting his process to the production of such colors as may be obtained from mixing equal quantities from two of the primary or stock colors.

There is no allegation that the paints have any novel ingredients, are made in any novel way, or differ from ready-mixed paints of the prior art. Cans of paint mixed ready for use, of many colors, accompanied by a suitable chart on which appear the colors kept in stock, have been on sale and in use many years preceding the filing of appellant's application. It is a matter of common knowledge among painters as well as many users that two cans of such ready-mixed paint may be mixed together in equal proportions, and a third color differing from either of the original colors obtained. Having made such a mixture once, as any painter would well understand he could do, and obtained a certain color, clearly enough he could produce that color again.

[1] The general idea involved in appellant's process is found in the Jennings publication. In such is disclosed the plan of dividing the colors into two groups, one the primary, composed of blue, yellow, red, and white, and the secondary group being composed of 37 other colors or shades obtainable by combining the primary colors as directed on the accompanying chart. At least three of these secondary colors are obtained by mixing *equal* quantities of two primary colors. To so select all the primary colors that each of the secondary colors is made by combining equal quantities of two of the primary colors is a mere carrying forward of the main idea, a mere refinement of the disclosure of Jennings. It can not be seen that such carrying forward of this old idea involves invention. With the calcimine

which Jennings discloses each primary color may be used alone just as with appellant's primary paint colors. Jennings uses a powder, it is true, and mixes it with the liquid—water—when he wishes to use it, as this is the way in which calcimine is used in practice. Appellant, in using a paint, mixes it with the liquid vehicle, oil, at the factory, but these matters are well understood in connection with the different materials. It does not seem there is merit in appellant's claims over the disclosure of Jennings.

Appellant's process is also anticipated by either Leggett or Jorgensen. These patents show the use of oil paints which will readily mix. While Leggett does not use equal proportions, there would be no invention in so selecting the amounts of the primary colors to produce the secondary colors, in view of the suggestion of Jennings. Jorgensen must necessarily use equal portions of the primary group to produce the secondary group. The contentions of appellant that equal quantities of his liquid paints would readily mix, as necessary, finds full confirmation and anticipation in the above references.

[2] Appellant has set forth the importance, from the view of commercial economy, of the method claimed, and its favorable reception and wide adoption by the trade. These facts would be persuasive if any reasonable doubt existed as to the want of novelty in the process; but after a review of the art here cited there seems to be nothing new in the process. It must be presumed appellant's commercial success is mainly due to its large resources, initiative in introducing its process, and the wide existing trade it had already established among retailers of paint.

The appeal as to claims 1 to 20 is dismissed. It is held substitute claims 1 to 5, which have been admitted, are unpatentable.

Court of Appeals of the District of Columbia.

IN RE ROSS.

No. 1,936. Decided December 6, 1927.

PATENTABILITY—INVENTION—METHOD OF MANUFACTURING PAINTS.

A method of manufacturing paints, the conception of which "involves no more than the preparation of a group of primary colors, each of which, when combined with another in equal parts, produces a secondary color," *Held* lacking in invention over the prior art.

[For Commissioner's decision see 368 O. G. 709.]

APPEAL from Patent Office. Affirmed.

Mr. E. R. Alexander and *Mr. Livingston Gifford* for Ross.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.*:

Appeal from a decision of the Commissioner of Patents refusing five claims in appellant's application for patent. We reproduce claim 1 as illustrative of the group:

1. The process of manufacturing paints for use in the arts which consists in dividing the colors in use into two groups, one of which comprises the comparatively pure colors so used while the other comprises the colors so used having lower chrome values, the several colors of the smaller group with liquid vehicle producing paints ready for use, packaging equal measures of the several liquid paints thus manufactured and thereafter mixing the contents of pairs of said packages to produce predetermined members of said larger group.

Stated in simple terms, appellant's conception involves no more than the preparation of a group of primary colors, each of which, when combined with another in equal parts, produces a secondary color. The Examiner was of the view that the idea was not novel and referred to Jenning's "Paint and Color Mixing," fifth edition, 1915, Plate IX, pages 236, 237. At page 236 is the following:

A practical house painter will readily see another advantage, which is that instead of stocking forty different colours he only has to stock four, including the white, as from these he can so readily obtain all the others.

The Examiner also expressed the view that the omission from appellant's secondary chart of all shades or colors which will not be produced by mixing equal quantities of the two stock colors is a mere matter of experimentation.

The Examiners in Chief and the Commissioner in turn considered and rejected appellant's contentions. Being convinced of the correctness of their reasoning and conclusions, we affirm the decision.

Affirmed.

Court of Appeals of the District of Columbia.

SEXTON MANUFACTURING CO. & SCHNEIDER *v.* CHESTERFIELD SHIRT COMPANY.

No. 2,025. Decided February 6, 1928.

1. TRADE-MARKS—MARK CAN NOT BE TRANSFERRED IN GROSS.

The attempted sale of a mark for which a registration had been obtained, but of which the registrant had made no trade-mark use, unaccompanied by the transfer of any business, confers no rights upon the vendee.

2. SAME—PRIORITY.

Evidence *Held* to establish, as between the parties to the interference, that the C. Co. was the first to adopt and use the mark.

APPEAL from Patent Office. Affirmed.

Mr. S. George Tate and *Mr. T. K. Creighton* for Sexton Manufacturing Co.

Mr. Henry G. Hunt for Chesterfield Shirt Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.*:

Appeal from concurrent decisions of the Patent Office tribunals in a trade-mark interference proceeding refusing registration to the Sexton Manufacturing Company of the word "Chesterfield," on the ground of prior adoption and use by the appellee of the same mark on the same class of goods.

Upon the declaration of the interference between the Sexton Company and the Chesterfield Company, the Patent Office discovered that the same word had been registered to Schneider, the filing date of whose application was prior to the earliest date claimed by either the Sexton or the Chesterfield companies. On the record, therefore, neither of these companies was entitled to registration. Thereupon, both companies filed evidence tending to establish abandonment by Schneider of the mark. It is in evidence that Schneider attempted to sell his mark to the Chesterfield Company for $1,000, and that, his offer being refused, he sold it to the Sexton Company.

[1] Patent Office tribunals after a review of the evidence have found that Schneider had made no trade-mark use of the word "Chesterfield"; and that the attempted sale of the mark, unaccompanied by any business, conferred no rights upon the Sexton Company. We concur in this ruling. *Rice-Stix Dry Goods Co.* v. *The Schwarzenbach-Huber Co.*, 247 O. G. 966, 47 App. D. C. 249.

[2] It clearly appears, as found by the Patent Office, that, as between the Chesterfield Company and the Sexton Company, the Chesterfield Company was the first to adopt and use this mark.

The decision is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

391,895, F. E. Young, Steel barrel, D. C., S. D. Calif. (Los Angeles), 1 Doc. H–68–M, *Meurer Steel Barrel Co., Inc.* v. *Boyle Mfg. Co.* Patent held valid and infringed Jan. 3, 1926.

962,678, Sulman, Greenway & Higgins, Ore concentration, D. C. Me., S. Div., Doc. E 800, *Minerals Separation North American Corp.* v. *Magma Copper Co.* Patent held valid and infringed Feb. 3, 1928.

986,452, H. C. Gibson, Vehicle wheel, filed Feb. 2, 1928, D. C., E. D. Mich., S. Div., Doc. 2446, *The Parker Wheel Co.* v. *Motor Wheel Corp.*

1,011,484, Perkins & Double, Method of excluding water from oil wells, D. C., S. D. Calif. (Los Angeles), Doc. G–114–T, *Perkins Oil Well Cementing Co.* v. *J. M. Owen et al.* Patent held valid and infringed, particularly as to claim 2, Jan. 23, 1928.

1,018,502, Just & Hanaman, Incandescent body for electric lamps, filed Feb. 10, 1928, D. C., W. D. N. Y., Doc. 1243–G, *General Electric Co.* v. *Mersereau's Industries, Inc., et al.*

1,090,776, H. H. Boyce, Indicating system and apparatus for internal-combustion engines, D. C. Ind. (Indianapolis), Doc. 992, *H. H. Boyce, et al.* v. *A. Postlewait et al.* Held valid and infringed Jan. 27, 1928.

1,120,824, S. D. Le Claire, Scraper, C. C. A., 7th Cir., Doc. 3682, *L. P. Green* v. *S. D. Le Clair.* Reversed with directions to dismiss Jan. 10, 1928.

1,142,861, G. Ornstein, Process of antisepticising water, filed Jan. 17, 1928, D. C., N. D. Ill., E. Div., Doc. 7762, *Electro Bleaching Gas Co. et al.* v. *The Y. M. C. A. of Chicago.*

1,176,322, Schumacher & Schumacher, Process of making plaster board, D. C., S. D. Calif. (Los Angeles), Doc. E M–7–J, *Schumacher Wall Board Corp.* v. *Plasteld Products, Inc.* Dismissed without prejudice Jan. 3, 1928.

1,198,246, G. A. Lyon, Buffer for motor vehicles, C. C. A., 2d Cir., Doc. 9729, *F. W. Hilbish* v. *The Bethlehem Bumper Co., Inc.* Affirmed (notice dated Feb. 7, 1928).

1,258,423, F. Lowenstein, Variable electric apparatus, filed Feb. 9, 1926, D. C., S. D. N. Y., Doc. E 44/208, *Scovill Mfg. Co.* v. *Radio Corp. of America.*

1,269,479, A. Martin, Loose-leaf binder, filed Jan. 17, 1928, D. C., N. D. Ill., E. D. Doc. 7760, *A. Martin et al.* v. *H. C. Miller Co.*

1,276,920, F. F. Hopkins, Refuse burner, filed Jan. 30, 1928, D. C. Wash., N. Div., Doc. 612, *F. F. Hopkins* v. *Springer Mill Co. et al.*

1,299,842, H. A. Landwehr, Method of forming reenforced-concrete posts, filed Jan. 26, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–31–J, *The Marbelite Corp. of America* v. *The La Lux Mfg. Co.*

1,369,751, A. B. Leech, Apparatus for producing illuminated motion effects, D. C. Ind. (Indianapolis), Doc. 998, *Scene-In-Action Corp.* v. *The Gritt Co.* Patent held valid and infringed Feb. 1, 1928.

1,374,954, A. C. Bridge, Spring-lock washer, filed Feb. 1, 1928, D. C., W. D. N. Y., Doc. 1237–G, *Union Simplex Train Control Co., Inc.*, v. *General Railway Signal Co.*

1,421,022, N. Mollet, Advertising sign, D. C., S. D. Ohio, W. Div., Doc. 482, *The Massillon-Cleveland-Akron Sign Co.* v. *The Progress Sign Co.* Dismissed Feb. 10, 1928.

1,435,199, L. Blair, Heat-insulated receptacle, filed Jan. 3, 1928, D. C., N. D. Ill., E. Div., Doc. 7730, *The Monarch Co., Inc., et al.* v. *The Mantle Lamp Co. of America.*

1,438,560, E. F. Slattery, Repair link for tire chains, appeal filed Jan. 23, 1928, C. C. A., 7th Cir., Doc. 4002, *E. F. Slattery et al.* v. *Johnson Motor Products Co.*

1,469,344, W. Ware, Roller, filed Feb. 4, 1928, D. C., N. D. Ohio, E. Div., Doc. 2513, *W. Ware et al.* v. *The W. Bingham Co.*

1,487,189, L. J. Wahl, Clipper, filed Oct. 26, 1927, D. C., N. D. Ill., E. Div., Doc. 7595, *L. J. Wahl* v. *N. E. Norstrom et al.*

1,522,940, J. L. Breeze, Lumber-trim saw, filed Feb. 6, 1928, D. C. Wash., N. Div., Doc. 611, *Prescott Iron Works* v. *Sumner Iron Works et al.*

1,530,924, P. Biedermann, Slush-pump valve, D. C., S. D. Calif. (Los Angeles), Doc. M–58–M, *P. Biedermann et al.* (*Advance Engineering Co.*) v. *Republic Supply Co. et al.* Decree of noninfringement and dismissal Dec. 19, 1927.

1,551,515, W. K. Howe, Automatic train-control system, appeal filed Feb. 3, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8087, *General Railway Signal Co.* v. *Great Northern Railway Co.*

1,558,436, I. Langmuir, Electrical discharge apparatus and process of preparing and using same, D. C. Del. (Wilmington), Doc. E 589, *General Electric Co.* v. *The De Forest Radio Co.* Bill dismissed for want of equity Jan. 16, 1928.

1,566,066, H. M. Becher, Process for dyeing fur and product thereof, filed Feb. 2, 1928, D. C., S. D. N. Y., Doc. E 44/187, *P. Becher et al.* v. *J. Schwartz.* Doc. E 44/188, *P. Becher et al.* v. *Brickner & Bernfeld, Inc., et al.* Doc. E 44/189, *P. Becher et al.* v. *M. Jawitz et al.* Doc. E 44/190, *P. Becher et al.* v. *Stein Fur Dyeing Co., Inc., et al.* Doc. E 44/194, *P. Becher et al.* v. *J. Montag et al.* (*Montag & Etteimun*). Same, filed Feb. 6, 1928, D. C., S. D. N. Y., Doc. E 44/198, *P. Becher et al.* v. *M. Jawitz et al.*

1,569,280, W. S. Holdaway, Disk bit, filed Feb. 2, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–37–J, *H. H. Holdaway et al.* v. *Rotary Disc Bit Co.*

1,580,287, Colle & Colle, Glass substitute, filed Feb. 8, 1928, D. C. Nebr. (Lincoln), Doc. E 275, *Acetol Products, Inc., et al.*, v. *H. & W. Lumber & Supply Co., Inc.*

1,584,230, J. C. Knight, Perforating machine, C. C. A., 1st Cir., Doc. 2174, *J. C. Knight* v. *Rite Shoe Co., Inc., et al.* Decree of district court vacated and case remanded (notice dated Feb. 2, 1928).

1,587,387, H. Lichtman, Furniture cover, D. C., S. D. N. Y., Doc. E 38/192, *Powers, Friend & Lichtman* v. *Grayona Needlecraft Corp.* Consent order of discontinuance Feb. 6, 1928. Doc. E 39/126, *Powers, Friend & Lichtman* v. *M. Kaufman et al.* (*Adeline Art Needle Works*). Decree as above.

1,611,466, Lewis & Murray, Steaming tube for hair waving, D. C., N. D. Ohio, E. Div., Doc. 2354, *The Le Mar Co.* v. *K. Masterson.* Patent held valid and infringed (notice dated Feb. 9, 1928).

1,612,788, J. Walten, Tire flap, appeals filed Feb. 1, 1928, C. C. A., 7th Cir., Doc. 4005, *C. O. Tingley & Co.* v. *Badger Rubber Works.*

1,639,310, H. F. Richardson, Electrical connecting unit, D. C., S. D. N. Y., Doc. E 44/205, *Auth Electrical Specialty Co., Inc.,* v. *Stanley & Patterson, Inc.*

Des. 59,923, H. A. Philips, Lace, C. C. A., 2d Cir., Doc. 9756, *The American Fabrics Co.* v. *Richmond Lace Works et al.* Affirmed (notice dated Feb. 7, 1928).

Des. 62,522, C. W. Howard, Textile fabric, C. C. A., 2d Cir., Doc. 9744, *Consolidated Textile Corp.* v. *Cohn-Hall-Marx Co.* Decree affirmed (notice dated Feb. 7, 1928).

Des. 72,395, C. A. Wetzell, Toy, filed Feb. 7, 1928, D. C., S. D. N. Y., Doc. E 44/202, *C. A. Wetzell et al.* v. *W. Bimblick.*

Des. 72,596, R. G. Cowan, Flower holder, filed Feb. 8, 1928, D. C., N. D. Ohio, E. Div., Doc. 2515, *Cowan Pottery Studio, Inc.,* v. *The Lindner Co.*

Des. 73,421, L. Zweig, Table torchère, D. C., S. D. N. Y., Doc. E 44/51, *Sun Rise Lamp Mfg. Co., Inc.,* v. *La Belle Specialty Co., Inc.* Patent held valid and infringed Feb. 8, 1928.

T. M. 126,640, Bemis Bro. Bag. Co., Mailing receptacle, filed Jan. 16, 1928, D. C., N. D. Ill., E. Div., Doc. 7759, *Bemis Bro. Bag Co.* v. *Duplex Envelope Corp.*

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,028,133, H. C. Peters, Calculating machine, decided December 23, 1927, claims 7, 22, 163, 164, 165, 167, and 168.

Pat. 1,181,620, W. E. Swaim, Adding machine, decided December 23, 1927, claims 1, 2, 3, 5, 6, 17, 19, 20, and 46.

Pat. 1,527,396, A. R. Ridderstrom, Folding machine and method, decided February 14, 1928, claims 16, 19, and 42.

Pat. 1,537,601, M. S. Groh, Electric household refrigerator, decided March 9, 1928, claim 1.

Pat. 1,584,025, B. G. Fredrick, Right fender side light, decided February 3, 1928, claim 2.

Pat. 1,600,674, I. M. Kass, Means for cementitious molding, decided February 18, 1928, claims 1 to 7, inclusive.

Final decision in interference has been rendered against the following trade-mark:

T. M. 197,433, Automobile finishes—namely, lacquer enamel, red-oxide-metal primer, putty glaze, enamel thinner, standing surfacer, and cleaner thinner—O'Brien Varnish Company, South Bend, Ind. Registered April 14, 1925. Decided February 14, 1928.

Trade-Marks Canceled.

78,591. Monthly magazines. The Current Literature Publishing Company, New York, N. Y. Registered June 28, 1910. Canceled March 7, 1928.

130,415. Overalls. The Standard Tent & Awning Co., Toledo, Ohio. Registered April 20, 1920. Canceled March 7, 1928.

156,922. Certain articles of clothing. J. Schoeneman, Incorporated, Baltimore, Md. Registered July 18, 1922. Canceled March 7, 1928.

163,699. Varnish. The Stockton Paint Company, Stockton, Calif. Registered January 23, 1923. Canceled March 7, 1928.

165,716. Analgesic balm. The Standard Medical Society, Inc., Baltimore, Md. Registered March 20, 1923. Canceled March 7, 1928.

169,109. Perfumes. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Registered June 5, 1923. Canceled March 7, 1928.

204,335. Paints of every description. O'Neil Oil & Paint Company, Milwaukee, Wis. Registered October 13, 1925. Canceled March 7, 1928.

217,605. Canned fish. Southern California Fish Corporation, East San Pedro, Calif. Registered September 7, 1926. Canceled March 7, 1928.

225,764. Certain named cleaning compound and solvent. B. T. Babbitt Inc., New York, N. Y. Registered March 22, 1927. Canceled February 14, 1928.

228,166. Boiler compound. B. T. Babbitt Inc., New York, N. Y. Registered May 24, 1927. Canceled February 14, 1928.

228,509. Refractory fire-brick material in plastic form. Wellsville Fire Brick Company, Wellsville, Mo. Registered June 7, 1927. Canceled March 7, 1928.

230,572. Casters. The Colson Stores Company, Elyria, Ohio. Registered July 26, 1927. Canceled February 14, 1928.

233,024. Medicines, chemical products, pharmaceutical drugs and preparations made from animal organs or bodies. Ernst Silten, Berlin, Germany. Registered September 20, 1927. Canceled February 14, 1928.

233,448. Cookies. Robert H. Gibson, doing business as Perfection Cooky Co., Kansas City, Mo. Registered September 27, 1927. Canceled March 7, 1928.

233,798. Tooth paste. Sharp & Dohme, Baltimore, Md. Registered October 11, 1927. Canceled March 7, 1928.

234,128. Women's shoes and hosiery. Berland Shoe Stores Inc., St. Louis, Mo. Registered October 18, 1927. Canceled March 7, 1928.

234,991. Sheer woolen crepe in the piece. Fauvarque Corday, Inc., New York, N. Y. Registered November 8, 1927. Canceled March 7, 1928.

236,647. Glove silk in the piece. R. H. Macy & Co., Inc., New York, N. Y. Registered December 20, 1927. Canceled March 7, 1928.

237,005. Hair Pomades. Abe Ney, doing business as Primp Chemical Company, Atlanta, Ga. Registered January 3, 1928. Canceled March 7, 1928.

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Mar. 13, 1928.*

John E. Whitmore, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Bourjois, Inc., of No. 35 West 34th Street, New York, N. Y., to effect the cancellation of the trade-mark registration of John E. Whitmore, of 355 East Utica Street, Buffalo, N. Y., No. 98,027, dated June 30, 1914, and the notice of such proceeding sent by registered mail to the said John E. Whitmore at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said John E. Whitmore, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 27, 1928.

[VOL. 368. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 257,526. CELITE PRODUCTS COMPANY, Los Angeles, Calif. Filed Nov. 14, 1927.

SNOW FLOSS

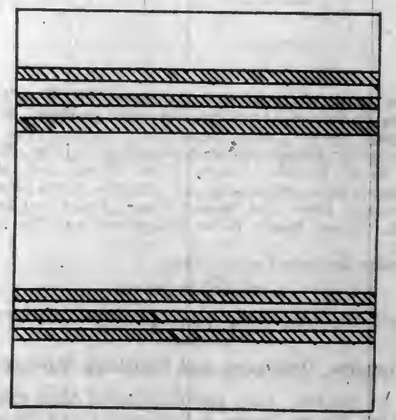
Particular description of goods.—Hydrated Amorphous Silica in Powdered Form.
Claims use since about Feb. 26, 1927.

Ser. No. 257,819. THE SMITH FACING & SUPPLY CO., Cleveland, Ohio. Filed Nov. 19, 1927.

RADIANT FACINGS SINCE 1879

No registration rights are claimed for the word "Facings" apart from the mark as shown in the drawing.
Particular description of goods.—Core Washes, Plumbagos, Core Compounds, Parting Compound, Foundry Molding Coal.
Claims use since 1879.

Ser. No. 259,456. THE NEBRASKA SEED CO., Omaha, Nebr. Filed Dec. 29, 1927.



The drawing is lined to indicate green. The mark consists of three green stripes, one-half inch wide, horizontally displayed on the upper and lower portions of the sack eight inches from the top and bottom and running entirely around the sack. No claim is made to the representation of the sack.
Particular description of goods.—Blue and Sudan Grass Seeds.
Claims use since August, 1923.

Ser. No. 260,211. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 17, 1928.

LONARIT

Particular description of goods.—Sheets and Foils Made of or Containing Cellulose Derivatives.
Claims use since about Jan. 12, 1928.

Ser. No. 260,213. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 17, 1928.

CELOFOIL

Particular description of goods.—Sheets and Foils Made of or Containing Cellulose Derivatives.
Claims use since about Jan. 12, 1928.

CLASS 2.

Receptacles.

Ser. No. 243,493. B. HELLER & COMPANY, Chicago, Ill. Filed Jan. 28, 1927.



The word "Chicago" and the phrase "U. S. A." are hereby disclaimed apart from the mark as shown in the drawing.

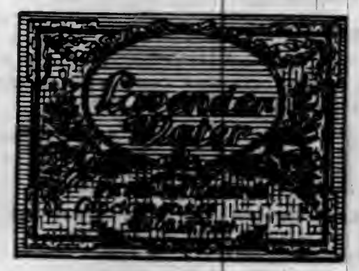
Particular description of goods.—Empty Fiber, Wood, and Metal Barrels; Empty Fiber, Wood, and Metal Drums; Empty Pasteboard and Wooden Boxes; Empty Pasteboard, Fiber, and Wooden Cases; Paper and Pasteboard Cartons, Empty Paper, Pasteboard, and Tin Packages.

Claims use since June 15, 1924.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 242,103. PAUL PETER MÜLHENS, doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Filed Dec. 29, 1926.



All wording appearing on the drawing except the name of the applicant is disclaimed apart from the mark shown in the drawing. The drawing is lined for colors gold and blue.

Particular description of goods.—Soaps Including Toilet Soaps and Shaving Sticks.

Claims use since March, 1926.

Ser. No. 253,151. SILAS RICHARD JAYNES, doing business as Dryped Chemical Co., Springfield, Oreg. Filed Aug. 6, 1927.



No claim is made herein to the exclusive use of the words "Trade-Mark" apart from the mark shown.

Particular description of goods.—Grease in the Nature of Waterproofing Material for Leather and Primarily Intended for Use on Boots and Shoes.

Claims use since May 4, 1922.

Ser. No. 257,310. PRICE-ROSE MANUFACTURING CO., INC., East Stroudsburg, Pa. Filed Nov. 9, 1927.



No claim is made to the lining which indicates the colors blue and red on the drawing.

Particular description of goods.—Preparation for Cleaning Hands.

Claims use since Aug. 1, 1927.

Ser. No. 258,934. THE BON AMI COMPANY, New York, N. Y. Filed Dec. 15, 1927.



No claim is made to the wording shown on the drawing apart from the mark "Bon Ami"—namely, the instructions in Spanish reading: "A Window a Minute, No Brushes, No Mops, No Dirty Water, Mark Registered, To Clean and Polish Fine Articles," and "The Modern Cleaner for Crystals, Paints, Kitchen Utensils, Bathrooms, Metals, Etc."

Particular description of goods.—Scouring Soap in Cake and Powdered Form.

Claims use since about June, 1924.

Ser. No. 259,284. THE GRADY MANUFACTURING COMPANY, Long Island City, N. Y. Filed Dec. 23, 1927.



Particular description of goods.—Metal Polish.

Claims use since about Dec. 1, 1927.

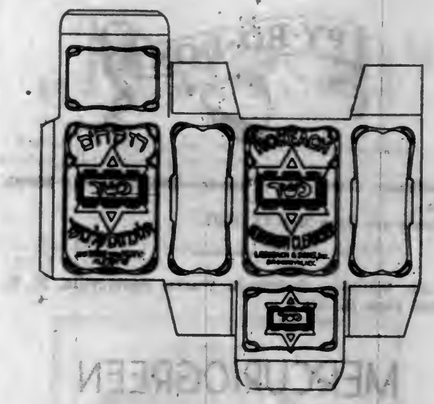
Ser. No. 259,583. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.



Particular description of goods.—Neutral Soap Compounds.

Claims use since Jan. 1, 1926.

Ser. No. 260,958. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed Jan. 31, 1928.



The translation of the Hebrew words appearing on the drawing are "Rokeach's Kosher Aluminum Cleanser." No claim is made to the representation of the outline of a carton and the words "Kosher Aluminum Cleanser, Brooklyn, N. Y."

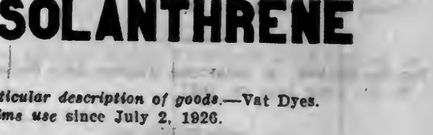
Particular description of goods.—Aluminum Cleanser.

Claims use since May 4, 1922.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 237,749. THE NEWPORT COMPANY, Carrollville, Wis. Filed Sept. 25, 1926.



Particular description of goods.—Vat Dyes.

Claims use since July 2, 1926.

Ser. No. 245,012. WILLIAM SCOTT HUNT, Oxford, N. C. Filed Feb. 28, 1927.



The word "Elixir" appearing on the drawing is disclaimed apart from the mark as shown.

Particular description of goods.—Medicinal Preparation for Headache, Colds, and Grippe.

Claims use since June 1, 1926.

Ser. No. 249,865. THE PYRODON CORPORATION, New York, N. Y. Filed June 1, 1927.

PY-RO-DON

Particular description of goods.—Dentifrice and Mouth Wash.
Claims use since May 11, 1927.

Ser. No. 250,585. RALPH B. WAITE, Springville, N. Y. Filed June 15, 1927.

MERCURIOGREEN

Particular description of goods.—Medicament for the Treatment of Gingivitis, Stomatitis, Pyorrhea, Alveolaris, Trench Mouth (Vincent's Infection), Nasal and Throat Infection, Etc.
Claims use since Nov. 15, 1926.

Ser. No. 250,951. ARTHUR JACKSON LENIGER, Danville, Pa. Filed June 9, 1927.

MAC TABLETS

No claim is made to the word "Tablets" apart from the mark shown in the drawing.
Particular description of goods.—Indigestion Tablets.
Claims use since Mar. 8, 1927.

Ser. No. 250,996. E. GRIFFITHS HUGHES, INC., Rochester, N. Y. Filed June 23, 1927.



The conventional lining representing the color blue.
Particular description of goods.—An Aperient and Diuretic in Tablet Form.
Claims use since Jan. 10, 1927.

Ser. No. 251,153. THE SHARPLES SOLVENTS CORPORATION, Philadelphia, Pa. Filed June 25, 1927.

PENT-ACETATE

No claim is made to the exclusive use of the word "Acetate" alone apart from the mark as shown in the drawing.
Particular description of goods.—Amyl Acetate.
Claims use since about Feb. 1, 1927.

Ser. No. 251,500. CHRISTIAN RICHARD AXEL HANSEN, doing business as Renzyme Laboratories Limited, St. Mary's, Ontario, Canada; Toronto, Ontario, Canada; and New York, N. Y. Filed July 5, 1927.

RENZYME

Particular description of goods.—Compound for the Treatment of Indigestion.
Claims use since Jan. 10, 1926.

Ser. No. 253,283. L'OCCYSOL, Grenoble, France. Filed Aug. 10, 1927.

OCCYSOL

Particular description of goods.—A Chemical Product for Destroying Weed or Parasitic Animals.
Claims use since July, 1927.

Ser. No. 255,879. STANLEY WILLIAM TANFIELD, London, England. Filed Oct. 10, 1927.



Particular description of goods.—Laxatives.
Claims use since Aug. 30, 1927.

Ser. No. 255,944. STANLEY WILLIAM TANFIELD, London, England. Filed Oct. 11, 1927.

APPLEDOC

Particular description of goods.—Laxatives.
Claims use since July 25, 1927.

Ser. No. 256,040. GRIGGS, COOPER & CO., St. Paul, Minn. Filed Oct. 13, 1927.



Particular description of goods.—Toilet and Laundry Borax.
Claims use since 1889.

Ser. No. 256,156. DEMETRA D. KALOGERAKOU, Newark, N. J. Filed Oct. 12, 1927.

Demitra



The portrait appearing on the drawing is that of applicant.
Particular description of goods.—Medicine for Rheumatism.
Claims use since Mar. 11, 1927.

Ser. No. 256,262. MARTIN REINHARD, doing business as Reinhard & Schmidt, Fabrik chem. pharm. & cosmet. Präparate "Bavaria," Wurzburg, Germany. Filed Oct. 18, 1927.

„Recorsan"

Particular description of goods.—Embrocation for Soothing the Heart, Bath Salts.
Claims use since Feb. 9, 1920.

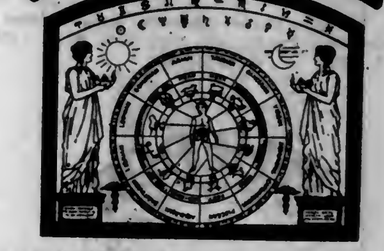
Ser. No. 258,304. VAUGHAN & MALOOF, Asheville, N. C. Filed Dec. 1, 1927.



The picture is a portrait of Mrs. Solomon Maloof.
Particular description of goods.—Preparation for Use in the External Treatment of Eczema and Other Skin Diseases.
Claims use since Nov. 5, 1927.

Ser. No. 258,358. SYDNEY SMITHLINE, doing business as Esoteric Products Co., New York, N. Y. Filed Dec. 2, 1927.

ESOTERIC



Particular description of goods.—Incense—Namely, Toilet Waters, and Essences Composed of Mixtures of Floral and Other Oils Used for Perfuming Purposes.
Claims use since Dec. 25, 1925.

Ser. No. 258,889. HORACE TANTUM, Nutley, N. J. Filed Dec. 18, 1927.

CAPSOTUM

Particular description of goods.—Mouth Wash Cleansing and Sweetening Powder in Capsule Form.
Claims use since June 10, 1927.

Ser. No. 258,929. EDWARD DOLEZAL, doing business as Ko-Tar Products Company, Cedar Rapids, Iowa. Filed Dec. 12, 1927.

Sani-Cide



Ko-Tar Products Co.

Particular description of goods.—Insecticides.
Claims use since June 1, 1927.

Ser. No. 259,307. ROBERT E. PARRISH, doing business as R. E. Parrish Drug Company, Bennington, Okla. Filed Dec. 23, 1927.

MAGMA-THALEIN

Particular description of goods.—Medicine for the Relief of Dyspepsia, Indigestion, and Stomach Disorders.
Claims use since Sept. 1, 1926.

Ser. No. 259,627. ERNEST ESPOSITO, doing business as Remedor Foot Powder Co., New York, N. Y. Filed Jan. 3, 1928.

REMEDOR
WORLD OF EASE

Particular description of goods.—Powder for Treatment of Foot Ailment.
Claims use since Dec. 1, 1927.

Ser. No. 259,650. JOAN SCHON, New York, N. Y. Filed Jan. 3, 1928.

O-MI-NOZE

Particular description of goods.—Medicinal Oil for the Treatment of Catarrh, Asthma, and La Grippe.
Claims use since Dec. 21, 1927.

Ser. No. 259,829. LEOPOLD WIMMER, doing business as Continental Specialties Manufacturing Company, Muskegon, Mich. Filed Jan. 7, 1928.

RADI-CURE

Particular description of goods.—Automobile Radiator and Boiler Compounds Used as an Antileak Compound.
Claims use since on or about Nov. 1, 1921.

Ser. No. 259,896. SHERMAN L. DAVIS, doing business as Ucoline Products Company, Indianapolis, Ind. Filed Jan. 10, 1928.

Actol

Particular description of goods.—Activated Cod-Liver Oil.
Claims use since about May, 1925.

Ser. No. 259,968. RENWICK T. SENIOR, doing business as Senex Chemical Company, Montgomery, N. Y. Filed Jan. 11, 1928.

Sendal

Particular description of goods.—Perfumes.
Claims use since on or about Oct. 1, 1926.

Ser. No. 260,032. SALOL CHEMICAL CO., Chicago, Ill. Filed Jan. 12, 1928.

Safety Buds

The word "Safety" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
Particular description of goods.—Vaginal Suppositories.
Claims use since Sept. 1, 1927.

Ser. No. 260,069. LLOYD W. MILTON, doing business as Milton Laboratories, Chicago, Ill. Filed Jan. 13, 1928.

•FIBRE-LIFE•

Particular description of goods.—Compound for Preventing Runs in Silk Hosiery.
Claims use since Nov. 7, 1927.

Ser. No. 260,170. THE FAX LABORATORIES, INC., Dayton, Ohio. Filed Jan. 16, 1928.

FAX

Particular description of goods.—Deodorants, Insecticides, and Disinfectants.
Claims use since Nov. 13, 1927.

Ser. No. 260,230. MICHAEL LISS, doing business as Gum-Num Company, Newark, N. J. Filed Jan. 17, 1928.

GUM NUM

No claim is made to the words "Gum-Num" apart from the mark as shown in the drawing.
Particular description of goods.—Anæsthetics and Antiseptics.
Claims use since Sept. 10, 1927.

Ser. No. 260,260. PATRICK S. CONDON, Brooklyn, N. Y. Filed Jan. 18, 1928.

DUZ-PEP

Particular description of goods.—Chemical Composition for Addition to Gasoline and Other Liquid Fuels for Internal Combustion Engines, Adapted to Increase the Efficiency of the Fuel and to Minimize Carbon Deposits.
Claims use since August, 1925.

Ser. No. 260,281. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Jan. 18, 1928.

LIVER EXTRACT
No. 343

Applicant claims no exclusive right to the words "Liver Extract" apart from the complete mark shown.
Particular description of goods.—Liver Extracts.
Claims use since Jan. 5, 1928.

Ser. No. 260,282. MARESS COMPANY, Kansas City, Mo. Filed Jan. 18, 1928.

MARESS

Particular description of goods.—Hair Lotion.
Claims use since Dec. 21, 1927.

Ser. No. 260,287. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Jan. 18, 1928.

Chantice

Particular description of goods.—Cold Cream.
Claims use since Dec. 5, 1927.

Ser. No. 260,293. JOSEPH RUNCI, doing business as Joseph Runci & Sons Co., Roxbury, Mass. Filed Jan. 18, 1928.



Particular description of goods.—Hair Tonic, Toilet Water, Shampoo, Face Cream, Bay Rum, Talcum Powder, Face Powder, Rouge, Lip Stick, Brilliantine, Perfumes, Hairdressing, and Petroleum Jelly.
Claims use since June 14, 1927.

Ser. No. 260,310. BLUD-LIFE COMPANY, Atlanta, Ga. Filed Jan. 19, 1928.

B-L

The drawing is lined for the color red.
Particular description of goods.—A General Tonic, Stomachic, Laxative, and Appetizer.
Claims use since July 1, 1926.

Ser. No. 260,325. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Jan. 19, 1928.

Seretin

Particular description of goods.—Medicines for Worms.
Claims use since about Sept. 1, 1927.

Ser. No. 260,379. DORALDINA, INC., Los Angeles, Calif. Filed Jan. 20, 1928.

Doraldina

Particular description of goods.—Cold Cream, Cleansing Cream, Tissue Cream, Skin Cream, Liquid Skin Tonic, and Face Powder.
Claims use since Oct. 11, 1926.

Ser. No. 260,380. DORALDINA, INC., Los Angeles, Calif. Filed Jan. 20, 1928.



The portrait appearing on the drawing is fanciful and not of any living individual.
Particular description of goods.—Cold Cream, Cleansing Cream, Tissue Cream, Skin Cream, Liquid Skin Tonic, and Face Powder.
Claims use since Oct. 11, 1926.

Ser. No. 260,476. TRANSKUTAN, INC., New York, N. Y. Filed Jan. 21, 1928.



Particular description of goods.—Medicinal Bath Preparation for the Treatment of Muscular and Joint Afflictions Caused by Rheumatism, Arthritis, Gout, or Gonorrhea, Neuralgia, Inflammatory Exudates of the Female Sex Organs, Catarrh, Lumbago, Fibrositis, Sciatica, Severe Colds and Bronchial Congestions, and Other Kindred Conditions.
Claims use since July 31, 1925.

Ser. No. 260,477. VANETTE, INC., New York, N. Y. Filed Jan. 21, 1928.



No claim is herein made to the words "New York, New York, U. S. A." apart from the mark as shown.
Particular description of goods.—Hair Dye.
Claims use since Oct. 1, 1927.

Ser. No. 260,525. KAREN S. PHILLIPSEN, Levan, Utah. Filed Jan. 23, 1928.



No claim is made to the words "Oxide Salve" apart from the mark shown in the drawing.
Particular description of goods.—Salve for Boils, Insect Bites, Wounds, Burns, and Sores.
Claims use since Dec. 1, 1927.

Ser. No. 260,530. PAUL N. RITTER, doing business as The Vigatol Company, New York, N. Y. Filed Jan. 23, 1928.

"VIGATOL"

Particular description of goods.—Medicinal Preparation for Epilepsy.
Claims use since Jan. 14, 1928.

Ser. No. 260,575. THOMAS C. LYNCH, Providence, R. I. Filed Jan. 24, 1928.



Particular description of goods.—Liniment for Use in the Treatment of Rheumatism, Lumbago, Neuralgia, Sprains, Stiff Neck, Chilblains, Bruises, and Neuritis.
Claims use since Dec. 1, 1927.

Ser. No. 260,576. IRVING L. MANN, doing business as Er Mann Laboratories, Bridgeport, Conn. Filed Jan. 24, 1928.

Er Mann

No registration rights are claimed for the word "Mann" apart from the mark shown in the drawing.
Particular description of goods.—Depilatories.
Claims use since Oct. 10, 1927.

Ser. No. 260,581. THE NITO CORPORATION, Charleston, W. Va. Filed Jan. 24, 1928.

NITO

Particular description of goods.—Chemical Preparation to be Added to Gasoline to Lubricate the Cylinder Walls, Piston Rings, and Valve Stems of Gasoline Engines to Loosen and Dissolve the Carbon Deposit, Etc.
Claims use since Oct. 7, 1927.

Ser. No. 260,608. V. VIVAUDOU, INC., doing business as Kerkoff, New York, N. Y. Filed Jan. 24, 1928.

DJER-ONE

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Rose Tints, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since May 17, 1927.

Ser. No. 260,618. APEX LABORATORIES, INC., Chicago, Ill. Filed Jan. 25, 1928.

APEX

Particular description of goods.—Lighter Liquid.
Claims use since May, 1927.

Ser. No. 260,793. BEEBE LABORATORIES, INC., St. Paul, Minn. Filed Jan. 28, 1928.

Beebe's D.A.C.

Particular description of goods.—Disinfectant, Antiseptic, Deodorant, Purifier, and Bleach for Household, Personal, Hygiene, Farm, Dairy, and Poultry, Nursery, Bath Room, and Laundry.
Claims use since on or about Aug. 15, 1925.

Ser. No. 260,964. GAVRO SAVICH, Akron, Ohio. Filed Jan. 31, 1928.

Savich Medicines

The word "Medicines" is not claimed apart from the other features of the mark. The name "Savich" and the word "Medicines" are in applicant's handwriting.
Particular description of goods.—Medicinal Preparation for the Treatment of Venereal Diseases.
Claims use since Jan. 5, 1928.

Ser. No. 260,977. J. BOSISTO & CO. PROPRIETARY LIMITED, Melbourne, Victoria, Australia. Filed Feb. 1, 1928. Under 10-year proviso.

BOSISTO'S EUCALYPTUS OIL

Particular description of goods.—Oil of Eucalyptus or Eucalyptus Oil.
Claims use since about 1877.

Ser. No. 260,981. DELETTREZ, INC., New York, N. Y. Filed Feb. 1, 1928.

LAIS

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 20, 1925.

Ser. No. 260,982. DELETTREZ, INC., New York, N. Y. Filed Feb. 1, 1928.

ESORA

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 20, 1925.

Ser. No. 260,983. DELETTREZ, INC., New York, N. Y. Filed Feb. 1, 1928.

BONHEUR D'AIMER

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 20, 1925.

Ser. No. 260,985. DELETTREZ, INC., New York, N. Y. Filed Feb. 1, 1928.

RIGHI

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 20, 1925.

Ser. No. 260,986. DELETTREZ, INC., New York, N. Y. Filed Feb. 1, 1928.

LA DANSE DES FLEURS

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Dec. 14, 1926.

Ser. No. 261,004. MARLIN ROMIE HERRICK, Sarepta, La. Filed Feb. 1, 1928.



Particular description of goods.—Inhalant for Treating Tuberculosis, Bronchitis, Asthma, and Pulmonary Diseases.
Claims use since Nov. 22, 1927.

Ser. No. 261,043. CHESEBROUGH MANUFACTURING COMPANY, CONSOLIDATED, New York, N. Y. Filed Feb. 2, 1928.

BLUE SEAL

Particular description of goods.—Pomade.
Claims use since 1889.

Ser. No. 261,065. KOMO CHEMICAL COMPANY, Philadelphia, Pa. Filed Feb. 2, 1928.

WECO

Particular description of goods.—Insecticides.
Claims use since Jan. 17, 1928.

Ser. No. 261,081. SYLVIA STAFFORD, INCORPORATED, New York, N. Y. Filed Feb. 2, 1928.

May-dew

Particular description of goods.—Preparation for Cleansing and Beautifying the Skin.
Claims use since Feb. 9, 1927.

Ser. No. 261,092. AMERICAN DYEWOOD COMPANY, New York, N. Y. Filed Feb. 3, 1928.

BLANCEX

Particular description of goods.—Chemical Product Used in the Treatment of Leather to Lighten the Color by Bleaching, Tinting, or Neutralizing the Original Color.
Claims use since Mar. 9, 1926.

Ser. No. 261,241. COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 6, 1928.

ONE-TWO

Particular description of goods.—Face Cream.
Claims use since Jan. 21, 1928.

Ser. No. 261,242. COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 6, 1928.

ATMOSPHERE

Particular description of goods.—Face Powder.
Claims use since Jan. 21, 1928.

Ser. No. 261,820. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Feb. 7, 1928.

ACIDULIN

Particular description of goods.—Medicine or Pharmaceutical Preparation.
Claims use since Dec. 9, 1927.

Ser. No. 261,592. HERMAN SMITHLINE, doing business as Hair-Rite Chemical Co., New York, N. Y. Filed Feb. 11, 1928.

HAIR-RITE

The colors red and black are claimed as features of the mark.
Particular description of goods.—Dressing Cream for the Hair.
Claims use since Sept. 26, 1926.

Ser. No. 261,620. ELMO H. FISHER, Pittsburgh, Pa. Filed Feb. 13, 1928.

HARBOND

Particular description of goods.—Product for Plating All Grades of Steel Products with Chromium Electrolytically.
Claims use since July 1, 1927.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 259,796. WILLIAM DEMUTH & COMPANY, New York, N. Y. Filed Jan. 7, 1928.

H PIPES C HESSON

No claim is made to the word "Pipes" apart from the mark as shown in the drawing.
Particular description of goods.—Tobacco Pipes, Cigar and Cigarette Holders.
Claims use since Nov. 1, 1925.

CLASS 10.

Fertilizers.

Ser. No. 259,198. THE CENTRAL CHEMICAL COMPANY, Hagerstown, Md. Filed Dec. 21, 1927.

GOLDEN SHEAF

Particular description of goods.—Fertilizers.
Claims use since July, 1912.

Ser. No. 260,539. VIRGINIA-CAROLINA CHEMICAL CORPORATION, Richmond, Va. Filed Jan. 23, 1928.

OLD HICKORY

Particular description of goods.—Fertilizers.
Claims use since 1880.

CLASS 12.

Construction Materials.

Ser. No. 259,068. O'NEIL LUMBER COMPANY, INC., St. Louis, Mo., and East St. Louis, Ill. Filed Dec. 17, 1927.

HOUSERVICE
A Department of O'NEIL LUMBER CO.

The words "A Department of O'Neil Lumber Co." are disclaimed.
Particular description of goods.—Cement, Wall Plaster, Hydrated Lime, Lumber Rough and Finished, Wood Shingles, Wood and Also Metal Sash and Doors and Window and Door Frames, Wood Moldings, Roofing and Shingles, Asphalt and Also Asbestos, Insulating Papers, and Wall Board, Asbestos Construction Board, Asbestos Insulation, Window Screens, and Metal Weather Stripping.
Claims use since Sept. 1, 1927.

Ser. No. 259,575. PENN BUILDING BLOCK COMPANY, Philadelphia, Pa. Filed Dec. 31, 1927.

PENN CRETE

Particular description of goods.—Dry Powdery Cementitious Material, Said Material Comprising Two General Formulas—to wit, Exterior Stucco Which is Made of Clean, Washed, Light-Colored, or Preferably White Sand, White or Gray Cement, Depending on the Ultimate Color Desired, and Dry Coloring Pigment of Permanent Quality, Which Ingredients and a Proportion of Lime are Placed Dry in a Mixing Machine and After Being Thoroughly Mixed the Powder is Bagged and Sold as Stucco, and an Interior Stucco (or Plaster) in Which the Same Procedure is Followed as Above Except that a Different Kind of Cement and a Finer Sand are Used in Order to Produce a More Delicate Finish.
Claims use since Dec. 16, 1927.

Ser. No. 259,661. THE WASHINGTON BUILDING LIME CO., Woodville, Ohio, Engle, W. Va., Strasburg, Va., Baltimore, Md. Filed Jan. 3, 1928.

WASHINGTON

The trade-mark consists of an imprint representing the head of George Washington together with the name of Washington.
Particular description of goods.—Building Lime.
Claims use since 1889.

Ser. No. 259,921. THE MUTTON HOLLOW FIRE BRICK COMPANY, Woodbridge, N. J. Filed Jan. 10, 1928.

RINEHEIT

Particular description of goods.—Bricks.
Claims use since July 23, 1927.

Ser. No. 260,492. CLAY PRODUCTS COMPANY, Brazil, Ind. Filed Jan. 23, 1928.

AR-KE-TEXTURES

Particular description of goods.—Glazed and Unglazed Clay Building Tile.
Claims use since Dec. 5, 1927.

Ser. No. 260,562. FIBERFRAKS INCORPORATED, Lockport and New York, N. Y. Filed Jan. 24, 1928.

FIBERFRAKS

Particular description of goods.—Fireboards and Irregular Shapes Pressed from Mixtures of Various Fibers and Bonding Material.
Claims use since Jan. 11, 1928.

Ser. No. 260,711. ROBERT T. BOWMAN, doing business as R. T. Bowman Co., Trenton, N. J. Filed Jan. 27, 1928.

BOWMAN

Particular description of goods.—Portable Buildings.
Claims use since March, 1926.

Ser. No. 260,722. THE FLINTKOTE COMPANY, Boston, Mass. Filed Jan. 27, 1928.

Particular description of goods.—Composition Shingles, Composition Strip Shingles, Asphalt Roll Roofing, Composition Roofing Paper, Roofing Cement, Asphaltic Roofing Compositions and Compounds for Use on Roofs of Composition Shingles and Wood Shingles.
Claims use since Jan. 21, 1926.

Ser. No. 260,724. THE FLINTKOTE COMPANY, Boston, Mass. Filed Jan. 27, 1928.

SKY LINE

Particular description of goods.—Composition Shingles, Composition Strip Shingles, Asphalt Roll Roofing, Composition Roofing Paper, Roofing Cement, Asphaltic Roofing Compositions and Compounds for Use on Roofs of Composition Shingles and Wood Shingles.
Claims use since Dec. 30, 1925.

Ser. No. 260,881. THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Jan. 30, 1928.

CALIBEX

Particular description of goods.—High-Temperature Cement or Mortar.
Claims use since Oct. 15, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 242,848. NORTH AND JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Jan. 14, 1927.

ANCHOR BRAND

No claim is made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Catches, Handles for Hoods, Grab Handles, Door Handles, Escutcheon Plates, Robe Rails, Upholstery Nails, Turn-Button Curtain Fasteners and Repair Parts Therefor, Windshield-Curtain Hooks, Radiator-Cover Clips, End Clips, Grommets, Finishing Tips, Windshield Clips, Prop Nut Locks, D Rings, Snaps, Finishing Screw Washers, Tension Slides, Chain-Repair Lap Links, Hook Buckles, Web Strap Tips, Match Leather Nails, Shower-Bath Curtain Loops, Assortment of Curtain Repair Parts, Razor-Strop Hardware and Trimmings—Namely, Snaps, Swivel Snaps, Buckles, Swivels, Loops, Combined Snaps and Swivels, Handles, Bolts and Nuts, and Wire Loops.
Claims use since February, 1912.

Ser. No. 242,849. NORTH AND JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Jan. 14, 1927.



Particular description of goods.—Catches, Handles for Hoods, Grab Handles, Door Handles, Escutcheon Plates, Robe Rails, Upholstery Nails, Turn-Button Curtain Fasteners and Repair Parts Therefor, Windshield-Curtain Hooks, Radiator-Cover Clips, End Clips, Grommets, Finishing Tips, Windshield Clips, Prop Nut Locks, D Rings, Snaps, Finishing Screw Washers, Tension Slides, Chain-Repair Lap Links, Hook Buckles, Web Strap Tips, Match Leather Nails, Shower-Bath Curtain Loops, Assortment of Curtain Repair Parts, Razor-Strop Hardware and Trimmings—Namely, Snaps, Swivel Snaps, Buckles, Swivels, Loops, Combined Snaps and Swivels, Handles, Bolts and Nuts, and Wire Loops.
Claims use since February, 1912.

Ser. No. 243,129. J. H. BALMER CO., Newark, N. J. Filed Jan. 21, 1927.

E-Z Set

No claim is made to the word "Set" apart from the mark shown in the drawing.
Particular description of goods.—Bath-Room Fixtures—Namely, Tumbler Holder, Combination Tumbler and Toothbrush Holder; Combination Cigar, Cigarette, Match, Ash-Tray, and Newspaper Holder; Combined Shelf, Tumbler and Soap Holder; Combined Shelf, Tumbler and Toothbrush Holder; and Shaving-Set Combination—Namely, Units for Holding Safety-Razor Set, Shaving Brush and Shaving Powder, Paste, or Soap.
Claims use since April, 1925.

Ser. No. 252,658. EDWIN O. LAWRENCE, Port Jefferson Station, N. Y. Filed July 28, 1927.



The representation of the outline of the tank and the words "Grease," "Water," and "Solids" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Septic Tanks.
Claims use since Oct. 1, 1925.

Ser. No. 259,761. COLUMBIAN ENAMELING & STAMPING CO., Terre Haute, Ind. Filed Jan. 6, 1928.

Porcelite

Particular description of goods.—Enameled Steel Wares—viz, Auto Lunch Kits Consisting of Plates, Cups, Saucers, and Pail for Containing Same; Bain-Marie Pots, Bake Pans, Basins, Baths, Bedpans, Coffee Biggins, Double Boilers, Coffee Boilers, Bowls and Pitchers, Butchers' Trays, Camp Kits, Chambers, Child's Eating Set, Coffeepots, Colanders, Combinets, Commodes, Cookers, Cooking Pots, Cream Pitchers, Cups, Cups and Saucers, Cuspidors, Dairy Pans, Dippers, Dish Pans, Oblong Pie Dishes, Douche Pans, Roasters, Funnels, Dry Pans, Gravy Strainers, Jelly-Cake Pans, Kettles, Ladles, Measuring Cups, Meat Platters, Ovens, Convex Saucepans, Lipped Saucepans, Pudding Pans, Stewpans, Stove Pans, Water Pitchers, Plates, Pudding Bowls, Pudding Pans, Refrigerator Dishes, Saucers, Shaving-Paper Urns, Sink Dish Pans, Sink Strainers, Skimmers, Soap Dishes, Soup Bowls, Plates and Strainers, Spittoons, Steam-Table Insets, Stock Pots, Sugar Bowls, Syrup Pitchers, Towel Urns, Trays, Vegetable Dishes.
Claims use since July 3, 1926.

Ser. No. 260,415. WOLVERINE BRASS WORKS, Grand Rapids, Mich. Filed Jan. 20, 1928.

MERMAID

Particular description of goods.—Rubber Tank Valve Balls.
Claims use since Mar. 18, 1926.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 255,327. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., Worcester, Mass., and Hoboken, N. J. Filed Sept. 28, 1927. Under 10-year proviso.

PERFECTED

Particular description of goods.—Wire, and Particularly Plain Telephone and Telephone and Telegraph Wires.
Claims use since 1883.

Ser. No. 257,631. MARRUBO BROTHERS INC., New York, N. Y. Filed Nov. 16, 1927.

Elonga

Particular description of goods.—Wire, Wire Rods, Bars, and Strips.
Claims use since Sept. 27, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 254,765. PENNSYLVANIA OIL COMPANY, Chicago, Ill. Filed Sept. 15, 1927.



Applicant disclaims the words "Motor Oil" and "Chicago, Illinois" appearing in the drawing, apart from the mark shown.
Particular description of goods.—Lubricating Oil.
Claims use since June 15, 1925.

Ser. No. 260,584. THE PENNSYLENE OIL COMPANY, INC., Brooklyn, N. Y. Filed Jan. 24, 1928.

PENNSYLENE

Particular description of goods.—Lubricating Oils and Lubricating Greases.
Claims use since Aug. 10, 1926.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 259,806. PETER JENSEN, New York, N. Y. Filed Jan. 7, 1928.

JENTEX

Particular description of goods.—Plastic Paint—Namely, an Art Paint.
Claims use since Dec. 10, 1927.

Ser. No. 260,219. EVERSEAL MANUFACTURING CO. INC., New York, N. Y. Filed Jan. 17, 1928.

Beautex

Particular description of goods.—Ready-Mixed Paints, Paste Paint, and Paint Colors.
Claims use since January, 1927.

Ser. No. 260,374. JOHN T. BRADLEY, doing business as J. T. Bradley Co., Lorain, Ohio. Filed Jan. 20, 1928.



The descriptive word "Polish" is disclaimed apart from the mark shown.

Particular description of goods.—Polish and Cleaner for Duco and Varnished Surfaces.

Claims use since Jan. 4, 1927.

Ser. No. 260,752. ROWER-BEINE PAINT MANUFACTURING COMPANY, St. Louis, Mo. Filed Jan. 27, 1928.

Fifth Ave. Finish

The word "Finish" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Ready-Mixed Paints, Enamels, Varnishes, and Driers.

Claims use since Oct. 1, 1915.

Ser. No. 261,221. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Feb. 4, 1928.

WALL-STONE

Particular description of goods.—Pigment for Mixing with Other Paints or Paint Vehicles to Make a Heavy-Bodied Coating or Plastic Compound for Decorating Walls and Like Surfaces.

Claims use since Jan. 5, 1928.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 238,581. GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill. Filed Oct. 14, 1926.

Super-B

No claim is made to the letter "B" apart from the mark shown in the drawing.

Particular description of goods.—Battery Eliminators.

Claims use since Feb. 22, 1926.

Ser. No. 254,115. ANGUS D. MACFARLANE, Hartford, Conn. Filed Aug. 29, 1927.



No claim is made herein to the words "Safety Lamp" apart from the mark shown.

Particular description of goods.—Electric Lamps for Automobiles and Other Vehicles.

Claims use since August, 1923.

Ser. No. 254,996. DIANA MANUFACTURING COMPANY, New York, N. Y. Filed Sept. 21, 1927.



Particular description of goods.—Radio Electron Tubes.

Claims use since on or about Aug. 5, 1926.

Ser. No. 254,997. DIANA MANUFACTURING COMPANY, New York, N. Y. Filed Sept. 21, 1927.

Diana

Particular description of goods.—Radiotubes.

Claims use since on or about Aug. 5, 1926.

Ser. No. 258,687. GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill. Filed Dec. 9, 1927.

Master-B

No claim is made to the letter "B" apart from the mark shown in the drawing.

Particular description of goods.—Battery Eliminators.

Claims use since Aug. 17, 1926.

Ser. No. 258,964. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill. Filed Dec. 15, 1927.

Stewart-Warner

The mark includes the name "Stewart" in the form of a facsimile of the signature of John K. Stewart, founder and first president of this corporation, and the name "Warner" is disclaimed in a style consistent with said facsimile signature.

Particular description of goods.—Electric Cigar Lighters.

Claims use since November, 1927.

Ser. No. 260,868. LOUISE AMBORY, doing business as Jiffy Electric Water Heater Company, Detroit, Mich. Filed Jan. 30, 1928.

Jiffy Water Heater

Disclaimer is made to the words "Water Heater" apart from the rest of the mark shown.

Particular description of goods.—Electric Water Heaters.

Claims use since June 1, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 259,771. JOHN C. LEHNE, doing business as John C. Lehne Sales Co., New York, N. Y. Filed Jan. 6, 1928.

RAP-O

Particular description of goods.—Game Device for Batting and Catching Balls.

Claims use since Dec. 30, 1927.

Ser. No. 260,165. THE CRAWFORD, MCGREGOR AND CANBY COMPANY, Dayton, Ohio. Filed Jan. 16, 1928.

DURALITE

Particular description of goods.—Golf Balls.

Claims use since on or about July 1, 1927.

Ser. No. 260,614. THE AMERICAN IMPORT COMPANY, San Francisco, Calif. Filed Jan. 25, 1928.

PREMIER BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Fishing Poles.

Claims use since Jan. 2, 1925.

Ser. No. 260,669. JOHN I. ANDERSON, New York, N. Y. Filed Jan. 26, 1928.



The word "Plants" is not claimed apart from the mark shown on the drawing.

Particular description of goods.—Miniature Pot and Saucer, the Pot Being Supplied Ready Filled with Loam and Seed to be Sold as a Toy.

Claims use since Jan. 1, 1910.

Ser. No. 261,116. JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Feb. 3, 1928.

S-O-S

Particular description of goods.—Artificial Baits.

Claims use since Dec. 1, 1927.

Ser. No. 261,450. PARKER BROTHERS, INC., Portland, Me., and Salem, Mass. Filed Feb. 9, 1928.

WINGS

Particular description of goods.—Game Played with Cards.
Claims use since Feb. 8, 1928.

Ser. No. 261,459. RUSSELL PLAYING CARD COMPANY, Milltown, N. J. Filed Feb. 9, 1928.



Particular description of goods.—Playing Cards.
Claims use since on or about June 15, 1906.

Ser. No. 261,460. RUSSELL PLAYING CARD COMPANY, Milltown, N. J. Filed Feb. 9, 1928.

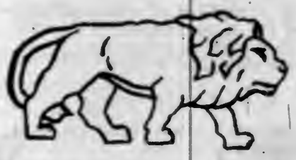
KOH-I-NOOR

Particular description of goods.—Playing Cards.
Claims use since on or about September, 1906.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 239,762. LUDW. LOEWE & CO., ACTIENGESELLSCHAFT, Berlin, Germany. Filed Nov. 6, 1926.



Particular description of goods.—Cutting-Off Machines, Centering Machines, Milling Machines, Profiling Machines, Drilling Machines, Shaping Machines, Slotting Machines, Turret Lathes, Automatic Lathes, Automatic Screw Machines, Grinding Machines, Tool-Grinding Machines, Pumps, Lathe Tools, Planing Tools, Boring Tools, Chucks, Tool Holders and Collets, Milling Cutters, Reamers, Drills, Counterbores, Countersinks, Screw-Cutting Tools, Index Apparatuses (Nonscientific), and Parts of said Machinery.
Claims use since Dec. 23, 1905.

Ser. No. 242,922. THE G. V. SPRAYER CO., Wichita, Kans., and Lebanon, Tenn. Filed Jan. 15, 1927.



No claim is made to the words "Every Possible Spray, Mist Vapor to Solid Stream" and the representation of the spray nozzle apart from the mark shown in the drawing.
Particular description of goods.—Hand Portable Sprayer Used for a Variety of Purposes, Such as Painting, Making Fires, Spraying, Sprinkling, and the Like.
Claims use since January, 1925.

Ser. No. 244,700. JEAN EUGENE LAVIDALIE, Bordeaux, France. Filed Feb. 21, 1927.

CIBL

Particular description of goods.—Mechanically-Actuated Signals for Automobiles for Indicating Change of Direction and Stopping.
Claims use since July 31, 1926.

Ser. No. 245,129. WICKWIRE SPENCER STEEL COMPANY, New York, N. Y. Filed Mar. 2, 1927.

WISCO FORGEPOINT

No claim is made to the exclusive use of the word "Forgepoint" in this application except as associated with the mark shown in the drawing.
Particular description of goods.—Card Clothing and Napper Clothing for Textile Machines.
Claims use since Feb. 1, 1927.

Ser. No. 245,769. WESTERN IGNITION COMPANY, Chicago, Ill. Filed Mar. 14, 1927.

SUNBEAM

Particular description of goods.—Electric Tire Inflators Consisting of an Air Compressor and Air-Storage Tank.
Claims use since July 19, 1926.

Ser. No. 258,339. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Aug. 11, 1927.

USANITOWLS

Particular description of goods.—Machines for Vending Sanitary Napkins.
Claims use since Mar. 7, 1924.

Ser. No. 255,684. SERVICE STATION EQUIPMENT COMPANY, Bryan, Ohio. Filed Oct. 5, 1927.

ECO

The lining appearing upon the letters is for the purpose of shading only.
Particular description of goods.—Reels for Hose Pipes Which Automatically Give Off the Hose Pipes Under Pull and Take Up the Slack on the Pipes Automatically When the Hose Pipes are Released.
Claims use since January, 1927.

Ser. No. 258,853. AKTIEBOLAGET STRIDSBERG & BIORCK, Trollhattan, Sweden. Filed Dec. 13, 1927.



Applicant disclaims the right to the exclusive use of the representation of the saw apart from the mark shown.
Particular description of goods.—Circular Saws, Mill Saws, Band Saws, Handsaws, Crosscut Saws, Web Saws, Machine Plane Irons, Machine Knives.
Claims use since June 11, 1888.

Ser. No. 259,233. E. C. ATKINS & COMPANY, Indianapolis, Ind. Filed Dec. 22, 1927. Under 10-year proviso.



Particular description of goods.—Crosscut Saws.
Claims use since May, 1865.

Ser. No. 259,364. CLARA BIRCHARD LAMBERT, Pasadena, Calif. Filed Dec. 27, 1927.



No claim is made for the representation of the goods apart from the mark shown.
Particular description of goods.—Pie-Crust Mixer and Flaker.
Claims use since 1924.

Ser. No. 259,778. CYRIL G. MORAIS, Newark, N. J. Filed Jan. 6, 1928.

REALFELO

The Adorable Everyday Companion

Particular description of goods.—Typewriters, Duplicating Machines Using Type, Check Writers, and Vacuum Cleaners.
Claims use since Oct. 29, 1927.

Ser. No. 259,970. SERVICE STATION EQUIPMENT COMPANY, Bryan, Ohio. Filed Jan. 11, 1928.

ECO

The lining appearing upon the letters is for shading only.

Particular description of goods.—Air Compressors.

Claims use since January, 1927.

Ser. No. 260,252. BADGER EQUIPMENT COMPANY, Omaha, Nebr. Filed Jan. 18, 1928.

BADGER
GIANT

Particular description of goods.—Grain and Roughage Mills.

Claims use since March, 1927.

Ser. No. 260,253. BADGER EQUIPMENT COMPANY, Omaha, Nebr. Filed Jan. 18, 1928.

"THE DADDY OF THEM ALL"

Particular description of goods.—Grain and Roughage Mills.

Claims use since March, 1927.

Ser. No. 260,474. TEXTILE ELECTRIC MACHINERY COMPANY, Philadelphia, Pa. Filed Jan. 20, 1928.

TEMCO

Particular description of goods.—Yarn Moisteners Used as Attachments to Knitting, Weaving, Spinning, or Other Thread-Handling Machines.

Claims use since about Oct. 8, 1927.

Ser. No. 260,488. CADILLAC STAMP COMPANY, INC., Detroit, Mich. Filed Jan. 23, 1928.

SERVICE
CADILLAC

No claim is made to the words appearing on the drawing apart from the mark shown thereon.

Particular description of goods.—Special Steel Stamps, Embossing and Marking Dies, Power and Hand Marking Machines.

Claims use since early in 1922.

Ser. No. 261,069. H. MAIMIN COMPANY INCORPORATED, New York, N. Y. Filed Feb. 2, 1928.

MANUFACTURERS OF
HMCO
MAIMIN
MAIMIN CLOTH CUTTERS

Applicant disclaims any exclusive right to the words "Manufacturers of Maimin Cloth Cutters" apart from the mark shown in the drawing.

Particular description of goods.—Cloth-Cutting Machines.

Claims use since Jan. 16, 1928.

Ser. No. 261,337. AUTOSTROP SAFETY RAZOR COMPANY, INC., New York, N. Y. Filed Feb. 8, 1928.

PROBAK

Particular description of goods.—Razor Blades.

Claims use since Jan. 27, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 259,880. SERVICE STATION EQUIPMENT COMPANY, Bryan, Ohio. Filed Jan. 9, 1928.

ECO

The lining appearing upon the letters is for the purpose of shading only.

Particular description of goods.—Pressure Gauges.

Claims use since January, 1927.

Ser. No. 260,198. THE STRONG ELECTRIC COMPANY, Toledo, Ohio. Filed Jan. 16, 1928.

MIRRORLITE

Particular description of goods.—Lenses, Particularly Lenses for Use in Connection with Motion-Picture Lamps and Projectors.

Claims use since Sept. 15, 1927.

Ser. No. 261,500. FOX CASE CORPORATION, New York, N. Y. Filed Feb. 10, 1928.

CINEMATONE

Particular description of goods.—Motion Pictures.

Claims use since about Jan. 3, 1928.

Ser. No. 261,560. WILLIAM FOX, New York, N. Y. Filed Feb. 11, 1928.

GRANDEUR

Particular description of goods.—Motion Pictures.

Claims use since Nov. 1, 1927.

Ser. No. 261,605. BENNETT PUMPS CORPORATION, Muskegon, Mich. Filed Feb. 13, 1928.

BIG BERTHA

Particular description of goods.—Combined Liquid Tanks and Measuring Dispensing Pumps.

Claims use since on or about Dec. 20, 1927.

CLASS 27.

Horological Instruments.

Ser. No. 260,099. A. COHEN & SONS CORP., New York, N. Y. Filed Jan. 14, 1928.

EVERBRITE

Applicant disclaims the right to the exclusive use of the word "Everbrite," apart from the trade-mark as shown in the drawing.

Particular description of goods.—Clocks and Parts Thereof, Watches, Watchcases, Watch Movements, and Parts Thereof.

Claims use since January, 1923.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 259,828. VEDOE-PETERSON COMPANY, Norfolk Downs, Quincy, Mass. Filed Jan. 7, 1928.

THERMOWIPER

Particular description of goods.—Electrical Windshield Wipers.

Claims use since about Nov. 15, 1927.

Ser. No. 260,388. RICHARD HUDNUT, New York, N. Y. Filed Jan. 20, 1928.

Particular description of goods.—Powder Puffs.

Claims use since about June 25, 1927.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 257,839. S. J. CARNES, Camden, Ark. Filed Nov. 21, 1927.

Camark Pottery

Applicant disclaims the word "Pottery" as a part of the mark sought to be registered.

Particular description of goods.—Pottery, Crockery, and Earthenware.

Claims use since Mar. 1, 1927.

CLASS 31.

Filters and Refrigerators.

Ser. No. 257,225. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio. Filed Nov. 8, 1927.

ICYBALL

Particular description of goods.—Refrigerating Apparatus and Refrigerators.

Claims use since February, 1927.

Ser. No. 260,994. FESSLER MANUFACTURING COMPANY, Kansas City, Mo. Filed Feb. 1, 1928.

FEMCOLD

Particular description of goods.—Electric Refrigerators.

Claims use since Dec. 26, 1927.

CLASS 32.

Furniture and Upholstery.

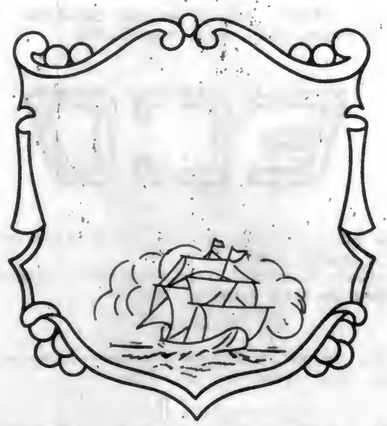
Ser. No. 259,205. JACOB N. GARFUNKLE, doing business as Reflecto Safety Razor Appliance Company, Clifton, Cincinnati, Ohio. Filed Dec. 21, 1927.

REFLECTO

Particular description of goods.—Safety-Razor Mirror Appliances.

Claims use since on or about Oct. 7, 1927.

Ser. No. 260,423. E. L. CHANDLER CORPORATION, Orleans, Vt. Filed Jan. 21, 1928.



Particular description of goods.—Furniture—Namely, Card Tables, Radio and End Tables, Console Tables, Piano Benches, Finished and Unfinished Breakfast-Room Tables and Chairs, Book Troughs, Smoker Cabinets and Tables, Magazine Racks, Desks, Hanging Shelves, Tea Wagons, Telephone Stands, Household Chairs, Bedsteads, Cedar Chests and Chests of Drawers, Bedroom Suites, and Martha Washington Sewing Cabinets.

Claims use since Sept. 1, 1927.

Ser. No. 260,424. E. L. CHANDLER CORPORATION, doing business as Orleans Furniture Co., Orleans, Vt. Filed Jan. 21, 1928.

ORLEANS FURNITURE CO. ORLEANS VT.

The words "Orleans Vt." are disclaimed apart from the other features of the mark.

Particular description of goods.—Furniture—Namely, Card Tables, Radio and End Tables, Console Tables, Piano Benches, Finished and Unfinished Breakfast-Room Tables and Chairs, Book Troughs, Smoker Cabinets and Tables, Magazine Racks, Desks, Hanging Shelves, Tea Wagons, Telephone Stands, Household Chairs, Bedsteads, Cedar Chests and Chests of Drawers, Bedroom Suites, and Martha Washington Sewing Cabinets.

Claims use since Sept. 1, 1927.

Ser. No. 260,707. ALBANY BOAT CORPORATION, Watervliet, N. Y. Filed Jan. 27, 1928.

COMMODORE

Particular description of goods.—Chairs Comprising Household, Office, and Deck Chairs.

Claims use since May 1, 1921.

Ser. No. 261,484. SALENA W. BROWN, Brooklyn, N. Y. Filed Feb. 10, 1928.



No claim is made to the word "Bedding" and to the representation of the goods apart from the mark shown in the drawing.

Particular description of goods.—Pillows and Mattresses.

Claims use since Jan. 15, 1928.

CLASS 33.

Glassware.

Ser. No. 261,743. DUPLEXALITE DIVISION OF THE MILLER COMPANY, Meriden, Conn. Filed Feb. 16, 1928.

IVRISTONE

Particular description of goods.—Glass Globes and Reflectors.

Claims use since Feb. 1, 1927.

Ser. No. 261,745. DUPLEXALITE DIVISION OF THE MILLER COMPANY, Meriden, Conn. Filed Feb. 16, 1928.

OPALSTONE

Particular description of goods.—Glass Globes and Reflectors.

Claims use since Feb. 1, 1927.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 238,431. THE DETROIT VAPOR STOVE CO., Detroit, Mich. Filed Oct. 11, 1926.

STAR

Particular description of goods.—Gas and Oil Stoves.

Claims use since June 9, 1919.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 244,034. THE TRIANGLE TIRE AND RUBBER COMPANY, Canton, Ohio. Filed Feb. 8, 1927.

FITS RITE

The words "Fits Rite" are disclaimed apart from the mark as shown.

Particular description of goods.—Inner Tubes for Automobile Tires.

Claims use since Jan. 19, 1927.

Ser. No. 257,315. ROMAC MOTOR ACCESSORIES, LIMITED, London, England. Filed Nov. 9, 1927.

ROMAC

Particular description of goods.—Tire and Tube Repair Kits, Blow-Out Patches, Tire Linings, Vulcanizing Canvas, Fabric Hose, and Canvas Belting.

Claims use since July 5, 1923.

Ser. No. 261,443. LAMBERT TIRE & RUBBER COMPANY, Barberton, Ohio. Filed Feb. 9, 1928.



Particular description of goods.—Pneumatic Tires.

Claims use since on or about July 30, 1927.

Ser. No. 261,548. BOSTON WOVEN HOSE & RUBBER COMPANY, Cambridge, Mass. Filed Feb. 11, 1928.

CYCLOPS

Particular description of goods.—Rubber Belting, Stitched Canvas Belting, and Rubber or Rubber and Fabric Hose.

Claims use since Jan. 1, 1910.

CLASS 38.

Prints and Publications.

Ser. No. 254,566. ASSOCIATION OF ELECTRAGISTS, INTERNATIONAL, New York, N. Y. Filed Sept. 10, 1927.

The Electragist

(The National Electrical Contractor and The Electrical Contractor-Dealer)

Particular description of goods.—Monthly Magazine.
Claims use since Nov. 1, 1924.

Ser. No. 260,321. CULVER MILITARY ACADEMY, Culver, Ind. Filed Jan. 19, 1928.

THE WOODCRAFTER

Particular description of goods.—Monthly Magazine.
Claims use since Nov. 1, 1923.

Ser. No. 260,790. F. C. ANDRESEN & ASSOCIATES, INC., Pittsburgh, Pa. Filed Jan. 28, 1928.

Fuels and Furnaces

Particular description of goods.—Monthly Magazine.
Claims use since on or about May, 1923.

Ser. No. 260,850. MARJORIE K. RAWLINGS, Rochester, N. Y. Filed Jan. 28, 1928.

Songs of a Housewife
BY MARJORIE K. RAWLINGS

No claim is made to the words "By Marjorie K. Rawlings" apart from the mark shown.
Particular description of goods.—Titles of Newspaper Sections or Features.
Claims use since May 24, 1926.

Ser. No. 260,906. NORTH AMERICAN DYE CORPORATION, Mount Vernon, N. Y. Filed Jan. 30, 1928.

COLOR NEWS

Particular description of goods.—House Organ Published Twice a Year.
Claims use since on or about Jan. 19, 1928.

Ser. No. 260,909. PLUMBERS TRADE JOURNAL PUBLISHING CO., New York, N. Y. Filed Jan. 30, 1928.

Wholesaler Salesman

Particular description of goods.—Trade Publication at Present Issued Monthly.
Claims use since about June 25, 1927.

Ser. No. 260,933. BOARD OF TRUSTEES OF THE PHILADELPHIA MUSEUMS, doing business as the Philadelphia Commercial Museum, Philadelphia, Pa. Filed Jan. 31, 1928.

AUTOMOTIVE REVIEW

Particular description of goods.—Magazine at Present Published Monthly.
Claims use since Jan. 5, 1928.

Ser. No. 261,027. WHITE'S QUAINT SHOP, Westfield, Mass. Filed Feb. 1, 1928.



Particular description of goods.—Boxes Containing Christmas, Birthday, Convalescent, Easter, and Other Greeting Cards, and Boxes Containing Books Including Dictionaries and Diaries, Calendars, Bridge Pads, Radio Indexes, Christmas Seals, and Bridge and Party Favors.
Claims use since September, 1924.

Ser. No. 261,166. CADILLAC MOTOR CAR COMPANY, Detroit, Mich. Filed Feb. 4, 1928.

THE CREST

Particular description of goods.—Printed Publication Published Monthly and at Other Intervals.
Claims use since Nov. 1, 1927.

Ser. No. 261,226. CONRAD E. WETTLAUFER, doing business as Town Tidings Company, Buffalo, N. Y. Filed Feb. 4, 1928.

TOWN TIDINGS

Particular description of goods.—Monthly Magazine.
Claims use since about June 1, 1927.

Ser. No. 261,261. KAPPA PHI KAPPA, Hanover, N. H. Filed Feb. 6, 1928.

THE OPEN BOOK

Particular description of goods.—Magazines Published Monthly.
Claims use since Oct. 1, 1922.

CLASS 39.

Clothing.

Ser. No. 233,845. ROLLINS HOSIERY MILLS, Des Moines, Iowa. Filed June 28, 1926.



The drawing is lined to indicate blue color.
Particular description of goods.—Hosiery.
Claims use since May 6, 1926.

Ser. No. 233,846. ROLLINS HOSIERY MILLS, Des Moines, Iowa. Filed June 28, 1926.



The drawing is lined to indicate brown color.
Particular description of goods.—Hosiery.
Claims use since May 6, 1926.

Ser. No. 242,875. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y. Filed Jan. 15, 1927.

Duo-Lustre

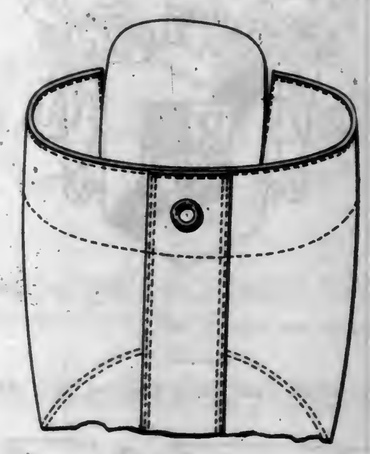
Particular description of goods.—Men's and Boys' Collars, Pajamas, Night Robes, Underwear of Textile Fabric, and Shirts—Namely, Dress, Negligee, and Work Shirts.
Claims use since July, 1926.

Ser. No. 244,402. IDEAL BATH ROBE CO. INC., Brooklyn, N. Y. Filed Feb. 15, 1927.

IDEAL

Particular description of goods.—Infants' and Children's Bath Robes, Buntings, and Sacques.
Claims use since about March, 1921.

Ser. No. 247,271. THE HUISKAMP BROS. CO., Keokuk, Iowa. Filed Apr. 11, 1927.



No exclusive use is claimed for the pictorial representation of the portion of the boot per se. The trade-mark consists of a white circle in the form of an eyelet arbitrarily applied at the top of the backstay of the goods named.
Particular description of goods.—Boots, Shoes, and Oxfords of Leather, Rubber, and Fabric and Combinations of Such Materials for Men and Women.
Claims use since Mar. 20, 1926.

Ser. No. 252,959. ALICE EASTON HARTER, doing business as Sunny Jeans Co., Berkeley, Calif. Filed Aug. 3, 1927.

SUNNY JEANS

No claim is made to the word "Jeans" apart from the mark as shown in the drawing.

Particular description of goods.—Child's Health Garment in the Nature of an Abbreviated Suit for Outer Wear.

Claims use since July 5, 1927.

Ser. No. 253,372. P. H. HANES KNITTING CO., Winston-Salem, N. C. Filed Aug. 12, 1927.

SAMSONBAK

Particular description of goods.—Knitted and Textile Union Suits, Undershirts and Drawers for Men, Women, and Children.

Claims use since July 1, 1927.

Ser. No. 253,630. ROTHSCHILD GREENFIELD CO., St. Louis, Mo. Filed Aug. 17, 1927.



Particular description of goods.—Hats and Caps for Men.

Claims use since June 15, 1927.

Ser. No. 255,545. BOFINGER & KLINGLER, INC., Oakland, Calif. Filed Oct. 3, 1927.



Particular description of goods.—Clothing—Namely, Sweaters.

Claims use since Apr. 1, 1927.

Ser. No. 256,771. FRIEDRICKS BROS. & CO., New York, N. Y. Filed Oct. 29, 1927.



Particular description of goods.—Coats for Misses and Women.

Claims use since July 1, 1927.

Ser. No. 256,800. THALYSIA PAUL GARMS GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Liepzig, Germany. Filed Oct. 29, 1927.

Thalysia

Particular description of goods.—Footwear—Namely, Shoes Made of Leather and Shoes Made of Leather Having Rubber Soles, for Men, Women, and Children, and Wearing Apparel—Namely, Corsets and Brassières.

Claims use since September, 1907.

Ser. No. 257,902. A. STEIN & COMPANY, Chicago, Ill. Filed Nov. 21, 1927.

Ivory

Particular description of goods.—Garters.

Claims use since Dec. 1, 1910.

Ser. No. 257,913. ANNETTA WAIST & DRESS CO. INC., New York, N. Y. Filed Nov. 22, 1927.

Sorority Frocks

Applicant disclaims the word "Frocks" apart from the mark as shown on the drawing.

Particular description of goods.—Women's, Misses', and Children's Gowns, Dresses, Wraps, and Coats.

Claims use since Oct. 1, 1926.

Ser. No. 258,046. ROYAL MANUFACTURING COMPANY, Allentown, Pa. Filed Nov. 25, 1927.

CHARACTER UNDERWEAR

No claim is made to the word "Underwear" shown on the mark apart from the association shown on the drawing.

Particular description of goods.—Men's Union Athletic Textile-Fabric Underwear.

Claims use since July 1, 1927.

Ser. No. 258,655. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 8, 1927.

Jiffy

Particular description of goods.—Gaiters.

Claims use since July 1, 1924.

Ser. No. 258,933. ALLEN-SPIEGEL SHOE MFG. CO., Belgium, Wis. Filed Dec. 15, 1927.

Nailess
Osteo-heel
Cushioned

Exclusive use of the words "Nailess," "Heel," and "Cushioned" are disclaimed.

Particular description of goods.—Shoes Made of Leather and of Cloth or Canvas or Combinations of These Materials.

Claims use since Aug. 1, 1927.

Ser. No. 259,571. NATIONAL TEXTILE DISTRIBUTORS CORPORATION, New York, N. Y. Filed Dec. 31, 1927.

SER-VAL

Particular description of goods.—Men's and Boys' Outer Wear—Namely, Dress and Work Shirts, Blouses, and Waists Made of Cotton, Wool, and Rayon and Combinations Thereof, Overalls, Collars, Neckties, and Belts; Women's and Children's Outer Wear—Namely, Dresses, Aprons, and Waists; and Women's and Children's Underwear—Namely, Corsets, Brassières, Gowns, and Garters; and Fabric Gloves for Men, Women, and Children.

Claims use since Mar. 1, 1926.

Ser. No. 259,938. B-Z-B KNITTING CO., Rockford, Ill. Filed Jan. 11, 1928.

Manikin

Particular description of goods.—Knit Goods—Namely, Hosiery.

Claims use since Nov. 5, 1927.

Ser. No. 260,234. ANDREW W. NELSON, doing business as The Onlie Shoe Company, Quincy, Mass. Filed Jan. 17, 1928.

The ONLIE GOLF SHOE

No claim is made to the words "The" and "Golf Shoe" apart from the mark as shown.

Particular description of goods.—Boots and Shoes of Leather and Combinations of Leather, Fabric, and Rubber.

Claims use since Dec. 17, 1927.

Ser. No. 260,361. SONNEBORN BROTHERS, INC., New York, N. Y. Filed Jan. 19, 1928.



Particular description of goods.—Men's and Young Men's Coats, Vests, Trousers, and Overcoats.

Claims use since Oct. 17, 1927.

Ser. No. 260,407. JACOB ROMBRO, doing business as Rombro Brothers, Baltimore, Md. Filed Jan. 20, 1928.

COMMANDER

Particular description of goods.—Men's and Boys' Work Shirts.

Claims use since Oct. 1, 1927.

Ser. No. 260,438. FASHION PARK INCORPORATED, Rochester, N. Y. Filed Jan. 21, 1928.

LUNDHA

Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.
Claims use since about Nov. 1, 1927.

Ser. No. 260,797. CARTER DRY GOODS COMPANY, Louisville, Ky. Filed Jan. 28, 1928.

JACKNIT

Particular description of goods.—Hosiery.
Claims use since July 1, 1913.

Ser. No. 261,012. LULU BELLE HOUSE FROCKS, Philadelphia, Pa. Filed Feb. 1, 1928.



Particular description of goods.—Ladies' House Dresses.
Claims use since on or about July 1, 1927.

Ser. No. 261,023. C. B. SHANE CO., Chicago, Ill. Filed Feb. 1, 1928.

Lamgora Dew

Particular description of goods.—Men's Overcoats and Topcoats.
Claims use since prior to Dec. 1, 1927.

Ser. No. 261,061. IPSWICH MILLS, Ipswich, Mass. Filed Feb. 2, 1928.

Lorduna

Particular description of goods.—Hosiery.
Claims use since Jan. 17, 1928.

Ser. No. 261,152. STERN & KELLNER, New York, N. Y. Filed Feb. 3, 1928.



Particular description of goods.—Leather Shoes.
Claims use since Dec. 15, 1927.

Ser. No. 261,235. BLUE BUCKLE OVERALL CO., INC., Lynchburg, Va. Filed Feb. 6, 1928.

OLD GOLD

Particular description of goods.—Men's, Youths', and Boys' Overalls and Coats.
Claims use since Feb. 1, 1928.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 256,275. ABBOLOID NOVELTY COMPANY, Chicago, Ill. Filed Oct. 19, 1927.

ABBOLOID

Particular description of goods.—Novelty Products Made of Pyralin—Namely, Belt Buckles, Belt Buckles with Chain Attached.
Claims use since July 1, 1926.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 234,601. WARWICK MILLS, Centerville, R. I., and Boston, Mass. Filed July 15, 1926.

2390

Particular description of goods.—Two-Ply Cotton-Yarn Marquisette.
Claims use since December, 1922.

Ser. No. 257,403. COUDURIER, FRUCTUS & DESCHER, Lyon, France. Filed Nov. 11, 1927.

MONGOL

Particular description of goods.—Silk Piece Goods.
Claims use since Oct. 31, 1912.

Ser. No. 259,515. J. J. WYLE & BROS., INC., New York, N. Y. Filed Dec. 30, 1927.

"WORTH-WYLE"

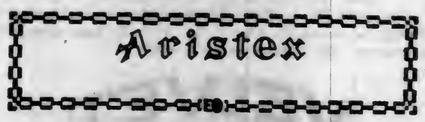
Particular description of goods.—Ribbons and Laces in the Piece.
Claims use since Oct. 28, 1927.

Ser. No. 259,570. NATIONAL TEXTILE DISTRIBUTORS CORPORATION, New York, N. Y. Filed Dec. 31, 1927.

SER-VAL

Particular description of goods.—Textile Blankets, Sheets, Pillowcases, Bed Covers, and Quilts.
Claims use since Mar. 1, 1926.

Ser. No. 260,383. A. S. HERRMANN, INC., New York, N. Y. Filed Jan. 20, 1928.



Particular description of goods.—Table Linens, Towels, Sheets, Pillowcases, Bedspreads, Doilies, Card-Table Sets and Scarfs of Linen, Napkins, Luncheon Sets, Bolster Cases, Bolster Shams, Breakfast Sets, Tea Sets, and Dinner Sets of Linen.
Claims use since 1924.

Ser. No. 260,461. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed Jan. 21, 1928.

The Warmth That Never Fails

Particular description of goods.—Wool Blankets.
Claims use since June 11, 1923.

Ser. No. 260,462. PENDLETON WOOLEN MILLS, Portland, Oreg. Filed Jan. 21, 1928.

Zion National Park Blanket

The word "Blanket" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
Particular description of goods.—Woolen Blankets.
Claims use since Sept. 1, 1926.

Ser. No. 260,641. H. R. MALLINSON & COMPANY, INC., New York, N. Y. Filed Jan. 25, 1928.

Playgrounds of the World

Particular description of goods.—Silk Piece Goods and Silk Mixed Piece Goods.
Claims use since Nov. 1, 1926.

Ser. No. 260,796. BUTLER BROTHERS, Chicago, Ill. Filed Jan. 28, 1928.

UNCLE SAM

Particular description of goods.—Handkerchiefs.
Claims use since Dec. 1, 1927.

Ser. No. 260,798. CARTER DRY GOODS COMPANY, Louisville, Ky. Filed Jan. 28, 1928.



Particular description of goods.—Cotton Piece Goods and Muslins in the Piece.
Claims use since Jan. 6, 1928.

Ser. No. 261,279. ORIENTAL SILK PRINTING COMPANY, Haledon, N. J. Filed Feb. 6, 1928.



The word "Prints" is disclaimed apart from the mark shown.
Particular description of goods.—Textile Fabrics—Namely, Silk, Artificial Silk, Wool, and Cotton and Combinations Thereof.
Claims use since Dec. 1, 1927.

Ser. No. 261,350. CHENEY BROTHERS, South Manchester, Conn. Filed Feb. 8, 1928.

Evenada

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Jan. 30, 1928.

Ser. No. 261,368. LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Feb. 8, 1928.

Angomoray

Particular description of goods.—Piece Goods, Being a Fabric with a Warp of Cotton, or of Cotton and Mohair Mixed, or of Cotton and Silk Mixed, or of Cotton and Artificial Silk Mixed, and a Filling of Wool, or Cotton, or Mohair, or Alpaca, or Silk, or Artificial Silk, Singly or Combined.
Claims use since Oct. 3, 1927.

Ser. No. 261,544. WILLIAM E. WRIGHT AND SONS COMPANY, Orange, N. J. Filed Feb. 10, 1928.



Particular description of goods.—Ribbons, Silks, Cottons, Linens, Woolens, and Combinations Thereof in the Piece.
Claims use since Nov. 21, 1927.

Ser. No. 261,825. MENKE, KAUFMANN & CO. INC., New York, N. Y. Filed Feb. 17, 1928.

Seven Arts

Particular description of goods.—Silk in the Piece.
Claims use since Feb. 11, 1928.

CLASS 43.

Thread and Yarn.

Ser. No. 260,794. BELDING HEMINWAY COMPANY, New York, N. Y. Filed Jan. 28, 1928.



Particular description of goods.—Silk Thread.
Claims use since September, 1918.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 260,610. M. J. WOHL & CO. INC., New York, N. Y. Filed Jan. 24, 1928.

CLINICAL SUN

No claim is made to the word "Clinical" apart from the mark shown in the drawing.
Particular description of goods.—Arc Lamps Used for Medical Purposes.
Claims use since May 1, 1927.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 241,160. THE INTERNATIONAL COMPANY, by change of name to The C. M. Pitt & Sons Company. Baltimore, Md. Filed Dec. 8, 1926.



Particular description of goods.—Sirups and Nonalcoholic, Maltless Beverages, Composed of Sirup and Carbonated Water, Nonalcoholic, Maltless Fruit Juices, and Extracts and Sirups for Making Soft Drinks.
Claims use since Apr. 15, 1919, on sirups and nonalcoholic, maltless beverages composed of sirup and carbonated water, and since 1914, on nonalcoholic, maltless fruit juices, extracts and sirups for making soft drinks.

Ser. No. 260,342. MONARCH BEVERAGE COMPANY, Chicago, Ill. Filed Jan. 19, 1928.

CHI-DRY.

No claim is made to the word "Dry" apart from the mark shown in the drawing.
Particular description of goods.—Ginger Ale.
Claims use since Dec. 20, 1926.

Ser. No. 261,057. HINCKLEY & SCHMITT, Chicago, Ill. Filed Feb. 2, 1928.

Hylo

Particular description of goods.—Mineral Water, Ginger Ale, and Root Beer.
Claims use since December, 1927.

Ser. No. 261,421. THE CLEVELAND-SANDUSKY COMPANY, Cleveland, Ohio. Filed Feb. 9, 1928.

JOHNNY BULL

Particular description of goods.—Ginger Beer.
Claims use since Jan. 5, 1928.

Ser. No. 261,506. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Filed Feb. 10, 1928.

Home

Particular description of goods.—Grape Juice.
Claims use since Jan. 1, 1914.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 191,658. SANTIAGO LOPEZ BARREDO S. A., Santander, Spain. Filed Jan. 30, 1924.



No claim is made to the words "Brand," "Santander" or "Espana."
Particular description of goods.—Preserved Fish.
Claims use since Dec. 7, 1923.

Ser. No. 210,044. W. CLARK, LIMITED, Montreal, Quebec, Canada. Filed Feb. 24, 1925.



The lining of drawing conventionally represents light blue and gold border, and the black portion represents dark blue. The word "Sauce" is disclaimed apart from the trade-mark as shown in the drawing. The words "Purity and Quality" are disclaimed.
Particular description of goods.—Sauces in the Nature of a Condiment for Relishing Meats Cold or Hot.
Claims use since Jan. 15, 1925.

Ser. No. 237,553. MITCHEL L. KALICH, doing business as M. L. Kalich & Company, Watsonville, Calif. Filed Sept. 22, 1926.

LION

Particular description of goods.—Fresh Fruits—Namely, Apples; Fresh Vegetables—Namely, Lettuce.
Claims use since Apr. 1, 1910.

Ser. No. 244,186. SCHLOSS & KAHN GROCERY CO., Montgomery, Ala. Filed Feb. 10, 1927.

SUNDAY DINNER SATISFY DISCRIMINATING PEOPLE PRODUCTS

No claim is made to the exclusive use of the words except "Sunday Dinner" appearing on the drawing separate and apart from the mark shown in the drawing.

The mark consists of the term "Sunday Dinner Products" associated with the slogan "Satisfy Discriminating People" and with the capital letters "S D P" performing the double function of the initial letters of the words "Sunday Dinner Products" and also the initial letters of the slogan "Satisfy Discriminating People," as combined on the drawing. The words "Satisfy Discriminating People" are horizontal and the other words extend diagonally, and below the word "Satisfy" and between the words "Dinner" and "Products" appears a small ornamental design.

Particular description of goods.—Canned Fruits, Canned Vegetables, Rolled Oats, Hominy Grits, Dried Prunes, Apple Butter, Honey, Cranberry Sauce, Jelly, Fruit Preserves, Mincemeat, Olives, Catsup, Pickles, Chili Sauce, Vienna Sausage, Oyster-Cocktail Sauce, Vegetable Relish, Chowchow Relish, Tea, Horse-Radish, Peanut Butter, Cane Syrup, Mayonnaise, Sandwich Filling Composed of Mayonnaise and Vegetable Chopped Salad, Thousand Island Dressing, Tomato Sauce, Pineapple Juice Used for Flavoring, Chipped Beef, Boned Chicken, Evaporated Milk, Canned Herring Roe.

Claims use since August, 1924.

Ser. No. 244,278. THE BEST-CLYMER CO., St. Louis, Mo. Filed Feb. 12, 1927.

SHADY DELL

Particular description of goods.—Apple Butter, Apple-Pectin Jelly, Imitation Apricot Jam, and Sweet Mixed Pickles.

Claims use since on or about Sept. 1, 1919.

Ser. No. 245,141. CITRUS FRUIT ASSOCIATION OF ONTARIO, Ontario, Calif. Filed Mar. 3, 1927.

BEAR

Particular description of goods.—Fresh Citrus Fruit—Namely, Oranges and Grapefruit.

Claims use since 1896.

Ser. No. 250,849. LIMONEIRA COMPANY, Santa Paula, Calif. Filed June 21, 1927. Under 10-year proviso.

SELECTED

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.

Claims use since Jan. 3, 1892.

Ser. No. 251,499. HAMMOND STANDISH & COMPANY, Detroit, Mich. Filed July 5, 1927. Under 10-year proviso.

GREENFIELD

Particular description of goods.—Lard, Sauerkraut; Meats—Namely, Barrel Pork, Dried Beef, Cooked Hams, Pork Loins, Picnics, Pig Tongues, Pig Pork, Breakfast Bacon, Breakfast Sausage, Sausage Meat, Rollettes, and Cottage Rolls.

Claims use since 1880.

Ser. No. 252,370. BESSIE NOLAND DAVISS, doing business as Shamrock Cordial Co., Austin, Tex. Filed July 21, 1927.

SHAMROCK CORDIAL

Applicant disclaims the right to the exclusive use of the word "Cordial" apart from the mark shown.

Particular description of goods.—Frozen Cordials.

Claims use since Mar. 4, 1925.

Ser. No. 253,576. CLAREMONT CITRUS ASSOCIATION, Claremont, Calif. Filed Aug. 17, 1927.

STORK



Particular description of goods.—Fresh Citrus Fruits.

Claims use since 1899.

Ser. No. 256,052. NUTRENA FEED MILLS, INC., Kansas City, Kans. Filed Oct. 13, 1927.

Nutrena

The mark comprises the word "Nutrena" within a hexagonal border, said word and border being imprinted on a golden background. The representation of a bag apart from the mark shown is hereby disclaimed.

Particular description of goods.—Stock and Poultry Feeds.

Claims use since June 10, 1926.

Ser. No. 256,071. ARTHUR BERSCH, doing business as Bersch Candy Company, Winneconne, Wis. Filed Oct. 14, 1927.

Fruiteaser

Particular description of goods.—Candy.

Claims use since June 22, 1927.

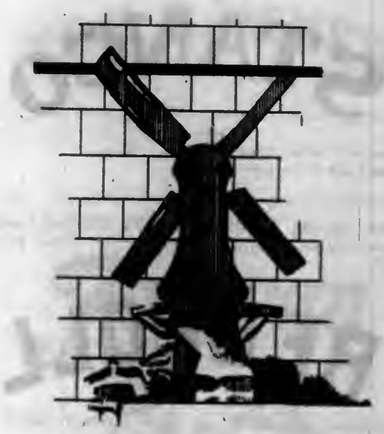
Ser. No. 257,064. GULF & VALLEY COTTON OIL CO., LTD., Gretna, La. Filed Nov. 4, 1927.

CARDINAL

Particular description of goods.—Lard Substitutes, Semisolid Products Resembling Lard in Appearance Made by Mixing Liquid Oil and Hydrogenated Oil or Animal Fats, and Cooking and Salad Oils Made from Cottonseed Oil and/or Other Vegetable Oils.

Claims use since Sept. 23, 1927.

Ser. No. 258,354. RED SUN PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 2, 1927.



Particular description of goods.—Malt Syrup.

Claims use since June, 1920.

Ser. No. 258,653. SAWDEY & HUNT, Los Angeles, Calif. Filed Dec. 8, 1927.

BLUE BOY

Particular description of goods.—Fresh Vegetables—Namely, Carrots and Cauliflower.

Claims use since Apr. 5, 1923.

Ser. No. 258,937. CALIFORNIA FRUIT CONFECTIONS COMPANY, INC., also doing business as California Fruit Confection Co., Camarillo, Calif. Filed Dec. 15, 1927.

CAL-FECTO

Particular description of goods.—Crystallized Citrus Peel and Fruit Confections.

Claims use since June 15, 1927.

Ser. No. 259,222. STANDARD RICE COMPANY, INC., Houston, Tex. Filed Dec. 21, 1927.

BLUE BONNET

Particular description of goods.—Rice.

Claims use since Dec. 1, 1926.

Ser. No. 259,223. STANDARD RICE COMPANY, INC., Houston, Tex. Filed Dec. 21, 1927.

STANCO

Particular description of goods.—Rice.
Claims use since Dec. 1, 1926.

Ser. No. 259,398. DULUTH-SUPERIOR MILLING COMPANY, Duluth, Minn., and New York, N. Y. Filed Dec. 28, 1927.

REDPOLL

Particular description of goods.—Wheat Mixed and Other Stock Feed.
Claims use since Nov. 9, 1927.

Ser. No. 259,403. GRIFFITH-DURNEY CO., San Francisco, Calif. Filed Dec. 28, 1927.

RUBICON

Particular description of goods.—Canned Fruits and Canned Fish.
Claims use since March, 1903, on canned fruits and vegetables and since March, 1898, on canned fish.

Ser. No. 259,424. ROCKY HILL CORPORATION, Exeter, Calif. Filed Dec. 28, 1927.

EMBLEM

Particular description of goods.—Fresh Deciduous Fruits.
Claims use since September, 1925.

Ser. No. 259,591. DAVID ROBBINS, Brooklyn, N. Y. Filed Dec. 31, 1927.

BLUE RIBBON

Particular description of goods.—Chewing Gum.
Claims use since May 2, 1927.

Ser. No. 259,616. THE BETTER APPLES CO., INC., Yakima, Wash. Filed Jan. 3, 1928.

Better Apples BA

The words "Better Apples" and the representation of the goods form a part of the registration sought only in association with the other features of the mark shown in the drawing.
Particular description of goods.—Fresh Apples.
Claims use since Oct. 28, 1927.

Ser. No. 259,762. CONSOLIDATED BAKERS SERVICE, Greenville, S. C. Filed Jan. 6, 1928.

Brownie Products

The lining shown on the drawing is for shading only, the word "Products" being disclaimed except with the accompanying features.
Particular description of goods.—Cakes.
Claims use since June 1, 1927.

Ser. No. 259,770. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Jan. 6, 1928.

Country Club

Particular description of goods.—Coffee, Tea, Spices, Food-Flavoring Extracts, and Jelly Powder.
Claims use since Apr. 1, 1901.

Ser. No. 259,846. D. F. DE BERNARDI & CO. INC., San Francisco, Calif. Filed Jan. 9, 1928.

LUNETA

Particular description of goods.—Cheese.
Claims use since Sept. 15, 1925.

Ser. No. 260,259. S. COHEN & COMPANY, INC., Fort Fairfield, Me. Filed Jan. 18, 1928.

C

Particular description of goods.—Potatoes in Their Natural State.
Claims use since January, 1920.

Ser. No. 260,299. UNITED STATES PRODUCTS CORPORATION, San Jose, Calif. Filed Jan. 18, 1928.

ORANGE DEW

No claim is made to the descriptive word "Orange" appearing in the drawing.
Particular description of goods.—Canned Fruit Salad.
Claims use since Dec. 20, 1927.

Ser. No. 260,381. JOSEPH W. DUBRAKE, Houston, Tex. Filed Jan. 20, 1928.



Particular description of goods.—Frozen Confections.
Claims use since Jan. 14, 1928.

Ser. No. 260,406. QUEEN ANNE CANDY COMPANY, Hammond, Ind. Filed Jan. 20, 1928.

Queen High

Particular description of goods.—Candy.
Claims use since Nov. 1, 1927.

Ser. No. 260,434. ELMORE MILLING COMPANY, Oneonta, N. Y. Filed Jan. 21, 1928.



The cross lining of drawing does not denote color. No claim is made to the exclusive right to use the representation of a chicken except in the association shown.
Particular description of goods.—Chicken Feed.
Claims use since Jan. 3, 1928.

Ser. No. 260,479. WILLITS, GREEN & MARSTON, Los Angeles, Calif. Filed Jan. 21, 1928.

TOM SAWYER

Particular description of goods.—Peanut Butter.
Claims use since Aug. 1, 1926.

Ser. No. 260,537. TWIN CITY WHOLESALE GROCER CO., St. Paul, Minn. Filed Jan. 23, 1928.

Fairway



The lining for color shown on the drawing is for shading only.
Particular description of goods.—Wheat Flour.
Claims use since Jan. 6, 1928.

Ser. No. 260,548. THE BECKER BAKING COMPANY, Baltimore, Md. Filed Jan. 24, 1928.

READING MAID BUTTER PRETZEL

No claim is made to the words "Butter Pretzel" nor to the representation of a pretzel apart from the mark shown.
Particular description of goods.—Pretzels.
Claims use since Nov. 1, 1927.

Ser. No. 260,825. HOFFMANN-HAYMAN COFFEE CO., San Antonio, Tex. Filed Jan. 28, 1928.

Sam Houston



The portrait shown is that of Sam Houston, deceased.
Particular description of goods.—Coffee.
Claims use since August, 1926.

Ser. No. 260,866. THE WILLIAMSON-HALSELL-FRASIER CO., Oklahoma City, Okla. Filed Jan. 28, 1928.

BELLE ISLE

Particular description of goods.—Canned Fish, Canned Fruits, Canned Vegetables, Canned Berries, Canned Hominy, and Canned Sauerkraut.
Claims use since 1907.

Ser. No. 260,941. C. B. FOSTER PACKING CO., INC., Biloxi, Miss. Filed Jan. 31, 1928.

GULFMEX

Particular description of goods.—Canned Oysters.
Claims use since 1916.

Ser. No. 260,960. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed Jan. 31, 1928.

ROKEACH
PURE FRUIT
PRESERVES

No claim is made to the words "Pure Fruit Preserves" appearing on the drawing. The Hebrew word is "Rokeach."
Particular description of goods.—Fruit Preserves—Namely, Strawberry, Cherry, Raspberry, and Marmalade.
Claims use since Nov. 8, 1926.

Ser. No. 261,086. WEATHERSBY-BRUNNER CO., Memphis, Tenn. Filed Feb. 2, 1928.

WHITE MULE

Particular description of goods.—Coffee.
Claims use since Dec. 28, 1927.

Ser. No. 261,147. RICHMOND-CHASE COMPANY, San Jose, Calif. Filed Feb. 3, 1928.

Quality Inn

Particular description of goods.—Canned Vegetables.
Claims use since Dec. 12, 1923.

Ser. No. 261,193. HOFFMANN-HAYMAN COFFEE CO., San Antonio, Tex. Filed Feb. 4, 1928.

MENGER





The portrait is that of William A. Menger, deceased, a former noted hotel proprietor of San Antonio, Tex.
Particular description of goods.—Coffee.
Claims use since January, 1923.

Ser. No. 261,356. ALBERT J. DURNIL, Los Angeles, Calif. Filed Feb. 8, 1928.

SEAIR

Particular description of goods.—Fresh Vegetables—Namely, Tomatoes, Celery, Cauliflower, Lettuce, Chicory, Carrots; Fresh Deciduous Fruits—Namely, Peaches, Pears, Apples, Grapes; Fresh Citrus Fruits—Namely, Lemons, Oranges, Grapefruit; and Fresh Cantaloupes.
Claims use since Sept. 21, 1927.

Ser. No. 261,383. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, San Francisco, Calif. Filed Feb. 8, 1928.

Gold 'N White

Particular description of goods.—Eggs.
Claims use since Dec. 19, 1927.

Ser. No. 261,402. SUNSET PRODUCE CO., San Francisco, Calif. Filed Feb. 8, 1928.

CHALET

Particular description of goods.—Fresh Deciduous Fruits and Fresh Citrus Fruits.
Claims use since Aug. 31, 1926.

Ser. No. 261,493. EASTERN CONNECTICUT POULTRY PRODUCERS, INC., Willimantic, Conn. Filed Feb. 10, 1928.



Particular description of goods.—Eggs.
Claims use since Mar. 15, 1928.

Ser. No. 261,545. AMERICAN CONE AND PRETZEL COMPANY, Philadelphia, Pa. Filed Feb. 11, 1928.

Chop Sticks

Particular description of goods.—Pretzels.
Claims use since Jan. 17, 1928.

CLASS 48.

Malt Beverages and Liquors.

Ser. No. 242,822. WALLERSTEIN COMPANY, INC., New York, N. Y. Filed Jan. 3, 1927.

DRIHOP

Particular description of goods.—Liquid Hop Flavoring for Malt Beverages.
Claims use since Oct. 11, 1926.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 259,453. MERCANTILE PRODUCTS CO., St. Louis, Mo. Filed Dec. 29, 1927.

THE "SPIRIT OF ST. LOUIS"



Particular description of goods.—Ethyl Alcohol and Whiskey.
Claims use since June 1, 1927.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 256,172. BRONSTON BROS. AND CO. INC., New York, N. Y. Filed Oct. 17, 1927.

WATERIZED

Particular description of goods.—Waterproof Products as Follows: Cotton, Cotton and Wool, Wool Rayon, Rayon and Cotton Fabrics in the Piece, Woven Straw Fabrics in the Piece, Silks and Woolens in the Piece.
Claims use since Jan. 1, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MARCH 27, 1928.

240,331. HOUSE ORGAN APPEARING FROM TIME TO TIME. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed December 9, 1927. Serial No. 258,685. PUBLISHED JANUARY 17, 1928. Class 38.

240,332. A PROPHYLACTIC MOUTH WASH. RARE CHEMICALS INC., New York, N. Y.
Filed December 8, 1927. Serial No. 258,652. PUBLISHED JANUARY 17, 1928. Class 6.

240,333. MAGAZINE FORMERLY PUBLISHED MONTHLY BUT NOW PUBLISHED AT IRREGULAR INTERVALS. MARINELLO COMPANY, New York, N. Y.
Filed December 8, 1927. Serial No. 258,641. PUBLISHED JANUARY 17, 1928. Class 38.

240,334. A PERIODICAL PUBLICATION. ANDREW GEYER INC., New York, N. Y.
Filed December 8, 1927. Serial No. 258,632. PUBLISHED JANUARY 17, 1928. Class 38.

240,335. TABLETS FOR THE TREATMENT OF SORE THROAT, COUGHS, COLDS, HOARSENESS, BRONCHIAL AND THROAT AFFECTIONS. LABORATOIRE DE PHARMACOLOGIE, INC., New York, N. Y.
Filed December 6, 1927. Serial No. 258,550. PUBLISHED JANUARY 17, 1928. Class 6.

240,336. A PREPARATION FOR THE TREATMENT OF VENEREAL DISEASES. CHOW DICK BOUNE, New York, N. Y.
Filed December 6, 1927. Serial No. 258,513. PUBLISHED JANUARY 17, 1928. Class 6.

240,337. A PREPARATION FOR THE TREATMENT OF SKIN DISEASES. MUNSCH-PROTZMANN CO., New York, N. Y.
Filed December 5, 1927. Serial No. 258,480. PUBLISHED JANUARY 17, 1928. Class 6.

240,338. PERIODICALS PUBLISHED MONTHLY. PERSONAL ARTS COMPANY, doing business as Robert Collier and Robert Collier, Inc., Scranton, Pa.
Filed December 3, 1927. Serial No. 258,425. PUBLISHED JANUARY 17, 1928. Class 38.

240,339. DAILY NEWSPAPER. THE DAILY PANTAGRAPH, Bloomington, Ill.
Filed December 3, 1927. Serial No. 258,404. PUBLISHED JANUARY 17, 1928. Class 38.

240,340. MONTHLY PUBLICATION. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn.
Filed December 1, 1927. Serial No. 258,258. PUBLISHED JANUARY 17, 1928. Class 38.

240,341. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France.
Filed November 29, 1927. Serial No. 258,165. PUBLISHED JANUARY 17, 1928. Class 6.

240,342. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET, FACE CREAMS, BATH SALTS, ROUGE, LIP STICKS, BRILLIANTINE. RALLET CORPORATION OF AMERICA, Wilmington, Del., and New York, N. Y.
Filed November 26, 1927. Serial No. 258,098. PUBLISHED JANUARY 3, 1928. Class 6.

240,343. PUBLICATION ISSUED FROM TIME TO TIME. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed November 22, 1927. Serial No. 257,925. PUBLISHED JANUARY 10, 1928. Class 38.

240,344. MAPS. AUTOMOBILE OWNERS ASSOCIATION OF AMERICA, Baltimore, Md.
Filed November 21, 1927. Serial No. 257,851. PUBLISHED JANUARY 17, 1928. Class 38.

240,345. PRINTED CIRCULARS ISSUED MONTHLY. CHEVROLET MOTOR COMPANY, Detroit, Mich.
Filed November 19, 1927. Serial No. 257,784. PUBLISHED JANUARY 10, 1928. Class 38.

240,346. MEDICINAL PREPARATIONS, ETC. HANS A. BÖDE, doing business as Royal Hawaiian Laboratories, Honolulu, Territory of Hawaii.
Filed November 17, 1927. Serial No. 257,659. PUBLISHED JANUARY 17, 1928. Class 6.

240,347. HOUSE ORGAN. FRED W. KAEMPFER, doing business as Kaempfer's, Chicago, Ill.
Filed November 16, 1927. Serial No. 257,630. PUBLISHED JANUARY 17, 1928. Class 38.

240,348. PLASTERS FOR THE TREATMENT OF BOILS, PIMPLES, SKIN INFECTIONS, AND BLOOD POISONING. CARL F. GEZELIUS, doing business as L. I: Son Gezelius, Hulan (Dalarne), Sweden, Chicago, Ill.
Filed November 10, 1927. Serial No. 257,356. PUBLISHED JANUARY 17, 1928. Class 6.

240,349. COUGH SYRUP. THE E. L. PATCH COMPANY, Stoneham, Mass.
Filed November 9, 1927. Serial No. 257,307. PUBLISHED JANUARY 17, 1928. Class 6.

240,350. MAGAZINE SECTION. INTERNATIONAL MAGAZINE COMPANY, INC., New York, N. Y.
Filed November 8, 1927. Serial No. 257,237. PUBLISHED JANUARY 10, 1928. Class 38.

240,351. SALVES FOR THE SKIN AND BODY FOR RELIEVING PAIN AND A REMEDY FOR BURNS, BRUISES, WOUNDS, CONTUSIONS, ABRASIONS, ULCERS, AND INFLAMED CONDITIONS OF SKIN AND MUCOUS MEMBRANE. THE KIP CORPORATION, Los Angeles, Calif.
Filed November 2, 1927. Serial No. 256,944. PUBLISHED JANUARY 17, 1928. Class 6.

240,352. STOCK MEDICINE. CHARLES GARRETT COOLEY, Comus, Md.
Filed October 26, 1927. Serial No. 256,608. PUBLISHED JANUARY 17, 1928. Class 6.

240,353. TONIC PILL USED AS LAXATIVE AND AS MEDICINE FOR ANEMIA CHLOROSIS, DEBILITY, NERVOUS DYSPEPSIA, AND IMPOTENCE SENILE. VITA-RICA PHARMACAL CO., INC., New York, N. Y.
Filed September 15, 1927. Serial No. 254,768. PUBLISHED JANUARY 17, 1928. Class 6.

240,354. MONTHLY PUBLICATION. OCCIDENTAL PUBLISHING COMPANY, Los Angeles, Calif.
Filed September 14, 1927. Serial No. 254,716. PUBLISHED JANUARY 17, 1928. Class 38.

240,355. CIGARS, CIGARETTES, SMOKING TOBACCO, CHEWING TOBACCO, AND SNUFF. DE NOBILI CIGAR COMPANY, New York, N. Y.
Filed August 30, 1927. Serial No. 254,128. PUBLISHED JANUARY 24, 1928. Class 17.

240,356. WHEAT FLOUR. EMPIRE MILLING COMPANY, Minneapolis, Minn.
Filed July 6, 1925. Serial No. 216,900. PUBLISHED OCTOBER 20, 1925. Class 46.

240,357. DECALCOMANIA TRANSFERS, TRANSFER SIGNS, SIGNS IMPRINTED ON SMOOTH SURFACES BY MEANS OF PIECES OF SILK FABRIC IMPREGNATED WITH COLORED OIL PAINTS. PARKER & WATERMAN MANUFACTURING CO., Los Angeles, Calif.
Filed January 30, 1926. Serial No. 226,677. PUBLISHED JANUARY 10, 1928. Class 38.

240,358. FACE CREAMS. DON-ARK COMPANY, Cleveland, Ohio.
Filed June 1, 1926. Serial No. 232,583. PUBLISHED JANUARY 17, 1928. Class 6.

240,359. MEDICINAL PREPARATION USED AS A WORM SPECIFIC AND HEALTH BUILDER FOR POULTRY AND DOMESTIC FOWL. BARNES EMULSION CO., San Francisco, Calif.
Filed July 21, 1926. Serial No. 234,814. PUBLISHED JANUARY 17, 1928. Class 6.

240,360. FACE CREAM, ANTISEPTIC OINTMENT FOR SKIN ERUPTIONS, HAIR TONIC, BATH SALT, AND TOOTH PASTE. JOSEPH GUTRADT COMPANY, San Francisco, Calif.
Filed October 6, 1926. Serial No. 238,223. PUBLISHED JANUARY 17, 1928. Class 6.

240,361. TOILET REQUISITES—NAMELY, HAIR TONIC, HAIR DRESSING, SHAMPOO, TOILET WATER, MASSAGE CREAM, TALCUM POWDER, NAIL POLISH, PREPARATION FOR REMOVING CUTICLE, AND PERFUME. THE ODELL COMPANY, INC., Newark, N. J.
Filed November 1, 1926. Serial No. 239,540. PUBLISHED FEBRUARY 8, 1927. Class 6.

240,362. ANNUAL PUBLICATIONS. INTER-TRIBAL INDIAN CEREMONIAL ASSOCIATION, Gallup, N. Mex.
Filed November 3, 1926. Serial No. 239,620. PUBLISHED JANUARY 10, 1928. Class 38.

240,363. MEN'S, WOMEN'S, CHILDREN'S, AND INFANTS' HOSIERY. DAVID HILLMAN, doing business as Hillman Dry Goods Company, Orlando, Fla.
Filed November 4, 1926. Serial No. 239,655. PUBLISHED DECEMBER 6, 1927. Class 39.

240,364. A TONIC—NAMELY, A LIQUID RATION PREPARED FROM VEGETABLE JUICES FOR DISORDERS OF THE KIDNEYS. THE AGMEL CORPORATION, Los Angeles, Calif.
Filed November 8, 1926. Serial No. 239,782. PUBLISHED JANUARY 17, 1928. Class 6.

240,365. A TONIC—NAMELY, A LIQUID RATION PREPARED FROM VEGETABLE JUICES FOR DISORDERS OF THE KIDNEYS. THE AGMEL CORPORATION, Los Angeles, Calif.
Filed November 15, 1926. Serial No. 240,052. PUBLISHED JANUARY 17, 1928. Class 6.

240,366. COMPOUND FOR TREATING HYDROCARBON FUEL TO INCREASE THE POWER YIELD OF THE FUEL WHEN BURNED IN AN INTERNAL-COMBUSTION ENGINE. ROBERT JOHN, Long Branch, N. J.
Filed November 26, 1926. Serial No. 240,607. PUBLISHED JANUARY 17, 1928. Class 6.

240,367. CANNED GRAPEFRUIT. SPANISH AMERICAN FRUIT COMPANY, INC., Vega Baja, Porto Rico.
Filed January 7, 1927. Serial No. 242,508. PUBLISHED OCTOBER 4, 1927. Class 46.

240,368. COFFEE. ATWOOD & COMPANY, Minneapolis, Minn.
Filed January 15, 1927. Serial No. 242,874. PUBLISHED MAY 31, 1927. Class 46.

240,369. MALT EXTRACTS AND SYRUPS. H. C. SCHRANCK COMPANY, Milwaukee, Wis.
Filed April 9, 1927. Serial No. 247,218. PUBLISHED JULY 12, 1927. Class 46.

240,370. HOP-FLAVORED MALT SYRUP FOR FOOD PURPOSES. SIGMUND L. GOLDMAN, doing business as Royal Red Malt Co., Chicago, Ill.
Filed February 5, 1927. Serial No. 243,853. PUBLISHED JANUARY 10, 1928. Class 46.

240,371. BREAD, CAKE; BREAD COMPOUND COMPOSED OF SHORTENING, SUGAR, SALT, MILK, MALT, STARCH, AND WATER; BISCUITS, CRACKERS, AND DOUGHNUTS. WILLIAM H. BROOKS, doing business as Greenline Bakeries, Inc., San Francisco, Calif.
Filed May 11, 1927. Serial No. 248,810. PUBLISHED AUGUST 23, 1927. Class 46.

240,372. COFFEE. JOHNSON COFFEE CO., Chattanooga, Tenn.
Filed May 24, 1927. Serial No. 249,478. PUBLISHED JULY 12, 1927. Class 46.

240,373. GLASS CUTTERS. THE FLETCHER, TERRY COMPANY, Bristol, Conn.
Filed May 28, 1927. Serial No. 249,715. PUBLISHED DECEMBER 27, 1927. Class 23.

240,374. PRINTED BOOKS, BOOKLETS, OR PAMPHLETS—NAMELY, ILLUSTRATED BIOGRAPHICAL SKETCHES OF FAMOUS SPEAKERS—ISSUED ANNUALLY. LOUIS J. ALBER, Cleveland, Ohio.
Filed June 24, 1927. Serial No. 251,023. PUBLISHED JANUARY 17, 1928. Class 38.

240,375. BOOKLETS PUBLISHED PERIODICALLY CONTAINING LESSONS IN CURRENT LITERATURE. LOUIS PORTER, doing business as Institute of Current Literature, Cambridge, Mass.
Filed August 19, 1927. Serial No. 253,731. PUBLISHED JANUARY 17, 1928. Class 38.

240,376. CANNED FOODS. W. R. ROACH & Co., Grand Rapids, Mich.
Filed November 2, 1927. Serial No. 256,973. PUBLISHED JANUARY 17, 1928. Class 46.

240,377. ARTIST'S RELIEF PAINT. C & H PRODUCTS CORPORATION, New York, N. Y.
Filed November 3, 1927. Serial No. 257,000. PUBLISHED JANUARY 17, 1928. Class 16.

240,378. ARTIST'S RELIEF PAINT. C & H PRODUCTS CORPORATION, New York, N. Y.
Filed November 3, 1927. Serial No. 257,001. PUBLISHED JANUARY 17, 1928. Class 16.

240,379. INHALANT AND MEDICATED OIL FOR TREATING COLDS, CROUP, SORE THROAT, PNEUMONIA, WHOOPING COUGH, BRONCHITIS, ASTHMA, CATARRH, HEADACHE, NEURALGIA, EARACHE, RHEUMATISM PAINS, MUSCULAR PAINS, AND SORENESS AND STIFFNESS OF MUSCLES AND JOINTS. LA GREN PRODUCTS CO., Des Moines, Iowa.
Filed November 9, 1927. Serial No. 257,294. PUBLISHED JANUARY 17, 1928. Class 6.

240,380. FLOOR AND FURNITURE POLISH. GREGORY POTARIS, doing business as Pan Oils Chemical Co., New York, N. Y.
Filed November 3, 1927. Serial No. 257,030. PUBLISHED JANUARY 17, 1928. Class 16.

240,381. MEDICINES AND REMEDIES FOR THE TREATMENT OF CORNS, BUNIONS, CALLOUSES, FEET ODORS, ITCH, FALLEN ARCHES, BROKEN ARCHES, WEAK ANKLES, SPRAINS, INGROWN TOENAILS, CRACKED SKIN OF THE FEET, RHEUMATISM, NEURITIS, VARICOSE VEINS, PERSPIRING FEET, AND SORES, WOUNDS, AND BRUISES OF THE FEET. MAX KAPPNER, doing business as The Kappner Manufacturing Company, Cincinnati, Ohio.
Filed November 10, 1927. Serial No. 257,365. PUBLISHED JANUARY 17, 1928. Class 6.

240,382. HAND SOAP. JOHN H. SHOLTS, doing business as J. H. Sholts & Co., Pontiac, Mich.
Filed November 4, 1927. Serial No. 257,082. PUBLISHED JANUARY 17, 1928. Class 4.

240,383. BOARD GAMES. WILDER MFG. CO., St. Louis, Mo.
Filed November 5, 1927. Serial No. 257,132. PUBLISHED JANUARY 10, 1928. Class 22.

240,384. MEDICINAL TONIC USED AS A TREATMENT DESIGNED TO BUILD UP DEFICIENT METABOLISM, RESTORE HÆMOGLOBIN OF THE BLOOD TO NORMAL, STIMULATE THE ACTION OF THE LIVER AND GALL BLADDER, AND THEREBY IMPROVE NUTRITION. THE COOPER LABORATORIES, INC., Dayton, Ohio.
Filed November 23, 1927. Serial No. 257,969. PUBLISHED JANUARY 17, 1928. Class 6.

240,385. MEDICINAL TONIC COMPRISING VEGETABLE OIL, EGGS, AND VARIOUS EXTRACTIVES AND TONIC INGREDIENTS AND USED AS A GENERAL HEALTH TONIC. MUSHER AND COMPANY, Washington, D. C.
Filed November 8, 1927. Serial No. 257,246. PUBLISHED JANUARY 17, 1928. Class 6.

240,386. THERAPEUTIC APPLIANCES—NAMELY, ELECTRIC BLANKETS AND PADS. JOHN D. BURKHOLDER, doing business as Magnetic Life Blanket Co., Philadelphia, Pa.
Filed November 7, 1927. Serial No. 257,146. PUBLISHED JANUARY 17, 1928. Class 44.

240,387. RELISH MADE OF VEGETABLES AND SPICES. THE D. N. D. MFG. CO., Chattanooga, Tenn.
Filed November 7, 1927. Serial No. 257,149. PUBLISHED JANUARY 17, 1928. Class 46.

240,388. PREPARATION FOR CLEANING ARTIFICIAL DENTURES. THE DU-KLENE CO., Los Angeles, Calif.
Filed November 9, 1927. Serial No. 257,282. PUBLISHED JANUARY 10, 1928. Class 4.

240,389. PREPARED LIQUID PAINT. J. F. KURFEES PAINT COMPANY, INCORPORATED, Louisville, Ky.
Filed November 9, 1927. Serial No. 257,293. PUBLISHED JANUARY 17, 1928. Class 16.

240,390. MALT SYRUP. CHARLES G. MCCAFFREY, doing business as Old Pilgrim Malt Extract Company, Pittsburgh, Pa.
Filed November 9, 1927. Serial No. 257,296. PUBLISHED JANUARY 17, 1928. Class 46.

240,391. MACARONI FOR USE IN MAKING SALADS. KANSAS CITY MACARONI & IMPORTING CO., doing business as American Beauty Macaroni Co., Kansas City, Mo.
Filed November 10, 1927. Serial No. 257,363. PUBLISHED JANUARY 17, 1928. Class 46.

240,392. DIALS, TRANSFORMERS, AND VACUUM-TUBE SOCKETS. TYRMAN ELECTRIC CORPORATION, Chicago, Ill.
Filed November 16, 1927. Serial No. 257,646. PUBLISHED JANUARY 17, 1928. Class 21.

240,393. HERB TONIC FOR THE KIDNEYS, LIVER, AND STOMACH. NICHOLA PANOFF, Kittanning, Pa.
Filed November 18, 1927. Serial No. 257,761. PUBLISHED JANUARY 17, 1928. Class 6.

240,394. MALT EXTRACTS. FOREST HILLS COMPANY, doing business as Old Colony Brewing Co., Boston, Mass.
Filed November 21, 1927. Serial No. 257,864. PUBLISHED JANUARY 17, 1928. Class 46.

240,395. KEY CHAINS, BUCKLES, COLLAR FASTENERS, KNIFE HANDLES, ETC. SPEIDEL BROS., Providence, R. I.
Filed November 21, 1927. Serial No. 257,899. PUBLISHED JANUARY 17, 1928. Class 28.

240,396. A MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF RHEUMATISM. WILLIAM BAISDEN, doing business as Baisden's Indian Herb Company, Lincoln Park, Mich.
Filed November 19, 1927. Serial No. 257,779. PUBLISHED JANUARY 17, 1928. Class 6.

240,397. GENERAL TONICS. HARRY LEMLER, doing business as The Lem-Cod Co., Baltimore, Md.
Filed November 21, 1927. Serial No. 257,880. PUBLISHED JANUARY 17, 1928. Class 6.

240,398. MEDICATED SOAP. THOMAS F. WHITE, doing business as Andel Co., New York, N. Y.
Filed November 23, 1927. Serial No. 258,008. PUBLISHED JANUARY 10, 1928. Class 4.

240,399. WATCHES. BENRUS WATCH COMPANY, New York, N. Y.
Filed November 25, 1927. Serial No. 258,015. PUBLISHED JANUARY 17, 1928. Class 27.

240,400. HOUSEHOLD CLEANER. D. R. FRANKLIN CO., INC., New York, N. Y.
Filed November 25, 1927. Serial No. 258,022. PUBLISHED JANUARY 10, 1928. Class 4.

240,401. GRAND AND UPRIGHT PIANOS, PLAYER PIANOS, AND PIANO PLAYERS. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio.
Filed November 25, 1927. Serial No. 258,055. PUBLISHED JANUARY 17, 1928. Class 36.

240,402. LIQUID AND PASTE SHOE CLEANER AND POLISH. R. E. SALEME & SON, San Mateo, Calif.
Filed November 26, 1927. Serial No. 258,099. PUBLISHED JANUARY 10, 1928. Class 4.

240,403. AUTOMATIC ELECTRIC EMERGENCY, LIGHTING SYSTEMS FOR THEATERS AND OTHER PLACES OF PUBLIC ASSEMBLY. USEM COMPANY, New York, N. Y.
Filed November 26, 1927. Serial No. 258,102. PUBLISHED JANUARY 17, 1928. Class 21.

240,404. SOAP. ELI S. LEFFLER, doing business as Leffler & Co., St. Louis, Mo.
Filed November 30, 1927. Serial No. 258,231. PUBLISHED JANUARY 10, 1928. Class 4.

240,405. LIGHTNING ARRESTERS. PORCELAIN PRODUCTS, INC., Findlay, Ohio.
Filed December 1, 1927. Serial No. 258,288. PUBLISHED JANUARY 17, 1928. Class 21.

240,406. TOOTHPICKS. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed December 1, 1927. Serial No. 258,295. PUBLISHED JANUARY 17, 1928. Class 44.

240,407. MEDICATED DENTAL ADHESIVE POULTICE. HARRY A. SCHELL, Philadelphia, Pa.
Filed December 2, 1927. Serial No. 258,356. PUBLISHED JANUARY 17, 1928. Class 6.

240,408. PREPARATIONS FOR THE PREVENTION AND TREATMENT OF DISEASES OF PIGEONS OR POULTRY. SQUILLS AND DE LACY LIMITED, Clitheroe, England.
Filed December 6, 1927. Serial No. 258,542. PUBLISHED JANUARY 17, 1928. Class 6.

240,409. CHEMICAL COMPOUND USED IN COMPOUNDING LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed December 6, 1927. Serial No. 258,543. PUBLISHED JANUARY 17, 1928. Class 6.

240,410. ANTISEPTICS AND DISINFECTANTS. HYNSON, WESTCOTT & DUNNING, Baltimore, Md.
Filed December 7, 1927. Serial No. 258,579. PUBLISHED JANUARY 17, 1928. Class 6.

240,411. GENERAL HEALING SALVE OR OINTMENT. SARAH B. MALONE, doing business as Infectacene Laboratories, Akron, Ohio.
Filed December 7, 1927. Serial No. 258,582. PUBLISHED JANUARY 17, 1928. Class 6.

240,412. HEALTH FOOD REMEDIES—NAMELY, FOR CATARRH OF HEAD, STOMACH, KIDNEYS, BLADDER, OR PROSTATE; FOR CONSTIPATION, INDIGESTION; FOR A FOOD TONIC, FOR REJUVENATION AND NOURISHMENT OF THE SEX GLANDS, FOR UNDERWEIGHT, FOR GOITER; FOR FEMALE DISORDERS, AS PAINFUL AND DELAYED MENSTRUATION; FOR OVERWEIGHT, AND FOR ANEMIA. HEALTH LABORATORIES, INC., Long Beach, Calif.
Filed December 8, 1927. Serial No. 258,635. PUBLISHED JANUARY 17, 1928. Class 6.

240,413. PREPARATION FOR USE IN THE HEAT TREATMENT OF STEELS. THE PARKER STAMP WORKS, INC., Hartford, Conn.
Filed December 8, 1927. Serial No. 258,649. PUBLISHED JANUARY 17, 1928. Class 6.

240,414. SALVE FOR THE TREATMENT OF CUTS, BURNS, BRUISES, BUNIONS, CORNS, SKIN DISEASES, PILES, SOREHEAD CHICKENS, AND OLD SORES. HENRY STARNES, Augusta, Ga.
Filed December 8, 1927. Serial No. 258,661. PUBLISHED JANUARY 17, 1928. Class 6.

240,415. INSECTICIDES. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill.
Filed December 8, 1927. Serial No. 258,664. PUBLISHED JANUARY 17, 1928. Class 6.

240,416. INSECTICIDE, DEODORANT, AND DISINFECTANT. JULIUS C. ALZAMORA, doing business as Revelation Chemical Company, San Francisco, Calif.
Filed December 10, 1927. Serial No. 258,711. PUBLISHED JANUARY 17, 1928. Class 6.

240,417. CHEWING GUM CONTAINING ASPIRIN. DILLARD-NALLE COMPANY, Washington, D. C.
Filed December 10, 1927. Serial No. 258,732. PUBLISHED JANUARY 17, 1928. Class 6.

240,418. PREPARATION USED IN THE TREATMENT OF COUGHS, COLDS, BRONCHITIS, BRONCHIAL ASTHMA, WHOOPING COUGH, AND SPASMODIC CROUP. FIRST NATIONAL LABORATORIES, INCORPORATED, Lehighton, Pa.
Filed December 10, 1927. Serial No. 258,739. PUBLISHED JANUARY 17, 1928. Class 6.

240,419. COASTER WAGONS. SUPPLEE-BIDDLE HARDWARE COMPANY, Philadelphia, Pa.
Filed May 28, 1927. Serial No. 249,760. PUBLISHED JANUARY 17, 1928. Class 22.

240,420. SHOE GREASE AND LEATHER DRESSING FOR WATERPROOFING AND PRESERVING LEATHER. CON'S SHOE GREASE CO., Troy, Mont.
Filed June 17, 1927. Serial No. 250,678. PUBLISHED JANUARY 17, 1928. Class 4.

240,421. ROUGE, FACE POWDER, TALCUM POWDER, TOILET POWDER, COLD CREAM, VANISHING CREAM, AND TOILET WATER. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed June 21, 1927. Serial No. 250,858. PUBLISHED JANUARY 17, 1928. Class 6.

240,422. MEDICATED OIL EMULSION USED IN THE TREATMENT OF DISEASES OF SWINE, SUCH AS INFECTIONS, CHOLERA, SCOURS, NECROSIS, ENTERITIS, INFLUENZA, AND WORMS. SWINOVA COMPANY LABORATORIES, Sioux Rapids, Iowa.
Filed July 1, 1927. Serial No. 251,420. PUBLISHED JANUARY 17, 1928. Class 6.

240,423. A POWDER FOR CLEANSING DENTAL PLATES. EDWARD C. CARTER, doing business as Carter Pharmaceutical Co., Fort Wayne, Ind.
Filed July 7, 1927. Serial No. 251,607. PUBLISHED JANUARY 10, 1928. Class 6.

240,424. CERTAIN NAMED GAMES AND SPORTING GOODS. ABERCROMBIE & FITCH CO., INC., New York, N. Y.
Filed July 15, 1927. Serial No. 252,077. PUBLISHED JANUARY 17, 1928. Class 22.

240,425. CERTAIN NAMED GAMES AND SPORTING GOODS. ABERCROMBIE & FITCH CO., INC., New York, N. Y.
Filed July 15, 1927. Serial No. 252,078. PUBLISHED JANUARY 17, 1928. Class 22.

240,426. ICE CREAM. THE MISSOURI VALLEY CREAMERY CO., Washington, Mo.
Filed July 20, 1927. Serial No. 252,344. PUBLISHED JANUARY 17, 1928. Class 46.

240,427. GASOLINE. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed July 21, 1927. Serial No. 252,401. PUBLISHED JANUARY 17, 1928. Class 15.

240,428. MUSICAL POWDER BOXES, MUSICAL CIGARETTE CASES, MUSICAL DECANTERS, AND OTHER GOODS OF A SIMILAR KIND AND CLASS THAT MIGHT BE CLASSED AS MUSICAL NOVELTIES. WILLIAM F. SPRAGUE & CO., INC., New York, N. Y.
Filed September 10, 1927. Serial No. 254,605. PUBLISHED JANUARY 17, 1928. Class 36.

240,429. ELECTRIC MOTORS, INCLUDING POLYPHASE INDUCTION MOTORS, SLIP-RING MOTORS, VERTICAL MOTORS, AND BACK-GEARED MOTORS, AND FOR ARC-WELDERS AND MOTOR-GENERATOR SETS. THE LINCOLN ELECTRIC COMPANY, Cleveland, Ohio.
Filed July 1, 1924. Serial No. 199,429. PUBLISHED SEPTEMBER 21, 1926. Class 21.

240,430. CANNED TOMATOES, TOMATO SAUCE, CANNED PEAS, CANNED BEANS, CANNED AND BOTTLED OLIVES, CANNED COTTONSEED SALAD OIL, DRIED CODFISH, CANNED CORN, BOTTLED VINEGAR, AND CANNED ARTICHOKES. A. MERLINO & SONS, Seattle, Wash.
Filed February 9, 1925. Serial No. 209,807. PUBLISHED MAY 17, 1927. Class 46.

240,431. SANITARY BELTS, SANITARY APRONS, SANITARY STEP-INS, AND SANITARY SKIRTS. OSKAR EISENKRAMER, New York, N. Y.
Filed April 23, 1926. Serial No. 230,617. PUBLISHED JANUARY 17, 1928. Class 44.

240,432. TEA, COFFEE, COCOA, SPICES, DRIED FRUITS, CANNED BERRIES, ETC. JOHN BLAUL'S SONS CO., Burlington, Iowa.
Filed July 27, 1926. Serial No. 235,194. PUBLISHED JANUARY 11, 1927. Class 46.

240,433. TOILET AND BATH SOAP. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed September 16, 1926. Serial No. 237,333. PUBLISHED FEBRUARY 1, 1927. Class 4.

240,434. GOLF BALLS. JOHN WANAMAKER NEW YORK, New York, N. Y.
Filed November 10, 1926. Serial No. 239,906. PUBLISHED JANUARY 17, 1928. Class 22.

240,435. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. THETA CHI FRATERNITY, New York, N. Y.
Filed November 22, 1926. Serial No. 240,455. PUBLISHED JANUARY 17, 1928. Class 28.

240,436. HOSIERY. THE RADIANT MILLS COMPANY, Elyria, Ohio.
Filed December 6, 1926. Serial No. 241,066. PUBLISHED FEBRUARY 1, 1927. Class 39.

240,437. EYE REMEDIES. THE MURINE COMPANY, INC., Chicago, Ill.
Filed January 22, 1927. Serial No. 243,227. PUBLISHED JANUARY 17, 1928. Class 6.

240,438. FOODS AND INGREDIENTS OF FOODS. EDMOND BULLIARD, doing business as Evangeline Pepper Products Ed. Bulliard, St. Martinville, La.
Filed January 28, 1927. Serial No. 243,477. PUBLISHED MAY 3, 1927. Class 46.

240,439. GENITO-URINARY ANTISEPTIC AND DIURETIC. EDMUND FRIDOLIN PABST, doing business as Pabst Chemical Co., Chicago, Ill.
Filed February 19, 1927. Serial No. 244,626. PUBLISHED OCTOBER 14, 1927. Class 6.

240,440. MUSICAL INSTRUMENTS. VINCENT BACH CORPORATION, New York, N. Y.
Filed March 21, 1927. Serial No. 246,138. PUBLISHED MAY 31, 1927. Class 36.

240,441. WOMEN'S SANITARY APRONS, SANITARY BELTS, AND STEP-INS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed March 29, 1927. Serial No. 246,566. PUBLISHED MAY 10, 1927. Class 44.

240,442. CANNED VEGETABLES, CANNED SHRIMP, CANNED OYSTERS, AND PICKLES. MARKEY-HARMON CO., Tampa, Fla.
Filed April 30, 1927. Serial No. 248,238. PUBLISHED JANUARY 17, 1928. Class 46.

240,443. CLOCKS. THE NEW YORK CLOCK CORPORATION, New York, N. Y.
Filed May 13, 1927. Serial No. 248,968. PUBLISHED JANUARY 17, 1928. Class 27.

240,444. COASTER WAGONS. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 14, 1927. Serial No. 248,991. PUBLISHED JANUARY 17, 1928. Class 22.

240,445. ELECTRICITY RECTIFIERS FOR GENERAL USE AND ELECTRIC-BATTERY-CHARGING EQUIPMENT. LIBERTY ELECTRIC CORPORATION, Stamford, Conn.
Filed May 16, 1927. Serial No. 249,073. PUBLISHED JANUARY 17, 1928. Class 21.

240,446. DEPILATORY PREPARATIONS. OTEY J. PORTER, Columbia, Tenn.
Filed May 16, 1927. Serial No. 249,093. PUBLISHED JANUARY 17, 1928. Class 6.

240,447. AUTOMOBILE AND FURNITURE POLISH. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 20, 1927. Serial No. 249,258. PUBLISHED JANUARY 17, 1928. Class 16.

240,448. COASTER WAGONS. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 28, 1927. Serial No. 249,693. PUBLISHED JANUARY 17, 1928. Class 22.

240,449. ATTACHMENT-PLUG CAPS AND BODIES AND CORD CONNECTORS. THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn.
Filed November 30, 1927. Serial No. 258,208. PUBLISHED JANUARY 17, 1928. Class 21.

240,450. AUTOMOBILE CLEANING FLUID. HENRY NUNES, doing business as Nu-Glo Auto-Products Co., San Francisco, Calif.
Filed August 8, 1927. Serial No. 253,174. PUBLISHED JANUARY 10, 1928. Class 4.

240,451. COMPACT OR VANITY CASES COMPLETE MADE OF PRECIOUS METAL—TO WIT, CASES CARRYING POWDER COMPACTS, ROUGE COMPACTS, LIP STICKS, CREAM POWDER, SOLID PERFUMES, POWDER PUFFS, AND MIRRORS. J. V. PILCHER MFG. CO., Louisville, Ky.
Filed September 22, 1927. Serial No. 255,076. PUBLISHED JANUARY 17, 1928. Class 28.

240,452. RADIUM-CONTAINING BODIES USED FOR THERAPEUTIC PURPOSES. THE RADIA-DEVICE INC., Los Angeles, Calif.
Filed October 4, 1927. Serial No. 255,607. PUBLISHED JANUARY 17, 1928. Class 44.

240,453. ELECTRIC SADIRONS AND PORTABLE ELECTRIC KITS, EACH CONTAINING A SADIRON, WHICH ARE ADAPTABLE FOR USE AS RADIANT HEATERS AND HOT PLATES. MICHAEL A. ROLLMAN, Mount Joy, Pa.
Filed October 11, 1927. Serial No. 255,930. PUBLISHED JANUARY 17, 1928. Class 21.

240,454. SANITARY NAPKINS. CRESCENT SPECIALTY COMPANY, INC., Brooklyn, N. Y.
Filed October 12, 1927. Serial No. 255,971. PUBLISHED JANUARY 17, 1928. Class 44.

240,455. GOLF BALLS. HARRY I. JORDAN, Auburn, Me.
Filed October 12, 1927. Serial No. 255,993. PUBLISHED JANUARY 17, 1928. Class 22.

240,456. SOAP. WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa.
Filed October 12, 1927. Serial No. 256,024. PUBLISHED JANUARY 17, 1928. Class 4.

240,457. INHALERS AND AMPULES AND ATTACHMENTS AND REPAIR PARTS. R. W. CRAMER & COMPANY, INC., New York, N. Y.
Filed October 18, 1927. Serial No. 256,246. PUBLISHED JANUARY 17, 1928. Class 44.

240,458. INLAY GOLD, GOLD SOLDER, CAST CLASP GOLD, AND CLASP WIRE FOR DENTAL USE. SPYCO SMELTING & REFINING CO., Minneapolis, Minn.
Filed October 19, 1927. Serial No. 256,311. PUBLISHED JANUARY 17, 1928. Class 44.

240,459. LIQUID PREPARATION FOR CLEANING FOOTWEAR. JOSEPH A. MURENA, Jersey City, N. J.
Filed October 20, 1927. Serial No. 256,368. PUBLISHED JANUARY 10, 1928. Class 4.

240,460. BATTERIES FOR AUTOMOBILES AND RADIOS. BERGEN BROS. AUTO TIRE CO., Hartford, Conn.
Filed October 22, 1927. Serial No. 256,442. PUBLISHED JANUARY 17, 1928. Class 21.

240,461. FOOD-FLAVORING EXTRACT. JOSEPH BURNETT COMPANY, Boston, Mass.
Filed October 27, 1927. Serial No. 256,659. PUBLISHED JANUARY 17, 1928. Class 46.

240,462. MALT SYRUP. FREDERICK W. RODE, doing business as Rode Bros., Philadelphia, Pa.
Filed October 27, 1927. Serial No. 256,687. PUBLISHED JANUARY 17, 1928. Class 46.

240,463. GOLF CLUBS AND GOLF BALLS. JOSEPH A. ROSEMAN, Evanston, Ill.
Filed October 27, 1927. Serial No. 256,688. PUBLISHED JANUARY 10, 1928. Class 22.

240,464. GASOLINE. THE VICKERS PETROLEUM COMPANY, Wichita, Kans.
Filed October 27, 1927. Serial No. 256,698. PUBLISHED JANUARY 17, 1928. Class 15.

240,465. GASOLINE. THE VICKERS PETROLEUM COMPANY, Wichita, Kans.
Filed October 27, 1927. Serial No. 256,699. PUBLISHED JANUARY 17, 1928. Class 15.

240,466. COSMETICS INCLUDING COLD CREAM, OIL FOR HOT-OIL TREATMENT OF THE HAIR, ASTRINGENT LIQUID, AND BLUING RINSE FOR WHITE HAIR. THE LEMUR COMPANY, Cleveland, Ohio.
Filed October 28, 1927. Serial No. 256,730. PUBLISHED JANUARY 17, 1928. Class 6.

240,467. BATTERY TERMINAL. JIFFY PRODUCTS CORPORATION, Buffalo, N. Y.
Filed October 29, 1927. Serial No. 256,779. PUBLISHED JANUARY 17, 1928. Class 21.

240,468. BISCUITS, CANDY, AND ICE-CREAM CONES. CONSUMERS BISCUIT COMPANY, New Orleans, La.
Filed October 31, 1927. Serial No. 256,811. PUBLISHED JANUARY 17, 1928. Class 46.

240,469. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, BATH POWDER, AND BATH SALTS. S. S. PIERCE CO., Boston, Mass.
Filed November 1, 1927. Serial No. 256,886. PUBLISHED JANUARY 17, 1928. Class 6.

240,470. CANDY. HELEN ARDELLE CANDY COMPANY, Seattle, Wash.
Filed December 8, 1927. Serial No. 258,617. PUBLISHED JANUARY 17, 1928. Class 46.

240,471. COTTON AND WOOLEN PIECE GOODS AND COMBINATIONS. PANAMA MFG. CO., INC., New York, N. Y.
Filed December 7, 1927. Serial No. 258,588. PUBLISHED JANUARY 17, 1928. Class 42.

240,472. COTTON AND WOOLEN PIECE GOODS AND COMBINATIONS. PANAMA MFG. CO., INC., New York, N. Y.
Filed December 7, 1927. Serial No. 258,587. PUBLISHED JANUARY 17, 1928. Class 42.

240,473. SILK PIECE GOODS. DUNDEE TEXTILE COMPANY, Passaic, N. J.
Filed December 7, 1927. Serial No. 258,573. PUBLISHED JANUARY 17, 1928. Class 42.

240,474. FRESH SWEET POTATOES. PORTALES VALLEY SWEET POTATO GROWERS ASSOCIATION, Portales, N. Mex.
Filed December 6, 1927. Serial No. 258,540. PUBLISHED JANUARY 17, 1928. Class 46.

240,475. CERTAIN NAMED WEARING APPAREL. BOYD-RICHARDSON COMPANY, St. Louis, Mo.
Filed September 9, 1927. Serial No. 254,538. PUBLISHED JANUARY 10, 1928. Class 39.

240,476. ELECTRIC REFRIGERATING APPARATUS AND SYSTEMS AND PARTS THEREOF. SIEMENS-SCHUCKERTWERKE GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin-Siemensstadt, Germany, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany.
Filed August 25, 1927. Serial No. 253,963. PUBLISHED OCTOBER 18, 1927. Class 31.

240,477. CERTAIN NAMED WEARING APPAREL. GRUNHUT, LEICH & ELLISON, INC., New York, N. Y.
Filed August 17, 1927. Serial No. 253,592. PUBLISHED NOVEMBER 1, 1927. Class 39.

240,478. CIGARS, CIGARETTES, SMOKING TOBACCO, CHEWING TOBACCO, AND SNUFF. DE NOBILI CIGAR COMPANY, New York, N. Y.
Filed August 16, 1927. Serial No. 253,532. PUBLISHED JANUARY 17, 1928. Class 17.

240,479. CERTAIN NAMED WEARING APPAREL. H. J. HOLMAN & SONS INC., Sheboygan, Wis.
Filed July 29, 1927. Serial No. 252,706. PUBLISHED JANUARY 10, 1928. Class 39.

240,480. CEREAL MALT BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT BY VOLUME OF ALCOHOL. FOREST HILLS COMPANY, doing business as Old Colony Brewing Co., Boston, Mass.
Filed July 23, 1927. Serial No. 252,466. PUBLISHED JANUARY 17, 1928. Class 48.

240,481. MEN'S DRESS AND NEGLIGEE SHIRTS. LOUIS J. MARKOWITZ, doing business as Marbro's Mens Shop, New York, N. Y.
Filed July 12, 1927. Serial No. 251,921. PUBLISHED JANUARY 10, 1928. Class 39.

240,482. PLUNGER PUMPS AND TURBINE PUMPS. POMONA MANUFACTURING COMPANY, Pomona, Calif.
Filed July 11, 1927. Serial No. 251,854. PUBLISHED JANUARY 17, 1928. Class 23.

240,483. NONALCOHOLIC, MALTLESS, CONCENTRATED SYRUPS USED IN THE PREPARATION OF SOFT DRINKS. H. BARON & CO. INC., New York, N. Y.
Filed July 11, 1927. Serial No. 251,815. PUBLISHED JANUARY 17, 1928. Class 45.

240,484. CERTAIN NAMED FOOTWEAR. PAUL C. WOLFER COMPANY, Everett, Mass.
Filed June 28, 1927. Serial No. 251,255. PUBLISHED NOVEMBER 1, 1927. Class 39.

240,485. CERTAIN COTTON AND COTTON MIXED GOODS IN ROLL, BOLT, AND PIECE. FINLAY, HOLT & CO. LTD., New York, N. Y.
Filed August 6, 1927. Serial No. 253,141. PUBLISHED JANUARY 17, 1928. Class 42.

240,486. DAIRY PRODUCTS—NAMELY, BUTTER, MILK, SWEET CREAM, THICK CREAM, AND BUTTERMILK. LOUIS S. RASKAS, St. Louis, Mo.
Filed June 24, 1927. Serial No. 251,082. PUBLISHED JANUARY 17, 1928. Class 46.

240,487. SELF-RISING WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,961. PUBLISHED JANUARY 17, 1928. Class 46.

240,488. WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,959. PUBLISHED JANUARY 17, 1928. Class 46.

240,489. WHEAT FLOUR, CORN FLOUR, AND A MIXTURE OF CORN AND WHEAT FLOUR. MEYER LEVINSON, doing business as The Mazzalina Products Co., Colorado, Tex.
Filed June 20, 1927. Serial No. 250,807. PUBLISHED JANUARY 10, 1928. Class 46.

240,490. BOYS' CAPS. HIRSCHBERG & COMPANY, New York, N. Y.
Filed June 15, 1927. Serial No. 250,539. PUBLISHED JANUARY 10, 1928. Class 39.

240,491. BOYS' CAPS. HIRSCHBERG & COMPANY, New York, N. Y.
Filed June 15, 1927. Serial No. 250,538. PUBLISHED JANUARY 10, 1928. Class 39.

240,492. TRACTORS. CLARK TRUCTRACTOR COMPANY, Buchanan, Mich.
Filed June 6, 1927. Serial No. 250,064. PUBLISHED JANUARY 17, 1928. Class 23.

240,493. CERTAIN NAMED WEARING APPAREL. THE BIG STORE CO., Cincinnati, Ohio.
Filed May 26, 1927. Serial No. 249,568. PUBLISHED JANUARY 10, 1928. Class 39.

240,494. PNEUMATIC TIRES, INNER TUBES, BRAKE LININGS, FAN BELTS FOR AUTOMOBILES, BLOW-OUT PATCHES, AND LACED BOOTS FOR PNEUMATIC TIRES. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 20, 1927. Serial No. 249,257. PUBLISHED JANUARY 17, 1928. Class 35.

240,495. NONFERROUS-METAL PIPE, PIPE FITTINGS, BOLTS, NUTS, SCREWS, NOZZLES, BALL SEATS, GLANDS, WASHERS, PINS, RIVETS, RINGS, STUDS, JETS, SPINDLES, COLLARS, VALVES, AND VALVE PARTS. MUELLER BRASS CO., Port Huron, Mich.
Filed September 29, 1927. Serial No. 255,391. PUBLISHED JANUARY 24, 1928. Class 13.

240,496. CHICKEN FEED. CITY MILLS COMPANY, Columbus, Ga.
Filed November 29, 1927. Serial No. 258,163. PUBLISHED JANUARY 17, 1928. Class 46.

240,497. TIRE COVERS. HUPP MOTOR CAR CORPORATION, Richmond, Va., and Detroit, Mich.
Filed November 28, 1927. Serial No. 258,124. PUBLISHED JANUARY 17, 1928. Class 35.

240,498. PASTE FOR LAYING LINOLEUM TO WOOD OR CONCRETE FLOORS. CONSUMERS GLUE CO., St. Louis, Mo.
Filed November 28, 1927. Serial No. 258,114. PUBLISHED JANUARY 10, 1928. Class 5.

240,499. CIGARETTES. H. BRUNDAGE, San Francisco, Calif.
Filed November 28, 1927. Serial No. 258,111. PUBLISHED JANUARY 17, 1928. Class 17.

240,500. PLOWS, CULTIVATORS, AND COTTON SCRAPERS. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed November 28, 1927. Serial No. 258,109. PUBLISHED JANUARY 17, 1928. Class 23.

240,501. LEATHER BELTING. CHARLES BOND COMPANY, Philadelphia, Pa.
Filed November 26, 1927. Serial No. 258,061. PUBLISHED JANUARY 17, 1928. Class 35.

240,502. BOYS' AND MEN'S CLOTHING—VIZ, BLOUSES AND DRESS, NEGLIGEE, AND WORK SHIRTS OF TEXTILE FABRIC. THE SHIRTCRAFT COMPANY, INC., New York, N. Y.
Filed November 21, 1927. Serial No. 257,897. PUBLISHED JANUARY 10, 1928. Class 39.

240,503. WOMEN'S COATS, SUITS, AND DRESSES. R. H. MACY & Co., INC., New York, N. Y.
Filed November 19, 1927. Serial No. 257,804. PUBLISHED JANUARY 10, 1928. Class 39.

240,504. GARTERS. CHARLES A. SMITH, doing busfness as Nee Tee Garter Company, New York, N. Y.
Filed November 19, 1927. Serial No. 257,818. PUBLISHED JANUARY 10, 1928. Class 39.

240,505. WALL PAPER. THIBONY & BENGTSON, Chicago, Ill.
Filed November 19, 1927. Serial No. 257,822. PUBLISHED JANUARY 10, 1928. Class 37.

240,506. VACUUM CLEANERS. TRIPOINT PNEUMATIC UTILITY CO., Chicago, Ill.
Filed November 19, 1927. Serial No. 257,823. PUBLISHED JANUARY 17, 1928. Class 23.

240,507. WHEAT FLOUR. MONTANA FLOUR MILLS COMPANY, Lewistown, Mont.
Filed November 21, 1927. Serial No. 257,843. PUBLISHED JANUARY 10, 1928. Class 46.

240,508. PREPARED CEREALS, SOMETIMES DESIGNATED BY APPLICANT AS "LIFE GRAIN," CONTAINING A HIGH PERCENTAGE OF THE MINERAL PARTS OF THE GRAIN AND DESIGNED PARTICULARLY FOR USE AS A CORRECTIVE FOOD. WILLIAM J. MOORE, doing business as The Du Pont Cereal Products Company, Chicago, Ill.
Filed November 30, 1927. Serial No. 258,284. PUBLISHED JANUARY 10, 1928. Class 46.

240,509. CIGARS. JOHN C. KASCHT, Waterloo, Iowa.
Filed December 1, 1927. Serial No. 258,266. PUBLISHED JANUARY 17, 1928. Class 17.

240,510. METAL-CUTTING MACHINES, PARTICULARLY PLANERS AND LATHES, AND ATTACHMENTS THEREFOR. THE NILES TOOL WORKS COMPANY, New York, N. Y.
Filed December 1, 1927. Serial No. 258,274. PUBLISHED JANUARY 17, 1928. Class 23.

240,511. TOILET PAPER. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed December 1, 1927. Serial No. 258,299. PUBLISHED JANUARY 10, 1928. Class 37.

240,512. WHEAT FLOUR AND SELF-RISING FLOUR. CAPE COUNTY MILLING COMPANY, Jackson, Mo.
Filed December 2, 1927. Serial No. 258,313. PUBLISHED JANUARY 10, 1928. Class 46.

240,513. COFFEE. O. W. PEIRCE COMPANY, La Fayette, Ind.
Filed December 5, 1927. Serial No. 258,491. PUBLISHED JANUARY 17, 1928. Class 46.

240,514. WHEAT FLOUR. THE FRANK R. PRINA CORPORATION, doing business as Consolidated Mills Flour Company, New York, N. Y.
Filed December 5, 1927. Serial No. 258,492. PUBLISHED JANUARY 17, 1928. Class 46.

240,515. FRESH GRAPES. ROBERT H. DART, Sacramento, Calif.
Filed December 6, 1927. Serial No. 258,519. PUBLISHED JANUARY 17, 1928. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

240,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUGH RACEY PATRIARCHE, North Vancouver, British Columbia, Canada. Filed Sept. 23, 1926. Serial No. 237,620.

Jelly-Cup

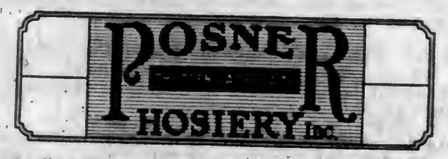
Particular description of goods.—A Novelty Confection Consisting of a Raper Cup Containing Jelly Adapted to Receive Ice Cream.
Claims use since Sept. 1, 1926.

240,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIMPSON-ASHBY CO., Los Angeles, Calif. Filed Oct. 23, 1926. Serial No. 239,151.

SARATOGA

Particular description of goods—Canned Vegetables, Canned Fruits, Canned Fish; Canned Sea Food—Namely, Oysters, Caviar, Shrimp, Turtle Meat, Clams, Clam Juice; Meat Extract, Dried Fruits; Dried Vegetables, Canned Soups; Condiments—Namely, Mustard, Chili Sauces, Spices; Flavoring Extracts for Food Purposes, Candy, Glacé or Candied Fruits; Nuts and Nut Meats, Salted, Candied, and in Their Natural State; Peanut Butter, Jams, Jellies, Fruit Preserves, Butter, Eggs, Canned Condensed Milk, Cheese, Lard, Lard Compound; Edible Oils—Namely, Olive Oil and Cottonseed Oil; Bread, Cake, Prepared Cereal Foods; Alimentary Pastes, Maple and Corn Sirup, Honey, Tapioca, Rice, Herbs for Seasoning Foods, Yeast, Olives, Capers, Mushrooms, Mincemeat; Pop Corn, Candied, Salted, and in its Natural State; Birdseed, Sugar, Cream Whip, Vinegar, Pickles, Catsup, Canned Berries.
Claims use since January, 1890.

240,518. (CLASS 39. CLOTHING.) POSNER HOSIERY, INC., New York, N. Y. Filed Feb. 5, 1927. Serial No. 243,882.



Applicant owns registration Number 217,725. The lines shown in the drawing indicate shading and not any particular color scheme.
Particular description of goods.—Hosiery, Pajamas, Nightgowns; Shoes of Leather and Silk, Leather, Fabric,

or Rubber, and Combinations of These Materials; and Underwear for Men, Women, and Children, of Textile and Knitted Materials.
Claims use since Jan. 31, 1927.

240,519. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FREDERICK C. BROCK AND IVAN L. SMITH, Cleveland, Ohio. Filed Feb. 28, 1927. Serial No. 244,977.

Auto Knits

Particular description of goods.—Automobile Seat Covers.
Claims use since Feb. 10, 1927.

240,520. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) DETROIT HARVESTOR COMPANY, Detroit, Mich. Filed Mar. 7, 1927. Serial No. 245,341.

FARMFORD

Particular description of goods.—Power Unit for Agricultural and Other Purposes.
Claims use since Feb. 1, 1927.

240,521. (CLASS 39. CLOTHING.) THE BURKHARDT BROS. CO., Cincinnati, Ohio. Filed Mar. 22, 1927. Serial No. 246,151.

VERNON

Particular description of goods.—Men's Flannel Suits.
Claims use since May 1, 1926.

240,522. (CLASS 39. CLOTHING.) CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Apr. 9, 1927. Serial No. 247,170.

DR. REYNALI'S

Particular description of goods.—Corsets and Corselets.
Claims use since Feb. 8, 1927.

240,523. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NORMAN M. COTTRELL, doing business as Master-Craft Products Co., Chicago, Ill. Filed June 23, 1927. Serial No. 250,977.

Master-Craft

Particular description of goods.—Radio Tube Rejuvenator.
Claims use since Jan. 1, 1927.

240,524. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TWIN DISC CLUTCH COMPANY, Racine, Wis. Filed Aug. 18, 1927. Serial No. 253,672.

TWIN DISC
CLUTCHES

Particular description of goods.—Clutches.
Claims use since Feb. 10, 1927.

240,525. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN P. STETSON, doing business as Safety Lift Company, New York, N. Y. Filed Oct. 21, 1927. Serial No. 256,430.



Particular description of goods.—Automobile Greasing Stands of the Elevator Type.
Claims use since July 1, 1926.

240,526. (CLASS 39. CLOTHING.) FREDERICK SPIRER & SONS, New York, N. Y. Filed Nov. 10, 1927. Serial No. 257,888.

ARABIAN

Particular description of goods.—Certain Named Wearing Apparel.
Claims use since Jan. 1, 1927.

240,527. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OLIVER REEDER & SON, INCORPORATED, Baltimore, Md. Filed Nov. 23, 1927. Serial No. 257,997.

NETBEST

PRESERVATIVE

Particular description of goods.—Antifouling Composition in the Nature of a Paint for Fishermen's Nets and Other Similar Nets.
Claims use since Jan. 30, 1926.

240,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. MORGAN, Atlanta, Ga. Filed Dec. 29, 1927. Serial No. 259,454.

MORGAN'S CATARACT

Particular description of goods.—A Preparation for Use in the Treatment of Cataracts of the Eyes.
Claims use since Dec. 1, 1926.

240,529. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WILLIAM DEMUTH & COMPANY, New York, N. Y. Filed Jan. 7, 1928. Serial No. 259,797.

HESSON

Particular description of goods.—Tobacco Pipes, Cigar and Cigarette Holders.
Claims use since Nov. 1, 1925.

240,530. (CLASS 39. CLOTHING.) S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed Jan. 7, 1928. Serial No. 259,815.

SILVERSHEEN

Particular description of goods.—Dress Shirts and Pajamas for Men, Youths, and Boys.
Claims use since Jan. 5, 1927.

240,531. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FIRESTONE TIRE AND RUBBER COMPANY, Akron, Ohio. Filed Jan. 16, 1928. Serial No. 260,171.

Steam-Welded

Particular description of goods.—Inner Tubes for Pneumatic Tires.
Claims use since Oct. 15, 1923.

240,532. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE AMERICAN IMPORT COMPANY, San Francisco, Calif. Filed Jan. 25, 1928. Serial No. 260,615.

BESTMADE

Particular description of goods.—Fishing Baskets, Fishing Gut, Gut Leaders, Fishing Line, and Fishing Hooks.
Claims use since Jan. 2, 1925.

240,533. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ALFRED H. SMITH CO., New York, N. Y. Filed Jan. 24, 1928. Serial No. 260,597.

Kleanwell

Particular description of goods.—Shaving Brushes, Hairbrushes, Complexion Brushes, Babies' Hairbrushes, Bath Brushes, Flesh Brushes, Manicure Brushes, Hand Brushes, Shampoo Brushes, Toothbrushes, Body Brushes, Paintbrushes, Sink Brushes, Powder Puffs, Whisk Brooms, Kitchen Brooms, Dust Cloths, Daubers, and Dish Mops.
Claims use since Oct. 20, 1908.

240,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELAM MILLS, INC., Chicago, Ill. Filed Jan. 10, 1928. Serial No. 259,899.

Elam's

Particular description of goods.—Whole-Wheat Flour, Whole-Wheat Meal, Corn Meal, Oat Meal, Macaroni, Spaghetti, and Egg Noodles.
Claims use since about 1920.

240,535. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ATHEY TRUSS WHEEL CO., Chicago, Ill. Filed Nov. 18, 1927. Serial No. 257,723.

ATHEY

Particular description of goods.—Trailer-Type Vehicles and Parts Thereof.
Claims use since Feb. 6, 1922.

240,536. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) PORZELLANFABRIK WALDERSHOF A. G. VORM. JOHANN HAVILAND, Waldershof, Germany. Filed Oct. 27, 1927. Serial No. 256,684.

John Haviland
BAVARIA

Particular description of goods.—Porcelain Ware.
Claims use since 1912.

240,537. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) "CHINOIN" GYÓGYSZER ÉS VEGYÉSZETI TERMÉKEK GYÁRA RÉSZVÉNYTÁRSASÁG, Ujpest, near Budapest, Hungary. Filed Sept. 2, 1927. Serial No. 254,821.

NOVATROPIN

Particular description of goods.—A White Crystalline Powder Which May be Made in Tablet Form and Which is Easily Soluble in Water and Intended as a Medicine for Human Use for the Relief of Pain, the Curing of Colds, and as a General Substitute for Atropine Where That Drug or Variations Thereof are Prescribed.
Claims use since Apr. 8, 1916.

240,538. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed May 24, 1927. Serial No. 249,457.

WINDSOR

Particular description of goods.—Brick.
Claims use since January, 1927.

240,539. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARKANSAS NATURAL GAS COMPANY, Pittsburgh, Pa. Filed Apr. 30, 1927. Serial No. 248,213.

BLUE BLAZ
BOTTLED NATURAL GAS

Particular description of goods.—Liquefied Petroleum Gas.
Claims use since about Feb. 15, 1927.

240,540. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL F. MARTIN, doing business as The Solvent Company, New York, N. Y. Filed Mar. 17, 1927. Serial No. 245,933.

SOLVENT

Particular description of goods.—Hair Tonic.
Claims use since Apr. 8, 1926.

240,541. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN KAUFMAN, Prairie Du Sac, Wis. Filed Feb. 5, 1927. Serial No. 243,859.

KAUFMAN KITCHEN

Particular description of goods.—Vegetable Slicers.
Claims use since Nov. 15, 1926.

240,542. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY B. MARSH, Indianapolis, Ind. Filed Jan. 18, 1927. Serial No. 243,007.

TRU-DEE

Particular description of goods.—Handles for Shovels, Forks, Spades, and the Like.
Claims use since May 22, 1926.

240,543. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) EUGENE LUCKEY, Portland, Oreg. Filed Apr. 1, 1926. Serial No. 229,515.

NEV-R-FAIL

Particular description of goods.—Piston Rings for Internal-Combustion Engines.
Claims use since Apr. 1, 1922.

240,544. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HAMBLIN & RUSSELL MFG. CO., Worcester, Mass. Filed Jan. 27, 1928. Serial No. 260,782.

The Perfect Blender

Particular description of goods.—Kitchen Blenders for Blending Nonsolid Food Ingredients, Seasonings, Shortenings, and Other Similar Goods Used in Culinary Art.
Claims use since Jan. 10, 1924.

240,545. (CLASS 39. CLOTHING.) THE STEIN-BLOCH CO., Rochester, N. Y. Filed Apr. 26, 1926. Serial No. 230,773.

SCOTLANDER

Particular description of goods.—Men's Sack Coats and Men's Overcoats.
Claims use since Mar. 1, 1926.

240,546. (CLASS 37. PAPER AND STATIONERY.) RAPINWAX PAPER COMPANY, St. Paul, Minn. Filed Oct. 15, 1926. Serial No. 238,670.

Roll-O'Wax

Particular description of goods.—Tissue Wrapping Paper.
Claims use since Oct. 1, 1926.

240,547. (CLASS 12. CONSTRUCTION MATERIALS.) MOX, INCORPORATED, Los Angeles, Calif. Filed Oct. 23, 1926. Serial No. 239,132.

MOX
INCORPORATED
The Builders Department Store

Particular description of goods.—Construction Materials—Namely, Lumber, Doors and Sashes, Lath, Plaster, Portland Cement, Roofing, Tile, Metal Cornices, Beading, Sound-Deadening and Heat-Insulating Material, Pipe Insulation.
Claims use since March, 1918.

240,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDREW RATTO, doing business as Arco Chemical Corp., Oakland, Calif. Filed Jan. 12, 1927. Serial No. 242,747.

KLORITE
KLORITE

Particular description of goods.—Bleaching Solutions.
Claims use since Sept. 1, 1926.

240,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BERNET, CRAFT & KAUFFMAN MILLING COMPANY, St. Louis, Mo. Filed Feb. 3, 1927. Serial No. 243,743.

CRAFT'S BEST

Particular description of goods.—Wheat Flour.
Claims use since Sept. 18, 1926.

240,550. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN ALESSI EXTERMINATING COMPANY, Chicago, Ill. Filed Feb. 7, 1927. Serial No. 243,915.

Venice

Particular description of goods.—Insecticides—Namely, Bedbug Liquid, Roach Powder, Moth Liquid, and Rat-Poison Paste.
Claims use since Jan. 31, 1927.

240,551. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) STANDARD PNEUMATIC ACTION COMPANY, New York, N. Y. Filed Feb. 10, 1927. Serial No. 244,191.

ARTIST-RECORD

Particular description of goods.—Player Pianos and Actions for Player Pianos.
Claims use since Feb. 3, 1927.

240,552. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD E. SPITZ, Boston, Mass. Filed Feb. 16, 1927. Serial No. 244,477.

BARBARA BAYLIE

Particular description of goods.—Face Creams, Face Powders, Talcum Powder, Rouges, Compacts, Lip Stick, Eyebrow Pencils, Lotions for the Hair and Scalp, Sachet, Brilliantine, Hand Lotions and Creams, Toilet Preparations for the Nails, Face Lotions, Depilatories, Deodorants, Muscle Oil, Toilet Waters, Perfumes, Tooth Paste and Tooth Powder, Liquid Dentifrice, Shampoos, Bath Salts and Bath Tablets, Boudoir Powder; Foot Lotion, Powder, and Tablets.
Claims use since Oct. 25, 1926.

240,553. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN A. MOORE, doing business as Western Metal Co., Bloomington, Ill. Filed Mar. 8, 1927. Serial No. 245,404.

DIP

Particular description of goods.—Aseptic Coating for Surgical and Dental Instruments.
Claims use since Nov. 1, 1926.

240,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADOLPH D. ROSENBERG, doing business as The Quality Flour House, Chicago, Ill. Filed Mar. 12, 1927. Serial No. 245,658.

Quality Special

Particular description of goods.—Wheat Flour.
Claims use since Feb. 14 ,1927.

240,555. (CLASS 37. PAPER AND STATIONERY.) GRAHAM PAPER COMPANY, St. Louis, Mo. Filed Mar. 23, 1927. Serial No. 246,205.

SMOOTHFOLD

Particular description of goods.—Book Paper.
Claims use since Jan. 3, 1927.

240,556. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRIPLE-LIGHT CO., Denver, Colo. Filed Apr. 4, 1927. Serial No. 246,941.

TRIPLELITE

Particular description of goods.—Electric Lights.
Claims use since May, 1923.

240,557. (CLASS 37. PAPER AND STATIONERY.) PARKER PENCIL COMPANY, INC., Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 247,385.

EVERGRIP

Particular description of goods.—Pencils.
Claims use since January, 1927.

240,558. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) IOWA SOAP COMPANY, Burlington, Iowa. Filed May 21, 1927. Serial No. 249,354.

ONE MINUTE

Particular description of goods.—Soap Flakes.
Claims use since Feb. 1, 1927.

240,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN W. ESHELMAN & SONS, Lancaster, Pa. Filed Dec. 31, 1927. Serial No. 259,539.

LANCASTER

Particular description of goods.—Livestock Foods.
Claims use since January, 1917.

240,560. (CLASS 37. PAPER AND STATIONERY.) PAULUS-ULLMANN PRINTING CORPORATION, New York, N. Y. Filed Jan. 25, 1928. Serial No. 260,654.

HOOK-ON

Particular description of goods.—Price or Stock Tags.
Claims use since Apr. 2, 1923.

240,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. B. FOSTER PACKING CO., INC., Biloxi, Miss. Filed Jan. 31, 1928. Serial No. 260,940.

FOSTER'S CHOICE

Particular description of goods.—Canned Shrimp.
Claims use since Jan. 1, 1915.

240,562. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALBERT K. SHELDON COMPANY, doing business as All-Ready Paint and Varnish Works, Cambridge, Mass. Filed Feb. 4, 1928. Serial No. 261,217.

All-Ready

Particular description of goods.—Mixed Paints and Varnishes.
Claims use since July 2, 1926.

240,563. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE COLUMBIA STEEL COMPANY, Elyria, Ohio. Filed Feb. 7, 1928. Serial No. 261,305.

STRIPSHEETS

Particular description of goods.—Sheet Metal Formed of Iron and Steel.
Claims use since Sept. 16, 1926.

240,564. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) LAMBERT TIRE & RUBBER COMPANY, Barberton, Ohio. Filed Feb. 9, 1928. Serial No. 261,442.

DUO-TREAD

Particular description of goods.—Pneumatic Tires.
Claims use since on or about Apr. 7, 1926.

240,565. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BANKERT BROTHERS, Taneytown, Md. Filed Feb. 13, 1928. Serial No. 261,604.

CARROLL COUNTY

Particular description of goods.—Canned Vegetables.
Claims use since Oct. 18, 1925.

LABELS

REGISTERED MARCH 27, 1928.

33,725.—*Title:* PINE-TREE AIR-A-TOR. For Deodorizer and Air Conditioner. JAMES JOSEPH BONNER, doing business as Pine-Tree Products, Boston, Mass. Published June 1, 1910.

33,726.—*Title:* COFFNIP. For Cough Remedy. THE COFFNIP COMPANY, Yakima, Wash. Published December 29, 1927.

33,727.—*Title:* STOP-TO-BAC. For Cigars. STEPHEN B. DEXTER, Los Angeles, Calif. Published June 29, 1927.

33,728.—*Title:* MEDIDENT. For Tooth Paste. THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Published December 22, 1927.

33,729.—*Title:* DRESSES OF TAILORED-SIMPLICITY. For Ladies' and Misses' Dresses. ALEXANDER S. GROSS, INC., New York, N. Y. Published January 10, 1928.

33,730.—*Title:* SOLUBLE SULPHUR SHAMPOO. For Shampoo in Liquid Form. CHARLES L. GRUPE, doing business as Twin Rose Company, Chicago, Ill. Published January 3, 1928.

33,731.—*Title:* HEIDE'S PANGLO CHOCOLATE RAISINS. For Candy. HENRY HEIDE, INC., New York, N. Y. Published February 1, 1928.

33,732.—*Title:* HEIDE'S PANGLO CHOCOLATE COCONUT. For Candy. HENRY HEIDE, INC., New York, N. Y. Published February 1, 1928.

33,733.—*Title:* HEIDE'S PANGLO CHOCOLATE MINTS. For Candy. HENRY HEIDE, INC., New York, N. Y. Published February 1, 1928.

33,734.—*Title:* HEIDE'S PANGLO CHOCOLATE PEANUTS. For Candy. HENRY HEIDE, INC., New York, N. Y. Published February 1, 1928.

33,735.—*Title:* HELTHOL. For Medicine. THE HELTHOL MEDICINE CO., Cleveland, Ohio. Published January 4, 1928.

33,736.—*Title:* BLOX-ODOR. For a Deodorant. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo. Published October 1, 1927.

33,737.—*Title:* AGNEAU CRÈME. For Face Cream. H. W. LAMB, Sr., doing business as Agneau Laboratory, Vineland, N. J. Published November 30, 1927.

33,738.—*Title:* MARIE ROSE. For Face Powder. MARIE ROSE PERFUME CO., INC., New York, N. Y. Published February 25, 1927.

33,739.—*Title:* MARIE ROSE. For Cleansing Cream. MARIE ROSE PERFUME CO., INC., New York, N. Y. Published February 25, 1927.

33,740.—*Title:* AJAROF. For Bean Salads. THE E. P. MARSAN COMPANY, Chicago, Ill. Published December 19, 1927.

33,741.—*Title:* MERCHANTS' COOK BOOK AND HOUSEHOLD GUIDE. For Merchants' Cook Book and Household Guides and Containers Thereof. MERCHANTS' PUBLISHING CO., San Antonio, Tex. Published February 18, 1928.

33,742.—*Title:* GREEN DRAGON BRAND DRY PACK SHRIMP. For Shrimp. QUONG SUN COMPANY, INC., New Orleans, La. Published October 24, 1927.

33,743.—*Title:* SUNSHINE SATIN. For Ribbons. J. ROSEN & SONS, Paterson, N. J. Published August 1, 1927.

33,744.—*Title:* SCHMITT'S BAKERY BUTTER KREME KAKE. For Cake. WM. S. SCHMITT, doing business as Schmitt's Bakery, Kenosha, Wis. Published October 1, 1927.

33,745.—*Title:* THERMOSTATIC HEAT CONTROLS. For Heat Regulators. SIMPLEX HEAT REGULATOR COMPANY, Minneapolis, Minn. Published January 1, 1928.

33,746.—*Title:* E-W BRANDY SAUCE. For Brandy Sauce. R. R. STRANGE, Jr., doing business as E-W Products Co., San Francisco, Calif. Published December 15, 1927.

33,747.—*Title:* RENATE TETZLAFF COLD CREAM. For Cold Cream. TETZLAFF & MEYER, Los Angeles, Calif. Published October 17, 1927.

33,748.—*Title:* WALKER'S FANCY BEANS WITH CHILE GRAVY. For Canned Beans with Chile Gravy. WALKER PROPERTIES ASSOCIATION, Austin, Tex. Published January 30, 1928.

33,749.—*Title:* BOMEMIA REAL. For Malt Syrup. ARTHUR WERLIN, Philadelphia, Pa. Published February 8, 1928.

33,750.—*Title:* WRIGLEY'S P. K. PEPPERMINT—PINK P. K. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

33,751.—*Title:* WRIGLEY'S P. K. PEPPERMINT—PINK P. K. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

PRINTS

REGISTERED MARCH 27, 1928.

10,724.—*Title:* SWANK COLLAR HOLDER—LOOKS LIKE A PIN BUT ISN'T. For Collar Holders. THE BAER & WILDE COMPANY, Attleboro, Mass. Published September 1, 1927.

10,725.—*Title:* KUM-A-PART KUFF BUTTON FOR FRENCH CUFFS. For Cuff Buttons. THE BAER & WILDE COMPANY, Attleboro, Mass. Published December 1, 1927.

10,726.—*Title:* LES PASTELS COTY. For Rouge. COTY, INC., Wilmington, Del., and New York, N. Y. Published January 14, 1928.

10,727.—*Title:* MINTEAZ "PEPS-IN" GUM "TAKES THE DIE FROM INDIGESTION." For Chewing Gum. B. M. GORDON, Schenectady, N. Y. Published February 2, 1928.

10,728.—*Title:* ROOFLESS UPPER—LOCKIN LOWER. For Sets of Teeth. DR. HEWSON DENTAL CO., INC., Boston, Mass. Published December 27, 1927.

10,729.—*Title:* PICTURE FRAME CLAMP. For Picture-Frame Clamps. OTTO KNAPP, New York, N. Y. Published November 22, 1927.

10,730.—*Title:* SECURITY CEMENT. For Cement. NORTH AMERICAN CEMENT CORP., Albany, N. Y. Published December 3, 1927.

10,731.—*Title:* WHEN IN TROUBLE USE PABST'S OKAY SPECIFIC. For a Medicinal Preparation. EDMUND FRIDOLIN PABST, doing business as Pabst Chemical Co., Chicago, Ill. Published December 31, 1927.

10,732.—*Title:* I HAVE LEFT A LETTER FOR YOU WITH THE GROCER. For Postum Cereal and Instant Postum. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published January 1, 1927.

10,733.—*Title:* HERE IS THE LETTER I PROMISED YOU. A PERSONAL MESSAGE FROM CARRIE BLANCHARD. For Instant Postum and Postum Cereal. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published January 1, 1927.

10,734.—*Title:* MORE MILES TO THE GALLON. For Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

10,735.—*Title:* POWER. For Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

10,736.—*Title:* HEAD AND SHOULDERS ABOVE THEM ALL. For Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

10,737.—*Title:* UNCHANGING AS THE LEOPARD'S SPOTS. For Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

10,738.—*Title:* LEADERSHIP. For a Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

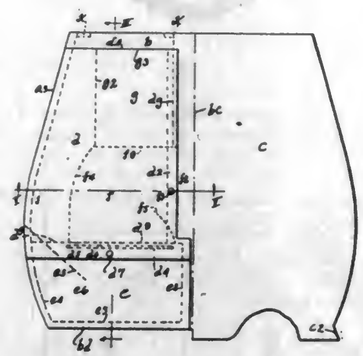
10,739.—*Title:* BEST IN COLD WEATHER. For Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

10,740.—*Title:* NOTHING ELSE LIKE IT! For Betholine Motor Fuel. SHERWOOD BROS. INC., Baltimore, Md. Published January 3, 1928.

REISSUES

MARCH 27, 1928.

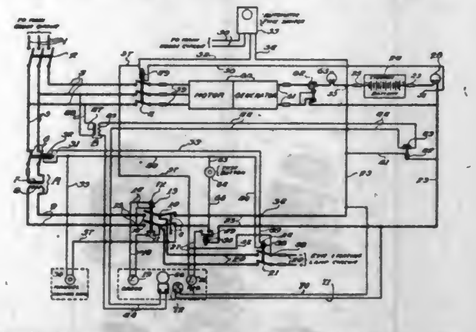
16,916. **GARMENT POCKET.** DAVID TRAXLER, Flint, Mich. Filed Nov. 4, 1926. Serial No. 146,267. Original No. 1,519,385, dated Dec. 16, 1924, Serial No. 590,285, filed Sept. 25, 1922. 7 Claims. (Cl. 2—253.)



1. A multiple pocket structure consisting of three complementary portions overlying each other, the inner and middle portions integrally connected at the bottom of the pocket and stitched to each other at other points so as to form a plurality of pocket compartments, and the third outside portion integral with the inside portion on one vertical edge of the pocket and stitched to the other portions on the remaining edges, thereby forming a large pocket compartment substantially the size of one of the complementary portions.

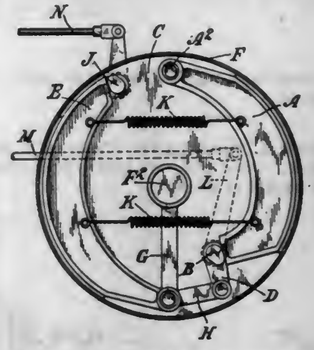
16,917. **EXIT-LIGHTING SYSTEM.** RALPH T. WILLIAMS, Chicago, Ill., assignor to Roth Brothers & Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1928. Serial No. 252,370. Original No. 1,650,676, dated Nov. 29, 1927, Serial No. 152,443, filed Dec. 8, 1926. 9 Claims. (Cl. 171—97.)

1. In an electric lighting system, a lamp circuit, a normally open switch in said circuit, a main circuit, a normally open switch in said main circuit, means controlled by current from said main circuit for connecting said main circuit with said lamp circuit, an auxiliary circuit, automatic means for connecting said auxiliary circuit with said lamp circuit upon failure of said main



circuit to supply current and means operated by current from said auxiliary circuit for closing said main circuit switch and said lamp circuit switch.

16,918. **BRAKE FOR VEHICLES.** LOUIS COATALEN, Wolverhampton, England, assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1927. Serial No. 205,007. Original No. 1,575,191, dated Mar. 2, 1926, Serial No. 680,404, filed Dec. 13, 1923. 82 Claims. (Cl. 188—78.)

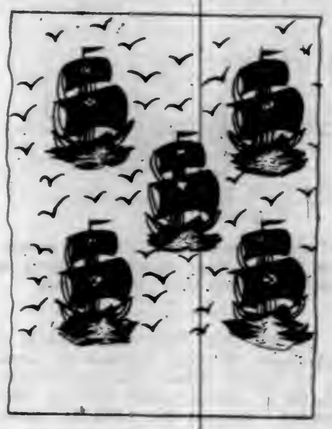


1. In a brake for a vehicle, the combination of a drum, a main segmental shoe inside said drum, a servo segmental shoe also inside said drum and on the opposite side of the axis of said drum, a fixed pivot for one end of said main shoe, an operative connection between the other end of said main shoe and the adjacent end of said servo shoe, including a lever and a cam operated thereby said cam engaging said main shoe.

DESIGNS

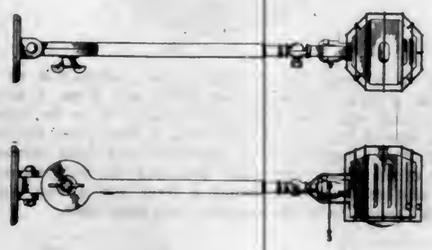
MARCH 27, 1928.

74,776. TEXTILE FABRIC. ALBERT H. BIBN, Philadelphia, Pa. Filed Dec. 24, 1926. Serial No. 20,147. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown.

74,777. DENTAL WALL LAMP. CHARLES T. BRADY, Detroit, Mich. Filed Nov. 11, 1926. Serial No. 19,670. Term of patent 14 years.



The ornamental design for a dental wall lamp, as shown.

74,778. DRAWER PULL. WILHELM G. CARLSON and OTTO JOHNSON, Jamestown, N. Y., assignors to The Furniture Hardware Corporation, Jamestown, N. Y., a Corporation of New York. Filed July 16, 1927. Serial No. 22,789. Term of patent 3½ years.



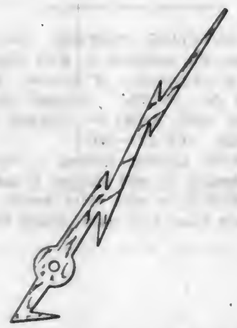
The ornamental design for a drawer pull as shown.

74,779. OIL CAN. CHARLES P. CATLIN, Jersey City, N. J. Filed June 24, 1926. Serial No. 18,161. Term of patent 14 years.



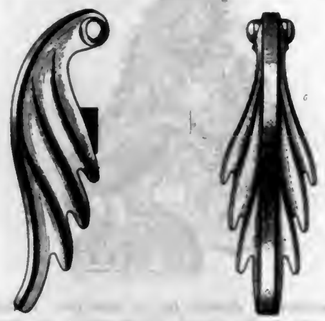
The ornamental design for an oil can, substantially as shown.

74,780. CLOCK HAND. WILLIAM H. CLARK, Brooklyn, N. Y., assignor to The Ansonia Clock Company, Brooklyn, N. Y., a Corporation of Connecticut. Filed July 7, 1927. Serial No. 22,686. Term of patent 3½ years.



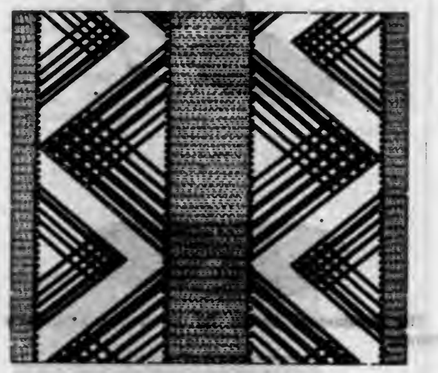
The ornamental design for a clock hand, substantially as shown.

74,781. CURTAIN-POLE END OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,295. Term of patent 3½ years.



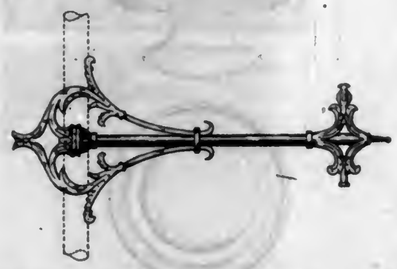
The ornamental design for a curtain pole end or similar article, substantially as shown.

74,782. TEXTILE FABRIC. JOSEPH DERK, Doylestown, Pa., assignor to The Derk Manufacturing Company, Doylestown, Pa., a Corporation of Pennsylvania. Filed Jan. 19, 1928. Serial No. 24,936. Term of patent 3½ years.



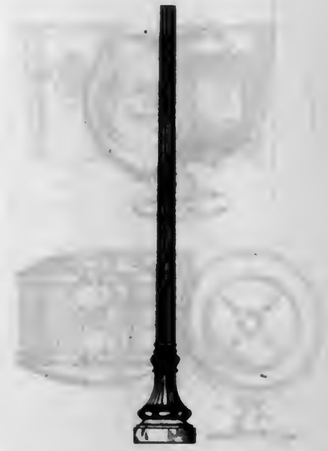
The ornamental design for a textile fabric, as shown.

74,783. LIGHTING BRACKET. ANDREW DE VRIES, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1927. Serial No. 20,369. Term of patent 14 years.



The ornamental design for a lighting bracket, as shown.

74,784. LIGHTING STANDARD. ANDREW DE VRIES, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1927. Serial No. 23,241. Term of patent 14 years.



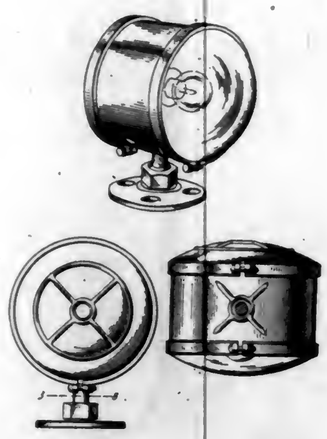
The ornamental design for a lighting standard, as shown.

74,785. LIGHTING STANDARD. ANDREW DE VRIES, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1927. Serial No. 24,520. Term of patent 14 years.



The ornamental design for a lighting standard substantially as shown.

74,786. AUTOMOBILE LAMP. LEO EDELMANN, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 20, 1925. Serial No. 15,198. Term of patent 3½ years.



The ornamental design for an automobile lamp, as shown.

74,787. CALENDAR. HOWARD L. FISCHER and CHARLES A. WARD, St. Paul, Minn., assignors to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 21, 1927. Serial No. 23,499. Term of patent 14 years.



The ornamental design for a calendar as shown.

74,788. COMBINED RADIATOR-CAP ORNAMENT AND TRAFFIC SIGNAL. ROY FISHER, Los Angeles, Calif. Filed Dec. 27, 1927. Serial No. 24,666. Term of patent 14 years.



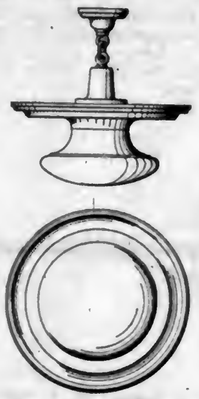
The ornamental design for a combined radiator cap ornament and traffic signal, substantially as shown.

74,789. SHOE. THOMAS J. FITZ HARRIS, New Rochelle, N. Y., assignor to Franklin Simon & Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,768. Term of patent 3½ years.



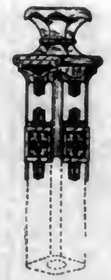
The ornamental design for a shoe, substantially as shown.

74,790. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo. Filed July 28, 1926. Serial No. 18,512. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

74,791. LAMP SUPPORT. CARL F. HAAS, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1927. Serial No. 24,519. Term of patent 14 years.



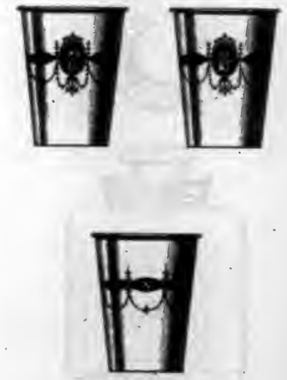
The ornamental design for a lamp support, substantially as shown.

74,792. LOUD SPEAKER. VITALIS HIMMER, Mountain Lakes, N. J. Filed Dec. 24, 1927. Serial No. 24,640. Term of patent 7 years.



The ornamental design for a loud speaker, as shown.

74,793. PAPER CUP OR SIMILAR ARTICLE. JOSEPH JOHNSON, New York, N. Y., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Dec. 19, 1927. Serial No. 24,545. Term of patent 14 years.



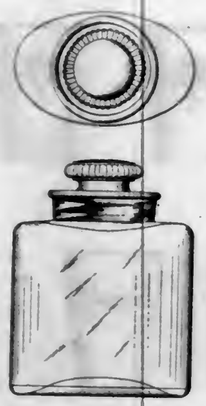
The ornamental design for a paper cup or similar article, as shown.

74,794. COVER PAPER OR SIMILAR MATERIAL. ALFRED LABRAM, Osterley Park, England, assignor to Whiting-Patterson Co., Inc., a Corporation of Pennsylvania. Filed Sept. 15, 1927, Serial No. 23,425, and in Great Britain May 16, 1927. Term of patent 3½ years.



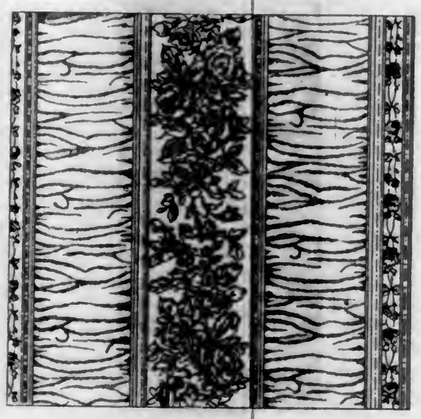
The ornamental design for cover paper or similar material as shown and described.

74,795. BATH-SALT BOTTLE. THOMAS J. LEWIS, New York, N. Y. Filed Dec. 23, 1927. Serial No. 24,600. Term of patent 14 years.



The ornamental design for a bath salt bottle, as shown.

74,796. TEXTILE FABRIC. JOSEPH MACK, New York, N. Y., assignor to Elias Reiss and Company, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1927. Serial No. 24,380. Term of patent 8½ years.



The ornamental design for a textile fabric, as shown.

74,797. TEXTILE FABRIC. JOSEPH MACK, New York, N. Y., assignor to Elias Reiss and Company, New York, N. Y., a Corporation of New York. Filed Dec. 13, 1927. Serial No. 24,466. Term of patent 8½ years.



The ornamental design for a textile fabric, as shown.

74,798. THERMOMETER. RICHARD E. MANN, New Brighton, N. Y. Filed Jan. 18, 1927. Serial No. 20,359. Term of patent 7 years.



The ornamental design for a thermometer as shown.

74,799. LACE. ALBERT E. NEWTON, Providence, R. I., assignor to The Rhode Island Lace Works, Inc., West Barrington, R. I., a Corporation of Rhode Island. Filed Jan. 25, 1928. Serial No. 25,029. Term of patent 8½ years.



The ornamental design for lace substantially as shown.

74,800. LACE. ALBERT E. NEWTON, Providence, R. I., assignor to The Rhode Island Lace Works, Inc., West Barrington, R. I., a Corporation of Rhode Island. Filed Jan. 25, 1928. Serial No. 25,080. Term of patent 8½ years.



The ornamental design for lace substantially as shown.

74,801. GOBLET OR SIMILAR ARTICLE. CHARLES H. PHILLIPS, Jr., Richmond Hill, N. Y., assignor to Seneca Glass Co., Morgantown, W. Va., a Corporation of West Virginia. Filed Apr. 28, 1927. Serial No. 21,777. Term of patent 7 years.



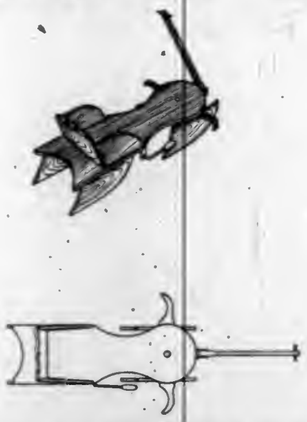
The ornamental design for a goblet or similar article, as shown and described.

74,802. HOLDER FOR A FOUNTAIN PEN OR THE LIKE. HENRY B. QUAIN, San Jose, Calif. Filed Nov. 23, 1927. Serial No. 24,262. Term of patent 14 years.



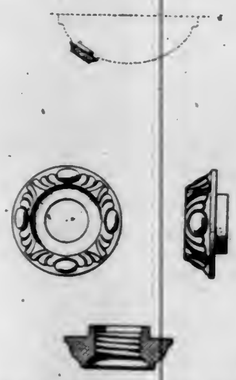
The ornamental design for a holder for a fountain pen or the like, as shown.

74,803. CHILD'S VEHICLE. EARL REEK, Oakland, Calif. Filed Sept. 24, 1926. Serial No. 19,159. Term of patent 3½ years.



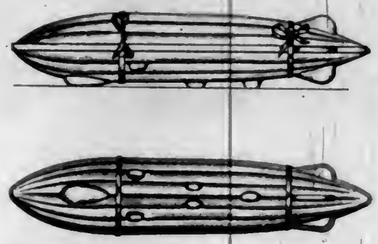
The ornamental design for a child's vehicle, substantially as shown.

74,804. SIGN-RECEPTACLE RING. MARK N. RUSSELL, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed July 26, 1927. Serial No. 22,884. Term of patent 14 years.



The ornamental design for a sign receptacle ring as shown.

74,805. BOX. AUGUST SCHAEFER, New York, N. Y., assignor of one-half to Adele Baltheiser, New York, N. Y. Filed Dec. 9, 1924. Serial No. 11,626. Term of patent 14 years.



The ornamental design for a box, as shown.

74,806. EMBROIDERED LACE MEDALLION. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 26, 1928. Serial No. 25,035. Term of patent 3½ years.



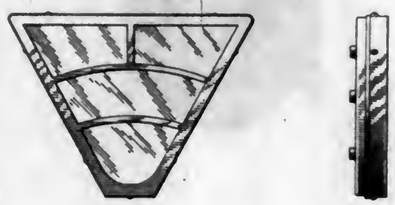
The ornamental design for an embroidered lace medallion, as shown.

74,807. SMOKING STAND. ALBERT A. SMALLHOUSE, Los Angeles, Calif. Filed June 27, 1927. Serial No. 22,570. Term of patent 3½ years.



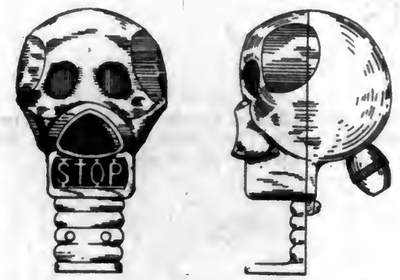
The ornamental design for a smoking stand, as shown and described.

74,808. VEHICLE SIGNAL CASING. GEORGE T. SMITH, Hannibal, Mo. Filed Aug. 4, 1926. Serial No. 18,592. Term of patent 7 years.



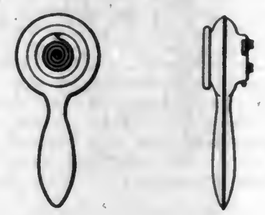
The ornamental design for a vehicle signal casing, as shown.

74,809. AUTOMOBILE SIGNAL-LIGHTS CASING. FRANK W. SNEDDEN, Wilkinsburg, Pa. Filed June 27, 1927. Serial No. 22,582. Term of patent 3½ years.



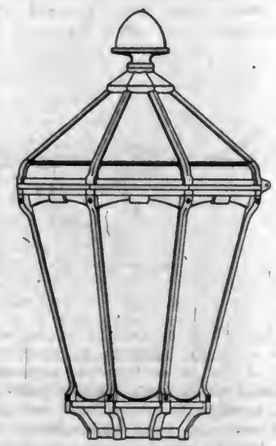
The ornamental design for an automobile signal lights casing, substantially as shown.

74,810. CIGAR AND CIGARETTE LIGHTER. JASON C. STEARNS, Worcester, Mass. Filed Aug. 31, 1927. Serial No. 23,257. Term of patent 14 years.



The ornamental design for a cigar and cigarette lighter as shown.

74,811. POST-TOP LANTERN. JOHN R. TOWNSEND, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 22, 1925. Serial No. 14,852. Term of patent 14 years.



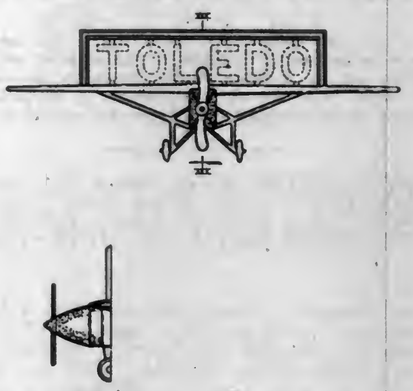
The ornamental design for a post top lantern as shown.

74,812. ICE-CREAM CONE. RALPH C. TURNER, Philadelphia, Pa., assignor to American Cone & Pretzel Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Nov. 14, 1927. Serial No. 24,121. Term of patent 7 years.



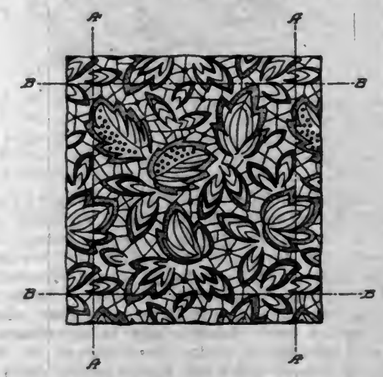
The ornamental design for an ice cream cone as shown.

74,813. AUTOMOBILE RADIATOR DECORATION. IRVIN W. VAN GUNTEN, Toledo, Ohio. Filed Sept. 19, 1927. Serial No. 23,458. Term of patent 3½ years.



The ornamental design for an automobile radiator decoration as shown.

74,814. COVER PAPER OR SIMILAR MATERIAL. LOUIS WAGNER, Berlin, Germany, assignor to Whiting-Patterson Co., Inc., a Corporation of Pennsylvania. Filed Sept. 23, 1927, Serial No. 23,523, and in Germany July 5, 1927. Term of patent 3½ years.



The ornamental design for cover paper or similar material as shown and described.

PATENTS

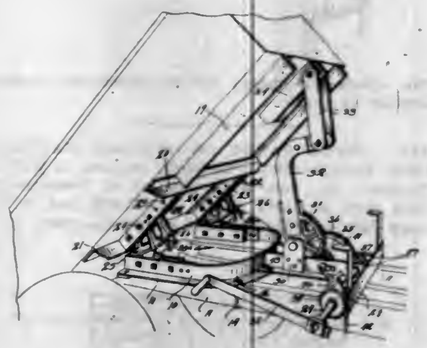
GRANTED MARCH 27, 1928

1,663,536. TEE-FORMING DEVICE. EDWARD LELAND BASS, Chicago, Ill. Filed Mar. 5, 1927. Serial No. 172,945. 4 Claims. (Cl. 273—33.)



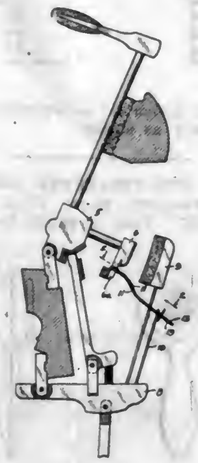
3. In a golf tee mold, an upper body section open at its lower end and of a depth to form a tee of average height, and an extension member detachably secured to the upper body section and forming a continuation thereof for producing a tee of greater than average height.

1,663,537. DUMPING TRUCK. PERRY A. BRICK, Galion, Ohio, assignor to The National Grave Vault Co., Galion, Ohio, a Corporation of Ohio. Filed Mar. 4, 1926. Serial No. 92,368. 1 Claim. (Cl. 298—10.)



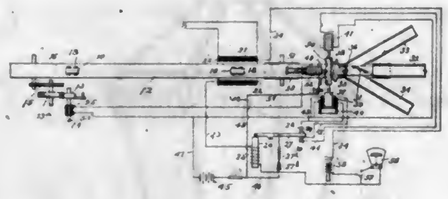
The combination with a truck body having two pairs of longitudinally depending angle irons extending from its bottom and having rockers adjustably engaged with said angle irons for longitudinal adjustment toward or from the rear end of the body, of an approximately U-shaped supporting frame therefor formed of angle iron to provide an outwardly extending base flange adapted to rest upon a truck chassis, clamp bolts engaging the flange and adapted to engage the beams of the truck chassis, the legs of said frame having parallel irons and transverse pins thereby constituting rocker bearings, the rockers being toothed to engage said pins.

1,663,538. BRIDLE FOR PIANO ACTIONS. HIRAM E. CHUTE, Los Angeles, Calif. Filed Aug. 24, 1925. Serial No. 52,237. 2 Claims. (Cl. 84—243.)



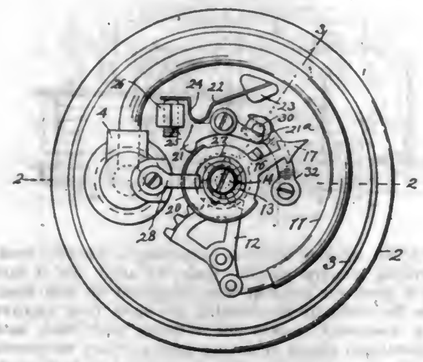
1. As a new article of manufacture, a bridle for piano actions formed of a single length of cord looped upon itself, and a flexible tip comprising two sheets of material secured to each other and between which the free ends of the cord are secured.

1,663,539. METHOD AND APPARATUS FOR TESTING AND SORTING MATERIALS. JAMES G. BELLINGER, Cleveland, Ohio. Filed Oct. 11, 1919. Serial No. 329,914. 3 Claims. (Cl. 209—72.)



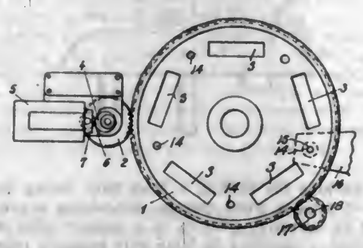
1. The method which consists in successively subjecting pieces to a device sensitive to variations in the permeabilities of the pieces from the permeability of a test or standard piece, and utilizing said device for automatically sorting the pieces into one lot if their permeabilities are equal to or approximate the permeability of the test or standard piece, or into one of a plurality of other lots depending upon the character of the differences between their permeabilities and the permeability of the test piece.

1,663,540. AIR GAUGE. ADELBERT E. BRONSON, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 11, 1923. Serial No. 656,930. 8 Claims. (Cl. 73—109.)



1. An air gauge comprising a thin flat casing having an opening in the bottom wall thereof, a Bourdon tube within the casing having one end fixed and communicating with said opening, an indicator movably mounted within the casing, means connecting the free end of the Bourdon tube with the indicator for actuating the same, a spring pressed brake within the casing for holding the pointer in that position to which it is moved in the operation of the Bourdon tube, and a manually operable plunger mounted in the bottom wall of the casing and engageable with the brake to release the same.

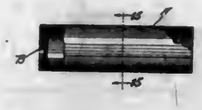
1,663,541. TYPESETTING AND LINE-CASTING MACHINE. WALTER BUSWELL, Bridgeport, Conn., assignor to Standard Compositor Aktiengesellschaft, Berlin, Germany. Filed Jan. 10, 1925, Serial No. 1,598, and in Germany Feb. 14, 1924. 8 Claims. (Cl. 199—47.)



1. In typebar casting machines and the like, a rotatable toothed mold carrying wheel, means to rotate said wheel relative to the casting and ejecting positions, and means to co-operate with the mold carrying wheel operative to forcibly and yieldingly retard the movement of said wheel as it approaches the casting and ejecting positions.

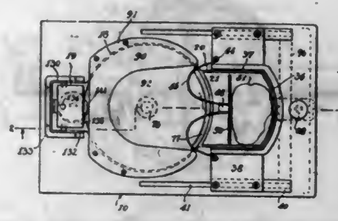
1,663,542. PROCESS OF MAKING CONTAINERS. ROBERT G. CLYNE, St. Louis, Mo. Filed Feb. 4, 1926. Serial No. 86,056. 2 Claims. (Cl. 93—36.)

1. The process of producing an integrally closed-end tubular, longitudinally rigid container, which consists in first saturating a sheet of paper with an adhesive, then tightly coiling the adhesive sheet upon a mandrel and simultaneously compressing the successive coils into a compacted convoluted tubular body, then by spinning



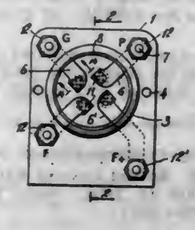
converting a coiled end-portion of the body into an integral end closure therefor, and then swaging said spun-in end-closure.

1,663,543. SLICING MACHINE. JAMES W. BUCK, New York, N. Y., assignor of one-half to Charles L. Dean, New York, N. Y. Filed Feb. 27, 1925, Serial No. 12,030. Renewed Aug. 18, 1927. 14 Claims. (Cl. 146—105.)



1. In combination, a meat supporting platform; a reciprocatory hopper over said platform; a rotary disk plate near said platform; a stacker table under the platform; and means for moving the table downward.

1,663,544. TUBE SOCKET. LESLIE D. BURDESSER, New York, N. Y., assignor to Spartan Electric Corporation, a Corporation of New York. Filed Nov. 22, 1924. Serial No. 751,503. 8 Claims. (Cl. 173—328.)



1. A vacuum tube socket comprising a socket base, a tube holder carried by said base, a plurality of binding posts supported by said base and arranged close to said tube holder, and a binding post fixed to said base at a point remote from said holder whereby two straight bus wires can be connected directly to two adjacent binding posts without coming into contact with each other.

1,663,545. POLISH APPLYING AND RUBBING IMPLEMENT. EDWARD ALPHONSE FARISH, Auteuil, France. Filed Feb. 27, 1924, Serial No. 695,404, and in France Mar. 1, 1923. 2 Claims. (Cl. 15—108.)

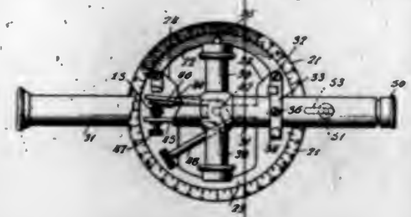
1. In an implement of the character described, the combination with a flanged supporting plate, of a mounting provided with a rubbing surface and having means

for engagement with the flanges on said plate for retaining said mounting thereon, a collapsible tube for containing polish, means for retaining said tube on said



plate, said mounting having a hole therein leading to the rubbing surface thereof for receiving a portion of said tube, and means for ejecting polish from said tube.

1,663,546. CONVERTIBLE LEVEL AND TRANSIT. JAMES GEIER, Troy, N. Y. Filed Feb. 26, 1926, Serial No. 90,746, and in Canada Feb. 27, 1925. 7 Claims. (Cl. 33—73.)



1. A convertible level and transit including a base, a platform rotatable with respect thereto and having a standard, a telescope supported by said standard, a micrometer device carried by said base and including arms arranged on opposite sides of said standard, and means carried by said arms and engageable with said standard for effecting minute adjustments of said platform and telescope relative to said base.

1,663,547. REFRACTORY MATERIAL AND THE ACTIVATION THEREOF. WILLIAM BENJAMIN GERO, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 17, 1923. Serial No. 652,184. 13 Claims. (Cl. 250—27.5.)

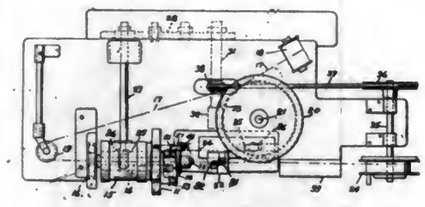
1. The method of activating thoriated refractory metal comprising treating the same before drawing to final size in an atmosphere reducing with respect to thoria.

1,663,548. TRUCK CONSTRUCTION FOR ELECTRIC LOCOMOTIVES. ROBERT FRANCIS HALL, Schenectady, N. Y. Filed June 18, 1926. Serial No. 116,797. 6 Claims. (Cl. 105—175.)



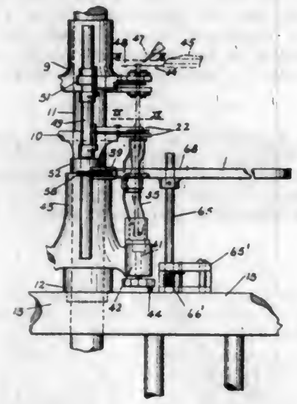
1. In a railway vehicle, a body portion, a plurality of trucks on which the body portion is supported, said trucks having swiveled connections with the body portion, means in said swiveled connections for yieldingly resisting swiveling action of the trucks, and a set of guide wheels for each truck, said guide wheels being mounted for lateral swiveling action with relation to the associated trucks and cooperating with the resisting means in the swiveled connections of the trucks to accomplish the guiding action.

1,663,549. COIL-WINDING MACHINE. JOHN JOSEPH HIGGINS, East Orange, and MILTON ARMSTRONG HOYT, Bloomfield, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 26, 1923. Serial No. 653,847. 11 Claims. (Cl. 153—67.)



4. A coil winding machine comprising a winding head, a traveling mandrel movable upon the axial line of said head, a spool for filament wire supported on said head, means for normally maintaining the spool from relative rotary movement, means for rotating said head, said first-mentioned means operating upno a rotary movement of said head to permit a rotary movement of said spool.

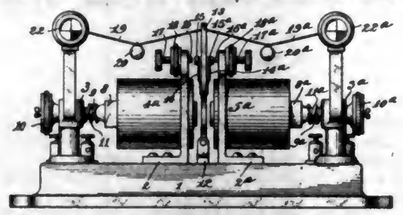
1,663,550. LAMP-STEM HOLDER. JOHN JOSEPH HIGGINS, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Dec. 3, 1924. Serial No. 753,550. 7 Claims. (Cl. 176—3.)



7. A machine for holding a lamp part during the insertion of support wires therein, comprising a conveyor disposed in operative relation to a support wire inserting machine, a plurality of lamp part supports rotatably mounted on said conveyor for successive disposition adjacent to said inserting machine, each holder including a plurality of pairs of rollers positioned to align a lamp part upon the axis of rotation of a support, a lever arm associated with each pair of rollers to press the lamp part thereagainst and means for automatically actuating the arms to release said part.

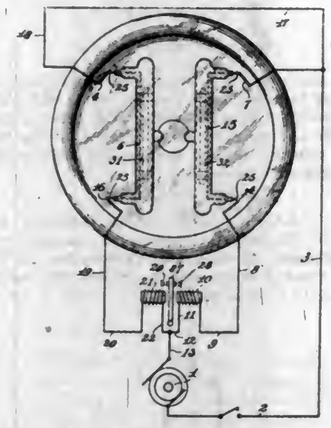
1,663,551. ALTERNATING-CURRENT RELAY. EDWARD L. HOLMES, New York, N. Y., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1925. Serial No. 4,618. 10 Claims. (Cl. 200—91.)

1. In an alternating current relay, a coil, an armature actuated by said coil, a contact member yieldingly mounted on said armature, a stationary contact member coacting with said first-named contact member and a weighted connection between said armature and an out-



side support for damping the vibrations of said armature and preventing the separation of the contacts when in engagement.

1,663,552. ELECTROLYTIC RHEOSTAT. EDWARD L. HOLMES, New York, N. Y., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1925. Serial No. 4,619. 20 Claims. (Cl. 201—48.)



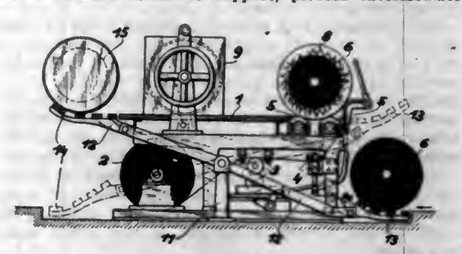
2. In a rheostat, an electrolyte, a container for said electrolyte, electric circuits including said electrolyte and a plurality of conductors attached to said container and contacting with said electrolyte and a plurality of conductors movable in said container and contacting with said electrolyte, said conductors being so constructed and arranged that displacement between said container conductors and said movable conductors increases the resistance of one of said container circuits only.

1,663,553. ELECTRON-EMITTING MATERIAL. CHARLES V. IRZDELL, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Feb. 24, 1927. Serial No. 170,744. 11 Claims. (Cl. 250—27.5.)

8. A refractory metal body adapted to be activated for electron emission purposes consisting of tungsten containing from 1 to 8% of thorium oxide and from .5 to 4% of cerium oxide based on the thorium oxide content.

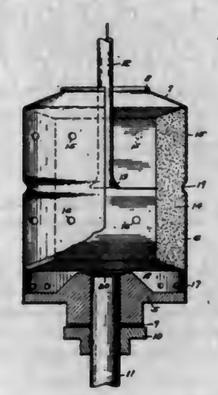
1,663,554. PAPER-ROLL WRAPPING MACHINE. GÜNTHER MEYER-JAGENBERG, Dusseldorf, Germany. Filed Apr. 7, 1927, Serial No. 181,697, and in Germany Jan. 19, 1926. 4 Claims. (Cl. 93—2.)

1. In a device of the kind described in combination, elevated means for supporting and rotating a roll about which flexible material is to be wrapped, means arranged at a lower level than said roll supporting means for supporting and guiding wrapping material into contact with said roll about which such material is to be wrapped, and a rockable lever-like support, pivoted intermediate



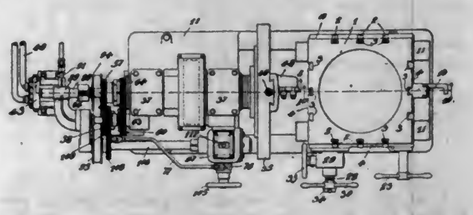
its ends, and adapted for respectively supporting a roll to be wrapped and a roll which has been wrapped at its opposite ends and for respectively raising and lowering the said rolls into and out of cooperative relationship with respect to the elevated supporting means.

1,663,555. SPINNING POT. CHARLES C. JESSEN, Clifton, N. J., assignor to Napon Rayon Corporation, Clifton, N. J., a Corporation of Delaware. Filed Apr. 9, 1927. Serial No. 182,379. 7 Claims. (Cl. 118—56.)



1. A centrifuge of the character described having liquid escape openings formed therein near the bottom, of means carried by the centrifuge for preventing the cake formed in said centrifuge from moving downwardly.

1,663,556. METAL-CUTTING MACHINE. FRANK S. JONES, Philadelphia, Pa. Filed May 6, 1925. Serial No. 28,297. 18 Claims. (Cl. 82—2.)

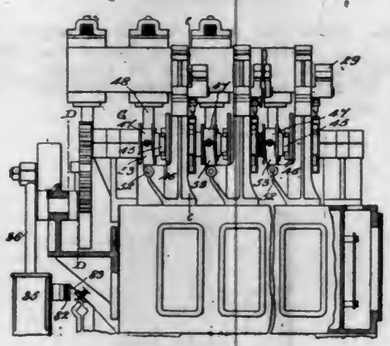


1. In a metal cutting machine having a bed, a facing head rotatable in the bed and a tool holder movable on the head; a work carrier including a saddle mounted on the bed, a journal formed on the saddle, a table ro-

tatably mounted on the saddle, a bearing formed in the table and engaging the journal, a flange formed on the table and bearing on the saddle, a plural faced chuck fixed on the table, and means for moving the work carrier toward and from the head.

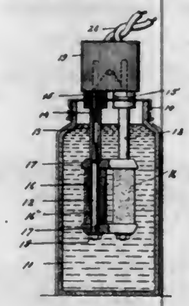
15. A metal cutting machine including a bed; a chuck movable on the bed; a hollow spindle rotatable in the bed; a facing head fixed to the spindle; a tool holder movable on the head; a hollow shaft rotatable in the spindle and operatively connected with the spindle for moving the tool holder; a telescoping shaft within the hollow shaft and fastened to rotate with the spindle; variable speed driving mechanism for rotating the spindle; a screw on the telescoping shaft; a nut fixed to the hollow shaft for moving the screw lengthwise, and means operatively connected with the screw for changing the speed of the driving mechanism as the screw moves lengthwise.

1,663,557. VALVE-OPERATING MECHANISM. JAMES S. KENNEDY, Yonkers, N. Y., assignor to The Bartlett Hayward Company, a Corporation of Maryland. Filed Feb. 15, 1923. Serial No. 619,258. 9 Claims. (Cl. 137—144.)



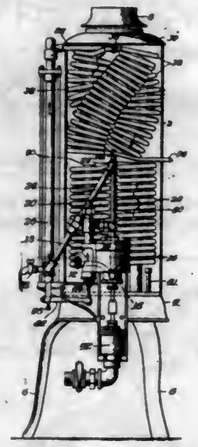
1. In combination with a group of control valves, mechanism for positively operating the same in two directions and operative connections between said valves and said mechanism adapted to permit manual operation of any valve unimpeded by said mechanism.

1,663,558. ELECTRIC HEATER. NICHOLAS LAWNER, Brooklyn, N. Y., assignor to American Sundries Co., Inc., a Corporation of New York. Filed May 20, 1927. Serial No. 192,837. 5 Claims. (Cl. 219—40.)



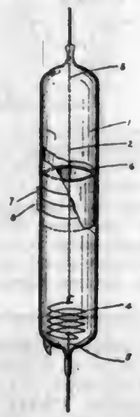
1. In an electric heater, spaced parallel electric conductors and electrodes rotatably mounted on said conductors and so shaped in relation to their axes that by rotation of said electrodes the opposite acting surfaces thereof are brought closer to or farther away from one another thereby reducing or enlarging the gap.

1,663,559. AUTOMATIC WATER HEATER. HARRY J. LYONS, Geneva, Ill., assignor to Geneva Heater Company, Geneva, Ill., a Corporation of Illinois. Filed July 28, 1924. Serial No. 728,529. 14 Claims. (Cl. 236—20.)



1. In a water heater, primary and secondary heating coils, means to effect heat transfer with said coils, and means in series with and between the primary and secondary coils and operable by a variation of the temperature of a primary coil for varying the heating effect of said heat transfer means.

1,663,560. FILAMENT FOR INCANDESCENT LAMPS. GEORGE W. MEISTER, Irvington, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Feb. 20, 1926. Serial No. 89,623. 7 Claims. (Cl. 176—132.)



3. A filament for an incandescent lamp consisting of a solid solution of tungsten and molybdenum, said molybdenum being present in relatively small proportions whereby said filament has a lower vapor pressure than ordinary tungsten at the same temperature.

1,663,561. ELECTRON-DISCHARGE DEVICE. GEORGE DEAN O'NEILL, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 3, 1927. Serial No. 172,569. 9 Claims. (Cl. 250—27.5.)

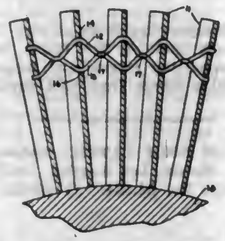
1. A clean-up material for common gases comprising a refractory metal having incorporated therein, a quantity of aluminum.

1,663,562. HEATING COIL FOR HOT-WATER SYSTEMS. JOHN J. PARKINSON, Chicago, Ill. Filed Aug. 9, 1923. Serial No. 656,516. 1 Claim. (Cl. 257—254.)



In combination with a tube adapted to be disposed in the water in a boiler and having a partition therein dividing the tube into water traversing compartments arranged in series, a fitting connected to said tube and having a cold water inlet, and a hot water outlet, a partition in said fitting separating the cold water inlet from the hot water outlet, said partition being slightly spaced from the front edge of the partition in said tube to prevent the trapping of air in said tube.

1,663,563. TURBINE-BLADE LASHING. JAMES L. RAY, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 12, 1925. Serial No. 56,039. 8 Claims. (Cl. 253—77.)

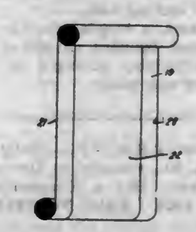


1. Lashing means for turbine blades comprising cooperating lashing members secured at two points to a blade and joined together intermediate adjacent blades in a row.

1,663,564. REFRACTORY METAL FILAMENT. MALCOLM N. RICH, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Oct. 30, 1925. Serial No. 65,881. 9 Claims. (Cl. 176—132.)

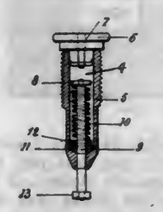
6. The method of treating refractory metal filaments which consists in cleansing the surface thereof and eliminating hydrogen therefrom subsequent to the swaging operation, reducing the wire to filamentary size and prior to reduction of the filament to its final size, retreating the same to eliminate impurities which have been introduced during the reducing process.

1,663,565. ROOFING MATERIAL. THOMAS ROBINSON, Babylon, N. Y., assignor to Anaconda Sales Company, a Corporation of Delaware. Filed Aug. 15, 1923. Serial No. 657,472. 2 Claims. (Cl. 154—51.)



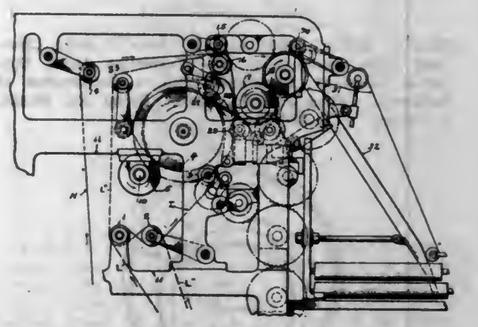
1. A roofing material suitable for flashings, valleys, and the like, which comprises a strip of relatively thin, fibrous, waterproof material readily flexible longitudinally and transversely, and a band of weather-resisting metal narrower than the strip applied to one face thereof so as to leave uncovered selvages of substantial width, the metal band being of insufficient mechanical strength to permit its use alone, and being readily flexible so that the strip is stiffened only to a slight extent by its application.

1,663,566. THERMOSTAT. GEORGES GASTON ROYER, Paris, France. Original application filed May 8, 1925, Serial No. 28,871. Divided and this application filed Feb. 6, 1926, Serial No. 86,440, and in Canada May 12, 1925. 5 Claims. (Cl. 297—6.)



1. A thermostat comprising a fluid container, a pressure responsive rod extending through the wall of said container, a packing ring surrounding said rod adjacent said wall and means disposed on said rod for compressing said packing ring in proportion to the increase in pressure developed in said container.

1,663,567. ASSOCIATING MECHANISM. LOUIS A. SCHMIDT, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 12, 1927. Serial No. 183,151. 2 Claims. (Cl. 270—42.)

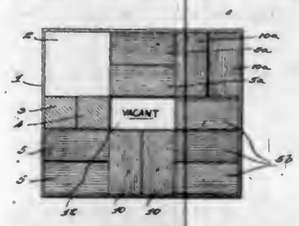


1. The combination of means for forwarding a high speed web, means for forwarding a web at a lower speed, a pair of cooperating cutting cylinders for severing a sheet from the low speed web, a second pair of cutting and associating cylinders to which the high speed web and low speed sheet are forwarded for cutting a sheet from the high speed web, sheet holding means carried by the outer of the last pair of cylinders for positively holding the sheet and web during the last cutting operation, and a folding delivery to which the associated sheets are delivered directly by the sheet holding means.

1,663,568. PUZZLE. JOHN M. SCHNEIDER, Detroit, Mich. Filed Mar. 21, 1927. Serial No. 176,939. 2 Claims. (Cl. 273—132.)

1. A sliding block puzzle comprising a flat container arranged to contain three separate rows of blocks (the rows considered as running longitudinally to the line of vision), each row being two units wide and five units

high, there being fitted into the container two single-unit blocks, eleven two-unit blocks, and one four-unit block, leaving a two-unit empty space, all the two-unit blocks being the same shape and size, whereby the first row to the left can contain two transversely lying two-unit blocks, followed by two one-unit blocks, and finally a four-unit block; the second row can contain two longitudinally lying (with the line of vision) two-unit

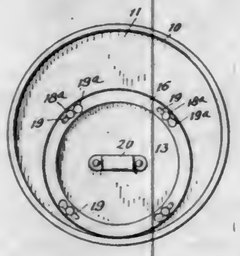


blocks, a vacant space, and two transversely extending two-unit blocks, while the final row can contain three transversely lying two-unit blocks and finally, two longitudinally lying two-unit blocks, and the intended goal can be sliding the blocks to obtain a block position which is exactly the block position that would be obtained by turning the box as a whole through a half turn.

1,663,569. PREPARATION OF CAMPHENE. WILHELM SCHULENBURG, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1927, Serial No. 171,373, and in Germany Feb. 27, 1926. 4 Claims. (Cl. 260—167.)

1. The method for the preparation of camphene from pinene hydrochloride through the splitting out of hydrochloric acid, by means of alkali metal monoxide.

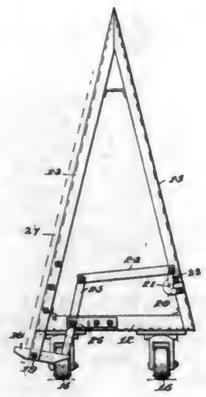
1,663,570. METAL CONTAINER. JOHN P. SENZ, Cleveland, Ohio, assignor to The Perfection Metal Container Company, Cleveland, Ohio, a Corporation of Delaware. Filed Jan. 11, 1926. Serial No. 80,436. 4 Claims. (Cl. 220—55.)



1. A container having a head with an opening for a cover and having upstanding locking pins, and a cover having slots to receive the pins and having cam portions co-operating with the pins so as to lock and tighten the cover when the latter is turned so as to move the slotted portions relative to the pins.

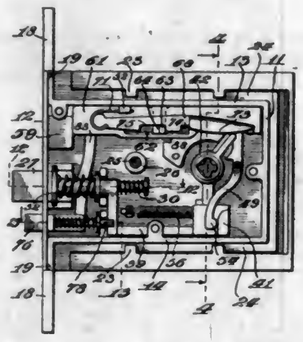
1,663,571. TRUCK. FRANK RUSSELL SHEDD, Center Rutland, Vt., assignor to Vermont Marble Company, a Corporation of Vermont. Filed Apr. 6, 1927. Serial No. 181,477. 2 Claims. (Cl. 280—49.)

1. A truck consisting of an endwise triangular four-wheeled frame-work comprising sets of inclined uprights and a broad base, cross bars connecting said uprights together near said base, lower longitudinal bars connecting said uprights to said cross-bars, and an upper longitudinal bar connecting said uprights together near their tops, one set of said uprights having depending



extensions, a slab-supporting lever pivoted to one of said extensions at each end of the truck, holding levers engaging said supporting levers, and means for releasing the said holding levers from said supporting levers.

1,663,572. NOTCH BOLT LATCH. THOMAS F. STUART and HENRY A. MOORE, Los Angeles, Calif. Filed Nov. 12, 1925. Serial No. 68,564. 11 Claims. (Cl. 292—33.)



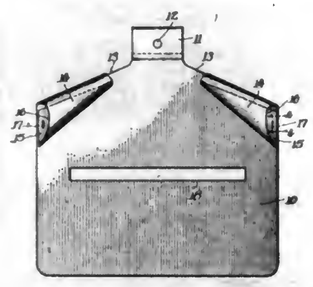
1. In a door latch, a housing, a latching bolt arranged for operation therein, a locking bolt arranged for operation within said housing, a pair of independently operable knobs associated with said latch, means associated with each knob for retracting said latching bolt and means associated with one knob for projecting and retracting the locking bolt.

10. In a door latch, a housing for the locking mechanism, which housing includes an end plate and auxiliary end plates adjustably arranged on the upper and lower edges of said end plate.

1,663,573. GARMENT-HOLDING FORM. CHARLES H. THARP, Chicago, Ill., assignor to Montgomery Ward & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1924. Serial No. 732,597. 2 Claims. (Cl. 223—66.)

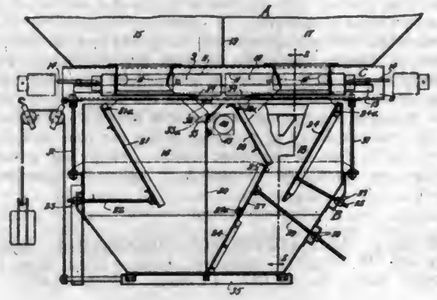
1. In a garment holding form of the class described, a body portion, an arched shoulder supporting pad folded to overlie the body portion, a fastening flap connected to the shoulder supporting pad and folded at an angle

thereto to lie in contact with the body portion, the outer end of the fastening flap being exposed at the front beyond the outer end of the shoulder supporting



pad, and fastening means applied to the exposed end of the fastening flap and the body portion to hold the shoulder supporting pad in arched relation to the body.

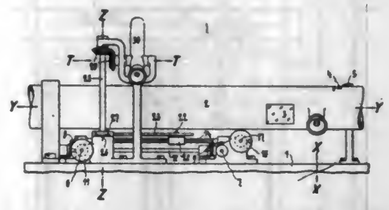
1,663,574. APPARATUS FOR HANDLING BULK MATERIALS. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Dec. 1, 1924. Serial No. 753,014. 14 Claims. (Cl. 265—27.)



1. A batcher device comprising in combination, a bin divided into compartments for coarse and fine aggregate, a hopper therebelow divided into compartments by a partition each compartment of the hopper being in registry with a compartment of the bin, means for altering the effective volumetric capacity of the hopper compartments, gate means for controlling the discharge from the bin compartments to the hopper compartments and means for discharging the contents of said hopper.

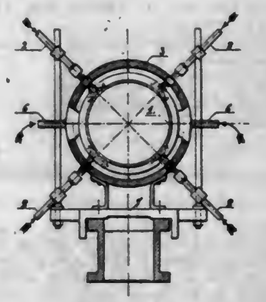
1,663,575. ANTIAIRCRAFT FIRE-CONTROL APPARATUS. SAMUEL JOHANNES VAN DEN BERGH, the Hague, Netherlands, assignor to the Firm: N. V. Nederlandsche Instrumenten Compagnie, the Hague, Netherlands. Filed July 19, 1926, Serial No. 123,516, and in Germany July 25, 1925. 2 Claims. (Cl. 33—67.)

1. In an antiaircraft fire control apparatus a telemeter and a sighting telescope, these two instruments being adjustable in elevation and azimuth, a carriage guide, a sliding carriage displaceable along this carriage guide, a second carriage guide fixed on the said sliding carriage and being perpendicular to the first carriage guide, a second sliding carriage displaceable along the second carriage guide, means for displacing the two sliding carriages in the carriage guides, a ruler, rotatable in a plane parallel to the two carriage guides, means adapted to keep the second sliding carriage in contact with this ruler, means



for coupling the ruler to the said sighting telescope, so that the sighting telescope rotates in elevation with a rotation of the ruler through the same angle, and means for coupling the sighting telescope and the telemeter, so that both always laterally rotate through the same angle.

1,663,576. APPARATUS FOR HOT WORKING METAL. WACLAW VON KOSSOWSKI, Warsaw, Poland. Filed Nov. 8, 1924, Serial No. 748,794, and in Poland July 12, 1924. 1 Claim. (Cl. 153—73.)



Apparatus for hot-working metal comprising an annular casing, means for injecting a burning mixture of gas and air into said casing substantially in radial direction and means connected with said casing and adjoining said injecting means for forming a radial veil of air adapted to screen off the heat emitted by said burning mixture.

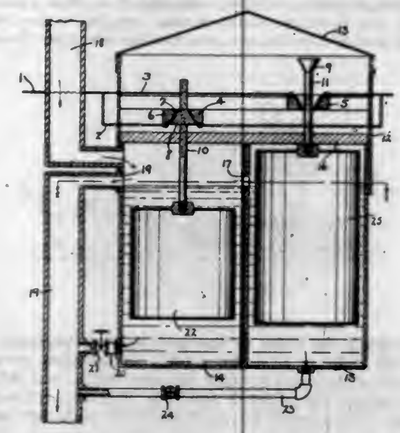
1,663,577. FIRE-RESISTING COMPOSITION. JOSEPH RIGBY WATSON, Berkeley, Calif. Filed Mar. 23, 1925. Serial No. 17,795. 4 Claims. (Cl. 134—44.)

4. A fire resisting composition containing the following ingredients in approximately the proportions stated: linseed oil, ½ gallon; alum, 2 pounds; asbestine, 2 pounds; carbon tetrachloride, 1 quart; and from 1 to 2 ounces of sulphuric acid for each gallon of the composition.

1,663,578. AUTOMATIC SWITCH FOR OIL-WELL MOTORS. WILLIAM WERNER, Mexia, Tex. Filed Apr. 6, 1926, Serial No. 100,096. Renewed May 9, 1927. 8 Claims. (Cl. 103—12.)

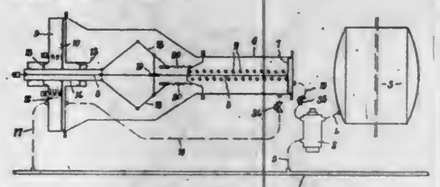
1. In a device of the character described, an electric circuit including a conductor having two branches, a switch in each of said branches, comprising two spaced

plates, a rod of electrically insulating material, a contact member on said rod shaped to fit between said plates, float chambers, floats therein connected with said rods,



said chambers having inlets and outlets for liquid arranged to open or close said switches controlled by the amount of liquid delivered to said chambers.

1,663,579. BRAKE SYSTEM ACTUATED BY FLUID PRESSURE. ANDERS ANDERBERG and ERIK ANDERS ANDERBERG, Malmo, Sweden. Filed Aug. 18, 1926, Serial No. 130,036, and in Sweden Aug. 19, 1925. 19 Claims. (Cl. 303—6.)



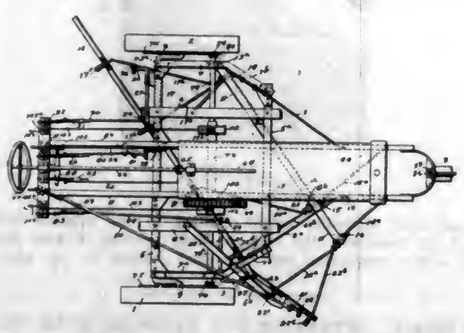
3. A fluid actuated brake system having two operating devices of different types, in which one of the said operating devices consists of a brake having quick action and relatively small brake power while the other operating device consists of an air brake having small movement and, in relation to the first named device, great and successively controllable brake power, the said two operating devices acting upon a common rod by means of a mechanism automatically establishing a releasable connection between said rod and the brake of large braking power when the piston of said latter brake moves in one direction and automatically releasing the connection when said piston moves in the opposite direction.

1,663,580. CONTRIVANCE FOR FASTENING WOODWORK. BRUNO SEVERIN ANDERSIN, Helsingfors, Finland. Filed Dec. 1, 1926, Serial No. 152,044, and in Finland Nov. 12, 1925. 6 Claims. (Cl. 20—92.)



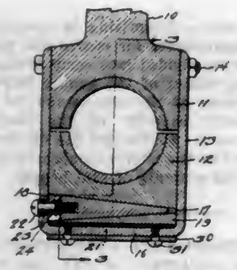
1. A fastener for fastening together two pieces of wood comprising a substantially flat member adapted to be inserted into a groove cut into the joining faces of the pieces of wood to be fastened together, and having tongues projecting from the plane of said member and adapted to bite into the wood upon a turning of said member in said groove.

1,663,581. ROAD SCRAPER. JOHN B. BARTHOLOMEW, Peoria, Ill., assignor to Avery Company, Peoria, Ill., a Corporation of Illinois. Filed July 9, 1921. Serial No. 483,478. 6 Claims. (Cl. 37—163.)



1. In an automotive road scraper machine, the combination of a frame having a longitudinally elongated element in the central vertical longitudinal planes of the machine and an elongated transverse element extending beyond the sides of said longitudinal element, traction wheels supporting said transverse frame element, wheeled guiding means constituting an additional support for the forward end of the longitudinally elongated element of the frame, a scraper suspended beneath the frame and extending transversely thereof in an inclined direction, the ends of the scraper extending across the longitudinal vertical planes of the traction wheels with one end in advance of the traction wheel at that side of the machine and the other end in rear of the other traction wheel, and power devices on the frame connected to drive the traction wheels.

1,663,582. SELF-ADJUSTING CONNECTING ROD. HOMER W. BONNEY, Kingsley, Iowa. Filed Nov. 1, 1926. Serial No. 145,611. 4 Claims. (Cl. 308—68.)



1. A self-adjusting connecting rod for automobiles, comprising a rod having an integral bearing member, a pair of arms secured to said rod and extending beyond said bearing member, an element connecting said arms to form therewith a closed loop projecting beyond the bearing member, a fixed wedge mounted against said element, a movable cap freely received within said loop and coacting

with the fixed bearing member, a movable wedge slidable longitudinally between the fixed wedge and the movable cap, a spring compressed between the thick end of the movable wedge and one of the arms, said last mentioned arm being provided with an elongated slot extending longitudinally thereof, a screw adjustably threaded into the thick end of the movable wedge and extending through said slot and a retaining cap, U-shaped in cross section, secured to said element and partially covering the loop on either side of the arms so as to inclose said wedges and a portion of the movable cap.

1,663,583. RADIORECEIVER. GEORGE F. BOREMAN, Salt Lake City, Utah. Filed Dec. 4, 1924. Serial No. 753,844. 2 Claims. (Cl. 179—117.)



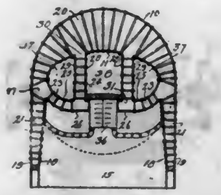
1. A receiver comprising one or more flat steel magnets of the horseshoe type, having one end portion bifurcated and bent to form two parallel spaced apart poles; and other similarly shaped magnets secured thereto with the bifurcated portions opposed in direction; an electromagnet mounted between the prongs of said bifurcated portions; a poised core mounted therein; a diaphragm substantially parallel with the planes of the first mentioned magnets and operatively connected with the poised core of the electromagnet.

1,663,584. BRUSH. GEORGE C. CLEAVES, Wollaston, Mass., assignor, by mesne assignments, to William H. Doble, Quincy, Mass. Refiled for (abandoned) application Serial No. 405,807, filed Aug. 25, 1920. This application filed Mar. 24, 1925. Serial No. 18,072. 3 Claims. (Cl. 15—181.)



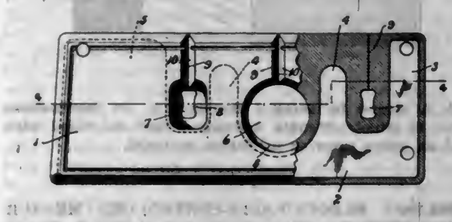
1. A woven web for use in the manufacture of brushes comprising a weft a plurality of separate individual bundles of bristles arranged with the butt ends of the bristles lying in substantially one plane, and comprising as warp a plurality and an odd number of binding strands woven around said bundles near the butt ends of the bristles, each of said bundles of bristles containing a relatively large number of substantially straight bristles flexible throughout their length, of relatively small sectional dimension and extending substantially parallel to one another and at substantially right angles to the binding warp, and each of the warp members extending around and engaging the same side of alternate bundles and the opposite side of an intermediate bundle.

1,663,585. LOCOMOTIVE BOILER. MICHAEL M. CROWLEY, Sioux City, Iowa. Filed Mar. 4, 1927. Serial No. 172,640. 9 Claims. (Cl. 122—68.)



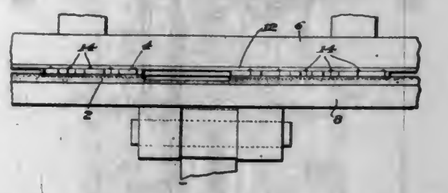
1. In a locomotive boiler having a crown, belly, and legs, a pair of water boxes connected, at their forward ends, to the belly, and, at their sides, to the legs, said water boxes being spaced apart and inclined rearwardly, upwardly, and laterally away from the center of the firebox, and a pair of vertically disposed longitudinally extending imperforate water channels connecting the inner sides of the boxes with the space above the crown.

1,663,586. TOE-BOARD PLATE. JAMES FRANCIS DUFFY, Holland, Mich., assignor to Duffy Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed Feb. 9, 1927. Serial No. 166,862. 9 Claims. (Cl. 74—81.)



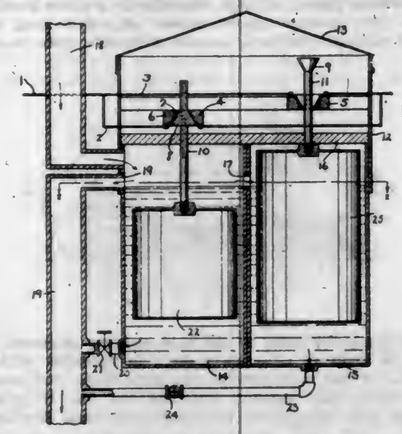
2. An article of the class described, comprising a plate of flexible material having openings therethrough between the edges of the article and having slits through said flexible material from one edge thereof to said openings, and a reinforcing and stiffening plate connected with the same around said openings and between the slits in said flexible material.

1,663,587. PROCESS OF MANUFACTURING RUBBER ARTICLES. ERNEST W. DUNBAR, Hudson, Mass., assignor to Cambridge Rubber Co., Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1926. Serial No. 95,264. 12 Claims. (Cl. 18—53.)



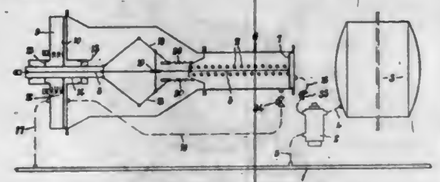
11. That improvement in the process of making rubber articles which consists in providing an unvulcanized rubber blank of suitable shape, providing a die of suitable design, heating one of said parts, pressing said die into said blank while the heated part is still hot, immediately thereafter chilling the blank so impressed, separating the blank from the die, and subsequently vulcanizing the blank so treated.

plates, a rod of electrically insulating material, a contact member on said rod shaped to fit between said plates, float chambers, floats therein connected with said rods,



said chambers having inlets and outlets for liquid arranged to open or close said switches controlled by the amount of liquid delivered to said chambers.

1,663,579. BRAKE SYSTEM ACTUATED BY FLUID PRESSURE. ANDERS ANDERBERG and ERIK ANDERS ANDERBERG, Malmo, Sweden. Filed Aug. 18, 1926, Serial No. 130,036, and in Sweden Aug. 19, 1925. 19 Claims. (Cl. 303—6.)



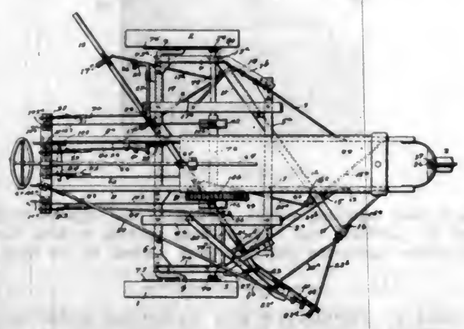
3. A fluid actuated brake system having two operating devices of different types, in which one of the said operating devices consists of a brake having quick action and relatively small brake power while the other operating device consists of an air brake having small movement and, in relation to the first named device, great and successively controllable brake power, the said two operating devices acting upon a common rod by means of a mechanism automatically establishing a releasable connection between said rod and the brake of large braking power when the piston of said latter brake moves in one direction and automatically releasing the connection when said piston moves in the opposite direction.

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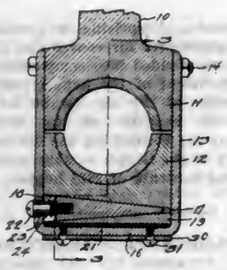
1. A fastener for fastening together two pieces of wood comprising a substantially flat member adapted to be inserted into a groove cut into the joining faces of the pieces of wood to be fastened together, and having tongues projecting from the plane of said member and adapted to bite into the wood upon a turning of said member in said groove.

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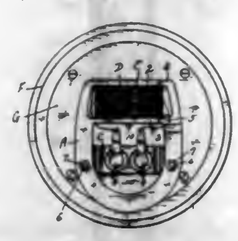
1. In an automotive road scraper machine, the combination of a frame having a longitudinally elongated element in the central vertical longitudinal planes of the machine and an elongated transverse element extending beyond the sides of said longitudinal element, traction wheels supporting said transverse frame element, wheeled guiding means constituting an additional support for the forward end of the longitudinally elongated element of the frame, a scraper suspended beneath the frame and extending transversely thereof in an inclined direction, the ends of the scraper extending across the longitudinal vertical planes of the traction wheels with one end in advance of the traction wheel at that side of the machine and the other end in rear of the other traction wheel, and power devices on the frame connected to drive the traction wheels.

1,663,582. SELF-ADJUSTING CONNECTING ROD. HOMER W. BONNEY, Kingsley, Iowa. Filed Nov. 1, 1926. Serial No. 145,611. 4 Claims. (Cl. 308—68.)



1. A self-adjusting connecting rod for automobiles, comprising a rod having an integral bearing member, a pair of arms secured to said rod and extending beyond said bearing member, an element connecting said arms to form therewith a closed loop projecting beyond the bearing member, a fixed wedge mounted against said element, a movable cap freely received within said loop and coacting with the fixed bearing member, a movable wedge slidable longitudinally between the fixed wedge and the movable cap, a spring compressed between the thick end of the movable wedge and one of the arms, said last mentioned arm being provided with an elongated slot extending longitudinally thereof, a screw adjustably threaded into the thick end of the movable wedge and extending through said slot and a retaining cap, U-shaped in cross section, secured to said element and partially covering the loop on either side of the arms so as to inclose said wedges and a portion of the movable cap.

1,663,583. RADIORECEIVER. GEORGE F. BORKMAN, Salt Lake City, Utah. Filed Dec. 4, 1924. Serial No. 753,844. 2 Claims. (Cl. 179—117.)



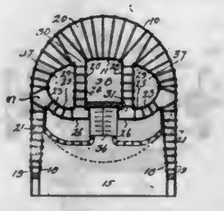
1. A receiver comprising one or more flat steel magnets of the horseshoe type, having one end portion bifurcated and bent to form two parallel spaced apart poles; and other similarly shaped magnets secured thereto with the bifurcated portions opposed in direction; an electromagnet mounted between the prongs of said bifurcated portions; a poised core mounted therein; a diaphragm substantially parallel with the planes of the first mentioned magnets and operatively connected with the poised core of the electromagnet.

1,663,584. BRUSH. GEORGE C. CLEAVES, Wollaston, Mass., assignor, by mesne assignments, to William H. Doble, Quincy, Mass. Reflled for (abandoned) application Serial No. 405,807, filed Aug. 25, 1920. This application filed Mar. 24, 1925. Serial No. 18,072. 3 Claims. (Cl. 15—181.)



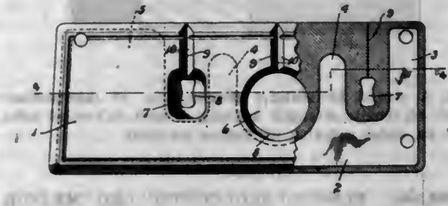
1. A woven web for use in the manufacture of brushes comprising a weft a plurality of separate individual bundles of bristles arranged with the butt ends of the bristles lying in substantially one plane, and comprising as warp a plurality and an odd number of binding strands woven around said bundles near the butt ends of the bristles, each of said bundles of bristles containing a relatively large number of substantially straight bristles flexible throughout their length, of relatively small sectional dimension and extending substantially parallel to one another and at substantially right angles to the binding warp, and each of the warp members extending around and engaging the same side of alternate bundles and the opposite side of an intermediate bundle.

1,663,585. LOCOMOTIVE BOILER. MICHAEL M. CROWLEY, Sioux City, Iowa. Filed Mar. 4, 1927. Serial No. 172,640. 9 Claims. (Cl. 122—68.)



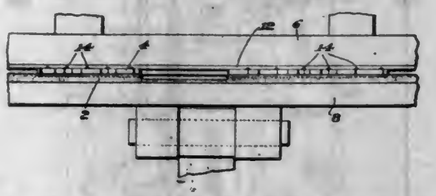
1. In a locomotive boiler having a crown, belly, and legs, a pair of water boxes connected, at their forward ends, to the belly, and, at their sides, to the legs, said water boxes being spaced apart and inclined rearwardly, upwardly, and laterally away from the center of the firebox, and a pair of vertically disposed longitudinally extending imperforate water channels connecting the inner sides of the boxes with the space above the crown.

1,663,586. TOE-BOARD PLATE. JAMES FRANCIS DUFFY, Holland, Mich., assignor to Duffy Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed Feb. 9, 1927. Serial No. 166,862. 9 Claims. (Cl. 74—81.)



2. An article of the class described, comprising a plate of flexible material having openings therethrough between the edges of the article and having slits through said flexible material from one edge thereof to said openings, and a reinforcing and stiffening plate connected with the same around said openings and between the slits in said flexible material.

1,663,587. PROCESS OF MANUFACTURING RUBBER ARTICLES. ERNEST W. DUNBAR, Hudson, Mass., assignor to Cambridge Rubber Co., Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1926. Serial No. 95,264. 12 Claims. (Cl. 18—53.)



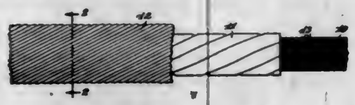
11. That improvement in the process of making rubber articles which consists in providing an unvulcanized rubber blank of suitable shape, providing a die of suitable design, heating one of said parts, pressing said die into said blank while the heated part is still hot, immediately thereafter chilling the blank so impressed, separating the blank from the die, and subsequently vulcanizing the blank so treated.

1,663,588. MARKING MACHINE. PERLEY R. GLASS, Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 20, 1923. Serial No. 17,120. 12 Claims. (Cl. 101—110.)



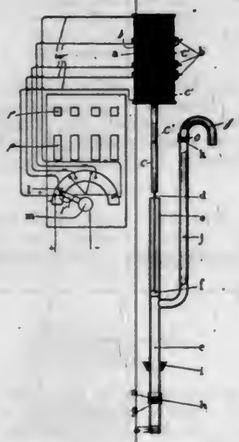
1. In a machine of the character described, an adjustable marker, a pivoted locking device arranged in one position to prevent adjustment of the marker, a rotatable setting device for adjusting the marker in engagement therewith, and means for connecting the setting device to the locking device arranged to release the locking device upon lateral displacement of the setting device without disturbing the engagement between the setting device and the marker.

1,663,589. ROPE. THOMAS GOBB, Brooklyn, N. Y. Filed Sept. 25, 1926. Serial No. 137,671. 8 Claims. (Cl. 117—59.)



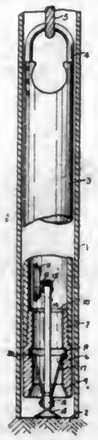
1. A strand including a fibrous core, an intermediate layer of tensile strength helically wound flat-rolled wire, and an outer covering of fibrous material.

1,663,590. ELECTRICALLY-CONTROLLED MEASURING DEVICE. GEORGES GOURDON, Malakoff, France. Filed Sept. 21, 1925, Serial No. 57,714, and in France Sept. 23, 1924. 7 Claims. (Cl. 221—103.)



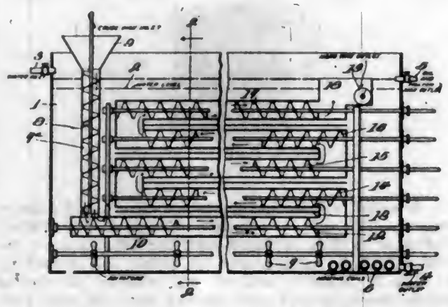
1. In a liquid-dispensing apparatus, a tubular element; a piston movable therein; and an electromagnetic controller embodying a plurality of independent solenoid coils, a core common to all the coils and connected to the stem of the piston to enable movement of the two as a unit, and means for selectively energizing the solenoid coils to vary the length of stroke of the core and its connected piston.

1,663,591. DUMP BUCKET AND BAILER. ELLSWORTH GRAY, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a Corporation of Texas. Filed July 30, 1927. Serial No. 209,543. 4 Claims. (Cl. 166—19.)



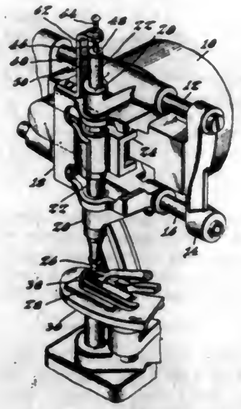
1. In a device of the character described, a bucket open at its lower end, a valve seat in said bucket, a valve stem, a valve free to move upwardly away from said seat, except for a loosely pivoted connection between said valve and the upper end of said stem, said stem projecting from said bucket to contact with the bottom of the well and raise said valve upwardly away from said seat.

1,663,592. PROCESS OF AND APPARATUS FOR RECOVERING PARAFFIN. WILLIAM A. GRUSE, Wilkinsburg, and WARREN F. FARAGHER, Pittsburgh, Pa., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Oct. 28, 1924. Serial No. 746,374. 3 Claims. (Cl. 196—20.)



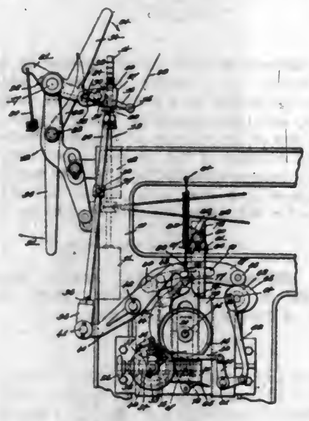
1. In a continuous method of recovering hard paraffin wax from solidified slack wax, the process which comprises continuously conveying such a solidified wax through a body of water of adjusted temperature and during its progress repeatedly cutting the wax in such a manner as to expose all surfaces to the water and allow oil to separate therefrom and to rise through the water.

1,663,593. FASTENER-INSERTING MACHINE. HUGH R. HAMILTON, Webster, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 20, 1926. Serial No. 123,788. 8 Claims. (Cl. 218—15.)



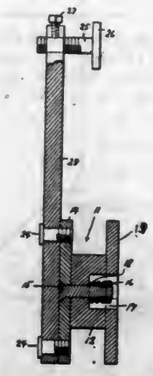
1. A fastener-inserting machine having a combined punching and fastener-setting tool, means for introducing a fastener into a hole punched in the work by said tool cooperating with the tool to clench the fastener in the work, an ejector within the said tool, means tending to retract the ejector, and means for causing the ejector to eject from the tool chips punched from the work.

1,663,594. BOBBIN WINDER. FRANK E. HARDING, Lawrence, Mass., assignor to Arlington Mills, Lawrence, Mass., a Corporation of Massachusetts. Filed May 17, 1927. Serial No. 192,063. 4 Claims. (Cl. 242—43.7.)



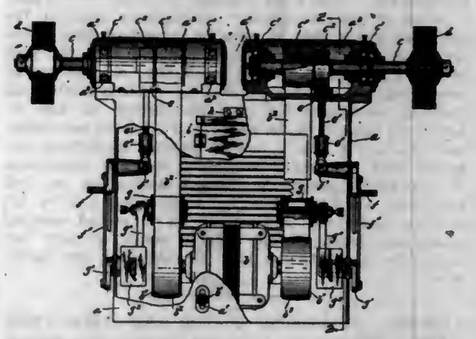
1. A bobbin winder having, in combination, bobbin spindles, a faller wire, a traverse cam, a pick cam, connections between the faller wire and the two cams to traverse the faller wire over the bobbin, a notch member provided with a notch, a part of said connections having a portion to enter said notch, said notch member acting to prevent the transmission of motion from the cams to the faller wire, and said notch member being so located as to be struck and moved by the traverse cam to cause the connections to be actuated by the cams.

1,663,595. MAGNETO-COIL-ALIGNING TOOL. CLARENCE FREDERIC HARPER, Harper, Tex. Filed Dec. 6, 1926. Serial No. 152,997. 2 Claims. (Cl. 33—180.)



1. An implement for facilitating the adjustment of magneto coils, comprising a cylindrical body member having means at one end whereby it may be detachably connected to the crank-shaft side of a fly wheel with the axis of the member in alignment with that of the wheel, the side of the wheel having secured thereto magneto parts comprising the circular series of permanent magnets and their clamp plates, a disc member, means for rotatably mounting the disc member at the free end of the body member with the axes of the two members in alignment, an arm removably mounted at one end on said disc member and extending radially therefrom, said arm having threaded through its free end a gage screw extending parallel to the axis of the members so that it may be adjusted to contact with the magnet clamp plates on the wheel, the axial dimensions of the said members being such that, after said gage screw is thus adjusted and the arm detached from the disc member, the arm may be correspondingly secured to the fly-wheel flange of the crank-shaft so that its gage screw may be utilized in axially positioning the magneto coils distributed about the shaft.

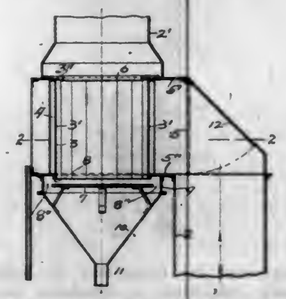
1,663,596. DRIVE MECHANISM FOR POLISHING LATHES. GEORGE HAUMANN, Painesville, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 2, 1925. Serial No. 12,522. 11 Claims. (Cl. 192—11.)



6. In an appliance of the class described, the combination with a housing, a motor secured in the lower portion of the housing, a driven shaft, a journal frame and terminal journals securely mounted in said frame and rotatably mounting said shaft; the journal frame

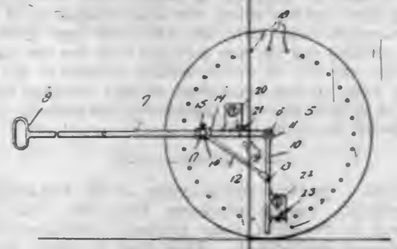
being positioned above the motor and secured to the housing, a belt operatively connecting the driven shaft and the motor, and means for tightening and for relaxing said belt, substantially as set forth.

1,663,597. GAS-CLEANING APPARATUS. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1925. Serial No. 27,837. 7 Claims. (Cl. 183—85.)



1. The improvement herein described comprising a casing presenting a bottom, a top and sides, in combination with a tuyère ring comprising operatively overlapping substantially tangential blades, and opening through the top and bottom of said casing, a disc centrally positioned at the bottom of said ring and dust receiving means below said disc and depending from the bottom of said casing.

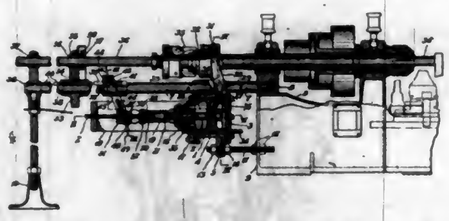
1,663,598. MEASURING APPARATUS. OSCAR V. HOLMQUIST, St. James, Minn. Filed Feb. 25, 1927. Serial No. 170,865. 2 Claims. (Cl. 33—141.)



1. An apparatus of the class described, including, in combination, a disk, a peg adjacent the center of the disk, a series of pegs in annular arrangement adjacent the periphery of the disk, an axle pin extending through the center of the disk, handle bars engaged with the ends of the axle pin, a counter mechanism on one handle bar, a toothed member operatively connected with the counting mechanism for operation thereof, an arm rotatable on one end of the axle pin, a counting mechanism mounted on the arm, a toothed member operatively connected with the second mentioned counting mechanism for operation thereof, the toothed member on the first mentioned counting mechanism being actuatable by the first peg, and the toothed member on the second counting mechanism being operable by the series of pegs, and means for adjusting the arms in respect to the handle bars.

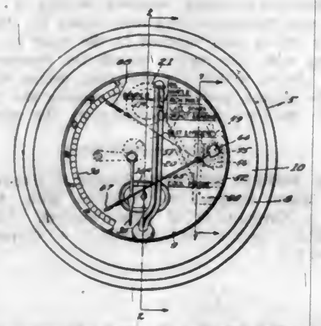
1,663,599. AUTOMATIC CHUCK AND WIRE FEED. EARL J. HORNBERGER, Cleveland Heights, Ohio, assignor to John G. Oliver, doing business as Bardon and Oliver, Cleveland, Ohio. Filed July 6, 1926. Serial No. 120,755. 13 Claims. (Cl. 29—62.)

1. Fluid pressure operated stock feeding and chucking apparatus comprising chuck operating means, stock feeding means, a source of supply of fluid under pressure, a cylinder, a piston adapted to reciprocate in said cylinder, positive motion mechanical connections operated by said piston and connected to said chuck operating means,



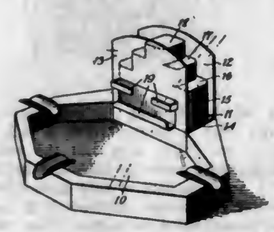
lost motion mechanical connections between said piston and said stock feeding means whereby said stock feeding means is operated only during a part of the movement of said piston, and a valve adapted to control the action of said fluid under pressure on said piston.

1,663,600. INDICATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. STEPHEN JENCICK, Chagrin Falls, Ohio. Filed Mar. 30, 1921. Serial No. 456,909. 14 Claims. (Cl. 265—45.)



1. The combination with the oil circulating system of a motor vehicle, of a single instrument adapted for location on the vehicle in a position visible to the driver in his seat, such instrument including means for indicating the flow of oil through said system, means for indicating the pressure of the oil, means for indicating its temperature, means whereby the aforesaid means also indicates approaching low level of oil in said system, and means for indicating the specific gravity of the oil.

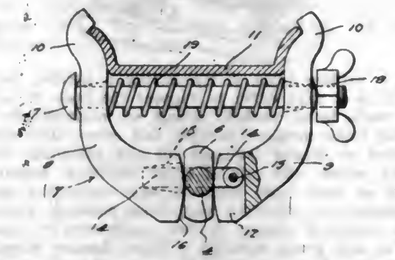
1,663,601. SMOKER'S STAND. AUGUST KAPPENBERG, New York, N. Y. Filed July 21, 1926. Serial No. 124,010. 4 Claims. (Cl. 131—51.)



4. A smoker's stand, including a clip for supporting packaged elongated articles, and means in said clip for

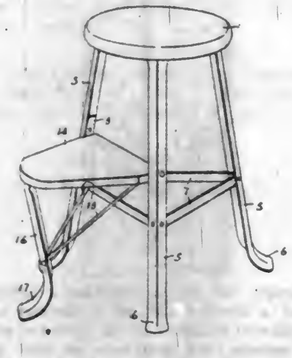
engaging through the lower end of the package and with the lower ends of the articles for disposing the upper ends of the articles in tiers and in different planes to facilitate their withdrawal from the package.

1,663,602. CLAMP. JOSEPH ALBERT MARNELL, Flint, Mich. Filed Aug. 22, 1927. Serial No. 214,639. 1 Claim. (Cl. 144—289.)



As a new product of manufacture, a clamp comprising a pair of substantially duplicate jaws having their outer end portions shaped to engage the side flanges of a tire rim, the inner ends of said jaws being located in close proximity for connection with each other, one of said ends being bifurcated, the other end being formed with a socket, a pin pivoted between the furcations having its free end removably received in said socket, the intermediate portion of said jaws being formed with bolt holes, a bolt extending through said holes and having the screw threaded end equipped with a thumb nut, and a coil spring surrounding the intermediate portion of said bolt and bearing at its opposite ends against said jaws.

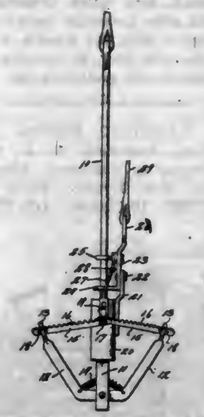
1,663,603. STOOL. WILLIAM MAUDE, Fergus, Ontario, Canada. Filed Jan. 24, 1925. Serial No. 4,500, and in Canada Dec. 26, 1924. 8 Claims. (Cl. 228—30.)



3. In a stool, two front legs and a rear leg triangularly disposed having a seat supported thereon, a step pivoted on the two front legs, a support member rigidly secured to said step adjacent to the forward edge thereof and adapted to bear against said rear leg and support said step when the step is swung under said seat.

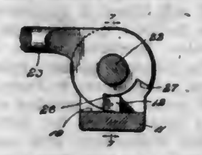
1,663,604. CHIMNEY CLEANER. JOHN MOEN, Fosston, Minn. Filed Apr. 5, 1927. Serial No. 181,222. 5 Claims. (Cl. 15—248.)

1. A flue cleaning implement including a shank, a plurality of scrapers pivotally connected to each other to define an approximate rectangle when expanded, a slide on the shank, links pivotally connected to the slide and to the scrapers at two opposite corners of the



rectangular figure defined thereby, and links connecting the remaining opposite corners of the figure defined by the scrapers and the lower end of the shank.

1,663,605. JOINT MEMBER FOR PIN STEMS. EUGENE MOREHOUSE, Providence, R. I., assignor to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 7, 1925. Serial No. 61,100. 4 Claims. (Cl. 24—160.)



1. A joint member for pin stems formed of spaced ear portions connected by and bent up from an integral base bridge, and a pair of stop lugs formed integral with the inner face of the ear portions adjacent the bridge and extending inwardly toward each other.

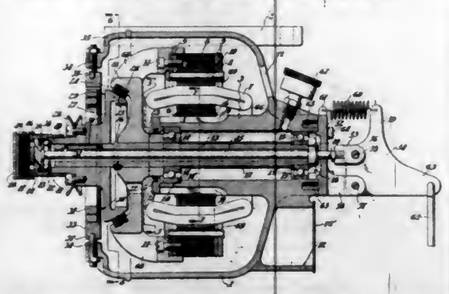
1,663,606. DETACHABLE HANDLE FOR LUBRICATING APPARATUS. HOWARD J. MURPHY, Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 18, 1924. Serial No. 750,604. 5 Claims. (Cl. 74—38.)



1. A supplemental handle for a lubricant-expelling gun including quick detachable means comprising a portion

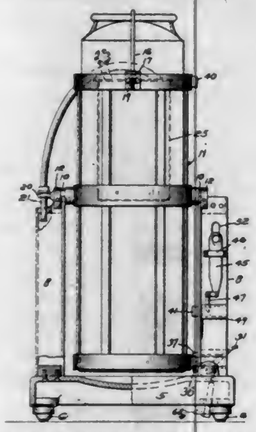
for engagement with the handle and a portion for engagement with the stem of the gun between the handle and barrel thereof, said quick detachable means also including a hand grip generally parallel with the portion for engagement with the handle whereby the stem and handle of the gun may be continuously rotated in a direction to retract the piston of the gun.

1,663,607. ELECTRIC POWER TRANSMITTER. JAMES M. NAUL, Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 21, 1924 Serial No. 751,299. 10 Claims. (Cl. 172—36.)



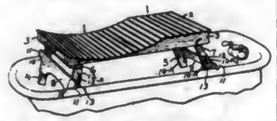
1. A unitary electric under driver for machine tables comprising a hollow cylindrical frame having external attaching means and a tubular portion projecting into said frame from one end thereof, a brake carried at the other end of said frame, a stationary motor-member mounted on said internal tubular frame portion, a rotary motor member journaled within said frame coaxially with said internal tubular frame portion and having a driving clutch face, a driven clutch-member coaxial with said rotary motor member and cooperatively related with said brake, means for shifting said driven clutch member into engagement with said driving member, and a belt-pulley on said driven clutch-member.

1,663,608. FIRE-FIGHTING APPARATUS. WALTER M. NEWTON, Dover, Del., assignor of one-half to John W. Argo, Dover, Del. Filed Mar. 16, 1926. Serial No. 95,095. 7 Claims. (Cl. 248—52.)



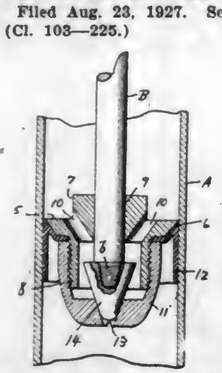
1. A fire fighting apparatus comprising a mobile base, standards mounted on the base, a basket having trunnions connected to the standards, a latch for engaging said basket to hold the same against movement, a manually actuated member connected to said base and forming a means whereby the latch may be retracted, and floor engaging means connected to said manually actuated member and actuated thereby to engage the floor for securing the base in position.

1,663,609. BATHING TABLE FOR INFANTS. LLOYD PEABODY, Decatur, Ill. Filed Oct. 9, 1926. Serial No. 140,549. 1 Claim. (Cl. 45—51.)



In a bathing table, a top having a portion thereof formed in a fixed curve to support the body of an infant while being washed, a pair of longitudinally extending frame members forming said curve, slats fixedly mounted at spaced intervals on and extending transversely across said pair of frame members, supporting means on said frame members, said supporting means comprising two pairs of supporting members arranged to be swingably secured at their upper ends to opposite ends of said frame members, a brace member integrally mounted on and extending transversely across each of said pairs of supporting members, said brace members being formed at their opposite extremities into projecting wings to fit upon the longitudinal edges of an ordinary bath tub, adjustable means on two or each of said supporting members for increasing the width of the bath table at its base to meet the requirements of wider bath tubs, said means comprising slidable members operating by means of bolts extending laterally through said supporting members and slidably engaging elongated slots in said slidable members, stop means for said supporting members comprising a cross strip mounted on the under surface and at the opposite extremities of said frame members.

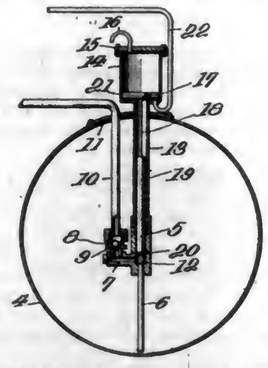
1,663,610. PUMP PLUNGER. JAMES E. PHELPS, Lisbon, Iowa. Filed Aug. 23, 1927. Serial No. 214,876 1 Claim. (Cl. 103—225.)



In a plunger for pumps including a cylinder, and a plunger rod, a circular plate of a diameter slightly less than the internal diameter of the cylinder within which it is to operate, the periphery of said plate being beveled, a collar depending from the bottom surface of said plate within the periphery thereof, a bowl adapted to be detachably rigidly associated with said collar, a leather adapted to be arranged at its inner edge between the upper end of the bowl and the bottom surface of said plate, said leather thence extended upwardly along the beveled edge of the plate and downwardly for having close engagement with the interior of the cylinder, the bottom wall of said bowl being provided with an air exhausting opening while said plate is provided with air intake openings terminating at their inner ends within said collar, said plate being further provided with a central opening through which the plunger rod is slidable, and a valve head arranged upon

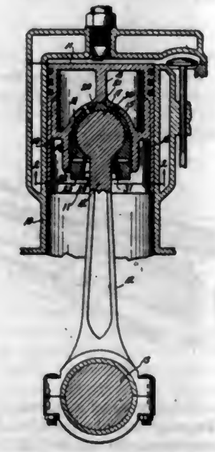
the lower end of the rod and adapted to engage within the opening of the bowl during the downstroke of said plunger for preventing the air from passing therethrough, said valve head adapted to be raised from the bowl opening during the upstroke of the plunger to permit the air to pass through the plunger into the bottom of the cylinder.

1,663,611. FUEL-FEEDING MEANS FOR CHARGE-FORMING DEVICES. ALBERT G. REDMOND, Indianapolis, Ind., assignor to Jacob Richard Francis, Flint, Mich. Filed Jan. 8, 1923. Serial No. 610,470. 8 Claims. (Cl. 158—36.)



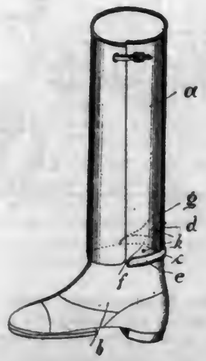
1. The combination with an internal combustion engine having a charge forming device and a main fuel supply located in a plane below said charge forming device, of a pump disposed in said fuel supply tank, a pipe leading from said pump to the charge forming device, said pump having a reciprocating piston, an air pump driven by the internal combustion engine, an air cylinder provided with a piston disposed above the fuel pump and having a connection with the piston thereof and means for delivering air to said air cylinder below said piston for intermittently raising said pump piston to allow said pump piston to drop by gravity for maintaining fuel in the fuel pipe leading to the charge forming device under pressure.

1,663,612. UNIVERSAL JOINT FOR PISTONS. ALLAN E. REID, Boston, Mass. Filed Apr. 8, 1926. Serial No. 100,544. 2 Claims. (Cl. 74—108.)



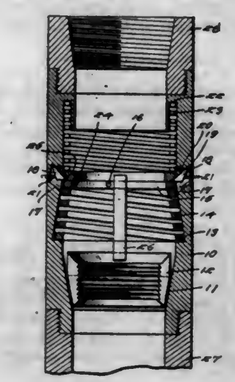
1. In a piston, a connecting rod bearing comprising an interiorly-threaded cylindrical socket having a spherical bearing surface at one end thereof, a multi-section bearing bushing threaded into said socket and having a spherical bearing surface supplemental to said first mentioned bearing surface, a multi-section lock bushing threaded into said socket adjacent said bearing bushing, a multi-section spring lock washer between said bushings, each of said washer sections having a compressible portion therein and a peripheral ear, and axial slots in the interior wall of said socket adapted to receive said ears.

1,663,613. COMBINED GAITER AND BOOT PROTECTOR. WILHELM REINHARDT, Melsungen, Germany. Filed May 26, 1927, Serial No. 194,425, and in Germany Dec. 8, 1926. 3 Claims. (Cl. 36—2.)



1. A leather gaiter comprising an elastic lining on the inner surface of its lower rear portion movable with regard to the boot.

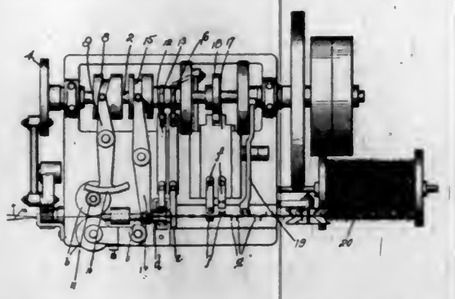
1,663,614. OVERSHOT. DOUGLAS H. ROWLAND, Shawnee, Okla. Filed Mar. 15, 1927. Serial No. 175,596. 2 Claims. (Cl. 294—102.)



1. In an overshot, a shell embodying the usual slip seat, slips coacting therewith, a ring connected with the slips, a spring constantly urging said ring downwardly, a second spring seated at its lower end upon a shoulder formed in the shell and its upper end having a ring engaging the first named ring, the last named spring being of greater strength than the first named spring whereby said rings normally tend to move upwardly to a position wherein the slips may spread and release a gripped article and latches carried by the shell and engaging the last named ring to

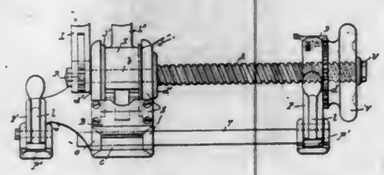
hold the spring pressed in the position permitting downward movement of the slips to a point where they are disposed slightly above the lower limit of their movement, the first named ring upon downward movement of the slips shifting said latches to inoperative position to release the last named ring, the first named ring having a beveled outer face camming the latches to inoperative position during downward movement of the first named ring.

1,663,615. APPARATUS FOR MANUFACTURING BARBED WIRE. OTTO SCHMID, Reutlingen, Wurttemberg, Germany. Filed Dec. 6, 1923, Serial No. 679,016, and in Germany July 9, 1923. 9 Claims. (Cl. 140—58.)



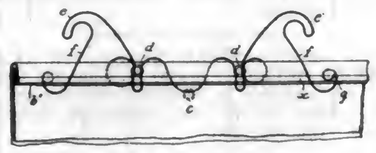
1. Apparatus for manufacturing single strand barbed wire, comprising means for holding the wires against rotation, means for feeding the wires through the guide to a working point, said means being constructed to press the wires against one another, thereby to secure uniform speed of feed regardless of differences in thickness of the wires, securing means adjacent the working point on the opposite side from said holding means to prevent the wires from turning, a twisting device at the working point for twisting both wires simultaneously to form spaced twisted parts with parallel wire portions therebetween, cutting tools positioned beyond the twisting device and arranged to seize but one of the wires between adjacent twisted portions, cooperating edges on the tools for cutting through the seized wire, and shoulders on the tools for bending the cut ends to form outstanding barbs.

1,663,616. DEVICE FOR STRETCHING AND FASTENING HOOPS FOR BOXES AND THE LIKE. SERAPHIN SICARD, Paris, France, assignor of fifty per cent to M. André Rebichon, Paris, France. Filed Nov. 9, 1925, Serial No. 68,036, and in France Nov. 22, 1924. 4 Claims. (Cl. 81—9.1.)



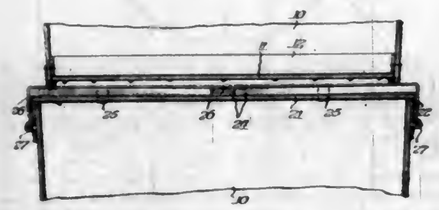
1. A device for stretching and fastening hoops for boxes and the like, comprising a stretching device, a fastening device, a single rotatable shaft on which said devices are mounted, a ratchet on the shaft, means cooperating with the ratchet whereby the shaft may be rotated for the tensioning operation, and means whereby the stretching device may be freed from cooperation with the shaft to permit relatively free movement of said stretching device axially of the shaft following the operation of such device.

1,663,617. LOOSE-LEAF-SUSPENDING FILE. GEORG STEINMETZ, Charlottenburg, Germany. Filed May 27, 1926, Serial No. 112,076, and in Germany Oct. 19, 1925. 7 Claims. (Cl. 129—16.7.)



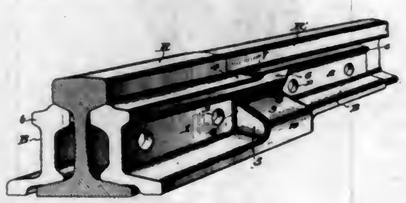
1. In a loose-leaf vertical file for suspending folded-over sheets, a back plate, a bent-over top ledge forming part of the back plate, a cover plate, clamping means to press one of the said plates against the other, and suspension means to suspend the device cooperating with at least one of the said plates.

1,663,618. RECEPTACLE. PAUL STRANGE, Neenah, Wis., assignor to John Strange Pail Company, Menasha, Wis., a Corporation of Wisconsin. Filed Apr. 9, 1924. Serial No. 705,321. 5 Claims. (Cl. 229—5.5.)



4. In a receptacle, the combination with a wall portion and a bottom closure, of a retaining ring enveloping the margin of the wall portion below the bottom closure, said retaining ring having a constraining flange encompassing the wall portion over the margin of the bottom closure, a binding flange traversing the lower margin of the wall portion, and a supporting flange disposed within the wall portion to furnish support for the bottom closure, said binding flange being transversely corrugated.

1,663,619. REENFORCED STEP RAIL JOINT. VICTOR C. ARMSTRONG, Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Oct. 8, 1926. Serial No. 140,333. 15 Claims. (Cl. 238—167.)



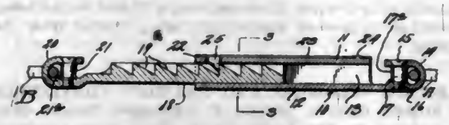
13. A reenforced-head type of step rail joint bar shaped from the same body of metal throughout and provided with a medial reenforcement projecting solely from the outerside of the bar and integrated with the head reenforcement.

1,663,620. SPINNING-RING HOLDER. BENJAMIN L. BLOOM, Scranton, Pa., assignor to Collins Supply and Equipment Company, Scranton, Pa. Filed June 6, 1927. Serial No. 196,831. 2 Claims. (Cl. 118—59.)



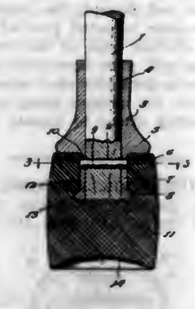
1. A spinning ring holder having upstanding portions to receive a spinning ring between them, said portions having inwardly struck lugs to support the ring.

1,663,621. CHAIN TIGHTENER AND HOLDER. GEORGE JAMES BOWMAN, Bartle, Calif. Filed Mar. 1, 1927. Serial No. 171,844. 3 Claims. (Cl. 24—206.)



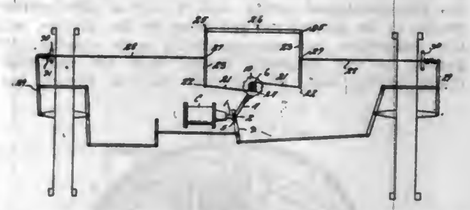
1. A chain tightener and holder of the character described including a hollow, open-ended keeper, the bottom wall of the keeper being extended at one end to form a hook, a coacting member sliding through the keeper and formed with ratchet teeth, the extremity of the member being bent rearward to form a hook, and a flat spring mounted upon the one wall of the keeper and having a detent tooth passing through the said wall of the keeper and coacting with the teeth of said sliding member, the said wall of the keeper being recessed to receive said spring and one wall of the recess being cut away to permit the insertion of an implement whereby the spring may be raised.

1,663,622. TIP FOR CRUTCHES AND CANES. FLOYD C. ATKINSON, Western Port, Md. Filed July 19, 1926. Serial No. 123,551. 2 Claims. (Cl. 135—53.)



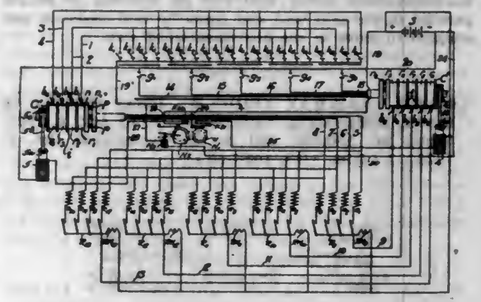
1. A tip for crutches and the like comprising a ferrule having a bore to accommodate the end of the crutch staff, a pin engaged transversely of the staff and ferrule, the ferrule having a circumscribing shoulder having a flat under face, the portion of the ferrule below the shoulder being cylindrical and being provided at its lower end with a circumscribing anchoring bead, and a cushioning member having a socket accommodating the said portion of the ferrule below the shoulder, the upper end of the said cushioning member abutting the under face of the shoulder and the wall of the socket in the cushioning member having a recess accommodating the anchoring bead, said pin being retained against endwise movement by the side walls of the socket.

1,663,623. SLACK ADJUSTER. JAMES W. CLARK, Monmouth, Ill. Filed Dec. 30, 1926. Serial No. 158,011. 5 Claims. (Cl. 188—198.)



1. The combination with the push rod, a dead lever of an air brake equipment, and a swinging lever operatively connected to the rod, of means for operatively connecting said swinging lever with the dead lever, including a capstan, a flexible member winding on the capstan, the normal travel of the push rod operating the swinging lever independently of the capstan, means carried by the swinging lever and coacting with the capstan operating upon undue travel of the push rod and swinging lever for imparting rotation to the capstan, and means for holding the capstan against retrograde rotation.

1,663,624. ELECTRIC APPARATUS. ARVID GERHARD DAMM, Ronninge, Sweden. Filed Aug. 31, 1925, Serial No. 53,628, and in Sweden June 27, 1924. 2 Claims. (Cl. 35—13.)

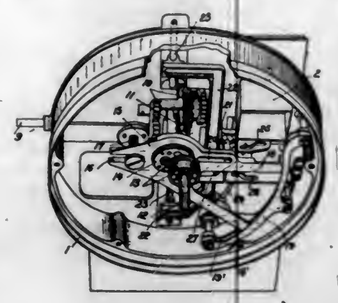


2. In an electric ciphering apparatus, a source of current, a sender key board divided into groups of keys, a recording device whose recording elements are divided into similar groups, a ciphering cylinder between the key-board and recording device, contacts in said cylinder each connected to a key of each group of keys, stationary contacts cooperating with the cylinder contacts and each connected to a recording element of each group of recording elements, a second cylinder having contacts each arranged for connection to an entire group of recording elements, a group connector for each group of recording elements electrically connected to one pole of the source of current and to a contact on said second cylinder, stationary contacts cooperating with the contacts on said second cylinder, a group of contacts each corresponding to a group of keys and operated by any key of the corresponding group, each of said latter contacts connected to the other pole of the current source and to the stationary contacts for said second cylinder.

1,663,625. FILM-DRIVING MECHANISM FOR CINEMATOGRAPHIC VIEW-TAKING APPARATUS. ANDRÉ LÉON VICTOR CLÉMENT DEBRIE, Paris, France. Filed June 13, 1927, Serial No. 198,670, and in France July 22, 1926. 3 Claims. (Cl. 88—18.4.)

1. A film driving mechanism in cinematographic view taking machines comprising a casing, a guiding rod

parallel to the wall of the casing opposite to the film, a carriage slidably borne by said rod and adapted to pivot round same whilst remaining near parallelism with the abovementioned casing wall, a slotted part perpendicular to the guiding rod and borne by the carriage, said slot comprising two communicating parts substantially parallel to and unequally distant from the abovementioned casing wall, film driving clutches aligned per-



pendicularly to the guiding rod and borne by said carriage, an eccentric driven by the general control of the machine and adapted to drive the carriage to and fro along the guiding rod, means whereby the eccentric is prevented from moving out of a plane parallel to the abovementioned casing wall and an incurved projection parallel to the said wall and borne by said eccentric and adapted to move in the abovementioned slot.

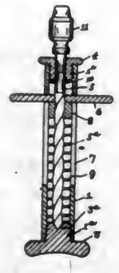
1,663,626. RAILWAY VEHICLE. JOHAN HENDRIK DE IONGH, Hilligersberg, Netherlands. Filed Apr. 1, 1927, Serial No. 180,305, and in the Netherlands Oct. 7, 1926. 1 Claim. (Cl. 105—66.)



A railway vehicle having two radial axles which are controlled by a laterally movable axle located between them characterized by this, that the pivot of the radial axle is located externally of this axle at some distance therefrom towards the laterally movable axle and the radial axles are surrounded by housing over which run rollers having springs suspended thereon, such springs being movable in the longitudinal direction of the carriage and connected with the carriage body.

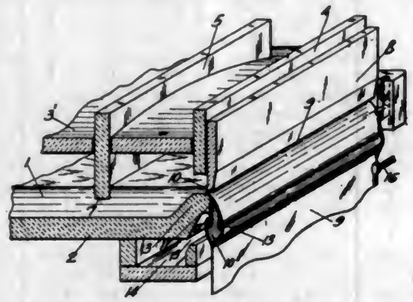
1,663,627. APPLIANCE ADAPTED TO REVOLVE BRUSHES, GRIND IN VALVES, AND OTHER PURPOSES. HERBERT DOBSON, Portsmouth, England. Filed Feb. 9, 1927, Serial No. 167,054, and in Great Britain Feb. 11, 1926. 2 Claims. (Cl. 74—14.)

1. An apparatus for imparting a rotary motion comprising a hollow casing, a removable plug at the base, a second removable plug at the upper end, a central orifice in the latter, a spindle passing through said orifice, a recess provided in the said lower removable plug, the lower end of said spindle adapted to fit therein, a spiral groove formed on the greater part of the spindle within said casing, a propellant engaging with said spiral groove, elongated apertures in said casing, the wings of said propellant projecting therethrough being held against rotation, said propellant moving axially imparting rotary motion to said spindle in one direction, a helical spring interposed between said propellant and lower plug respectively within said casing imparting rotary motion to the



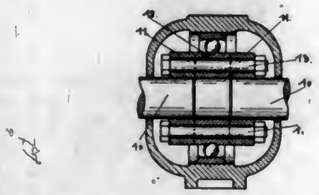
spindle in a reverse direction, and a thrust collar being provided to prevent said spindle being ejected from the casing.

1,663,628. FLOWING AND DRAWING CONTINUOUS SHEET GLASS. ENOCH T. FERNGREN, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 20, 1922. Serial No. 595,741. 13 Claims. (Cl. 49—17.)



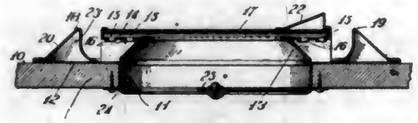
3. An apparatus for continuously producing sheet glass, comprising a receptacle for the molten glass having an overflow lip at one end thereof, the overflow lip comprising a separate member mounted parallel to and slightly spaced from the overflow edge of the receptacle, so that the flowing glass will pass both over and under this member and unite to form the sheet source at the outer edge of the member, the member being formed with horizontal glass retarding ledges to impede the free flow of the glass.

1,663,629. ANTIFRICTION BEARING. HANS FRITZSCHING, Vienna, Austria. Filed Apr. 28, 1926. Serial No. 105,157. 1 Claim. (Cl. 308—189.)



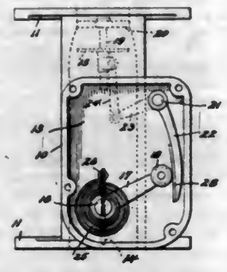
Bearing-unit, consisting of an anti-friction bearing and a special housing, the bearing-unit being disposed between the two shafts to be supported and connected within a clearance so wide as to permit the bearing-unit to be inserted or to be taken from its support only by a movement perpendicular to the direction of said shafts and without any lateral or other movements of said shafts.

1,663,630. VEHICLE VENTILATOR. WILLIAM S. HAMM, Hubbard Woods, Ill., assignor to The Adlake Company, a Corporation of Illinois. Filed Oct. 26, 1925. Serial No. 64,721. 17 Claims. (Cl. 98—20.)



13. A ventilator for vehicles comprising a laterally open casing and provided with an internal partition forming a flue passage communicating with the body to be ventilated and opening downwardly into the body of the casing and means for preventing the entrance of wind currents at the lateral openings of the casing.

1,663,631. GOVERNOR. ROBERT G. HANDY and ARTHUR A. BULL, Detroit, Mich., assignors to Handy Governor Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 8, 1922. Serial No. 559,436. 8 Claims. (Cl. 137—152.)



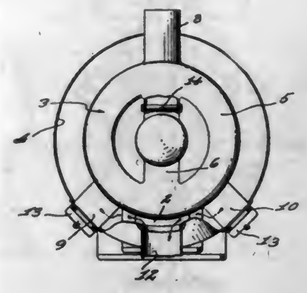
1. In a suction responsive governor, an intake conduit member having a portion of gradually decreasing cross section, a disc slidably mounted in said conduit portion, and controlling means for said disc including a spring acting in opposition to the suction and cam mechanism modifying the action of said spring, said cam mechanism including a pivoted member having a cam surface, and link work positively connecting said disc to said pivoted member, for the purpose described.

1,663,632. COMB. GEORGE W. HYDORN, Los Angeles, Calif. Filed June 23, 1926. Serial No. 117,894. 3 Claims. (Cl. 132—11.)



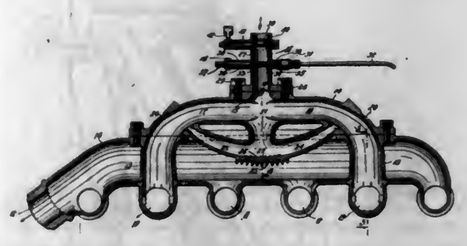
1. A comb of the character set forth having a central thickened portion the top of which is of approximately the same width as the bottom and said central portion being of sufficient length to provide a finger rest for the forefinger of the user; and rows of teeth adjacent said central portion.

1,663,633. WARM-AIR FURNACE. RICHARD M. JUDD, ERNEST C. TAYLOR, and RALPH S. MCNANEY, Dowagiac, Mich., assignors to Premier Warm Air Company, Dowagiac, Mich., a Corporation of Michigan. Filed May 23, 1927. Serial No. 193,684. 1 Claim. (Cl. 126—102.)



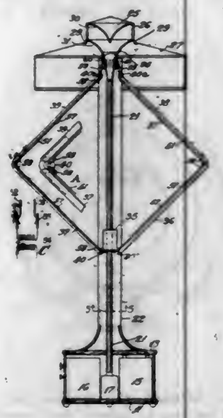
In a warm air furnace, the combination with a combustion chamber having a lateral fuel passage extending toward the front of the furnace, of a radiator having an annular channel connecting with said combustion chamber and provided with a pair of spaced clean out passages extended laterally therefrom above said fuel passage at each side thereof in close proximity thereto, a front furnace wall having its upper portion extending between said clean out passages and spaced from the front portion of said radiator, an outer casing surrounding said combustion chamber and forming therewith an air passage and a riser extending directly from the front of the furnace between said clean out passages, the arrangement being such that warm air rising within the outer casing will be directed between the fuel and clean out passages into said riser.

1,663,634. COMBINATION EXHAUST AND INTAKE MANIFOLD. WILLIAM E. KEMP, New York, N. Y. Filed June 22, 1921. Serial No. 479,560. 5 Claims. (Cl. 125—122.)



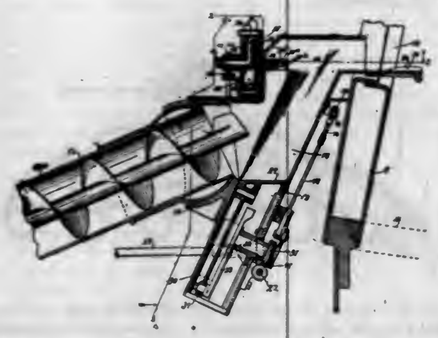
1. In a device of the character described, the combination with the exhaust-manifold of an internal combustion engine, of a branched intake-manifold having a duct extending into said exhaust-manifold and tapped into each branch of said intake-manifold, said intake-manifold being provided with an inlet at the point of junction of the branches thereof situated to permit of an initial vertical downward flow of the combustible charges therein, and a passage in said intake-manifold wholly disposed below said branches in alignment with said inlet and leading downwards to said duct.

1,663,635. RADIO APPARATUS. MATTHEW H. LOUGHRIDGE, Bogota, N. J., and JOHN S. HOLLIDAY, New York, N. Y.; J. Margaret Holliday administratrix of said John S. Holliday, deceased. Filed Dec. 30, 1921. Serial No. 525,917. 21 Claims. (Cl. 250—33.)



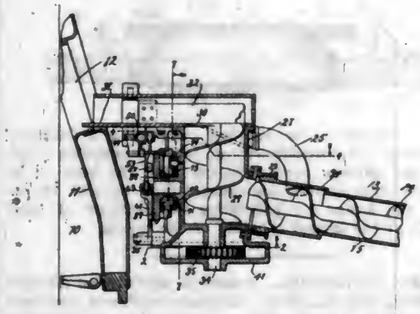
19. An aerial system comprising a foldable frame, a plurality of turns of wire attached thereto, and means for maintaining said turns substantially taut through the operations of folding and unfolding.

1,663,636. STOKER. NATHAN M. LOWER and PAUL A. KETCHPEL, Pittsburgh, Pa., assignors to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Aug. 9, 1923. Serial No. 656,481. 15 Claims. (Cl. 110—101.)



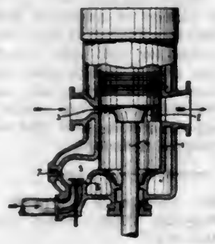
1. In a locomotive stoker, in combination, a delivery casing adapted for the discharge of fuel into a fire-box, means for introducing fuel into the casing through its lower wall, and means for discharging a blast against the fuel for discharging the same from the casing.

1,663,637. STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Sept. 27, 1924. Serial No. 740,167. 16 Claims. (Cl. 110—101.)



9. In a stoker, a pair of swinging vanes, means for alternately operating said vanes, a variable speed elevator for delivering fuel in the path of said vanes, and means for operating said elevator and vanes in timed relation.

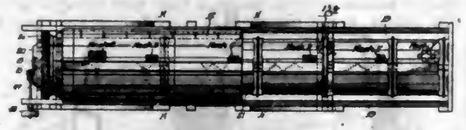
1,663,638. SCAVENGING DEVICE FOR DOUBLE-ACTING TWO-STROKE INTERNAL-COMBUSTION ENGINES. GERARD JOHAN LUGT, Amsterdam, Netherlands, assignor to Naamlooze Vennootschap Nederlandsche Fabriek van Werktuigen en Spoorwegmaterieel genaamd "Werkspoor," Amsterdam, Netherlands, a Dutch Company. Filed Oct. 18, 1924, Serial No. 744,472, and in the Netherlands Feb. 13, 1924. 2 Claims. (Cl. 123—61.)



1. In a double-acting two-stroke internal combustion engine, the combination with the engine cylinder having in the middle region of its wall scavenging air ports and outlet ports, and a piston in said cylinder, of a separate combustion chamber laterally projecting from said cylinder at the cross-head end thereof, and a scavenging air-valve opening into said chamber for admitting additional scavenging air, said outlet ports being longitudinally positioned to permit flow of scavenging air therethrough from both the scavenging air ports and the scavenging air-valve opening.

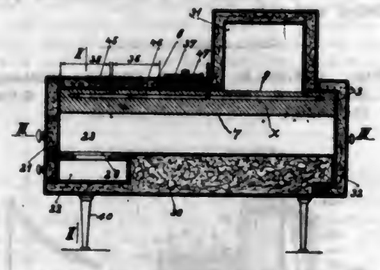
1,663,639. FRUIT GRADER. JOHN J. NEVILLS, Sacramento, Calif., assignor to Libby, McNeill & Libby, Chicago, Ill., a Corporation of Maine. Filed July 12, 1924. Serial No. 725,540. 3 Claims. (Cl. 209—291.)

1. In a grader, in combination, a pair of concentric members of polygonal contour, one of which envelops the other throughout a portion of the length of said other adjacent to the inlet end thereof, said concentric members of polygonal contour comprising screen members of different mesh, the mesh of the screens of said inner concentric member being progressively greater from the inlet end thereof to the outlet end thereof, the mesh of the screens of the outer concentric member being less than the smallest mesh of the screens of the inner con-



centric member and increasing progressively from the inlet end to the outlet end thereof, whereby members of intermediate sizes are sorted out relatively soon after insertion into said inner concentric member.

1,663,640. HEATING DEVICE. ALEXANDER PAIS, Bucharest, Rumania, assignor to Theodor Popescu, Alexander Pais, and Constantin Pais, Bucharest, Rumania. Filed Oct. 3, 1925, Serial No. 60,361, and in Austria Aug. 8, 1925. 7 Claims. (Cl. 257—1.)



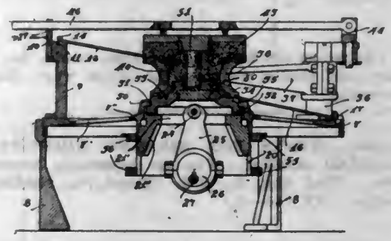
1. A heating device comprising a heat conducting block, a source of heat for heating said block and provided internally with a plurality of interconnected passages charged once and for all with a temperature equalizing medium, the metal block being completely enveloped in heat insulating material excepting at those parts of its surface which cooperate with the heat source and those parts of its surface which serve to deliver up heat.

1,663,641. EXERCISER AND BLOOD CIRCULATOR. GEORGE S. SMALLWOOD, Freeport, N. Y. Filed Jan. 27, 1927. Serial No. 163,878. 4 Claims. (Cl. 272—80.)



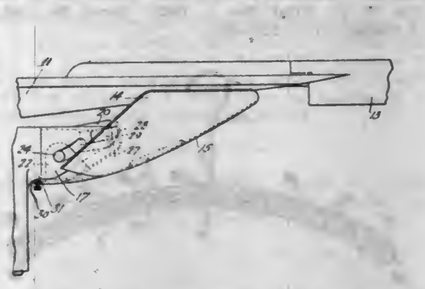
1. An exerciser comprising a pair of endless elastic bands of substantially equal length adapted to extend from the shoulders to the feet of the user uninterruptedly and loosely, the bands being shorter between the shoulder and foot-receiving portions than the length of the user from shoulders to feet when standing erect for stretching the bands and creating strain upon the body when the user stands erect, and means to retain the bands in position upon the body.

1,663,642. PERMANENT MOLD. JOHN SPOUSTA, River Rouge, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a Corporation of Michigan. Filed June 10, 1926. Serial No. 114,905. 12 Claims. (Cl. 22—128.)



1. A mold of the class described comprising, a cope forming portion; a table; a base forming member for said mold movable relatively to said table into and out of engagement with an opening formed in said table; retaining members mounted on said table; a pair of swingably mounted side wall forming members for said mold adapted for movement into operative and inoperative position without disturbing members supported by said retaining members.

1,663,643. SLICE DEFLECTOR FOR SLICING MACHINES. HENRY THOMAS, London, England, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Oct. 14, 1926, Serial No. 141,434, and in Great Britain Mar. 13, 1926. 13 Claims. (Cl. 146—102.)

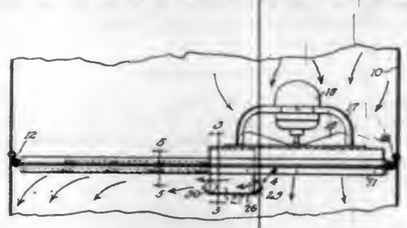


1. The combination with a slicing knife, of a deflector for directing slices away from the face of the knife, and a locking means operable by movement of the deflector in the direction of movement of slices severed by said knife for locking said deflector in position adjacent the face of the knife.

1,663,644. AIR-CIRCULATING DEVICE FOR WARM-AIR FURNACES. LEWIS C. WEAVER, Chicago, and WALTER H. RIETZ, Ravinia, Ill., assignors to Ilg Electric Ventilating Company, Chicago, Ill., a Corporation of Louisiana. Filed Jan. 9, 1928. Serial No. 245,391. 9 Claims. (Cl. 126—99.)

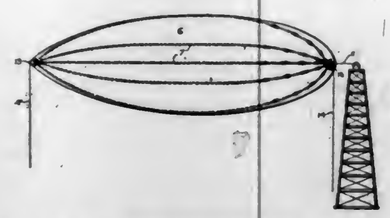
1. In an air circulating device for furnaces, the combination of a panel mounted in the air intake conduit

of a furnace, said panel having a fan opening, a fan mounted on said panel, a shutter so mounted in said conduit as to swing to open position when the fan is



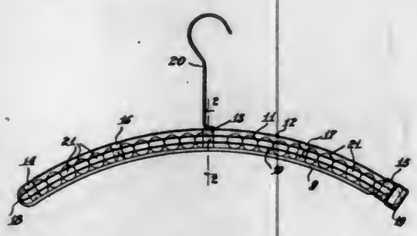
idle, and means for deflecting a portion of the fan blast against said shutter to close the latter when the fan is operating.

1,663,645. MEANS FOR MOORING AIRSHIPS TO MOORING MASTS. WILLIAM AUBERLIN, Northfield, Ohio. Filed Aug. 1, 1927. Serial No. 209,830. 5 Claims. (Cl. 244—2.)



1. An air-ship provided with guides extending from nose to stern, and cables in said guides, said cables being adapted for connection to a mooring mast or the like.

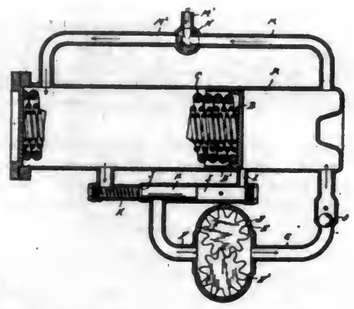
1,663,646. GARMENT HANGER. RUBIN BASS, Brooklyn, N. Y. Filed Nov. 4, 1926. Serial No. 146,202. 4 Claims. (Cl. 223—64.)



1. A garment hanger comprising a plurality of longitudinally extending strips forming a track-way for moth balls, the bottom strip being of greater cross section than the others and rings connecting the strips to form trusses.

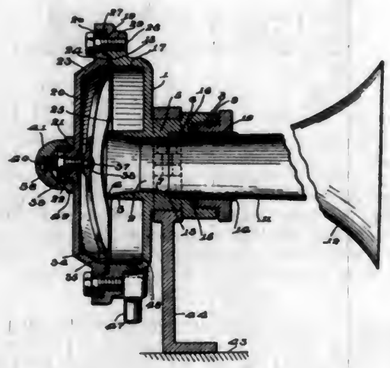
1,663,647. ENERGY-STORAGE UNIT. ALANSON P. BRUSH, Detroit, Mich. Filed Feb. 7, 1927. Serial No. 166,566. 5 Claims. (Cl. 103—140.)

1. The combination with a fluid storage cylinder, a piston therein and resilient means forming a progressively increasing resistance to the movement of said piston in one direction in said cylinder, of mechanically driven fluid displacement means having its discharge connected to said cylinder at the end toward which the piston is urged by said resilient means, the inlet to said displacement means being connected to said cylinder on the opposite side of the piston, a valve for controlling



the inlet conduit and means automatically operated upon movement of said piston to a predetermined position for closing said valve.

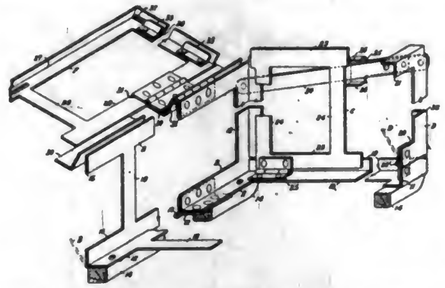
1,663,648. WHISTLE. CLARK COOPER, Philadelphia, Pa. Filed Oct. 4, 1927. Serial No. 223,930. 6 Claims. (Cl. 116—142.)



5. A whistle, comprising a two-piece casing, one of which has an annular shoulder surrounded by a flange and the other of which has an annular flange in uniform relation with said shoulder within said first flange, a diaphragm having its periphery supported between said shoulder and cooperating second flange, said casing having an outlet surrounded by a flange normally bearing against the central region of said diaphragm, a plate having air-equalizing passageways and cooperating in such manner with said diaphragm between the margin and the central region of the latter to press said diaphragm positively against said outlet flange, and a gasket secured at its outer margin between said diaphragm and second flange and extending radially inwardly between and separating said diaphragm from direct contact with said plate.

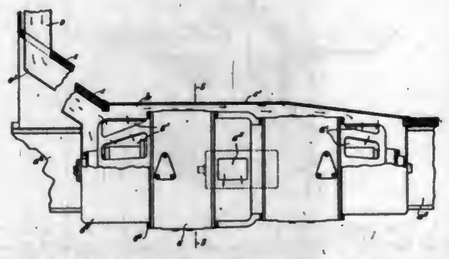
1,663,649. COLLAPSIBLE CONTAINER. HENRY O. ELKINS, Bath, N. Y. Filed Oct. 12, 1923, Serial No. 668,070. Renewed Feb. 1, 1928. 7 Claims. (Cl. 220—6.)

1. A collapsible container including, in combination, body sections including bottom, end and side sections articulated for extension to form enclosing walls or to be collapsed, bracing links connected to opposed body sections and other opposed body sections being adapted to brace the container to sustain it in extended position, a cover section having hinged connection to said body and adapted to swing into a position to overlie the upper edges of said body sections so as to transmit loads thereto and to entirely uncover the space within the



container, said hinged connection also permitting the cover section when collapsed to assume a position substantially parallel with the body sections and face to face with certain of the said sections, and retaining members on said cover section adapted when the cover is closed to cooperate with said sustaining sections to retain them in sustaining position.

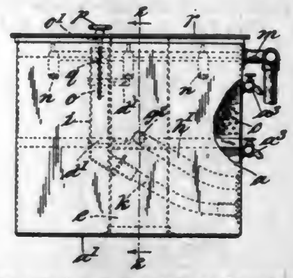
1,663,650. VENTILATING SYSTEM. CHARLES FROESCH, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 24, 1927. Serial No. 177,877. 2 Claims. (Cl. 98—2.)



1. In a vehicle, side frame members and flooring carried therewith, a driving unit between the members and below the flooring, a duct, means cooperating with the flooring for forming an enclosure for a portion of the unit and means to cause the duct to carry ventilating air from the exterior of the vehicle and above the frame members to the enclosure, whereby the ventilation of the unit by means of such air is effected.

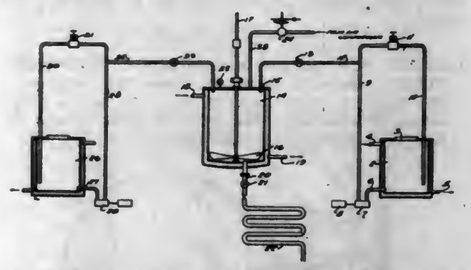
1,663,651. DEVICE FOR SEPARATING LIQUIDS OF DIFFERENT SPECIFIC GRAVITIES. EDWARD WILLIAM GREEN, London, England. Filed June 8, 1926, Serial No. 114,422, and in Great Britain June 24, 1925. 1 Claim. (Cl. 210—51.)

An improved device for separating liquids of different specific gravities having in combination a tank, perforated distributing troughs or channels for introducing the admixed liquids into the liquids in the tank at a low velocity and without shock, an open ended trunk the lower end of which is in communication with the liquid of heavy specific gravity collected in the lower part of the tank, a partition in said trunk having an upper edge arranged to act as a discharge weir for the liquid of heavy specific gravity, a conduit for conveying the liquid of heavy specific gravity discharged over the weir to the exterior of the tank, a vertically displaceable trunk the upper end of which is arranged to act as a discharge weir for the liquid of lighter specific gravity, a flexible conduit for conveying the liquid of lighter specific gravity from the last named



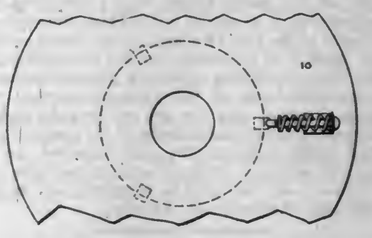
trunk to the exterior of the tank, and mechanical means for raising and lowering the last named trunk relative to the first named trunk, the said trunks being located centrally in said tank so as to reduce effects due to tilting of the tank as much as possible.

1,663,652. BITUMINOUS EMULSION. HENRY R. GUNDLACH, Baltimore, Md., assignor to Thomas Oil By-Products Company, a Corporation of New Jersey. Filed Apr. 25, 1923. Serial No. 634,641. 3 Claims. (Cl. 134—1.)



1. In the manufacture of bituminous emulsions, the step of mixing a melted bitumen and a colloidal suspension in a closed vessel in which the pressure is maintained above atmospheric and above the pressure of saturated steam at a temperature corresponding to the temperature of the resulting mixture.

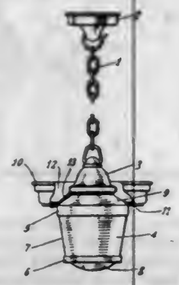
1,663,653. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo. Filed May 22, 1922. Serial No. 562,676. 1 Claim. (Cl. 240—128.)



In a device of the character described, the combination, with a reflector and a bowl having a lip formed thereon, of a plurality of fixed lugs secured to the reflector to engage the lip of said bowl there being an opening in said reflector, a spring-actuated shaft mounted on the upper side of the reflector, the end of said

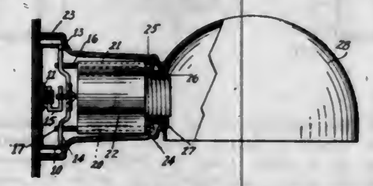
shaft extending downwardly and inwardly through said opening forming a retaining clip, having a spring mounted to hold said clip normally in engagement with said lip.

1,663,654. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo. Filed July 13, 1925. Serial No. 43,092. 3 Claims. (Cl. 240—78.)



1. A lighting fixture, comprising a hanger, an enclosed cylindrical globe having parallel ribs at the top and bottom, and downwardly and inwardly tapering side walls, and an inwardly extending truncated conoidal portion which extends from the upper rib to the hanger, a canopy reflector, having a substantially horizontal reflecting surface which reflects the light rays to the working plane, there being a central opening in said reflector through which said conoidal portion extends, to illuminate the ceiling.

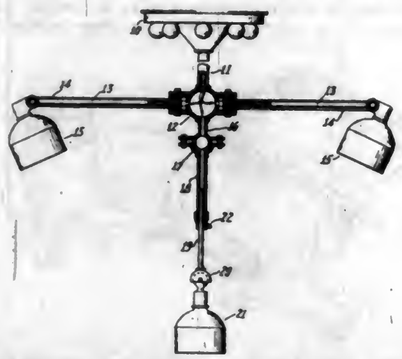
1,663,655. SUPPORTING MEANS FOR LIGHTING FIXTURES. OSCAR D. GUTH, St. Louis, Mo., assignor to The Edwin F. Guth Company, St. Louis, Mo., a Corporation of Missouri. Filed July 15, 1925. Serial No. 43,736. 3 Claims. (Cl. 240—73.)



1. A support for lighting fixtures, comprising a U shaped metal strap to engage the stud of a junction box, with a screw-threaded orifice in the outer member thereof; a metal bridge with offset ends, there being screw-threaded orifices in each of said ends; a knock-out plug in the center of said bridge, having screw-threaded orifices therein; a set-screw to engage the screw-threaded orifice of the bridge and the screw-threaded orifice of the outer member of the metal hickey strap; elongated headed screws adapted to be seated in the screw-threaded orifices in the ends of the metal bridge; a lamp socket with longitudinal grooves to be engaged by the aforesaid elongated screws; a canopy having oppositely disposed keyhole slots to receive the heads of the elongated screws; a glass shade to be seated over the end of the light socket, the lip thereof engaging the outer end of the canopy; a screw-threaded collar to engage the screw-threaded end of the socket, and having a flange to engage the inner surface of the glass shade and hold it in position on the canopy, substantially as shown and described.

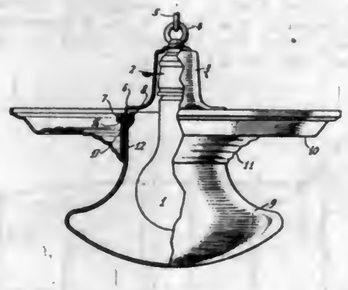
1,663,656. LIGHTING FIXTURE FOR SURGICAL OPERATING ROOM. EDWIN F. GUTH, St. Louis, Mo. Filed Sept. 19, 1925. Serial No. 57,268. 5 Claims. (Cl. 240—3.)

1. A lighting fixture comprising a plurality of arms extending from a central support; a concentrating reflector at the end of each arm, a light source within each reflector; means to rigidly support the reflectors from their respective arms; an adjustable telescoping support



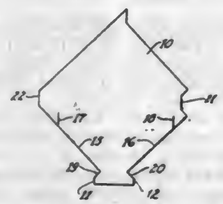
depending from the central support; a ball joint at the base of the telescoping support; a concentrating reflector depending from said ball joint and a light source within the reflector.

1,663,657. LIGHTING FIXTURE. EDWIN F. GUTH, St. Louis, Mo. Filed Feb. 17, 1926. Serial No. 88,758. 5 Claims. (Cl. 240—78.)



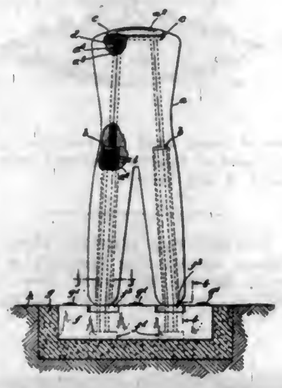
1. The combination in a lighting fixture of a fitter, a globe having a convex lower and a concave upper portion terminating in a neck, a lamp bulb in said globe, a socket mounted in said fitter, a reflector canopy mounted in juxtaposition to the neck of said globe, and means to adjust said reflector canopy vertically.

1,663,658. SHINGLE. NORMAN P. HARSHBERGER, Chicago, Ill. Filed Oct. 9, 1924. Serial No. 742,544. 11 Claims. (Cl. 108—8.)



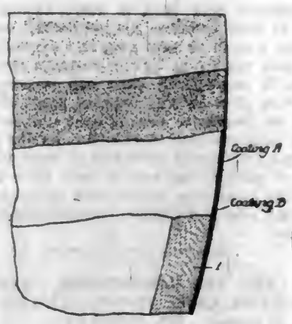
1. A shingle having its opposite edges parallel and its adjacent edges perpendicular to each other, and lugs extending outwardly from two adjacent sides at one corner of the shingle; another corner of the shingle having a recess formed therein.

1,663,659. TACKLING DUMMY. HENRY RIDGEWAY HART, Montclair, and KEENE FITZPATRICK, Princeton, N. J.; said Fitzpatrick assignor to said Hart. Filed Aug. 26, 1925. Serial No. 52,484. 6 Claims. (Cl. 273—55.)



1. In a device of the character described, the combination with a base, of a dummy and a resilient connection having a flexible core between the base and dummy.

1,663,660. REFRACTORY ARTICLE AND METHOD OF MAKING SAME. ADOLPH F. HOTTINGER, Chicago, Ill., assignor to Chicago Crucible Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1924. Serial No. 754,478. 6 Claims. (Cl. 91—72.)



1. A crucible containing carbonaceous material, clay and flux, and having a coating thereon, said coating having a constituent composition fusible at approximately the ignition temperature of said carbonaceous material and also having a constituent composition fusible at approximately the vitrifying temperature of said clay.

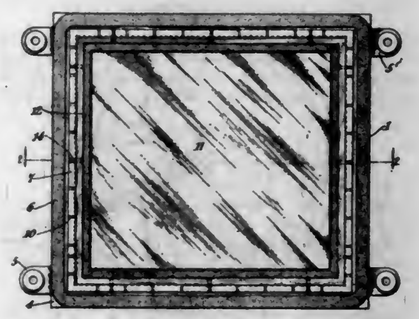
1,663,661. INDICATING MEANS. BENJAMIN F. HUTCHES, Jr., Allendale, N. J. Filed Nov. 16, 1926. Serial No. 148,633. 4 Claims. (Cl. 116—133.)

4. In a time indicating device, a casing, a clock dial mounted in the casing for visual observation, hour and minute hands mounted concentrically in the casing centrally of the dial for movement relative thereto, gearing for operatively connecting and rotating the one hand from the rotation of the other hand, a stem mounted in the casing to have axial and rotative movement and having a part extending to the exterior of the casing with means thereon for imparting axial and rotary movement thereto, and means to lock the axially movable stem in position with the gear thereon out of mesh with the pinion of the hand operating gearing comprising a rod mounted in the casing for rotation on an axis transverse to the axis of the stem with one end of the rod bent



laterally and adapted to be moved into and out of the path of the axial movement of the stem by the rotation of the rod, and the opposite end of the rod arranged in line with an opening in the casing and having a slot therein for the engagement of a key inserted in the casing opening to rotate the rod.

1,663,662. PHOTOGRAPHIC PRINTING FRAME. HARRY C. JONES, Larchmont, N. Y., assignor to Lithoprinter Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1923. Serial No. 615,487. 9 Claims. (Cl. 95—76.)

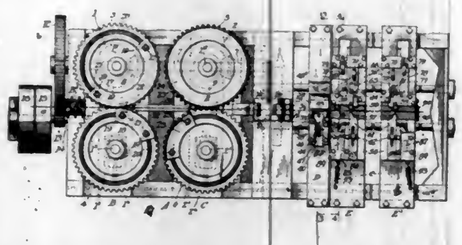


1. In apparatus of the character described, the combination of a frame for receiving and holding a negative to be printed from onto a sensitized surface, said frame supporting and securing the negative from lateral movement relative thereto so that the frame with the negative secured thereon may be moved together with respect to the sensitized surface, means for sealing the frame to the sensitized surface, transparent enveloping means extending over the frame opening at the rear of the negative and sealed to the frame and adapted through pneumatic pressure to press the negative into contact with the sensitized surface, and means of communication for exhausting the air from the space between the enveloping means and the sensitized surface.

1,663,663. WIREWORKING MACHINE. JOHN F. KAMEN, River Forest, Ill. Filed July 11, 1923. Serial No. 650,791. 10 Claims. (Cl. 140—71.)

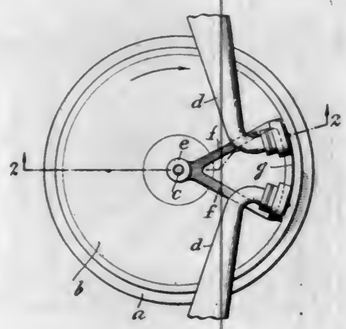
1. In a wire working machine for the purpose specified, the combination of wire feeding means and wire crimping means, both of said wire feeding means and wire crimp-

ing means consisting of heads arranged in pairs, shafts to which said heads are secured, respectively, said feeding heads comprising opposed circular tread portions adapted to frictionally engage the wire to be fed, and said crimping heads comprising opposed circular portions between which the wire is adapted to pass, and co-acting crimping teeth thereon, a tread portion of a feeding head



and a crimping portion of a crimping head forming a segment of a circle and being supported so as to be angularly adjustable, the relation being such that said feeding means and crimping means will engage the wire separately, a driven shaft, and driving connection between said driven shaft and the shafts of said feeding means and crimping means whereby both will be driven continuously.

1,663,664. PHONOGRAPH. HEINRICH J. KÜCHENMEISTER, Berlin, Germany. Filed May 12, 1924, Serial No. 712,770, and in Germany May 12, 1923. 4 Claims. (Cl. 274—9.)

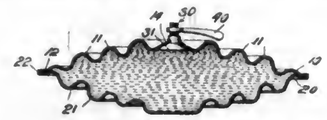


1. A stylus setting device for a sound record disc comprising a vertically extending member for attachment to a center pin of a phonograph turn table, and a laterally projecting arm having a curved outer edge adapted to receive and guide the stylus in a selected phonic groove of the record disc.

1,663,665. FIRE EXTINGUISHER, CONTAINER FOR FIRE-EXTINGUISHING LIQUIDS AND OTHER FLUIDS, AND METHOD FOR MAKING THE SAME. ALFRED L. LOOMIS, Tuxedo Park, N. Y., assignor to Robert W. Byerly, New York, N. Y. Filed Nov. 26, 1921. Serial No. 517,970. 10 Claims. (Cl. 299—90.)

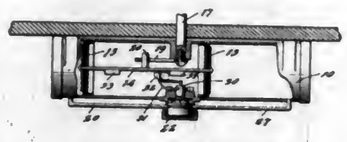
1. In a fire extinguisher, a closed container having a resilient wall normally forced against the opposite wall of the container by its inherent resiliency.

10. A fire extinguisher, comprising a corrugated metal container of variable volume containing a body of fire extinguishing liquid and having a resilient wall tending to move inwardly under its inherent resiliency to enclose the body of liquid continuously under pressure, a nozzle mounted directly on the container and communicating with the interior of said container, and a valve control-



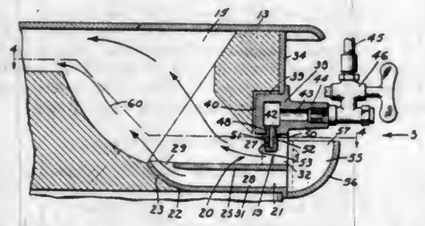
ling the flow of liquid from the container to the nozzle so that the liquid is forcibly projected from the nozzle on the opening of said valve.

1,663,666. WINDSHIELD WIPER. JACOB MOSKOVITZ, Middle Village, and WILLIAM PERETZ, New York, N. Y., assignors to Maxwell Eisenstein, New York, N. Y. Filed Oct. 30, 1925. Serial No. 65,766. 1 Claim. (Cl. 121—164.)



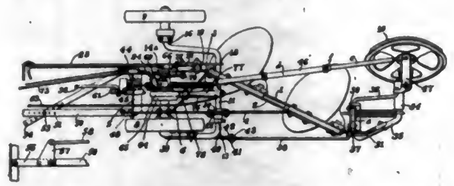
A windshield wiper comprising a cylinder, a double headed piston mounted for reciprocation within said cylinder, a vane connecting said piston heads rigidly in spaced relation, a pair of lugs projecting laterally from one side of said vane and in spaced relation longitudinally of the vane, a wiper arm extending through said cylinder and in operative connection with said vane on the side thereof opposite said lugs, a valve casing formed on one wall of said cylinder, an oscillatory valve plug in said casing, a stem on said plug and extending into said cylinder, said valve plug having passages formed therein, a partition in said plug dividing said passages, said valve casing having diametrically opposed ports in communication with the respective ends of said cylinder and one of said valve passages, said valve casing having a port intermediate said first named ports and in communication with a source of suction and one of said valve passages, an arm on said valve stem within said cylinder, a terminal shoe on said arm and disposed between said lugs on the piston vane.

1,663,667. OIL AND GAS BURNER. MARTIN MADSEN, Monterey Park, Calif. Filed Feb. 25, 1926. Serial No. 90,466. 5 Claims. (Cl. 158—1.5.)



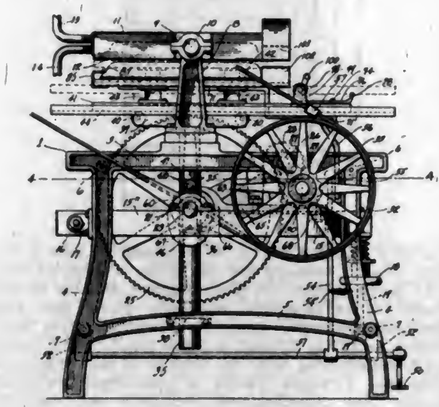
1. In a burner, the combination of: walls forming a combustion chamber, and a mouth connecting said combustion chamber to the exterior; a body situated in said mouth, and extending a considerable distance into said combustion chamber, said body dividing said mouth into a primary draft passage communicating directly with the forward portion of said combustion chamber, and a secondary draft passage communicating directly with said combustion chamber rearwardly of said primary passage; a body disposed above said mouth; and a nozzle carried by said last-named body, said nozzle projecting into said primary passage for supplying fuel thereto.

1,663,668. ORCHARD PLOW. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 9, 1922. Serial No. 567,161. 18 Claims. (Cl. 97—73.)



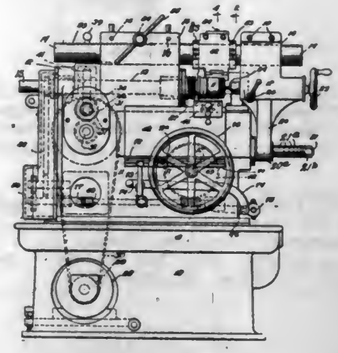
15. In a wheeled plow, a frame comprising laterally spaced side members, a transversely disposed crank axle pivotally mounted on said frame and having a spindle extending inward under one of the side members thereof, a front furrow wheel, a land wheel mounted on said axle, clutch mechanism mounted on said spindle between the side members of the frame, means operable to actuate said clutch mechanism by the rotation of the land wheel, and devices actuated by said clutch mechanism for rocking said axle to lift the frame.

1,663,669. IRONING MACHINE. CARL A. PETERSON, Alderwood Manor, Wash. Filed Dec. 23, 1925. Serial No. 77,193. 4 Claims. (Cl. 68—9.)



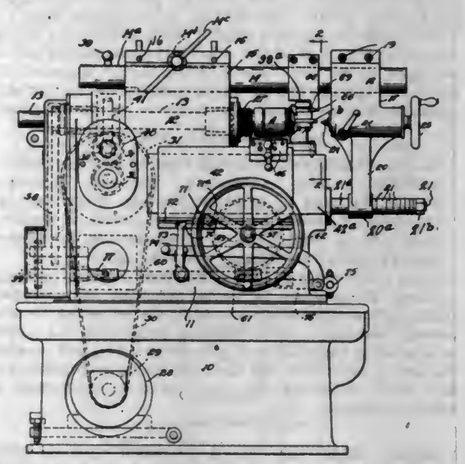
1. In a device of the character described, a frame structure, a heated ironer supported horizontally by the frame, a vertical post supported reciprocally in the frame, centrally beneath the iron, a frame mounted on top of the post comprising a horizontal guideway and rollers therein, an ironing board having a base plate slidable along the guideway on said rollers to position the board directly beneath or at one end of the iron, a horizontal drive shaft, cams on the shaft, rollers on the post engaged by the cams to cause the post to be raised and lowered to actuate the board against and from the ironer, driving mechanism for the shaft including a belt operable over driving and idler wheels, a belt shifter, manually operable means for shifting the belt onto the driving wheel and automatically operable means for shifting it to the idler wheel when the post has been actuated to its upper or to its lower limit of travel.

1,663,670. LATHE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a Corporation of Illinois. Filed July 7, 1923. Serial No. 650,173. 11 Claims. (Cl. 82—2.)



1. A lathe having an overarm, a tool-supporting arm mounted upon the overarm, and means for swinging the arm to move the tool carrier including a block having an inclined groove, and a shoe slidable in said groove.

1,663,671. LATHE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a Corporation of Illinois. Filed July 7, 1923. Serial No. 650,174. 12 Claims. (Cl. 82—2.)



1. A lathe having a carriage, a bracket on the carriage, a bell crank lever pivotally mounted on the carriage and having one arm extending in opposed relation to the bracket, and another arm adapted to support a tool at its free end, means providing a template with which the free end of said tool-carrying arm is adapted to coact, and spring means interposed between said bracket and the first mentioned arm.

1,663,672. MIRROR BRACKET. JULES A. THERASSE, Marion, Ind., assignor to Irvington Auto Products Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 11, 1925. Serial No. 49,670. 4 Claims. (Cl. 45—97.)



4. A one piece mirror bracket formed of bendable and twistable metal, the said bracket having a tongue, means on said tongue for holding a mirror, and means on said tongue for anchoring the same to a supporting surface.

1,663,673. CURTAIN FASTENER. JOHN VODICKA, Chicago, Ill., assignor, by mesne assignments, to Cinch Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1924. Serial No. 698,016. 4 Claims. (Cl. 24—216.)



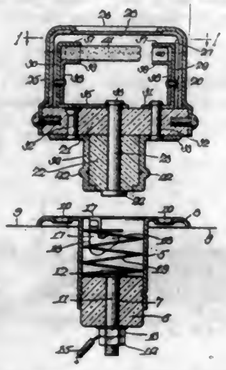
1. In a curtain fastener of the class described, a snap member comprising a plate having a post-hole therein, the plate being slitted substantially diametrically with respect thereto on opposite sides of the post-hole and struck up so that a portion of the edge of the post-hole is out of the plane of the plate, and a spring tongue supported by said plate beneath the struck up portion, the end of said spring tongue extending into the area of the post-hole.

1,663,674. LIMITING DEVICE FOR ELECTRIC REGULATORS. ARLE YTTERBERG, Furuhall, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Corporation of Sweden. Filed Apr. 6, 1926, Serial No. 100,048, and in Sweden Apr. 11, 1925. 5 Claims. (Cl. 171—229.)

1. In electric regulators, a movable member carrying contacts, electromagnetic means actuating said member, other electromagnetic means resiliently connected to said movable member, a stop normally preventing the action of said other means on said movable member, and equalizing means associated with said connection and permitting said other electromagnetic means to be in equilibrium in several positions.

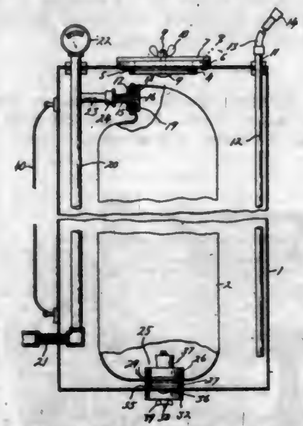
1,663,675. ELECTRIC CIGAR LIGHTER. JOSEPH RENÉ AYOTTE, Chicago, Ill., assignor of one-half to Frank P. Hoy, Chicago, Ill. Filed Apr. 24, 1926. Serial No. 104,327. 2 Claims. (Cl. 219—32.)

1. The combination with a socket having a terminal therein and spring means for normally preventing contact with said terminal, of an electrical heating unit comprising an insulating base having a reduced portion and a terminal extending therethrough, an electrical conducting collar portion on said reduced portion for engaging said socket, a pair of supports having jaw members thereon mounted on said base, one of said supports being secured to said base by and having electrical conducting relation with said last mentioned terminal and the other of said supports being secured to said base by and having elec-



trical conducting relation with the securing means for said collar portion, and a heating element mounted between said jaw members and in electrical contact therewith.

1,663,676. SPRAYING DEVICE. HENRY C. BAUMGARDNER, Ann Arbor, Mich. Filed July 6, 1926. Serial No. 120,785. 10 Claims. (Cl. 299—92.)



1. In a spraying device, the combination with a normally closed receptacle for containing a spraying fluid and a discharge pipe in a communication with the interior thereof, of an expansible receptacle within said first-mentioned receptacle, a pipe for conducting fluid under pressure extending through said first-mentioned receptacle and communicating with the interior of said expansible receptacle, a fitting having a passageway extending through said first-mentioned receptacle and communicating with the interior of said expansible receptacle, a valve within said expansible receptacle for closing said passageway, and means operable from outside said first-mentioned receptacle for actuating said valve.

1,663,677. FIRE EXTINGUISHER AND CONTAINER FOR FIRE-EXTINGUISHING LIQUIDS AND OTHER FLUIDS. ROBERT W. BYERLY, New York, N. Y. Filed Dec. 1, 1921. Serial No. 519,172. 11 Claims. (Cl. 299—90.)

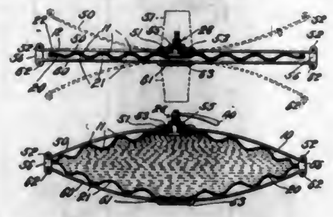
1. A fire extinguisher, comprising a closed container having opposite walls of stiff resilient material, each of said walls being extensible and contractable and one of

said walls having a normal inward curvature, and a body of fire extinguishing liquid in said container serving to hold said inwardly curved wall in a form less



curved than its normal form and to hold the opposite wall in a form more curved than its normal form and retained under pressure by the resiliency of said walls.

1,663,678. FIRE EXTINGUISHER. ROBERT W. BYERLY, New York, N. Y. Filed Feb. 23, 1922. Serial No. 538,485. 15 Claims. (Cl. 299—90.)



1. A fire extinguisher, comprising a metal container of variable volume having a continuous self-sustaining wall adapted to confine a body of liquid, and a spring secured to said container and urging its wall inwardly to maintain a body of liquid in the container constantly under pressure.

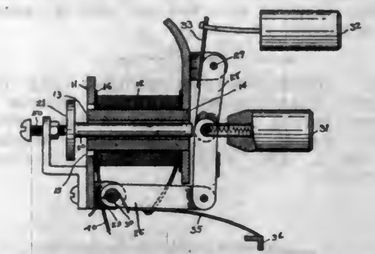
1,663,679. TOY BOMB. FRED J. CARPENTER, St. Louis, Mo. Filed Dec. 24, 1926. Serial No. 156,827. 2 Claims. (Cl. 46—46.)



2. An article of the class described comprising a receptacle having a discharge opening, a liftable cover for said opening, a movable intermediate partition dividing said receptacle into upper and lower compartments, the former being adapted to contain a quantity of dischargeable material, a charge of explosive material positioned in said lower compartment, a pair of wads for cushioning said explosive material and adapted to reinforce the lower portion of said receptacle and a fuse leading through the lower portion of said receptacle and into said explosive material.

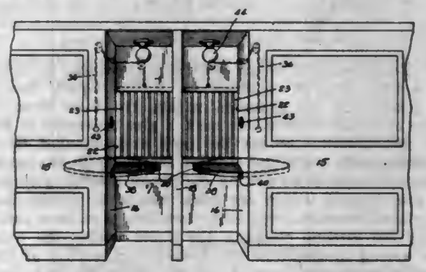
1,663,680. ELECTRIC SWITCH. NOIBERTO GUY COPLEY, Detroit, Mich., assignor to Sunny Line Appliances, Incorporated, Detroit, Mich., a Corporation of Delaware. Filed June 27, 1925. Serial No. 39,988. 1 Claim. (Cl. 200—94.)

A switch consisting of an insulating base having mounted thereon a bracket carrying a coil of insulated wire connected at one end to a lead-in wire and at its other end to a spring contact finger pivotally mounted on said bracket, said coil having a hollow cylindrical core, toggle mechanism on said bracket for moving the finger into contact with a fixed contact also mounted on the base, the toggle being constructed to move over center when contact is made, and an armature guided in the said hol-



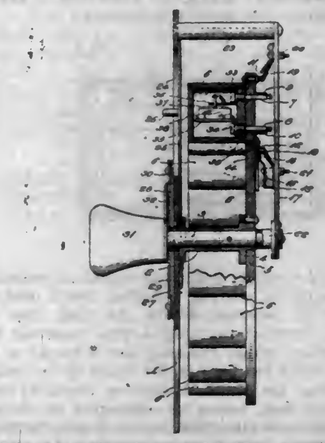
low core adapted to operate as a plunger to move back the toggle and break the circuit when excess current flows through the coil.

1,663,681. TELLER'S CAGE. EARL E. CRONENWETH, Glendale, Calif. Filed Mar. 17, 1926. Serial No. 95,276. 3 Claims. (Cl. 20—1.01.)



1. In combination, a teller's cage having a laterally disposed window not accessible to a teller, and a table beneath the window arranged with portions disposed in the cage and at the outer side of the window, and the table being rotatable in two directions relatively to the window to permit reversing the positions of the portions with respect to the sides of the window.

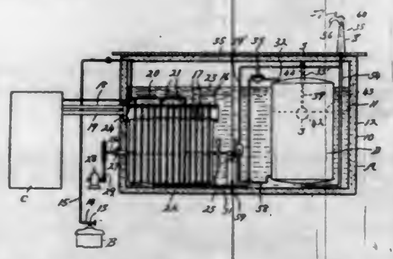
1,663,682. PIEZO-ELECTRIC-CRYSTAL APPARATUS. ALFRED CROSSLEY and CORRIE F. RUDOLPH, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 26, 1926. Serial No. 97,716. 12 Claims. (Cl. 111—327.)



9. A piezo electric crystal holder comprising a threaded base member, a pair of plug contacts extending outwardly

from within said base member, a shelf-like member secured to one of said contacts and a metallic arm secured to the other of said contacts, a contacting plate guided by said metallic arm and a piezo electric cryatal mounted between said contacting plate and said shelf-like member for free mechanical vibration.

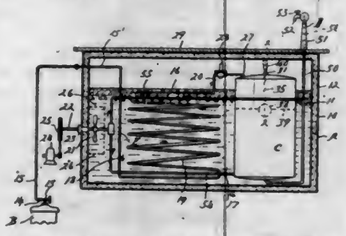
1,663,683. APPARATUS FOR COOLING AND DISPENSING CARBONATED LIQUIDS. WILLIAM E. DOUGHTY, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 1, 1926. Serial No. 85,344. 12 Claims. (Cl. 225—21.)



1. A carbonated beverage dispensing apparatus comprising a tank adapted to contain a cooling liquid, means for conducting the beverage within the tank from a source of supply without the tank, a pipe connected to receive the beverage within the tank and arranged in a circuitous path below the level of the liquid in the tank, mechanical means for cooling the liquid, a settling chamber also located within the tank, means for conducting the cooled beverage from said circuitous pipe to a point within the settling chamber, the liquid within the tank also serving to maintain the desired temperature of the beverage therewithin and means for circulating the cooling liquid in the tank around the said pipe and settling chamber.

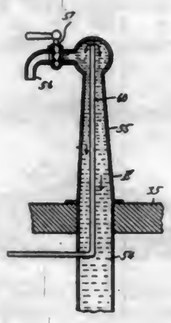
9. In a beverage dispensing apparatus, a tank adapted to contain a cooling medium, mechanical means for cooling the said cooling medium, including a cooling unit arranged within the said tank, and a beverage conductor arranged within the said tank and surrounding the said cooling unit.

1,663,684. APPARATUS FOR DISPENSING CARBONATED BEVERAGES. WILLIAM E. DOUGHTY, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 1, 1926. Serial No. 85,345. 6 Claims. (Cl. 225—21.)



1. A carbonated beverage dispensing apparatus comprising a tank adapted to contain a cooling liquid, means for conducting the beverage within the tank from a source of supply without the tank, a pipe connected to receive the beverage within the tank and arranged in a circuitous path below the level of the liquid in the tank, means for cooling the liquid, a settling chamber also located within the tank, means for conducting the cooled beverage from the said circuitous pipe to a point within the settling chamber, a draft apparatus located without the chamber, means for conducting the beverage from the settling chamber to the draft apparatus, means for circulating the beverage between the draft apparatus and the said chamber, said last named means including a pump, a rotatable shaft for actuating said pump, and means also actuated by said shaft for establishing a circulation of the said liquid within the tank.

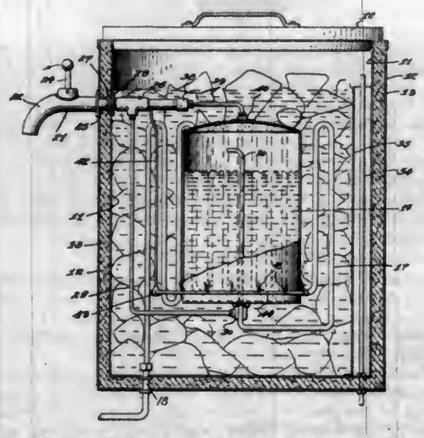
1,663,685. APPARATUS FOR DISPENSING LIQUIDS. WILLIAM E. DOUGHTY, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 1, 1926. Serial No. 85,347. 15 Claims. (Cl. 225—21.)



1. A liquid dispensing device comprising a draft arm, a dispensing nozzle, said draft arm forming a conduit for the passage of the liquid from a supply under pressure, a valve controlling the passage of the liquid from the draft arm to the nozzle, and means for circulating a cooling liquid between a source of supply and through said draft arm.

15. The combination in a beverage dispensing apparatus, of a conduit adapted to contain a beverage to be dispensed, and means for discharging beverage of a lower temperature into said conduit into contact with the beverage to be dispensed therefrom.

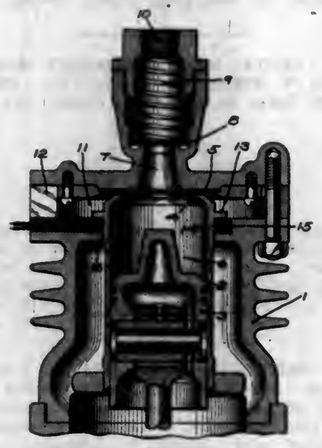
1,663,686. METHOD AND APPARATUS FOR DISPENSING CARBONATED BEVERAGES. WILLIAM E. DOUGHTY, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a Corporation of Michigan. Filed June 1, 1926. Serial No. 113,056. 20 Claims. (Cl. 225—40.)



14. The method of cooling a carbonated beverage which consists in conducting the beverage through a cooling liquid, and discharging a gas into the cooling liquid adjacent the beverage conducting means to agitate the cooling liquid.

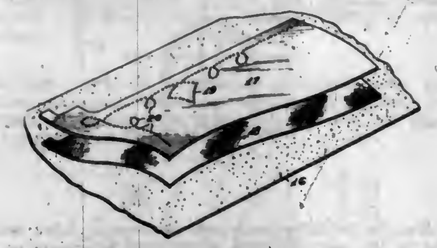
15. In a carbonated beverage dispensing apparatus, a tank adapted to contain a cooling medium, means for conducting a beverage within said tank, and means for discharging a portion of the gas from said beverage below a portion of the said beverage conducting means for agitating the said cooling medium around the beverage conducting means.

1,663,687. COMPRESSOR-UNLOADING DEVICE. SIDNEY G. DOWN, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 1, 1927. Serial No. 195,623. 8 Claims. (Cl. 230—24.)



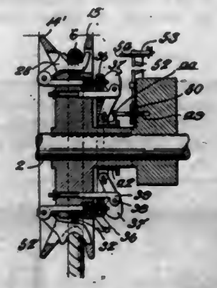
6. In a fluid compressor, the combination with a cylinder casing having a movable sleeve and a piston in said sleeve, said sleeve being moved by friction with the piston, of an electro-magnet for controlling the movement of said sleeve, and a switch device for controlling the circuit of said electro-magnet.

1,663,688. EMBOSSING PLATE AND METHOD OF PRODUCING THE SAME. CHARLES E. EDWARDS, Manchester, N. H. Original application filed Dec. 15, 1926. Serial No. 155,068. Divided and this application filed June 21, 1927. Serial No. 200,421. 9 Claims. (Cl. 101—28.)



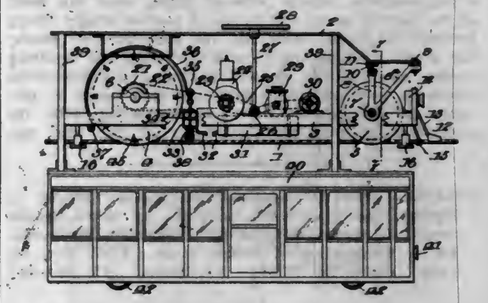
1. An embossing plate for use in marking upper shoe sections, said plate having a plurality of tapered bosses stamped therefrom, one side of each boss having a greater area than its opposite side, the greater area sides being arranged alternately with relation to the lesser area sides.

1,663,689. GRIP WHEEL. OSCAR A. ELLIS, San Francisco, Calif. Filed June 27, 1921. Serial No. 480,820. 8 Claims. (Cl. 64—40.)



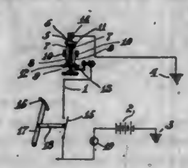
1. A grip wheel comprising a pair of peripheral flanges forming between them a groove adapted to receive a rope in intimate contact therewith and a series of grip members mounted to swing about radially fixed pivot pins carried by said wheel and located adjacent to but both laterally of and radially inward of said groove, each of said members having a portion located at the bottom of said groove and extending under the rope, and when swung on its pivot, serving to grip the rope between itself and one of said peripheral flanges.

1,663,690. ELEVATED SUSPENDED RAILWAY. OSCAR A. ELLIS, San Francisco, Calif. Filed May 17, 1922, Serial No. 561,780. Renewed June 22, 1926. 7 Claims. Cl. 104—95.)



1. The combination with a vehicle having a traction wheel having a tread portion adapted to run upon a rail and with which the rail has a tangential engagement, of grip members carried by the wheel and independent of said tread portion and constructed to engage the rail only during the moment of such tangential engagement.

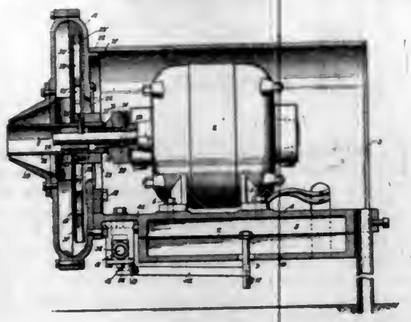
1,663,691. VEHICLE SIGNAL. RUSSELL M. EVERETT, Bloomfield, N. J. Filed July 12, 1922. Serial No. 574,441. 7 Claims. (Cl. 177—337.)



1. The combination with a vehicle signal, of signal controls normally set one to give a signal and another to prevent a signal, means common to both said con-

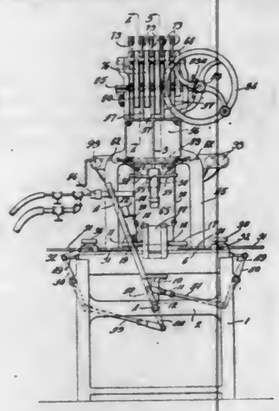
trols connecting them to the signal, means for causing a vehicle control to operate the signal control normally preventing a signal to give a signal, and means for causing speed of the vehicle to operate the other said signal control to prevent a signal above a predetermined speed.

1,663,692. OIL BURNER. RICHARD R. EZDORF, Baltimore, Md., assignor to Fuelo Corporation, Washington, D. C., a Corporation of Delaware. Filed Aug. 19, 1926. Serial No. 130,310. 4 Claims. (Cl. 158—77.)



1. In an oil burner, in combination, a fan housing, having a rotatable fan therein, an oil discharging cup within the fan housing, said cup and fan being operatively connected with the shaft of an electric motor, a stationary oil receiving device mounted on the motor shaft, a port connected with the oil receiving device, a non-rotatable tubular element fitting over the shaft of the electric motor and having a portion snugly fitting between the motor shaft and the stationary oil receiving device and secured to said stationary oil receiving device, said tubular element having a circumferential recess in communication with the said ports, a plurality of longitudinal ports communicating with the circumferential port for discharging oil into said cup.

1,663,693. PISTON-CASTING MACHINE. FRANK L. FELTES, Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 30, 1925. Serial No. 72,276. 17 Claims. (Cl. 22—93.)



1. In a piston casting machine, a frame, a mold having core openings therein, and a plurality of core parts operatively associated with said mold for movement in succession in said core opening.

1,663,694. HANDLE GRIP. EDWARD FETTER, Baltimore, Md. Filed July 22, 1925. Serial No. 45,150. 3 Claims. (Cl. 273—81.)



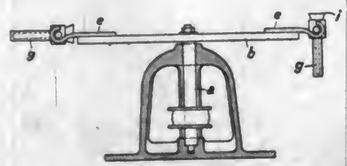
3. A handle having a grip of rubber with a roughened surface and a fabric covering vulcanized to the surface and assuming the roughened contour thereof.

1,663,695. DENTAL TRAY AND INSERT THEREFOR. FREDERIC W. FOSTER, Jr., Denver, Colo. Filed July 25, 1922. Serial No. 577,295. 2 Claims. (Cl. 32—6.)



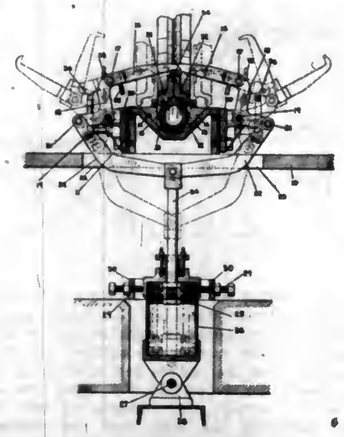
1. An insert for dental trays comprising a liner shaped to fit a tray and having a lip adapted to spring over the edge of a tray to insure retention on the tray.

1,663,696. TUBE FILLER. ALBERT FRAASS, Hagen, Germany, assignor to The Electric Storage Battery Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 16, 1927, Serial No. 168,712, and in Germany May 27, 1926. 1 Claim. (Cl. 226—19.)



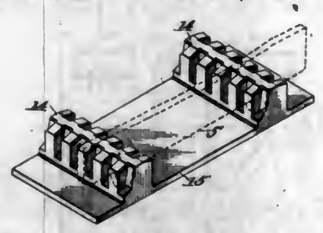
Machine for introducing and compressing filling material in the electrode tubes of electrical accumulators by means of centrifugal force consisting of interchangeable and easily detached pivotally suspended containers adapted to receive tubes to be charged with filling material, a funnel-like element on each container adapted to receive the material to be forced into the tubes, and means for moving these containers in a circle and at an appropriate speed.

1,663,697. BEAD-RING REMOVER FOR USE IN TIRE FACTORIES. FRED GOODALL, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 24, 1925. Serial No. 25,473. 11 Claims. (Cl. 18—2.)



8. Apparatus for separating molding elements from the sides of vulcanized tires, said apparatus comprising means for supporting and embracing a tire to hold it against axial displacement and spreading, and means for engaging a ring on said tire and separating it axially from the tire.

1,663,698. SPACING AND SUPPORTING BRIDGE FOR STORAGE-BATTERY PLATES. WALTER E. GOESLING, Indianapolis, Ind., assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation, a Corporation of Indiana. Filed Sept. 5, 1923. Serial No. 661,105. 10 Claims. (Cl. 136—79.)



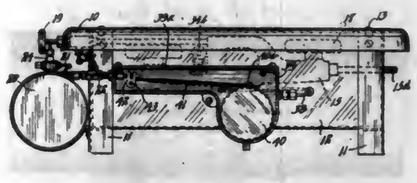
1. A plate spacing and supporting bridge for storage batteries, provided with a plate-supporting surface and a plurality of recesses at each side of said surface adapted to hold the plates in spaced relation at their bottoms.

1,663,699. SPLINT CATCHER. ARTHUR HANSEN and LEIF GAARDER, Skotselven, Norway. Filed Feb. 16, 1925, Serial No. 9,720, and in Norway Feb. 22, 1924. 1 Claim. (Cl. 92—29.)



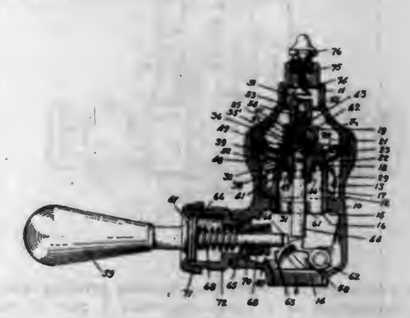
A splint catcher for purifying wood pulp and the like, comprising, an endless conveyor belt formed by a plurality of equidistant parallel rods, links interconnecting the rods at both ends, and sleeves on the rods and between the interconnecting links.

1,663,700. STOVE WITH FLOAT-OPERATED SHUT-OFF VALVE. HANS C. HANSON, Albert Lea, Minn. Filed Apr. 4, 1927. Serial No. 180,780. 8 Claims. (Cl. 158—53.)



1. A stove adapted to use liquid vaporizing fuel having in combination, a fuel tank, a burner, a mixing chamber for supplying a combustible mixture to said burner, a member supplying fuel to said mixing chamber and burner, a manually operated valve regulating the supply of fuel to said member, an auxiliary starting burner of the retort type, means for supplying fuel thereto, a manually operated valve controlling the supply of fuel to said auxiliary burner, and automatic means operated by liquid fuel for shutting off the supply of fuel from said fuel tank if either of said manually operated valves are left open with its respective burner not ignited.

1,663,701. FLUSH VALVE. EDWARD G. HEDGES, Newark, N. J. Filed Dec. 10, 1924. Serial No. 754,010. 5 Claims. (Cl. 137—93.)

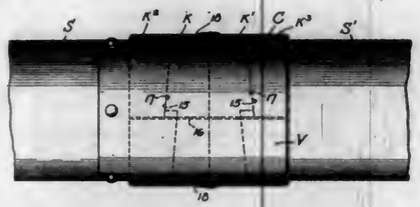


4. A flush valve comprising a hollow body, a diaphragm for separating said hollow body into a supply chamber, a compression chamber and a discharge chamber, a seat for said valve, a relief valve box secured to said diaphragm, said box being so designed to serve as an air snifter, bleeder conduit and to remove a limited quantity of water from said compression chamber, a relief valve within said relief valve box, and means for operating said valve and for lifting said diaphragm from said seat.

1,663,702. PIPE COUPLING. WILLIAM D. HIMES, Los Angeles, Calif., assignor to Los Angeles Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 10, 1924. Serial No. 698,170. 2 Claims. (Cl. 285—198.)

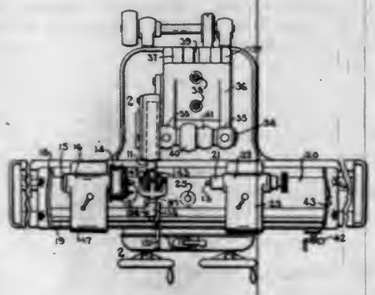
1. A method of constructing pipe couplings which comprises the shaping of the edges of the confronting ends of two pipe sections to form complemental cam edges, bending the confronting pipe ends rearwardly in reverse directions upon the respective pipe sections to dispose the cam edges exteriorly of and contiguous to the pipe sections, shaping the outer edges of a split collar to form

complemental cam edges, bending the cam edges inwardly of the collar so as to lie within and contiguous to the collar, and permanently securing the ends of the collar together subsequent to its application to the pipe ends



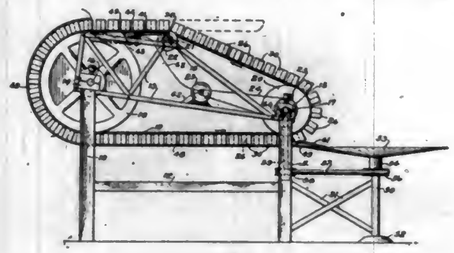
so that the cam edges of the pipe sections are received between the cam edges of the collar in a manner to coact with the latter when the collar is rotated on the pipe sections for the purpose described.

1,663,703. MECHANISM FOR TRUING AND DRESSING GRINDING WHEELS. FERDINAND J. HOHNHORST and FERDINAND J. KROEGER, Covington, Ky. Filed Feb. 16, 1925. Serial No. 9,412. 1 Claim. (Cl. 125—37.)



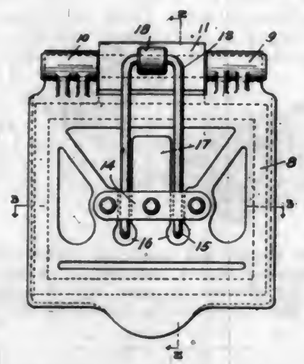
In mechanism for truing and dressing grinding wheels, the combination of a head comprising a pair of outer fork-arms and an intermediate fork-arm complemental to said respective outer fork-arms and forming a pair of yokes having an integral intermediate fork-arm which is common to both said yokes, an axle for each of said yokes, each of said outer fork-arms comprising a supporting portion at its outer end, a releasable cap for each of said supporting portions, said intermediate fork-arm comprising an intermediate duplex supporting portion at its outer end, a releasable intermediate duplex cap for said intermediate duplex supporting portion, said axles located in non-parallel endwise relation, the outer ends of said axles located in said first-named supporting portions and clamped in place by said first-named releasable caps, and the inner ends of both said axles located in said intermediate duplex supporting portion and clamped in place by said duplex cap, each of said axles provided with shoulders at its respective ends coacting respectively with said outer supporting portions and said intermediate duplex supporting portion for endwise positioning of said axles, and the proximate ends of said axles provided with parallel abutting end faces having opposite inclinations from the same sides of said respective axles and of the same degree to the longitudinal axes of said respective axles and coacting with each other for resisting rotations of both said axles, and abrading wheels rotatable about said respective axles.

1,663,704. EGG CANDLER. WILLIAM L. HOLZMANN, North Freedom, Wis. Filed Oct. 12, 1925. Serial No. 62,046. 7 Claims. (Cl. 99—6.)



1. An egg candling machine comprising a frame structure, an endless belt carried by the frame, means for driving the belt forwardly, an agitator belt mounted in the frame, means for turning the agitator belt in a reverse direction from the endless belt whereby to agitate the eggs, means for supporting the upper run of the agitator belt, a movable tray operable by said driving means for receiving the eggs from the endless belt whereby to retard the forward movement of the eggs, and lights in the frame, said endless belt having a plurality of open ended compartments thereon adapted to movably hold the eggs, said compartments being adapted to pass over the lights subsequent to agitation by the agitator belt.

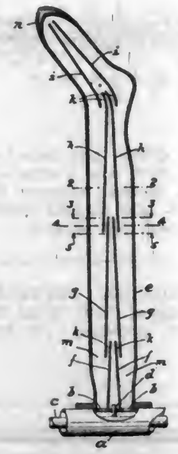
1,663,705. JOURNAL-BOX LID. LEIGH W. HOSTETTLER, Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a Corporation of Pennsylvania. Filed June 9, 1924. Serial No. 718,739. 3 Claims. (Cl. 308—47.)



1. The combination with a journal box of a lid hinged thereto, and provided with depressions in the surface thereof, a spring having depression engaging projections mounted on said lid and provided with a roller bearing member for cooperating with said box so as to maintain said lid in either open or closed position and a strap member engaging said spring for securing the same to said lid.

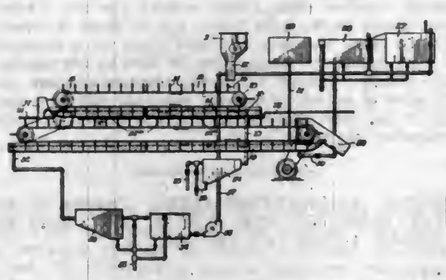
1,663,706. HOSIERY-DRYING FORM. HAROLD E. HOUSEMAN, Edge Moor, Del. Filed Nov. 6, 1926. Serial No. 146,682. 13 Claims. (Cl. 223—17.)

1. A hollow drying form comprising a shell adapted to the shape of the article intended to be dried, and channels arranged in a series extending from the base of the form toward and terminating short of its closed end and through which heating fluid is adapted to successively pass, the approximating ends of two adjacent



channels overlapping and being spaced apart to allow the heating fluid to escape into the interior of the form outside the channels and at points relatively distant from opposite ends of the form.

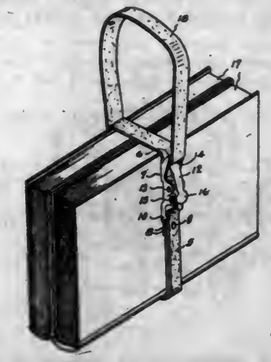
1,663,707. PROCESSING OF MEATS. ISAAC N. JORDAN, Chicago, Ill., assignor to Armour & Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1925. Serial No. 56,914. 6 Claims. (Cl. 99—11.)



5. The method of preparing corned beef which consists in cooking pieces of fresh meat for a period of between fifteen and thirty minutes while in motion in a counter current of hot water and thereafter subjecting the cooked meat for a like period of time while in motion to a counter current of hot pickle comprising a brine solution of sodium nitrite.

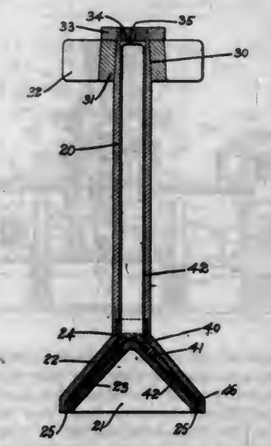
1,663,708. BOOK STRAP. HENRY C. KEELER, Ritzel, Wash., assignor to Alva C. Clark, Seattle, Wash. Filed Jan. 22, 1927. Serial No. 162,783. 3 Claims. (Cl. 224—55.)

1. A book strap, embodying a buckle, a strap member having its two ends fixedly connected with one end of said buckle and having its medial portion slidable through the other end of said buckle, said strap forming a loop of double thickness, a keeper slidable on said strap,



and a releasable spring pressed tongue in said buckle normally holding said strap against sliding movement in one direction through said buckle.

1,663,709. COOLING DEVICE FOR VALVES AND THE LIKE. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 10, 1918, Serial No. 211,156. Renewed Aug. 16, 1927. 15 Claims. (Cl. 123—177.)

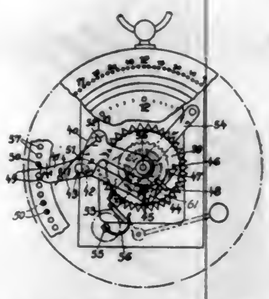


1. In a device of the kind described including a hollow portion, a body of working mercury within said hollow portion, and a heat transferring body upon the interior walls of said hollow portion.

1,663,710. ALARM CLOCK. KARL KOPATSCHEK, Berlin-Wilmersdorf, Germany. Filed Jan. 21, 1926, Serial No. 82,836, and in Germany Feb. 2, 1925. 3 Claims. (Cl. 161—6.)

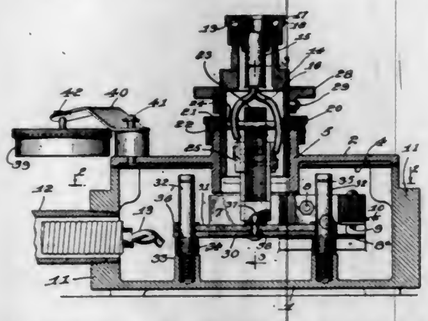
1. An alarm clock comprising an alarm mechanism and a spindle carrying an hour hand, a T-shaped arm secured to said spindle, a double bent lever pivotally and shiftably connected to the head of said T-shaped arm by a pin and slot connection, a toothed wheel rotatably mounted on said spindle, means provided at the surface of said wheel engaging with the free end of the double bent

lever and a triangular hole in the bend of said lever, a spring connected to the T-shaped head of said arm and acting upon the adjacent end of the double bent lever, a pin adapted to be positioned in the path of said double bent lever to cause the same to impart a movement of rotation to said toothed wheel and thereby releasing the



alarm, and a resilient driver actuated by the alarm mechanism and cooperating with the teeth of said wheel for stopping the alarm after a predetermined period of operation and for moving the double bent lever out of engagement with the pin a few seconds after the signal begins to ring and for at once bringing said double bent lever again in a position ready for giving another signal.

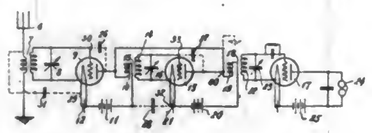
1,663,711. ELECTRICAL APPARATUS. JEROME M. LALEB, Burlingame, Calif., assignor to Chas. Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 23, 1925. Serial No. 17,680. 2 Claims. (Cl. 173—330.)



1. Apparatus of the class described, including a terminal box and a connecting plug, the plug having a cross head for connecting with the terminals, and the box an opening shaped to fit the cross head and with its axis at an angle to the position assumbed by the plug when making connection, the box having a threaded nipple encircling the opening through which nipple the cross head must pass to enter the opening, and a collar on the plug for threadedly engaging the nipple to make a fluid tight connection, said collar abutting the end of the nipple before the cross head clears the opening and retaining the cross head in the opening until threaded down upon the nipple.

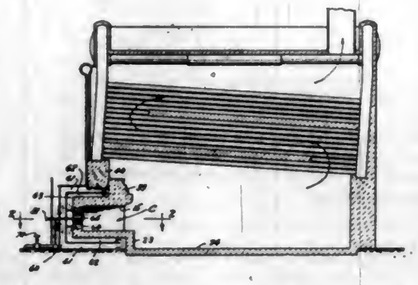
1,663,712. WAVE SIGNALING SYSTEM. MARIUS LATOUR, San Sebastian, Spain, assignor to Latour Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Apr. 8, 1926. Serial No. 100,549. 7 Claims. (Cl. 179—171.)

1. An electric circuit arrangement for neutralizing capacity coupling between the input circuit and the output circuit of an electron tube due to capacity between the grid and plate electrodes, comprising a coil connected between one of these electrodes and the filament system, and a second coil and a neutralizing capacity effectively connected in series between the other of these electrodes



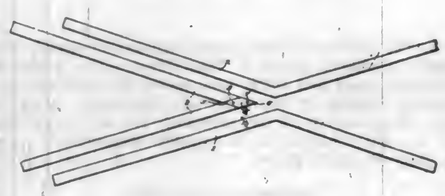
and the filament system, said second coil being closely coupled with the first, said neutralizing capacity comprising solely an inherent capacity effectively existing between means in said filament system and auxiliary means associated with said circuits.

1,663,713. FLUID-FUEL FURNACE. HERBERT V. LEAHY, Los Angeles, Calif. Filed Nov. 6, 1923. Serial No. 673,222. 3 Claims. (Cl. 158—4.)



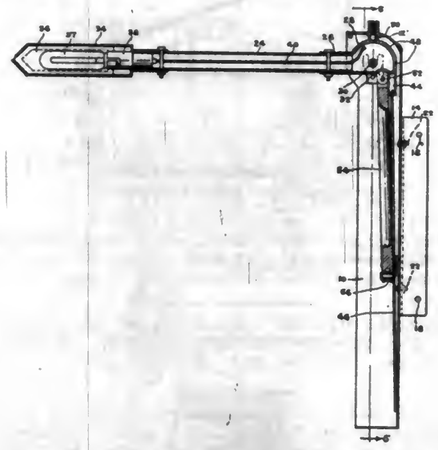
1. A furnace comprising a combustion chamber, a main frame exteriorly of the combustion chamber, a subsidiary frame on the main frame between the latter and the combustion chamber, baffle plates between the two frames, cover plates on the main frame, one of which is formed with air ports, the cover and baffle plates being arranged to form double air chambers at all sides of the combustion chamber through which air admitted through the air ports is caused to describe recurrent paths at each side of the combustion chamber and to finally enter the combustion chamber.

1,663,714. RAILWAY-FROG POINT. CHESTER M. LEFEW, Huddy, Ky. Filed Sept. 12, 1927. Serial No. 219,040. 1 Claim. (Cl. 246—460.)



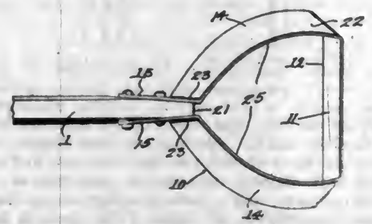
In a wear compensating insert for railway track frog points, wherein the said point is formed with a V-shaped socket therein, a diamond-shaped insert adapted for reversible association with respect to the socketed end of the frog point.

1,663,715. SIGNAL FOR AUTOMOBILES. SEBASTIAN MACK, Minneapolis, Minn., assignor to Maggie Mack, Minneapolis, Minn. Filed Sept. 18, 1926. Serial No. 136,385. 1 Claim. (Cl. 116—52.)



A signal for automobiles comprising a right angle strip one of whose angle members is adapted to be secured to the front face of a corner post of the automobile and the other of whose angle members contains horizontal slots, a support adjustably attached to said angle strip by means of said slots, a signal arm pivoted to said support and adapted to lie adjacent and parallel to the latter, and connections extending from said arm to the inside of the automobile whereby said arm may be swung into outward position.

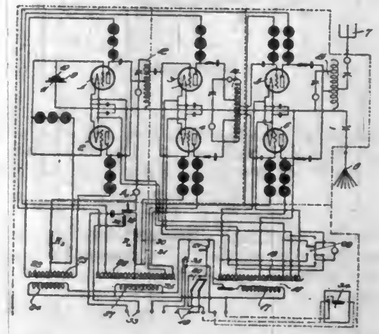
1,663,716. GARDEN HOE. WILLIAM PERRY MCMILLAN, Punta Gorda, Fla. Filed Aug. 27, 1925. Serial No. 52,918. 1 Claim. (Cl. 97—68.)



A hoe comprising a handle, the inner end of which is oblique, and a soil-engaging member including a flat cross bar having a working edge which is straight from end to end, the soil-engaging member including side pieces joined to the ends of the cross bar and provided with arms attached to opposite sides of the handle, the side pieces being bent obliquely at said oblique end of the handle, where the side pieces are connected to the arms, and being thence bowed laterally and outwardly, so that the axis of the handle intersects the aforesaid working edge of the cross bar.

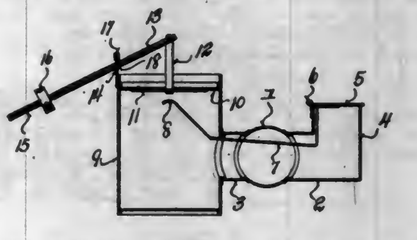
1,663,717. SIGNAL-TRANSMISSION SYSTEM. RAYMOND B. MEYER and LEO C. YOUNG, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 15, 1926. Serial No. 155,072. 4 Claims. (Cl. 250—19.)

1. A high frequency signal transmitter comprising a plurality of electron tubes each having grid, filament and plate electrodes, said tubes being connected for the generation of oscillations, the multiplication of the frequency of said oscillations and the increase in amplitude of the oscillations at multiplied frequency, a power source of alternating current, a transformer having primary and secondary windings with the primary winding thereof connected to said source and the secondary winding thereof arranged to impress high potential upon the plate circuits of said frequency multiplying tubes, a connection between a mid-point on said secondary winding to



the filament electrodes of said frequency multiplying tubes, a high resistance interposed in said connection, a contact device located in series with said high resistance, a connection between the mid-point of said secondary winding and the grid electrodes of said frequency multiplying tubes for establishing a negative potential on the grid electrodes of said frequency multiplying tubes, said negative potential increasing upon the opening of said contact device.

1,663,718. AUTOMATIC DAMPER. CARL MIEHLKE, Hartford, Wis. Filed Feb. 14, 1927. Serial No. 168,004. 8 Claims. (Cl. 236—45.)

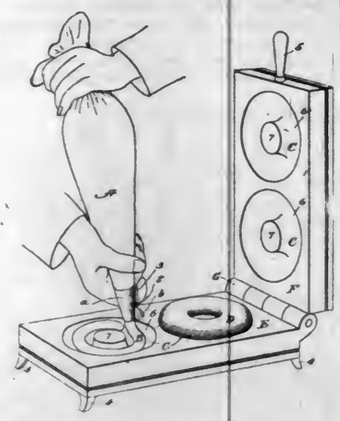


3. The combination of a smoke pipe having a vertical chamber communicating therewith and opening through its upper end, a downwardly opening valve closing the upper open end of said vertical chamber, mechanism urging said valve towards closed position, and a second valve opening into said smoke pipe and normally remaining closed, said second valve having mechanism arranged in the path of movement of said downwardly opening valve and actuated by the downward motion of said first mentioned valve to open said second valve.

1,663,719. PROCESS OF MAKING DOUGHNUTS AND OTHER FOOD PRODUCTS. JOSEPH MORLEY, Los Angeles, Calif., assignor of five-sixteenths to Rudolph A. Dallugge, Los Angeles, Calif. Filed Dec. 26, 1922. Serial No. 608,960. 1 Claim. (Cl. 107—54.)

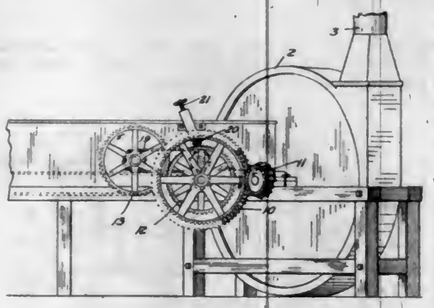
The herein described process of making doughnuts which consists in first providing a doughnut stock, adding a quantity of fatty matter to the stock, working the mass to thoroughly distribute the fatty matter throughout same, shaping the mass, enclosing the shaped mass within baking irons, heating the irons, to cause the

fatty matter contained in the doughnut stock to be expressed therefrom and to assume the form of a hot frying film of fat between the mass and said irons, said heating



also being effective to cause the doughnut stock to be baked with a thin crust at its surface, and then removing the baked product from the irons.

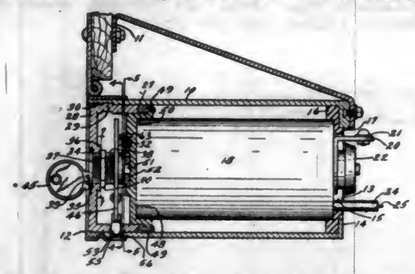
1,663,720. ENSILAGE CUTTER. JAMES H. MOTT, Willmar, Minn. Filed Oct. 16, 1919. Serial No. 330,945. 4 Claims. (Cl. 146—109.)



1. A device of the class described comprising a blower casing, a cutter arranged within an opening of the casing, a feed table leading to said opening and cutter, a pair of feed rolls, upper and lower, for delivering upon said table, a pair of pivoted links, rotatably journaling the upper feed roll, a compression plate yieldably supported above the table and attached by resilient flexible members with said links, and adapted to form with the table a feed-throat, and means for delivering stock between the rolls at that side opposite the table.

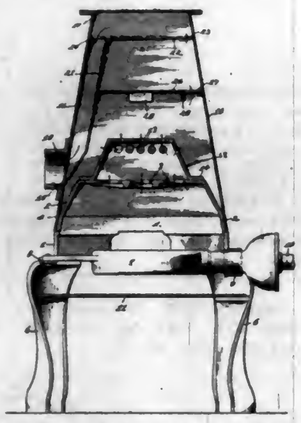
1,663,721. CONTROL MEANS. HOWARD J. MURRAY, New York, N. Y., assignor to H. A. Douglas, Bronson, Mich. Filed Mar. 7, 1927. Serial No. 173,361. 50 Claims. (Cl. 175—361.)

1. In a power plant for an automotive vehicle, a unit comprising: an element essential for the operation of said power plant; control means settable into condition at least restricting the functioning of said element; lock means for preventing unauthorized actuation of said control means from said condition; and means for preventing unauthorized access to said control means without disassembly of said unit, and for preventing unauthorized disassembly of said unit without destruction



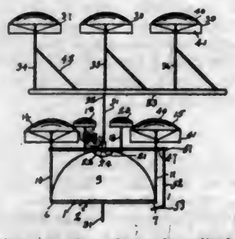
of at least an essential part of said element, comprising a theft-resisting casing enclosing said control means and at least the adjacent portion of said element.

1,663,722. HEATER. EDWARD NAUER, San Francisco, Calif. Filed Dec. 12, 1927. Serial No. 239,469. 8 Claims. (Cl. 126—85.)



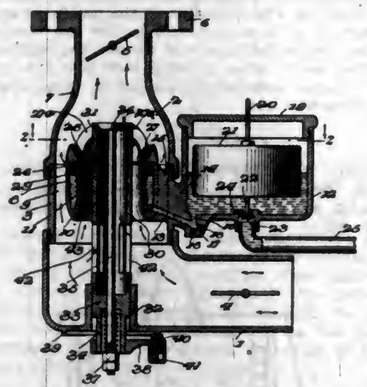
1. A heater comprising a base arranged to be supported over a fuel burner, said base having openings in the top thereof; a heat diffusing member mounted upon the top of the base and covering the openings therein, said member having openings in the upper portion thereof; an outer shell fitted over the base and enclosing the heat diffusing member; a vent formed in the back of the shell; and a baffle mounted within the shell in spaced relation to the back of the shell to form a vent passage from the top of the shell to the vent.

1,663,723. AERIAL DEVICE. JOSEPH OSTAND, Cincinnati, Ohio. Filed Apr. 18, 1927. Serial No. 184,579. 10 Claims. (Cl. 244—21.)



1. In a device of the class described, a frame, a parachute having its lower edge attached to said frame, a plurality of kites attached to said frame, and a plurality of kites attached to said parachute.

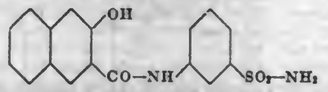
1,663,724. CARBURETOR. CHARLES EDWARD PALMER, Marshfield, Oreg., assignor to John Ozek, Marshfield, Oreg. Filed Feb. 16, 1924, Serial No. 693,320. Renewed Feb. 15, 1928. 4 Claims. (Cl. 261—57.)



1. In a carburetor, a body member, an annular channel member forming a fuel chamber within the body member and spaced from said body member to form an air passage, the central portion of the channel member being hollow providing a central air passage, the upper end of the channel member being open to provide a valve seat, an annular valve mounted on the seat and controlling the flow of fuel from the chamber, a primary air conduit connected to the body member below the channel member, means on the valve for causing the fuel to be forced in opposite directions into the central air passage and into the passage between the channel member and the body of the carburetor, an auxiliary air conduit projecting through the channel member and spaced from the inner walls of said member, the upper end of the auxiliary conduit being open and provided with a valve seat, a spring pressed valve mounted on said last mentioned seat, the lower portion of the auxiliary conduit below the channel member being provided with a slot to admit air from the primary air conduit to the auxiliary air conduit, and a source of fuel in communication with the channel member.

1,663,725. MANUFACTURE OF SULPHONAMIDES OF 2.3-HYDROXYNAPHTHOIC ARLIDES. JOSEPH BARON PATMAN and HARRY WIGNALL, Blackley, Manchester, England, assignors to British Dyestuffs Corporation Limited, Blackley, Manchester, England. Filed Sept. 15, 1927, Serial No. 219,807, and in Great Britain Sept. 20, 1926. 10 Claims. (Cl. 260—158.)

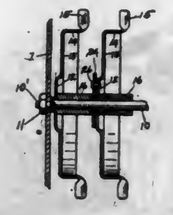
10. As a new product 2:3-hydroxynaphthoic *m*-amidosulphonanilide, having the formula—



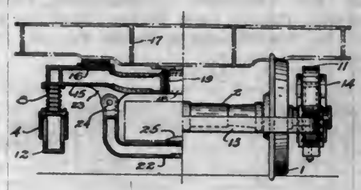
which is a pale yellow crystalline powder, melting at 278° C., insoluble in water, soluble in solutions of sodium hydroxide or carbonate, soluble also in nitrobenzen, from which it may be crystallized, and hydrolysed when boiled with caustic alkali giving ammonia and 2:3-hydroxynaphthoic *m*-sulphonanilide.

1,663,726. ADDING MACHINE. JOHN PFEIFER, Springfield, Ohio. Filed Dec. 8, 1924. Serial No. 745,455. 2 Claims. (Cl. 235—80.)

2. In an adding machine, an adding wheel constructed from a piece of sheet metal shaped to form a web having an integral laterally projecting flange to form a rim, said flange being cut and bent to provide integral fingers which extend outwardly in a radial direction from said rim, each of said fingers being also bent in an angular direction so as to present a flat face to the finger of the operator in turning the wheel.

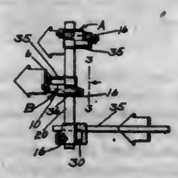


1,663,727. BOOSTER-MOTOR TRUCK. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Mar. 23, 1926. Serial No. 96,731. 20 Claims. (Cl. 105—138.)



1. A railway truck frame having a bolster member and a booster motor support carried by said bolster, said support comprising a single spherical-shape bearing beneath the space occupied by the motor adapted to accommodate universal tilting of a motor mounted thereon.

1,663,728. CLAMP. SPENCER H. PHELPS, Evansville, Ind., assignor to Blount Plow Works, Evansville, Ind., a Corporation of Indiana. Filed Apr. 25, 1927. Serial No. 186,386. 6 Claims. (Cl. 97—198.1.)

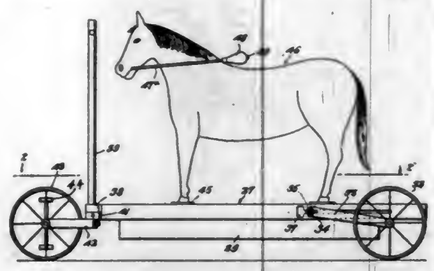


1. A block having openings at an angle to one another, and wedge elements slidable in the block, one for each opening and adapted to bindingly engage an element traversing a corresponding opening, said wedge elements extending in the same direction.

1,663,729. TOY. VIDO P. RAGENOVIC, Portland, Oreg. Filed Apr. 29, 1926. Serial No. 105,478. 2 Claims. (Cl. 208—42.)

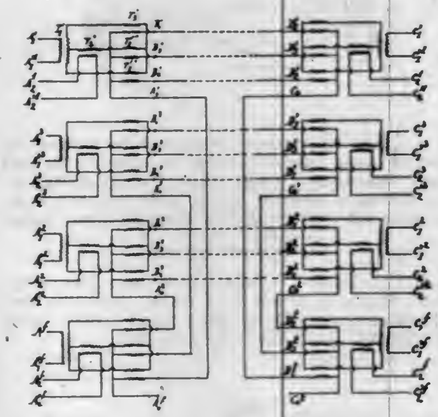
1. In a structure of the class described, a platform, rear wheels at the rear end of the platform, supporting arms associated with said wheels, said supporting arms having slidable connection with the platform, retaining means carried by the slidable ends of said arms,

and cooperable with said platform, whereby to permit the arms to be lowered or raised to dispose this end of the platform in an elevated or a lowered position, a front



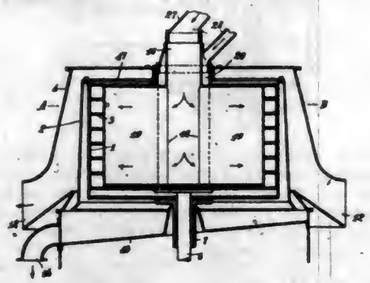
steering wheel, a standard connected thereto, said platform being adjustably connected with the standard at its forward end.

1,663,730. ELECTRIC CONNECTION. CAMILLE LOUIS MARIE RAVUT, Paris, France, assignor to Société Industrielle des Téléphones (Constructions Électriques, Caoutchouc, Câbles), Paris, France. Filed July 8, 1924, Serial No. 724,870, and in France Feb. 28, 1924. 2 Claims. (Cl. 179—15.)



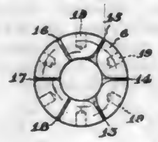
1. A system of long distance telephonic or other electric communication comprising three insulated wires having an identical construction and insulation, juxtaposed and twisted in helical form around a common geometric axis, in such manner that the centers of the three conductors upon a plane perpendicular to the twisting axis occupy the three vertices of an equilateral triangle, thus forming what is called a three-wire set, another three-wire set analogous to the first one, a third three-wire set analogous to the others, the common winding of the three three-wire sets being juxtaposed and twisted in helical form around a common geometric axis in such manner that the traces of the axes of the three-wire sets upon a plane perpendicular to the common twisting axis occupy the three vertices of an equilateral triangle, three transformers at each end of each three-wire set, two independent sources of current, a transformer connected to the two poles of the first independent source of current, the primaries of the three first transformers being connected respectively with the wires of the three-wire set and disposed on the star system about a central point connected to a special wire, the secondaries of the three first transformers being disposed on the star system about an insulated point, said secondaries being connected respectively with the ends and the middle point of the secondary of the fourth transformer and the series intercalation of the secondary of the second independent source upon the connecting wire extending at the middle point of the transformer which is connected to the two terminals of the first independent source of current, the application to the three special wires provided each in a three-wire set of a terminal arrangement similar to those applied to each three-wire set.

1,663,731. CENTRIFUGAL MACHINE. VICTOR REICH, Vienna, Austria. Filed May 4, 1926, Serial No 106,735, and in Austria May 19, 1925. 9 Claims. (Cl 127—19.)



1. A centrifugal machine including a cell drum, a feeding device for the material to be centrifuged, a perforated drum surrounding said cell drum and covering the cells at the circumference, a non-perforated wall surrounding the perforated drum and connected to it so as to leave an annular space therebetween, the perforated drum and the wall having openings for delivering the solid material, means for rotating the two drums at a different velocity, the liquid passing through the meshes of the perforated drum against the non-perforated wall which catches it and guides it outward and the solid material passing through said openings.

1,663,732. DIE HEAD. ISIDORE J. REMARK, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 30, 1927. Serial No. 187,734. 6 Claims. (Cl. 18—13.)



1. A die for covering strip material embodying an annular die block having entrance and exit apertures formed therein.

1,663,733. METHOD OF MAKING LACQUERS. KURT SCHMIDINGER, Neukolln, Germany. Filed July 1, 1925, Serial No. 40,960, and in Germany May 13, 1925. 1 Claim. (Cl. 134—26.)

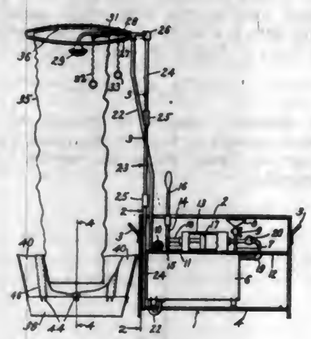
Method of making lacquer consisting in dissolving resin in benzol, saponifying the dissolved resin by the use of heated alcoholic potash, separating the obtained soap solution from the unsaponifiable constituents dissolved in the first solvent, and obtaining said unsaponified constituents by evaporating the solvent.

1,663,734. APPARATUS FOR TREATING GASES. EUGEN STRÖDER, Leverkusen, near Cologne, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Feb. 29, 1924, Serial No. 696,040, and in Germany Apr. 6, 1923. 8 Claims. (Cl. 261—92.)



1. Apparatus of the class described, comprising a housing, a liquid container within the housing, a spraying device consisting of two shafts carrying disks spaced in parallel relation and partly immersed in the liquid of the container, means for passing gas through the housing above the disks parallel to the shafts and means constructed and arranged to prevent the return of liquid acted upon by the gas to the container.

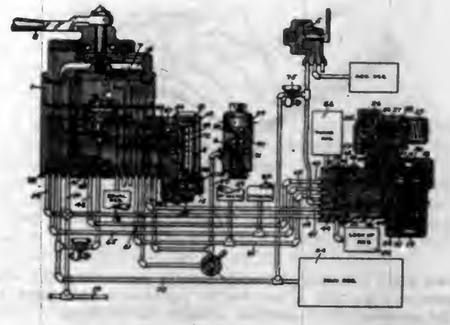
1,663,735. PORTABLE BATH APPARATUS. LUCIEN J. B. TALBOT and VITAL A. LECUIVRE, Woonsocket, R. I. Filed July 21, 1926. Serial No. 123,887. 1 Claim. (Cl. 4—151.)



In a portable and demountable bath structure, a frame provided with separate compartments and having a space therein for storing the demountable elements, a tank carried by the frame and secured in one of the said compartments, a pump carried by the frame and located in another of said compartments and permanently connected with said tank for placing the tank under pressure, a demountable spray, a flexible pipe connecting said tank and spray, a demountable support carried by said frame and supporting the spray when in operative position, said spray and support being demountable to permit their being stored within the frame when not in use.

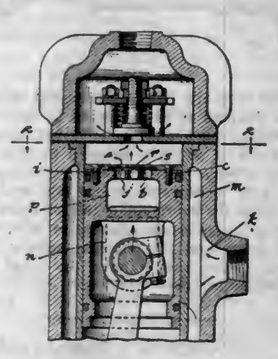
1,663,736. FLUID-PRESSURE-BRAKE DEVICE. THOMAS H. THOMAS, Edgewood, and EARLE S. COOK, Wilmerding, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 14, 1926. Serial No. 109,044. 14 Claims. (Cl. 303—18.)

6. In a fluid pressure brake, the combination with a brake pipe, of means for effecting a reduction in brake pipe pressure, a timing reservoir, a source of fluid under pressure, a valve device operated by fluid vented from the brake pipe for supplying fluid from said source to said reservoir, a valve device subject to the pressure of fluid in said reservoir and operated upon a predetermined reduction in pressure in said reservoir for effecting



a second reduction in brake pipe pressure, the first mentioned brake device being operated upon cessation of the first venting of fluid from the brake pipe for venting fluid from said reservoir.

1,663,737. COMPRESSOR VALVE. HARRY E. THOMPSON, Detroit, Mich., assignor to Universal Cooler Corporation, Detroit, Mich., a Corporation of Michigan. Filed Apr. 26, 1926. Serial No. 104,601. 12 Claims. (Cl. 230—221.)

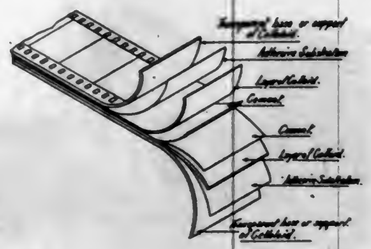


1. A compressor valve having in combination a pair of members fitted together and shaped so as to provide a chamber, one of said members having a port in communication with the chamber, a free floating valve operating in this chamber which in one position covers the port, and in another position is removed from the port to permit the flow of fluid therethrough, the other of said members being of solid construction and provided with a cut-away portion which is positioned to one side of the free floating valve to thus provide an outlet for the fluid.

1,663,738. CONSTRUCTION AND MANUFACTURE OF CINEMATOGRAPH POSITIVE FILMS. JOHN EDWARD THORNTON, West Hampstead, London, England. Filed Dec. 15, 1924, Serial No. 756,168, and in Great Britain Jan. 9, 1924. 9 Claims. (Cl. 88—19.5.)

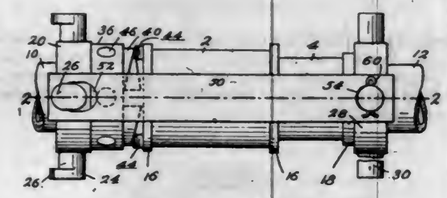
1. A method or process of producing a cinematograph positive film which consists in printing upon and finishing two thin films, each of approximately half standard

thickness, preparing the printed-colloid faces of both films to receive a cement, applying to the prepared printed-colloid-faces a fusible cement, temporarily joining the



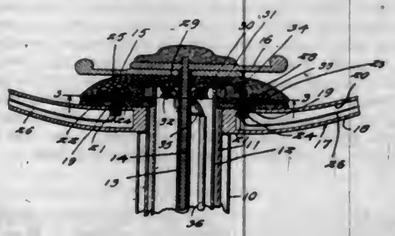
two films together and subsequently converting the temporary joint into a non-fusible permanent face joint by the application of heat and pressure to the films.

1,663,739. PIPE COUPLING. CHARLES R. TILLOTSON, Clay Center, Kans. Filed Mar. 29, 1926. Serial No. 98,061. 2 Claims. (Cl. 285—181.)



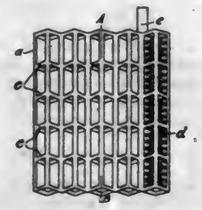
1. In a pipe coupling, two interengaging telescopic tubular members adapted to be connected at their outer ends to pipe sections, yokes slidably mounted upon said pipe sections and one of which is adapted to abut one end of the adjacent tubular member, lugs projecting from said yokes, arms with openings to receive said lugs, lips on the lugs of one yoke for overlapping the adjacent portions of said arms, and wedge means adapted to be driven between one of said yokes and the adjacent tubular member for forcing them apaprt and drawing the other yoke firmly against the adjacent tubular member.

1,663,740. AUTOMOBILE SIGNAL-CONTROLLING MECHANISM. HOWARD C. VARNER and JACOB M. KOCH, St. Joseph, Mo. Filed Oct. 23, 1926. Serial No. 143,758. 2 Claims. (Cl. 173—324.)



1. In signal operating mechanism for automobiles and the like, in combination with steering mechanism including a housing and outer rotatable and inner stationary tubes mounted within the housing, a steering wheel secured to the outer rotatable tube, a disk superimposed upon the steering wheel and having engagements therewith preventing relative rotation thereof, said disk having an opening for the passage of the inner stationary tube, a second disk secured to the stationary tube and having its face confronting the first named disk, brushes carried by the first named disk, contact rings upon the second named disk which said brushes coact and binding posts upon the lower face of the second named disk and extending within the stationary tube, the binding posts being electrically connected with the contact rings of the second disk.

1,663,741. SECONDARY BATTERY. JOHN VAUGHAN-SHERRIN, Ruckinge, England. Filed Aug. 4, 1926, Serial No. 127,024, and in Great Britain Aug. 13, 1925. 5 Claims. (Cl. 136—36.)



1. A plate for secondary batteries or accumulators comprising a grid or frame composed of a number of compartments each charged with active material having incorporated with it a resilient expansible conductor, each conductor being a length of wire wound in a sinuous manner.

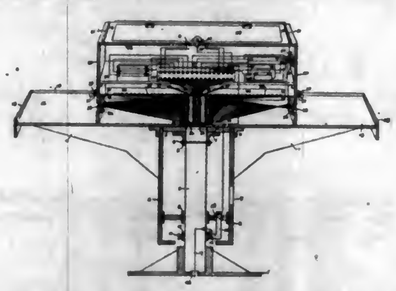
1,663,742. PENCIL. EDWIN W. WILSON, Chicago, Ill., assignor of one-half to Frank T. Boydston, Chicago, Ill. Filed Apr. 21, 1926. Serial No. 103,466. 6 Claims. (Cl. 120—17.)



3. In a pencil of the class described including a body providing a holder, a retaining pawl member supported concentrically thereof, and provided with a retaining pawl, a feed pawl member slidably mounted in said retaining pawl member and provided with a slot through which the retaining pawl extends, a tubular member having ratchet teeth on opposite sides provided with a longitudinal slot intermediate its length, a spring tension

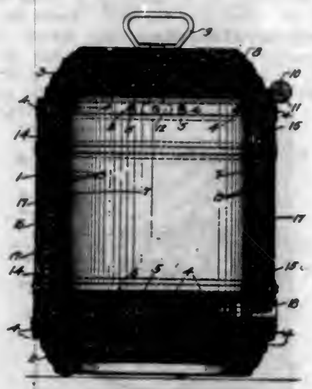
provided at one end of said feed pawl member, a lead carrier mounted co-axially of said tubular member, an enlarged portion on said lead carrier abutting the free end of said slidably mounted feed pawl member.

1,663,743. RADIO OR RADIOPHONE RECEIVING SET DEMONSTRATOR. ARCHIE R. WOLFE, Summit, N. J. Filed Feb. 28, 1926. Serial No. 90,224. 4 Claims. (Cl. 250—14.)



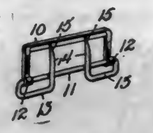
1. In a stand for the demonstration of radio sets and the like, a base and an upright pedestal, a cylindrical body rotatably mounted upon the bearings upon the pedestal, a platform rigidly affixed to the cylindrical body, a cabinet mounted upon the platform with its sides at a distance within the periphery of the platform, the platform forming a shelf around the cabinet, compartments within the cabinet for the storage of batteries, a plurality of series of binding posts upon the cabinet, a loop jack within the cabinet, a loud speaker jack within the cabinet, a ground connection within the pedestal and a means for connecting the loop jack to one series of binding posts, for connecting the loud speaker jack to another series of binding posts, for connecting the ground connection to another series of binding posts, for connecting the batteries to another series of binding posts.

1,663,744. PORTABLE ELECTRIC COOKER. HENRY A. ZIOLA, Toledo, Ohio, assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio, a Corporation. Filed Nov. 20, 1925. Serial No. 70,400. 6 Claims. (Cl. 53—11.)



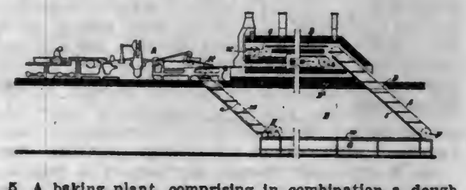
3. A cooker casing and well assembly comprising a casing body, a top section for said body, a bottom section for said body, interlocking tongue and recesses between the top and bottom section and the body, and a well closed at its bottom and supported by the top section in a position spaced from the bottom of the body.

1,663,745. BUCKLE. CARL E. ANDERSON, East Orange, N. J., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Filed Mar. 15, 1926. Serial No. 94,638. 1 Claim. (Cl. 24—188.)



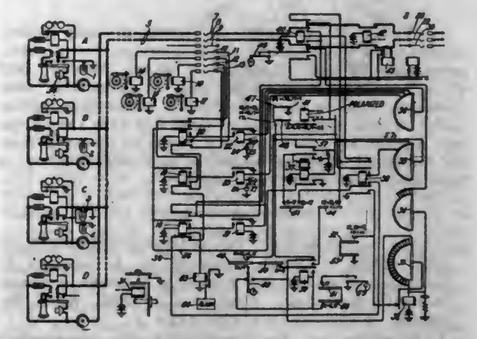
A buckle comprising a U-shaped frame with knuckles at the ends thereof, a wire bar passing through the knuckles and formed into return bends beyond the knuckles and extending parallel with the wire bar toward the centre of the buckle and below the wire bar, the said return bends terminating in tongues extending across and in contact with the wire bar and having pointed ends in contact with the cross bar of the frame.

1,663,746. BAKING OVEN. GEORGE RALPH BAKER and CLAUDE DUMBLETON, London, England, assignors to Baker-Perkins Company Incorporated, White Plains, N. Y., a Corporation of New York. Filed Oct. 17, 1925, Serial No. 62,999, and in Great Britain Nov. 14, 1924. 7 Claims. (Cl. 107—57.)



5. A baking plant, comprising in combination a dough separating machine, an oven having its inlet in line with said machine, a heat-insulating partition below said oven having openings for the passage of a conveyor, a cooling chamber below the said partition and containing an elongated table, and a single endless conveyor adapted to travel in a closed path from the separating machine through said oven inlet, into and through the oven, then downwardly through said partition openings into and through said cooling chamber and over the table therein, and then upwardly back through said partition to said separating machine.

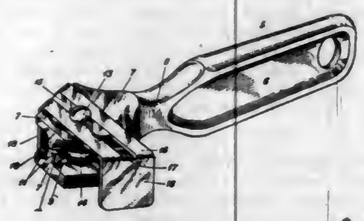
1,663,747. TELEPHONE-EXCHANGE SYSTEM. HENRY M. BASCOM, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 5, 1927. Serial No. 210,926. 7 Claims. (Cl. 179—9.)



1. In combination, a line having a plurality of stations thereon, devices at said stations, each device arranged to allow current of a given polarity to flow and to prevent

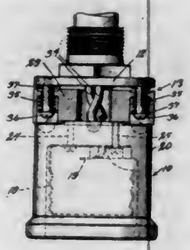
the flow of current of opposite polarity, means to apply sources of potential of different polarity to the line, and testing means responsive to the flow of current from said sources to discriminate one station from another.

1,663,748. BRAID STRIPPER FOR INSULATED WIRES. HUGH D. BENDER, Brooklyn, and ROBERT JOHN KENT, Jamaica, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 10, 1925. Serial No. 61,767. 22 Claims. (Cl. 81—9.5.)



1. A braid stripper for insulated wires comprising a handle having a pair of grooves of different dimensions associated therewith, each groove being adapted to receive a pair of wires of different diameters, and a circular cutting blade extending into each groove for operating upon the insulation of said wires in their travel through both grooves.

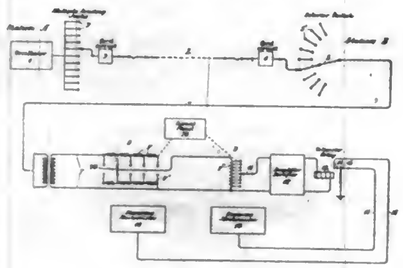
1,663,749. ELECTRICAL CONNECTER DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 10, 1922, Serial No. 535,492. Renewed Sept. 4, 1925. 8 Claims. (Cl. 240—90.)



1. A supporting member, a cylindrical lamp socket member, and a cylindrical shock-absorbing device interposed between said support and socket member, said shock-absorbing device comprising a cylindrical base having a recess in its upper face, a compression spring seated in said recess acting to push said base away from said support, said base having a recess in its lower face, and compression spring seated in said recess, acting to force said base toward said support.

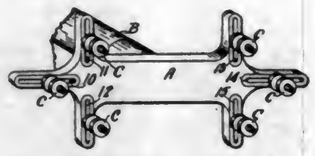
1,663,750. AUTOMATIC TRANSMISSION-MEASURING SET. FRED H. BEST, Westfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 9, 1925. Serial No. 29,188. 3 Claims. (Cl. 179—175.)

1. A testing set for determining the transmission characteristics of a line comprising a circuit to which voltage from said line is to be applied, a responsive device in said circuit, means controlled thereby for automatically introducing steps of loss in said circuit and for subsequently introducing steps of gain in said circuit until the attenuation of said circuit counteracts



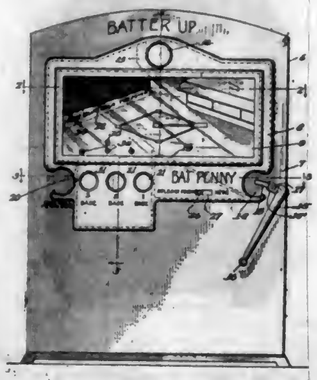
the attenuation of said line, and means controlled by said last mentioned means for indicating the amount of said steps of loss and gain introduced.

1,663,751. COIL-WINDING MEANS. ALVIN J. FATHAUER, Cleveland, Ohio. Filed Feb. 23, 1926. Serial No. 90,003. 18 Claims. (Cl. 140—92.2.)



1. A spool of the character described, including, a stem having a parallel sided groove having a lead, a washer adapted to be attached to and removed from said stem, and a pin in said washer and adapted to engage the sides of said groove to locate and to retain said washer on said stem.

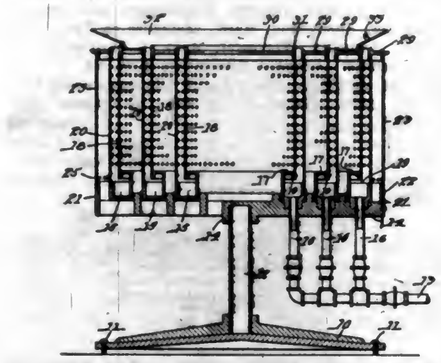
1,663,752. AMUSEMENT DEVICE. CHARLES FLEISCHER, Brooklyn, N. Y., assignor to John F. Meyer, Chicago, Ill. Filed May 23, 1927. Serial No. 193,464. 8 Claims. (Cl. 273—138.)



1. In an amusement device of the character described, a cabinet, a front plate, a face plate integrally connected to said front plate and having openings therein,

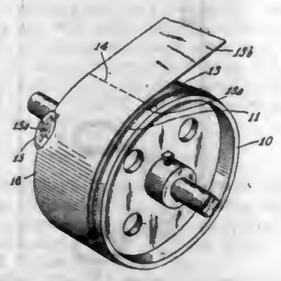
a back plate attached to said front plate and forming a compartment, a baffle for deflecting a token inserted in one of said openings in a predetermined direction, an inclined member mounted in said compartment, means for causing said token to ride over said inclined member and fall into the compartment behind one of said openings, a slotted rod for holding said tokens, flanges formed on said face plate between some of said openings to form passages leading therefrom, and for supporting said rod, a receptacle cooperating with said passages, and means including said rod for causing said token to fall through said slots in the rod and into said receptacle.

1,663,753. OIL BURNER. JOSEPH E. FOWLER, Worcester, Mass. Filed Oct. 28, 1926. Serial No. 144,871. 1 Claim. (Cl. 158—87.)



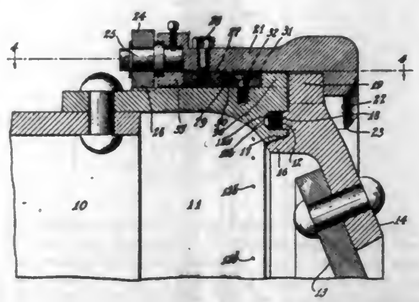
In an oil burner, the combination of an oil ring having an outer wall provided with a shoulder thereon and an inner wall extending higher than the outer wall and extending outwardly toward the outer wall and then downwardly and provided with a shoulder in its outer surface, whereby the space for the discharge of oil or flame is located at an inclination between the downwardly extending flange and the top of the outer wall, and a pair of perforated walls supported by said shoulders for receiving the flame and products of combustion.

1,663,754. TUBE AND METHOD OF MAKING SAME. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 3, 1925. Serial No. 47,690. 4 Claims. (Cl. 154—14.)



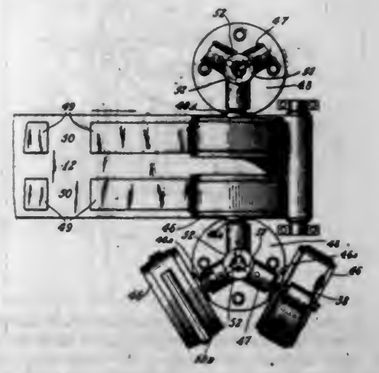
1. The method of making an annular tube which comprises helically winding in a plurality of plies a continuous strip of tube-forming material to provide an annular structure with stepped margins, and joining said margins to each other in interfitted relation.

1,663,755. DOOR STRUCTURE FOR PRESSURE TANKS. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 28, 1926. Serial No. 118,932. 4 Claims. (Cl. 220—55.)



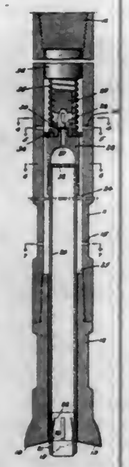
1. A door structure for pressure tanks, the said structure comprising a door frame, a door adapted to seat in the door frame, one of the said parts being formed with an annular gasket-receiving recess and the other being formed with an annular gasket-compressing flange adapted to fit snugly into the recess, a compression gasket in the recess, and means engaging the door at a multiplicity of positions about its periphery and constrained to act simultaneously at such positions for drawing the door bodily toward the door frame, without relative rotation or angular movement of the door and frame to compress the gasket, the door and the frame being formed with complemental, conical, guiding surfaces.

1,663,756. TUBE-MAKING APPARATUS. JOHN O. GOODWIN, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 21, 1925. Serial No. 51,580. 6 Claims. (Cl. 154—7.)



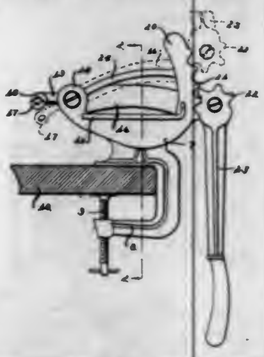
1. Apparatus for making inner tubes for tires, the said apparatus comprising a substantially cylindrical form of a diameter such as to receive as a winding thereon a strip of tube-forming stock to be formed as an inner tube by the joining of its margins in a longitudinal seam, a support for the strip of stock, the said support having an upwardly facing surface of such extent as at the same time to support in spread condition thereon, against gravity, substantially the entire strip, and means for effecting such relative movement of the support and the form as to cause the strip to be wound upon the form by relative running of the form upon the support.

1,663,757. STANDARD TOOL CORE DRILL. REID B. GRAINGER, Redondo Beach, Calif., assignor to Elliott Core Drilling Company, a Corporation of California. Filed Oct. 5, 1927. Serial No. 224,234. 6 Claims. (Cl. 255—72.)



1. In a reciprocating core drill, the combination of: an inner barrel; an outer barrel reciprocably mounted on the inner barrel; means for limiting the movement of the outer barrel on the inner barrel; resilient means on the inner barrel; a weight member supported on said resilient means and a head on said outer barrel arranged to engage said weight by impact.

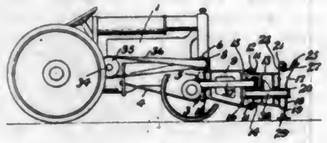
1,663,758. OYSTER OPENER. PETER GWISDALLA, Detroit, Mich. Filed Apr. 11, 1927. Serial No. 182,584. 5 Claims. (Cl. 17—9.)



1. An oyster opener of the class described, comprising: a supporting member; a cutting member movably mounted on said supporting member; an engagement member fixedly mounted on said supporting member for engaging between the shells of an oyster; a movable engaging member for engaging between the shells of an oyster; and common means for moving said cutting member relatively to said supporting member and said engagement members relatively to each other.

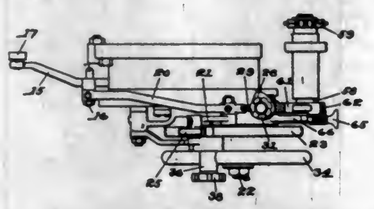
1,663,759. PAVEMENT GRINDER. JACOB C. HAM, Grand Rapids, Mich. Filed Dec. 29, 1924. Serial No. 758,751. 3 Claims. (Cl. 51—177.)

1. In combination, a support adapted to be attached to and extend in front of the front axle of a tractor or the like, a vertical shaft rotatably mounted at the front end of the support, a disk located below the lower end of the shaft, a universal joint connection between the shaft and disk, said disk having a plurality of relatively wide slots cut therein, the lengths of which



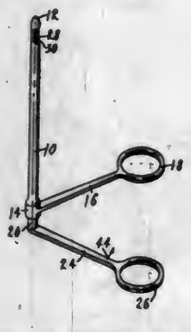
are perpendicular to radii of the disk, and a plurality of star wheel dressing elements located side by side and rotatably mounted in each slot, substantially as described.

1,663,760. GRINDING MACHINE. JAMES N. HEALD, Worcester, ALBERT TURNER, Shrewsbury, and GEORGE C. KIMMEL, Springfield, Mass., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed Oct. 7, 1922, Serial No. 593,113. Divided and this application filed Feb. 12, 1926. Serial No. 87,798. 3 Claims. (Cl. 51—165.)



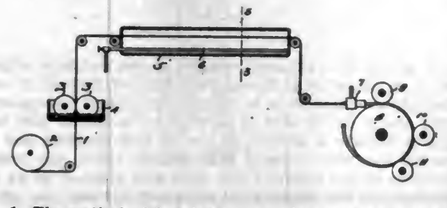
1. In a grinding machine, wheel feeding mechanism comprising a ratchet-wheel and pawl, the latter being movable on its operative stroke always to the same point, an irregular but peripherally smooth cam without jogs or breaks in its surface for limiting the return or inoperative stroke of said pawl, and indicating means associated with said cam for procuring its adjustment for the desired number of ratchet-wheel teeth to be passed over by said pawl on its inoperative stroke, the cam being turnable in either direction of rotation to the desired adjustment, by reason of its smooth surface, without the necessity of otherwise moving the parts for which it acts as a stop.

1,663,761. SURGICAL INSTRUMENT. GEORGE A. JOHNSON, Pomeroy, Iowa. Filed Feb. 7, 1927. Serial No. 166,488. 5 Claims. (Cl. 128—304.)



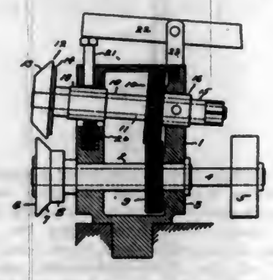
1. An instrument for shearing and receiving objects comprising a tube, a shaft therein, a notch cut in said tube, the bottom of said notch extending less than half way through the tube whereby cutting edges having an acute angle are formed, a pocket in said shaft adjacent said notch whereby movement of said shaft relative to said tube will cause a shearing action between said pocket and said notch.

1,663,762. METHOD OF FORMING HAT-PACKING RINGS. WILLIAM C. JOHNSON, Bethel, Conn., assignor to The Clark Box Company, Danbury, Conn., a Corporation of Connecticut. Filed July 19, 1927. Serial No. 206,820. 3 Claims. (Cl. 18—56.)



1. The method of forming hat packing rings with curled edges which consists in moistening the edges only of a continuous flat cardboard strip with liquid, then subjecting the entire surface of the strip to the action of a hot vapor, and finally curling the edges and curving the strip with the curled edges into annular shape.

1,663,763. METHOD OF AND MACHINE FOR CURLING HAT STAYS. WILLIAM C. JOHNSON, Bethel, Conn., assignor to The Clark Box Company, Danbury, Conn., a Corporation of Connecticut. Filed July 19, 1927. Serial No. 206,821. 5 Claims. (Cl. 18—10.)

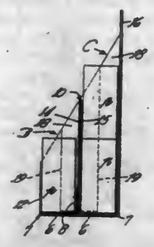


1. A machine for curling hat stays comprising a frame, a shaft rotatably supported in bearings fixed in the frame and carrying a gear and a tapering roll, a shaft rotatably supported in bearings pivoted in the frame and carrying a gear and a tapering roll, said gears intermeshing and said rolls tapering reversely, means for swinging the pivotally supported shaft and moving the roll which it carries toward and from the other roll, and a curler attached to the frame and located to curve the edge of a stay back of the opening between the peripheries of the rolls.

1,663,764. PROCESS OF MAKING ROSIN SOAP. CARL C. KESLER, Pittsburgh, Pa., assignor to Pine Institute of America, Incorporated, Jacksonville, Fla., a Corporation of Delaware. Filed July 30, 1925. Serial No. 47,123. 2 Claims. (Cl. 87—16.)

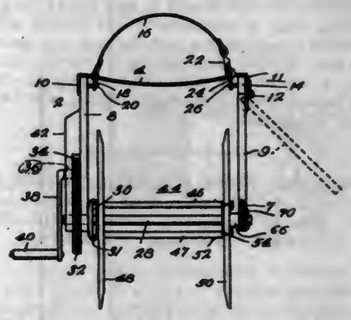
1. The method herein described of producing rosin soap which consists in converting the major part of the acid component of a quantity of rosin into alkali acid salt, removing from such salt the resene component of the rosin, and using the remaining salt as an ingredient in the soap-making operation.

1,663,765. DISPLAY BOX. RUSSELL A. LAMBERT, Springfield, Mass. Filed July 9, 1924. Serial No. 724,990. 2 Claims. (Cl. 206—44.)



1. A combined shipping and display box comprising a tubular box body formed of cardboard and having front and rear walls, side walls and end walls, said end walls being swingingly connected to the front wall and provided with flaps for insertion in the box body adjacent the rear wall, said box body being cut across the front wall and the side walls with the cut terminating in the side walls at opposite ends of the median line on the back wall whereby said box may be folded over on the median line of the back wall to form two display sections with the sections of the back wall contiguous and the flaps of the end walls adjacent each other, the ends of the box body disposed in the same horizontal plane to form a broad base for the box when used for display purposes and means for holding the two sections of the box in display position, said means comprising a flap on an end wall inserted between the flap of the other end wall and the other section of the rear wall.

1,663,766. WIRE REEL. GEORGE W. LANDIS, Stilwell, Kans. Filed Feb. 23, 1927. Serial No. 170,263. 4 Claims. (Cl. 242—96.)



1. A device of the character described consisting of a frame adapted to be worn upon the body, a shaft journaled in said frame, a reel mounted upon said shaft and including cross members at each end, a clutch upon said shaft provided with fingers for engaging the edges of one of said cross members and rotating said reel, and manually controlled means for driving said shaft.

1,663,767. WASHING-MACHINE WRINGER. ARTHUR CALDER LYONS, Brantford, Ontario, Canada. Filed June 13, 1924, Serial No. 719,835, and in Canada Nov. 14, 1923. 4 Claims. (Cl. 68—82.)

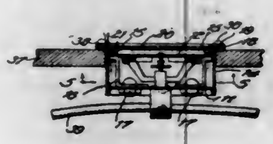
1. A wringer, comprising a frame consisting of a lower member and an upper member, said upper member being held in pivotal relation with said lower member, rollers suitably journaled in said lower member, a flat spring adjustably fitted in said upper member, the ends of said

spring imparting pressure on the ends of said rollers, said upper member being adapted to be swung about its pivot to either side of a plane passing through the wringer



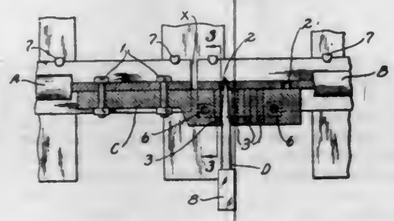
rolls to disengage and release the downward pressure on the ends of the said rollers, as and for the purpose specified.

1,663,768. ELECTRICAL MEASURING INSTRUMENT. JOHN H. MILLER, Oak Park, Ill., assignor to Jewell Electrical Instrument Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1922. Serial No. 546,924. 2 Claims. (Cl. 171—95.)



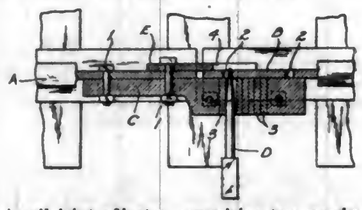
1. In an electrical measuring instrument, a substantially cylindrical casing having an annular supporting flange extending at right angles to its axis, a facing ring turned over said flange and projecting into said casing, a transparent circular closure in said casing lying against said facing ring, a substantially cup shaped metal dial plate fitting in said casing with its open end against said transparent closure, and having a curved slot for a pointer, a cup shaped back plate closing the rear end of said casing, and a yoke rigidly joining said back plate and said dial plate.

1,663,769. RAIL-JOINT ADJUSTER. JOHN H. MORGAN, East St. Louis, Ill., assignor of one-half to Samuel C. Jump, East St. Louis, Ill. Filed Mar. 10, 1927. Serial No. 174,206. 11 Claims. (Cl. 254—43.)



1. A rail joint adjuster, comprising a member adapted to be connected to one rail in such a position that a portion of said member extends alongside of the other rail, and a tapered device that is adapted to be forced into engagement with surfaces on said other rail and on said member located below the tread surface of the head of the rail and disposed so as to produce relative longitudinal movement between said other rail and member.

1,663,770. RAIL-JOINT ADJUSTER. JOHN H. MORGAN, East St. Louis, Ill., assignor of one-half to Samuel C. Jump, East St. Louis, Ill. Filed Nov. 28, 1927. Serial No. 236,325. 6 Claims. (Cl. 254—43.)



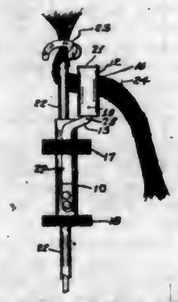
1. A rail joint adjuster, comprising two members adapted to be connected to the opposite sides of the web of one rail and arranged so as to embrace the web of the opposed rail, and a device that is adapted to be forced into engagement with a surface on one of said members and a surface on said opposed rail located below the tread surfaces of the heads of the rails and disposed so as to produce relative longitudinal movement between the rails.

1,663,771. HAIR CURLER. CHARLES NESSLER, New York, N. Y. Filed Feb. 2, 1927. Serial No. 165,833. 10 Claims. (Cl. 132—33.)



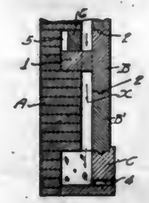
1. A hair curling device comprising a tubular curling-rod, an endwise movable rod extending through said tubular rod and provided with a protruding hook-member having an ecentrically pivoted finger for closing the mouth of said hook-member, said finger being engaged by said tubular rod and moved thereby into closed position when said movable rod is moved inwardly into the tubular-rod.

1,663,772. HAIR-WINDING MEANS. CHARLES NESSLER, New York, N. Y. Filed Feb. 2, 1927. Serial No. 165,833. 9 Claims. (Cl. 132—33.)



1. In a device for curling hair, a curling rod, a winding device including a tube section adapted to be removably received on the rod, a pair of fingers resiliently supported on the tube section, and projecting beyond the same parallel with and spaced from said rod, and means for adjustably moving the fingers into gripping relation to a strand of hair, said winding device being adapted to be rotated about the rod to wind the strand thereon.

1,663,773. FURNACE WALL. GEORGE M. PARKER, St. Louis, Mo. Filed June 5, 1925. Serial No. 35,150. 6 Claims. (Cl. 72—102.)



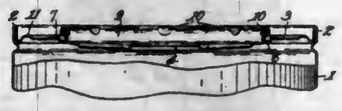
1. A furnace wall, comprising a permanent portion provided with pockets, a renewable portion made up of a plurality of large, flat tile arranged edgewise and spaced away from said permanent portion so as to form an air circulating passageway between said tile and permanent portion, integral, rearwardly-projecting, reduced shanks on some of said tile provided with flanged head pieces, and elements in the permanent portion of the wall constructed so as to form undercut recesses below the pockets in said permanent portion and adapted to interlock with the head pieces on said shanks when said head pieces are introduced into said pockets and moved downwardly.

1,663,774. LINOLEUM-COVERED BASEBOARD. CLARENCE L. PETERSEN, Richmond, Calif. Filed Apr. 20, 1927. Serial No. 185,193. 2 Claims. (Cl. 20—74.)



1. A house element comprising a base board having a curved face adapted to receive the turned up edges of a linoleum strip, a bead on top of said base board, a groove formed in the underside of said bead adapted to receive the edge of said linoleum, and a linoleum strip having its upper edge in the groove and cemented to said curved face.

1,663,775. HEAD FOR SHIPPING DRUMS. CHARLES H. ROLLASON, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Apr. 16, 1927. Serial No. 184,256. 5 Claims. (Cl. 220—59.)



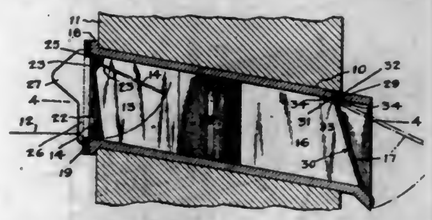
2. A sheet metal container having a head formed with a central circular opening defined by an upstanding flange, said head having therein a downwardly pressed bead of which the inner wall is extended to form said flange, said flange having its terminal edge portion turned outwardly into overhanging relation to said bead to form a seat for a gasket, said head also having therein an upwardly pressed bead disposed in closely encircling relation to the downwardly pressed bead, a slip cover having an upright annular flange for seating within the embrace of said head flange and provided with a terminal edge portion turned outwardly into overhanging relation to said gasket seat, and tongues formed on said head flange adapted to be turned inwardly into seated relation to said terminal edge portion of the cover flange, the reversely disposed beads cooperating to render that portion of the head adjacent to the cover readily resilient for absorbing impacts and preventing rupture of the joint between the head flange and the cover.

1,663,776. SELF-REVERSING SLICING MACHINE. HERMAN ROSSOW, Melvindale, Mich. Filed Mar. 19, 1927. Serial No. 176,628. 5 Claims. (Cl. 146—168.)



1. A cutting machine of the class described comprising: a bed; a cutting element projecting transversely of said bed and rockingly mounted, said cutting element, upon rocking in either direction, a predetermined distance, projecting one or the other of its edges above the surface of said bed; an arm projecting downwardly from said cutting element; an engagement member at opposite ends of said bed; means for connecting said engagement members; and means on said connecting means for engaging said arm and rocking said cutting element on its mountings upon movement of either of said engagement members in either direction.

1,663,777. SCUPPER. EDWIN SARGENT, North Arlington, N. J. Filed July 1, 1926. Serial No. 119,845. 5 Claims. (Cl. 182—26.)



1. In a scupper, the combination of a hollow casing, adapted to be located in a wall at the floor level for draining water from the floor; a frame removably secured at the inner end of said casing; a series of bars across said frame, said bars having protuberances thereon to prevent any object being placed against the inner end of the casing and closing it off; and a valve pivotally mounted on said frame, said valve being adapted to substantially close the inner end of the casing.

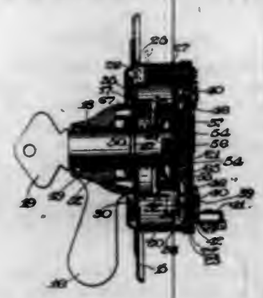
1,663,778. HAIR CLEANER. MAX H. SEEGER, Inglewood, Calif. Filed May 28, 1927. Serial No. 195,025. 3 Claims. (Cl. 132—11.)



1. The method of forming a hair cleaner consisting of twisting wires together to form a strand and simultaneously weaving short lengths of fibrous string into the

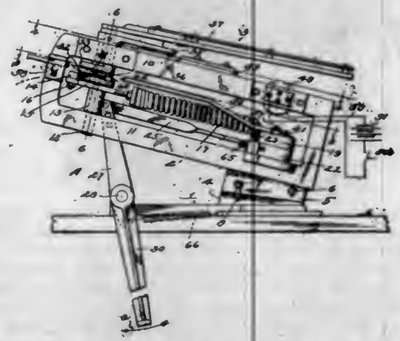
strand so that there is a short string secured in each twist of the strand, then bending the strand to form integrally connected teeth of a comb or brush, then severing proper lengths of integrally connected teeth, and then securing the severed lengths of teeth in a backing of a comb or brush.

1,663,779. SWITCH. EDGAR M. SORENG, Milwaukee, Wis., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 2, 1920. Serial No. 414,207. 15 Claims. (Cl. 200—6.)



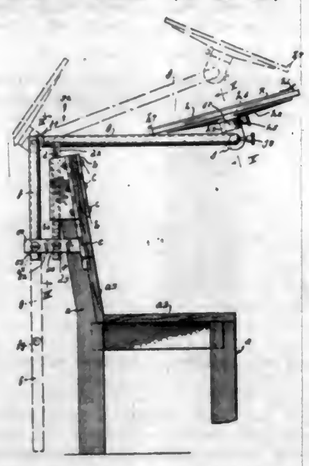
5. In a switch, a rotary shaft member, a rotatably mounted springpressed sheet metal dished contact disk surrounding the shaft and insulated therefrom, a spring pressed insulating disk carried by the shaft and located within the dished portion of the contact disk, a contact member thereon, contacts engaged by the contact member and the contact disk, and separate means for turning the shaft and the contact disk.

1,663,780. TARGET-THROWING TRAP. WILLIAM I. SPANGLER, Tarlton, Ohio, assignor to The Chamberlin Cartridge and Target Co., Cleveland, Ohio, a Corporation of Ohio. Filed July 8, 1925. Serial No. 42,136. 11 Claims. (Cl. 124—6.)



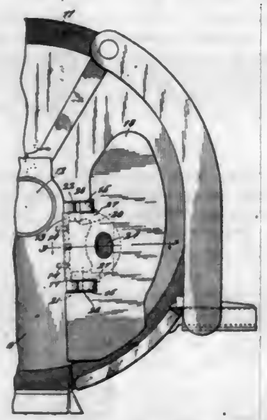
1. In a target trap, the combination of a shaft, a throwing arm connected with said shaft, a crank connected with said shaft, a spring connected at one end to said crank, a movable support for the opposite end of said spring, a rock shaft at the target, a one-way connection between said rock shaft and the said support whereby the support may be moved by said rock shaft thereby to place the spring under throwing tension, means, releasable by the return movement of said throwing arm, for holding the said support in its spring-tensioning position, and adjustable means for engaging the said support after the release thereof, thereby to limit the movement of said support toward said crank and to retain a material part of the throwing tension in said spring.

1,663,781. SCORING APPARATUS. WILLIAM W. SPARGO, Pontiac, Mich. Filed Aug. 24, 1925. Serial No. 52,139. 4 Claims. (Cl. 45—82.)



1. In an apparatus of the kind described, the combination of a bench having a back with a vertical slot formed therein from its upper edge, a casting engaging each edge of said slot to strengthen the same and extending backward therefrom, said castings being provided with opposite vertical slots back of said bench, a block engaging and adapted to slide in said vertical slots, a part secured to said bench beneath the slot in the back thereof and extending backward therefrom and having a vertical aperture therethrough, a rod passing through and adapted to reciprocate in said aperture, said part being so located that said rod shall be parallel and back of said block, a second rod jointed at its inner end to the upper end of the first named rod and adapted to enter laterally into the slot in the back of the bench, and an adjustable table on the outer end of said second rod.

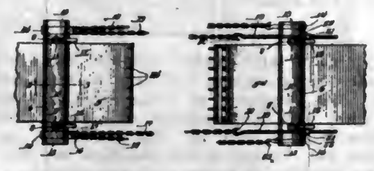
1,663,782. SLICE-DEFLECTOR FOR SLICING MACHINES. HENRY THOMAS, East Ham, London, England, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Sept. 16, 1927. Serial No. 219,829. 12 Claims. (Cl. 146—102.)



1. In a slicing machine, a guard plate for the slicing knife, a support for said guard plate comprising pivot members movable transversely of the axis thereof, and

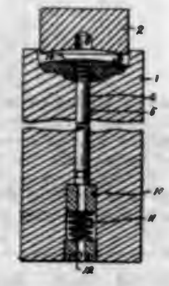
means co-operating with said pivot members for holding said members against pivotal movement when said guard plate is in its operative position, said pivot members being movable to a position in which they are free to rotate about their axis to permit said guard plate to swing away from the slicing knife.

1,663,783. BELT STRETCHER. EDWIN VOLLRATH, Easton, Pa. Filed Jan. 31, 1927. Serial No. 164,785. 5 Claims. (Cl. 254—54.)



1. In a belt stretcher of the character described, the combination with clamps and means for applying them to the respective belt ends, of means for drawing said clamps together by successive steps, and means independent of said drawing means for holding said clamps in successive positions of approach.

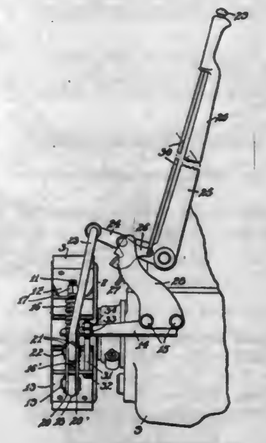
1,663,784. METHOD OF MAKING TWO-PIECE VALVES. WILLIAM H. WASHBURNE, Chicago, Ill., assignor, by mesne assignments, to Motor Valves, Inc., Woodstock, Ill., a Corporation of Delaware. Filed Mar. 10, 1924, Serial No. 698,145. Renewed Sept. 10, 1927. 5 Claims. (Cl. 29—156.7.)



1. The method of making a two-piece valve which consists in forging a blank to give it the shape of a valve head having a central hole therethrough slightly larger in diameter than a stem to which the head is to be applied, and then forging the head upon a stem in such a manner that the material of the head is closed upon the stem without exerting any forging pressure on the stem in the direction of its length.

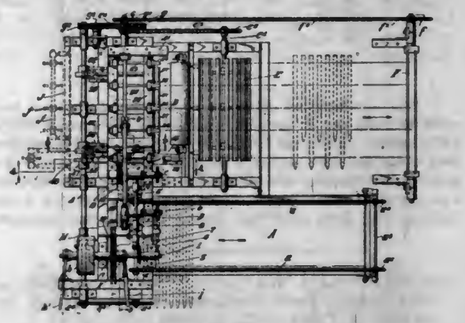
1,663,785. AUTOMOBILE BRAKE. SAMUEL O. WHITE and ROBERT SPRATT PLEXICO, Muncie, Ind., assignors to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Apr. 28, 1926. Serial No. 105,123. 8 Claims. (Cl. 188—77.)

1. The combination with a transmission casing and shaft, of a brake drum on said shaft, a brake band for said drum mounted on the end of said casing, a compression bolt having one end connected to one end of said band, a cam lever fulcruming on the opposite end of said band and pivotally connected to the opposite end of said bolt and operating in the plane of said band, a guide bracket for the bolt secured on one side of the transmission casing, expansion springs for the band surrounding said bolt and interposed between the bracket and the opposite ends of the band, a bell crank brake lever pivoted on the transmission casing on the same side of the axis of the band as that of the ends of the band and operating in a plane at right angles to the plane of the drum, one arm of said brake lever extending



toward the brake band and to a point substantially above the compression bolt, and a thrust rod pivotally connected at one end to said arm and at the opposite end to said cam lever.

1,663,786. FENCE-MAKING MACHINE. DOUGLAS A. WILSON, Peoria, Ill., assignor to Rowe Manufacturing Company, Galesburg, Ill., a Corporation of Illinois. Filed Dec. 20, 1926. Serial No. 155,817. 16 Claims. (Cl. 140—30.)

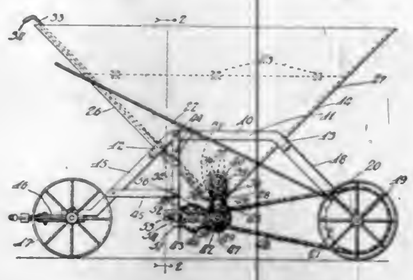


1. In a fence machine, twisters for twisting cable strands to secure alternate long and short wood slats, means to rotate the twisters, means to rotate the marginal twister for the top marginal cable strand at an increased speed over the remaining twisters, and retention means to engage the top marginal cable strand between the upper ends of the longer slats to accomplish the twisting of such strand at the same time as the securing of a short slat to the other strand.

1,663,787. LIME-SPREADING MACHINE. ERNST ZACHRISON, Chicago, Ill. Filed June 11, 1924. Serial No. 719,230. 1 Claim. (Cl. 275—2.)

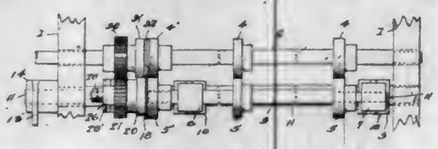
A lime spreading machine comprising a frame mounted on carrying wheels, a hopper mounted on said frame having a transverse opening in the center thereof, said hopper having its bottom inclined toward the cen-

ter thereof for conveying the lime to said opening, a roller positioned wholly within said hopper and adapted to be moved in a direction parallel to said bottom member adjacent said opening for pulverizing the lumps of lime and for feeding the lime through said opening,



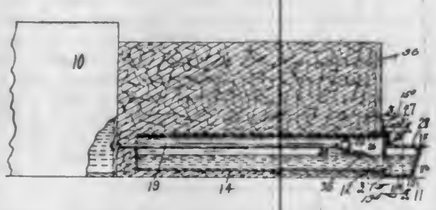
oppositely disposed brushes positioned adjacent to and parallel with said roller and outside said hopper for distributing the lime discharged by said roller, and an adjustable bottom member positioned inside of said hopper for regulating the size of said opening.

1,663,788. ROTARY CUTTER. ANTHONY ZIMNIEWICZ, New York, N. Y., assignor, by mesne assignments, to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1924. Serial No. 756,110. 3 Claims. (Cl. 164—61.)



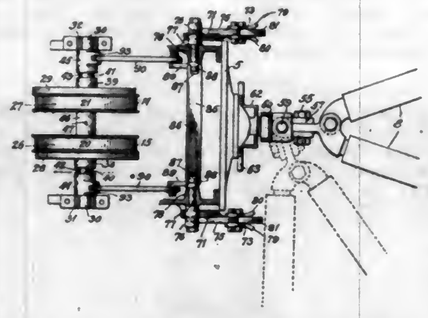
1. The combination with an operating shaft and feed rolls thereon, of a support and adjustable yokes thereon, a shaft journaled in said yokes and complementary feed rolls on said shaft, a rotary cutter, a bracket for said cutter having an adjustable hub on said support, and resilient means connected to said support for maintaining said feed rolls and cutter in operative position.

1,663,789. STOCK WATERER. OSCAR O. ANDERSON, Sioux Rapids, Iowa. Filed Dec. 6, 1926. Serial No. 152,861. 1 Claim. (Cl. 119—73.)



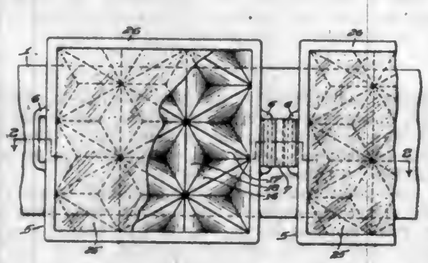
In a waterer of the class described, a trough having an opening at its rear end, a tubular compartment connected with the rear end of the trough in communication therewith and extending a substantial distance therefrom for adapting it to be embedded in manure, an intake pipe extended into said compartment at the end farthest from the trough and extending to position adjacent to and accessible from the trough, a valve for controlling discharge from the end of said pipe adjacent to the trough, a float in the compartment operatively connected with said valve, a plate detachably mounted at the front end of said compartment and projecting downwardly to form a partition between the trough and compartment terminating above the bottom of the trough, a trough cover hinged to said plate, and means for detachably mounting the plate for permitting its ready removal for affording convenient access to the valve and float.

1,663,790. AUTOMATIC CRAMP PREVENTIVE. WILLIAM I. BALLENTINE and PAUL R. THOMPSON, La Porte, Ind., assignors to Advance-Rumely Company, La Porte, Ind., a Corporation of Indiana. Original application filed June 16, 1923, Serial No. 645,751. Divided and this application filed June 25, 1923. Serial No. 647,610. 12 Claims. (Cl. 180—17.)



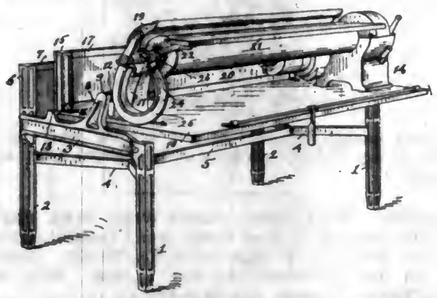
1. In a tractor having driving mechanism and control means therefor, comprising a rein operated control element having a projection, a hitch operated member having a projection co-operable with the projection on the control element for effecting a stop control of the driving mechanism when the hitch operated member is operated by a driven implement when moving toward a cramped position.

1,663,791. REFLECTOR BELT. EDMUND R. BOOTS, East Orange, N. J., and SVEN AUGUST ESKILSON, Stockholm, Sweden, assignors to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 8, 1924. Serial No. 697,731. 2 Claims. (Cl. 88—1.)



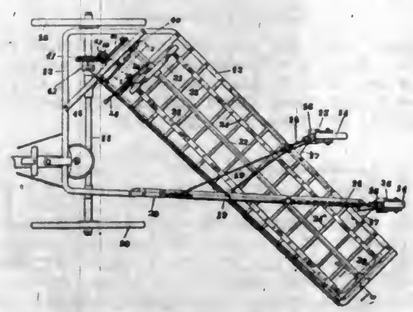
1. A belt comprising in combination a plurality of groups of reflectors, frame members for supporting the respective groups, means for flexibly connecting the said groups together, and light diffusing plates located over the said respective groups.

1,663,792. COMBINED TABLE AND IRONING-MACHINE SUPPORT. FRANCIS M. CASE, Cleveland Heights, Ohio, assignor to Barton R. Deming, Cleveland, Ohio. Filed Oct. 26, 1925. Serial No. 64,754. 19 Claims. (Cl. 45—17.)



12. A combined table and ironing machine support comprising a supporting frame having supporting legs at the corners thereof, a reversible table top pivotally mounted on the frame for movement from one horizontal position to a reversed position, about a longitudinal axis intermediate the front and rear of the frame, said supporting legs being located within the confines of the edges of the top when the top is in one of said horizontal positions.

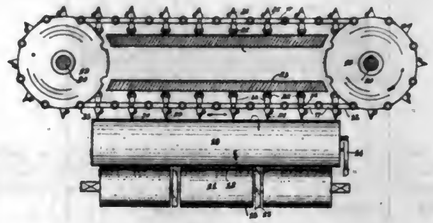
1,663,793. SIDE-DELIVERY RAKE. LEON R. CLAUSEN, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a Corporation of Iowa. Filed July 10, 1919. Serial No. 309,906. 16 Claims. (Cl. 56—377.)



1. In a side-delivery rotary rake, the combination of a wheeled support comprising a rotatable axle, a diagonally-extending frame having its forward end portion pivotally connected with said wheeled support, a rotatable reel carried by said frame and comprising a shaft journaled in the frame, the outer end of said shaft being journaled loosely in a bearing to permit the other end of the shaft to have a limited vertical adjustment, a sprocket wheel fast on said shaft, a second sprocket wheel rotatably mounted on the frame in advance of the first-named sprocket, an endless chain passing over said sprockets, means for driving said sprockets and chain from the rotatable axle, and means for vertically adjusting the inner end of said reel-shaft, said adjusting means comprising a toothed member on the reel-shaft and turnable relatively thereto and a fixed rack with which said toothed member meshes.

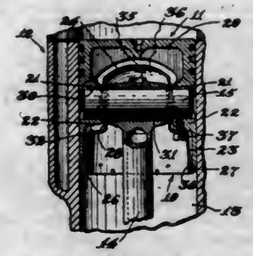
1,663,794. ROSSER. CHARLES ERNEST CLOWES, Fredericton, New Brunswick, Canada. Filed Feb. 24, 1927. Serial No. 170,570. 8 Claims. (Cl. 144—208.)

1. In a rossing machine, sprockets disposed in spaced relation, a travelling belt therefor, a scraper rigidly projecting from each link thereof presenting a continuous series of working edges along one side of the belt between the sprockets for engagement axially with a side of the stick, rollers, one borne by each link in the



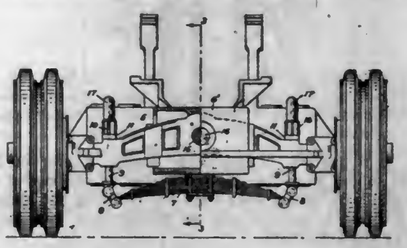
thrust line of the scraper, and a rail extending parallel to the line of motion presenting a thrust sustaining surface for the rollers.

1,663,795. OIL-SPLASH LINING FOR PISTONS. RICHARD COLE, Burbank, Calif. Filed May 24, 1922. Serial No. 563,323. 6 Claims. (Cl. 74—108.)



2. In combination with an internal combustion engine piston provided with a wrist pin, means comprising a lining adapted to prevent oil from splashing internally of said piston, and ducts formed in said lining, to extend outwardly around the lower edge of the piston to allow air to circulate therein and oil to drain therefrom.

1,663,796. MOUNT FOR GUNS. THOMAS A. CONLON, Silver Spring, Md. Filed Feb. 10, 1926. Serial No. 87,458. 7 Claims. (Cl. 89—40.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

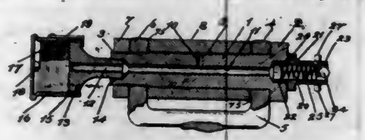


5. A gun mount including a carriage, an axle, jacks mounted in the axle and a resilient connection between the carriage and jacks.

1,663,797. LUBRICATING MEANS. JOHN L. CREVELING, Oracle, Ariz., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 15, 1920. Serial No. 430,943. 8 Claims. (Cl. 308—120.)

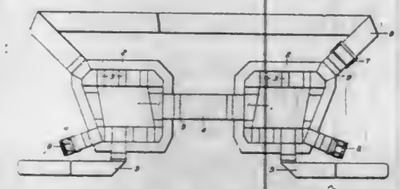
8. Lubricating apparatus of the class described comprising an element having a bearing surface, a passage

having an opening through said surface and other openings beyond said bearing surface, external storage means attached to said element and communicating with one



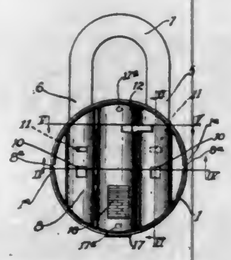
of said other openings, and means for making a quick detachable connection with a source of lubricant supply separately attached to said element and communicating with a second of said other openings.

1,663,798. POLYGONAL DEVICE FOR ABDOMINAL RUPTURE. LUELLA HAYMOND, Salt Lake City, Utah. Filed Mar. 14, 1927. Serial No. 175,352. 1 Claim. (Cl. 128—96.)



In an abdominal support for hernia; a flexible device comprising a seven sided frame with necessary apertures to admit adjustable straps attached thereto; a compress held in a central position by said straps, and means for fastening the support around the body and to the legs of the wearer.

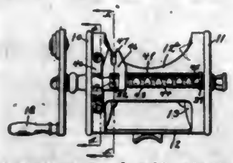
1,663,799. CYLINDER PADLOCK. JOHN JUNKUNC, Chicago, Ill. Filed Jan. 17, 1927. Serial No. 161,482. 4 Claims. (Cl. 70—108.)



4. In a padlock, a cylindrical casing, a pair of lock plates spaced from the top and bottom of the casing and provided with cooperating ways for receiving the arms of the hasp of a padlock, and an intermediate way for receiving the key barrel.

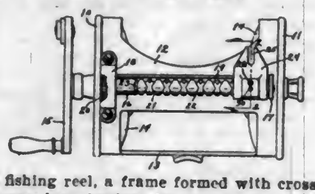
1,663,800. FREE-SPOOL LEVEL-WIND FISH REEL. JOE KAUTZKY, Jr., Fort Dodge, Iowa. Filed July 19, 1924, Serial No. 727,075. Renewed Mar. 23, 1927. 7 Claims. (Cl. 242—84.4.)

1. In a fishing reel, a frame, a winding shaft journaled therein, a crank on said shaft, a winding gear fixed to said shaft, a member mounted for rotation in said frame, means connecting said rotary member with said winding gear whereby said member may be rotated in one direction when said crank is turned manually, a friction spring engaging said winding gear, means to limit rotation of said spring with said gear in both directions, and a retractile spring connected with said friction spring and with said frame and acting to produce



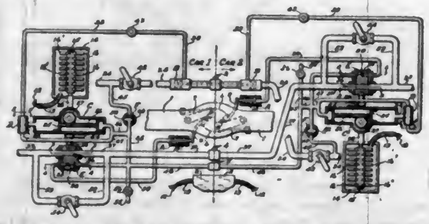
a snap reverse movement of said winding gear and of said rotary member when force is released from said crank.

1,663,801. FREE-SPOOL LEVEL-WIND FISH REEL. JOE KAUTZKY, Jr., Fort Dodge, Iowa. Original application filed July 19, 1924, Serial No. 727,075. Divided and this application filed May 1, 1926. Serial No. 105,980. 8 Claims. (Cl. 242—84.4.)



1. In a fishing reel, a frame formed with cross-bars, the forward cross-bar having its upper margin concaved substantially throughout its length, whereby an unguided line engaging said bar at any point substantially removed from its center tends to travel toward the longitudinal center of the frame.

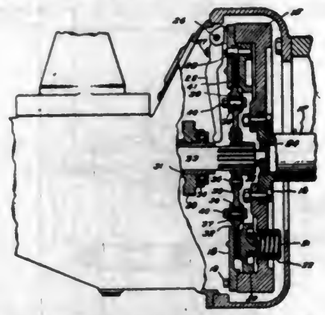
1,663,802. CAR, AIR, AND ELECTRIC COUPLER SYSTEM. ERNST A. LARSSON, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Apr. 12, 1927. Serial No. 183,145. 23 Claims. (Cl. 213—76.)



1. In a car, air and electric coupling system, electric circuits, a switch in said circuits, air-brake lines, a valve in each of the lines, a car coupler, a pneumatic uncoupling device for the car coupler, a pneumatically operated device to move the switch to its open position and simultaneously one of the said valves to its closed position, piping connecting the last said actuating device and one of the air-brake lines, a controlling valve in said piping, piping connected to the uncoupling device under control of the said controlling valve and means interposed in the last said piping to control the flow of air therein such that the air to the said uncoupling device is permitted to flow thereto when the switch moves to its open position.

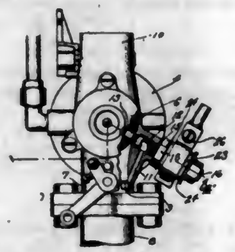
1,663,803. CLUTCH CONSTRUCTION. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Nov. 1, 1926. Serial No. 145,500. 11 Claims. (Cl. 192—68.)

2. A clutch driven member comprising an outer portion having a generally circular inner edge and an inner portion having a generally circular outer edge lying inwardly of and adjacent to said inner edge, resilient blocks interposed between said edges to effect a cushioned drive



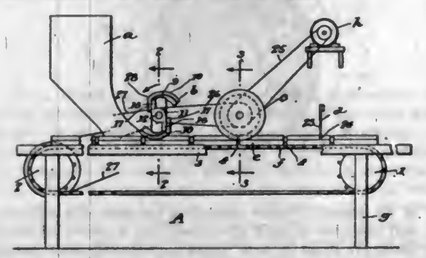
between said portions, and means slidably engaging said portions for preventing axial displacement of one of said portions relative to the other thereof.

1,663,804. CARBURETOR ATTACHMENT. MITCHELL MACKIE, Waukesha, Wis., assignor to Mitchell Mackie Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 19, 1922. Serial No. 562,195. 4 Claims. (Cl. 261—12.)



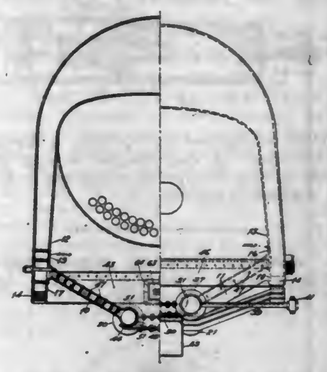
1. The combination with a carburetor having a fuel mixture passage adapted for connection with an engine intake manifold, a throttle valve in the passage for controlling the volume of air and fuel supplied the engine and a by-pass formed in the wall of the fuel mixture passage and leading direct from the fuel supply to the fuel mixture passage near the engine side of the throttle valve, of means for heating only the fuel passing through the by-pass and including an electrical heating member.

1,663,805. DEVICE FOR FORMING SLABS. GEORGE C. MARTIN, Los Angeles, Calif. Filed Oct. 11, 1926. Serial No. 140,812. 4 Claims. (Cl. 25—43.)



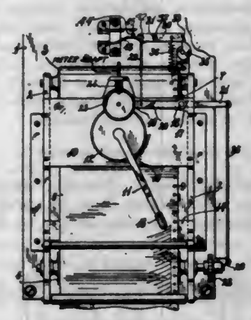
1. In a device of the character disclosed, a conveyer, a packer head comprising two oppositely disposed spiral packer blades, and means for moving said conveyer and rotating said packer head whereby any material upon said conveyer will be acted upon by said packer head to compress said material and shape the same.

1,663,806. BOILER. JESSE C. MARTIN, Jr., San Francisco, Calif., assignor to John Morris, Los Angeles, Calif. Filed Nov. 19, 1926. Serial No. 149,365. 13 Claims. (Cl. 122—58.)



1. In a locomotive fire tube boiler including a barrel and a firebox having water legs, a water bottom for said firebox carried by the side sheets thereof and communicating with said water legs and a water passage from the barrel to said bottom providing for the flow of water from the barrel through said bottom into said legs.

1,663,807. CHART-RECORDING METER. FRANZ MAURER, Zug, Canton of Zug, Switzerland, assignor to the Firm Landis & Gyr A.-G., Zug, Switzerland. Filed June 16, 1922, Serial No. 568,822, and in Switzerland June 20, 1921. 3 Claims. (Cl. 234—5.5.)



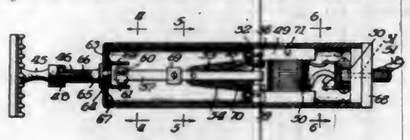
1. An electricity meter, chart feeding mechanism, a recording means, means for connecting and disconnecting the said meter and said recording means and including a spindle, a clockwork, an electric motor to rewind the clockwork, a contact device in circuit with said motor, and a controlling device comprising two levers arranged side by side, and a cam driven by the clockwork and on which one end of each of said levers is arranged for operation, one of said levers being provided at its opposite extremity with a fixed pivot, and the other lever being linked to the first named lever and being also arranged to actuate said contact device for controlling the electric motor and being connected to said spindle.

1,663,808. [WITHDRAWN.]

1,663,809. ELECTRIC SAFETY RAZOR. SAMPSON W. MOON, Chicago, Ill. Filed Apr. 3, 1925. Serial No. 20,343. 2 Claims. (Cl. 30—12.)

1. In an electric safety razor, a hollow grip having an end wall, an abutment member disposed within said grip

in proximity to said end wall, a tool post having a shoulder thereon rigidly and directly attached to said abutment member, said end wall being clamped between



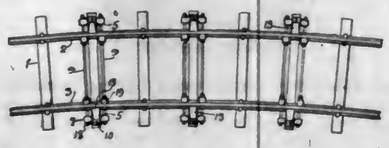
said abutment member and said shoulder, a shaving blade head on said post, an electromagnet in said grip, and an armature for said electromagnet mounted to strike said abutment member on actuation.

1,663,810. **ELECTRIC HEATER.** STERNE MORSE, Cleveland Heights, Ohio. Filed Feb. 6, 1926. Serial No. 86,413. 14 Claims. (Cl. 219—37.)



1. In an electrical heating unit adapted to maintain substantially constant temperatures, in combination, a plurality of electrically conductive resistor bodies, confining means disposed in electrical insulating and heat receiving relation to said resistor bodies and adapted to place said bodies under a predetermined initial pressure, said confining means being adapted to vary the pressure between said resistor bodies inversely with the variation in temperature of said confining means.

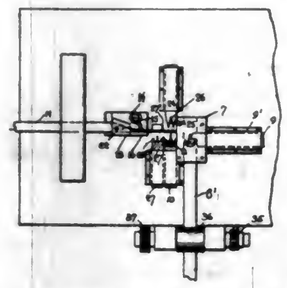
1,663,811. **RAILWAY-RAIL BRACE.** JOHN G. MUELLER, Dayton, Ohio. Filed May 10, 1926, Serial No. 107,924. Renewed Aug. 22, 1927. 12 Claims. (Cl. 238—53.)



1. In a railway rail brace, the combination with threaded tie rods, of base plates adapted to be mounted on said tie rods on the outside of the track rails, a brace member proper separate from said base plate and extending between each base plate and adjacent rail, and adjustable means to position said brace members with respect to rails of different sizes and to maintain them at an incline rigidly in engagement with said base plate and rails to prevent the latter from spreading.

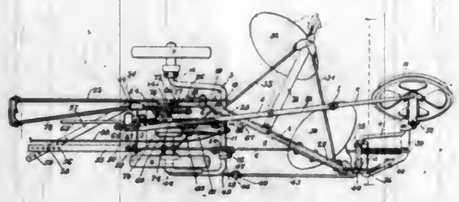
1,663,812. **MACHINE FOR PUNCHING STAPLES AND PROVIDING THE SAME WITH WOOD-FIBER INSULATION.** GEORGE A. PARKER, Brockton, Mass. Filed Aug. 3, 1926. Serial No. 126,872. 5 Claims. (Cl. 59—72.)

1. In a machine for manufacturing staples with a fiber insulation, means for feeding a metal strip, means for punching staples successively therefrom, means for feeding a wood fiber strip, means for feeding the staples into alignment with successive end portions of the wood



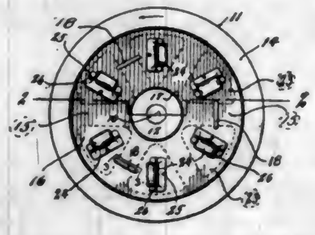
fiber strip, and means for driving the staples successively through successive end portions of the wood fiber strip and thereafter severing said end portions.

1,663,813. **RIDGER.** WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 9, 1922. Serial No. 567,160. 2 Claims. (Cl. 97—53.)



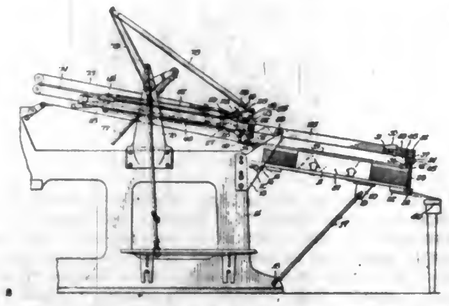
1. In a gang plow, including a wheel-supported diagonal plow beam and two plowing disks, the combination therewith of an arm rigidly supported on the beam and extending furrowwardly, braces secured to said arm adjacent the outer end thereof and to the beam, and means to secure one of said disks to the outer end of the arm furrowwardly of the other disk to operate toward the other disk and in an opposite direction to the operation thereof.

1,663,814. **FLYWHEEL.** JACOB RANZ, St. Louis, Mo. Filed Sept. 10, 1926. Serial No. 134,643. 5 Claims. (Cl. 74—6.)



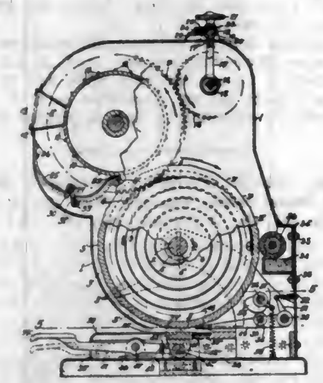
1. A fly wheel, a plate extending between the hub portion and the rim of said fly wheel, and a series of hand-hold members fixed to said plate and spaced equi-distant about the axis of said wheel, each of said hand-hold members being formed with a shoulder portion presented rearwardly with respect to the direction of rotation of said fly wheel and having its forward and end faces inclined downwardly and forwardly and terminating in marginal flanges adapted to be secured to said plate.

1,663,815. **DELIVERY MECHANISM FOR PRINTING PRESSES.** FRANK E. RICH, Chicago, and FRED C. BURDICK, La Grange, Ill., assignors to The Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1925. Serial No. 60,031. 9 Claims. (Cl. 271—84.)



1. In combination with a press or the like, a reciprocating delivery frame, means to deliver sheets to the reciprocating frame, stop means carried by the frame and adapted to retain sheets thereon, means adapted to move the stop means to release the sheets at a predetermined point in the operation, and means adapted selectively to prevent release by the stop means.

1,663,816. **APPARATUS DESTINED TO PROTECT CHECKS AND SIMILAR DOCUMENTS.** ALBERTO BONAVIA Y RIPOLL and ARTURO BONAVIA Y RIPOLL, Habana, Cuba. Filed July 28, 1926, Serial No. 125,501, and in Cuba July 12, 1926. 1 Claim. (Cl. 101—19.)



In a check printing machine, the combination of a series of printing wheels each of which is provided with a series of characters, a series of indicating wheels, each of which is provided with a series of indicating characters and engages one of said printing wheels, a movable setting wheel for successively bringing each printing character into printing position and simultaneously bringing a corresponding indicating character into an indicating position, a member for imprinting said printing characters on a check, means for engaging each of said indicating wheels to retain said printing wheels in set position, spring means for returning said printing wheels to zero position, and means for simultaneously releasing all of said retaining means, whereby said printing wheels are returned to zero position.

1,663,817. **PROCESS FOR THE MANUFACTURE OF FARNESOL.** LEOPOLD RUZICKA, Zurich, Switzerland, assignor to M. Naef & Co., Geneva, Switzerland, a Corporation of Switzerland. Filed Mar. 19, 1924, Serial No. 700,440, and in Switzerland Mar. 22, 1923. 2 Claims. (Cl. 260—153.)

1. A process for the manufacture of farnesol consisting in causing acetic acid anhydride to react upon nerolidol.

1,663,818. **PROCESS FOR THE MANUFACTURE OF FARNESOL.** LEOPOLD RUZICKA, Geneva, Switzerland, assignor to M. Naef and Cie., Geneva, Switzerland, a Company of Switzerland. Original application filed Mar. 19, 1924, Serial No. 700,440, and in Switzerland Mar. 22, 1923. Divided and this application filed Oct. 2, 1925. Serial No. 60,117. 1 Claim. (Cl. 260—153.)

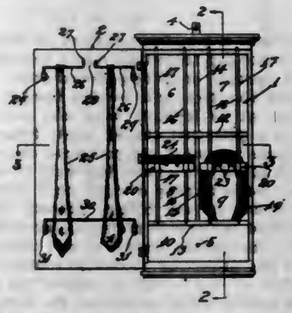
A process for the manufacture of farnesol consisting in causing glacial acetic acid to react upon nerolidol.

1,663,819. **SHADE.** WILLIS S. SHAFT, Faribault, Minn. Filed Nov. 14, 1923. Serial No. 674,761. 2 Claims. (Cl. 156—16.)



1. A shade structure comprising a foldable shade, control cords therefor, a single channel iron adapted to be positioned at the top of a window frame in an inverted position with its open side toward the shade and of a length approximately equal to the width of the window frame, and sets of guide rollers supported by the flanges of said channel iron in spaced relation with each other and the side wall of the channel iron to confine said control cords which pass over said rollers.

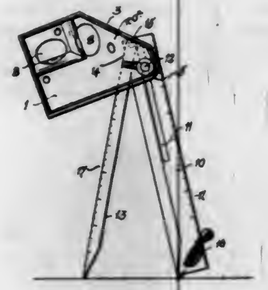
1,663,820. **CABINET.** JAMES F. SYKES, Pittsburgh, Pa. Filed Sept. 10, 1926. Serial No. 134,612. 1 Claim. (Cl. 312—172.)



In a cabinet, a box-portion and a door therefor; said box-portion comprising a plurality of compartments for

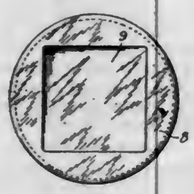
storing collars; a pair of vertical rods disposed in spaced parallel relation in each of said compartments and adapted to hold collars therein; a collar-support comprising a frame having two resilient side-members each provided with a sleeve-portion adapted for frictional engagement on said rods for the purpose of maintaining said collar-support at any selected height.

1,663,821. COMBINATION TOOL. UNO E. TUOMI, Dallas, Tex. Continuation of application Serial No. 52,450, filed Aug. 25, 1925. This application filed Sept. 4, 1926. Serial No. 133,650. 4 Claims. (Cl. 33—98.)



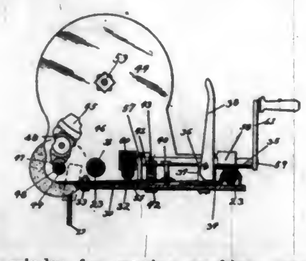
4. A tool of the character described, comprising a plate having a slot along one edge, a two-part blade pivoted in the slot, said blade having a perforation in its free end, and a pin removably mounted in said perforation.

1,663,822. FRUIT JAR OR CONTAINER. WILLIAM G. WALKER, Minneapolis, Minn. Filed Aug. 26, 1925. Serial No. 52,586. 1 Claim. (Cl. 215—1.)



In combination, a receptacle adapted to have a member applied to the top thereof by rotary motion, a polygonal shaped portion projecting downwardly from the bottom of said receptacle and forming therewith a right angle shoulder at its juncture with said bottom and a holder having a polygonal shaped recess formed therein of such shape as to receive the polygonal shaped portion on the bottom of said receptacle, the walls of said holder adjacent said recess forming a right angle shoulder with the upper surface of said holder, whereby as said receptacle is placed so the said projecting portion fits within said recess the bottom surface of said receptacle outwardly from said projecting portion will bear directly on the top surface of said holder to support the receptacle and act as a base of resistance against the bottom of said jar while said projecting portion and said recess will cooperate to hold said receptacle from turning movement.

1,663,823. LAWN-MOWER GRINDER. PHILIP A. ANDERSON, Atlantic, Iowa. Filed May 8, 1925. Serial No. 28,858. 3 Claims. (Cl. 51—249.)

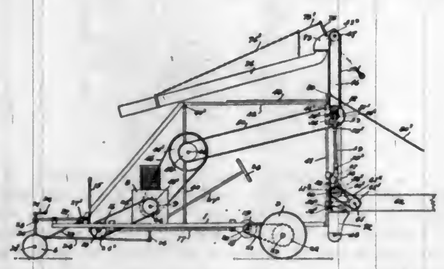


1. In a grinder for mowing machines comprising a supporting frame, means for securing said frame to a lawn mower having a rotatively mounted cutter bar, a pair of guide bars in said frame arranged parallel with the axis of said cutter bar and in fixed relation therewith, a grinder frame pivotally and slidably mounted on one of said guide bars, a grinder mounted in said frame, said grinder being so located that when the said frame is adjusted about its pivot the grinder will be moved toward and from said cutter bar, a plate having one edge pivotally mounted to the inner edge of said grinder frame, a bearing plate slidably mounted on the other of said guide bars, means carried by said bearing plate for moving said first plate toward and from said second guide bar, the outer edge of said grinder frame being provided with a set screw designed to engage said first plate for adjusting said grinder frame relative to said first plate, and a spring for yieldably holding the outer end of said grinder frame inwardly toward said first plate.

1,663,824. ROAD-MAKING MATERIAL. HECTOR AMPHION BATTALIOU, Cape Town, Cape Province, South Africa. Filed Jan. 14, 1924. Serial No. 686,201. 5 Claims. (Cl. 94—19.)

1. A binding material for macadam, comprising a mixture of approximately 37 per cent sand, 35 per cent calcium carbonate, 15 per cent iron oxide, and 12 per cent aluminum silicate, all the ingredients being in the form of particles not exceeding ¼ inch in greatest dimension.

1,663,825. GRAIN LOADER. WILLIAM C. BENJAMIN, Unity, Saskatchewan, Canada. Filed Jan. 3, 1927. Serial No. 158,708. 4 Claims. (Cl. 198—72.)



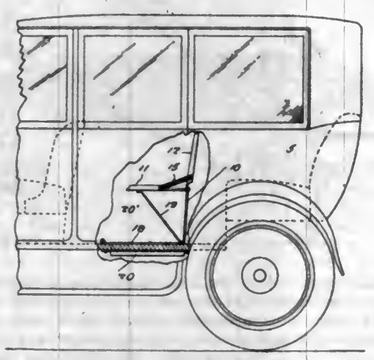
1. In a grain loader, in combination, a portable frame, an upright driven grain elevator carried by the frame, a rearwardly extending adjustable grain driven conveyor delivering grain to the lower end of the elevator, a driven grain pick up conveyor carried by the rear end of the latter conveyor and delivering to the same and a pivoted discharge spout suspended from and receiving grain from the upper end of the elevator.

1,663,826. TOOL HANDLE. EMANUEL ROY BIER, Winnipeg, Manitoba, Canada. Filed Nov. 5, 1926. Serial No. 146,463. 3 Claims. (Cl. 32—10.)



1. A tool handle embodying a bulbous portion having a major and a minor axis and tapering towards the ends and adapted to fit the tightly closed hand and a neck portion interposed between the bulbous portion and the tool and adapted to be tightly gripped between the thumb and forefinger, said neck portion having a major and a minor axis and with the major axis disposed at right angles to the major axis of the bulbous portion.

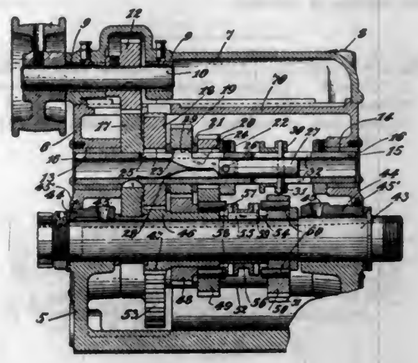
1,663,827. FOLDING-SEAT CONSTRUCTION FOR AUTOMOBILE BODIES. FRANK BUNEVAC, St. Louis, Mo. Filed Jan. 4, 1927. Serial No. 158,896. 1 Claim. (Cl. 155—32.)



In a seating arrangement for an automobile wherein the floor board thereof is provided with an opening, a folding seat unit including a seat board, a back rest, and a supporting standard, said standard being hingedly secured at its lower end within the opening and said seat board and back rest being hinged to the upper end of the standard, a lid for closing the opening when the seat is disposed therein or raised therefrom, said lid hinged to the floor board adjacent the end of the opening remote from the hinged point of the standard; and a brace bar associated with the lid for engagement beneath the seat for supporting the same in rigidly set up condition, said brace bar hinged to the free end of the lid and adapted in one position to rest under the seat board for the support of the board and in another position to be folded under the lid and be received in said opening.

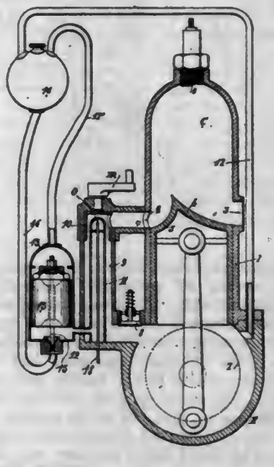
1,663,828. LATHE HEADSTOCK. HUBERT DALTON, Stamford, Conn. Filed June 5, 1925. Serial No. 35,043. 2 Claims. (Cl. 82—29.)

1. In a lathe head stock, a housing, a head stock spindle mounted in said housing and having drive gearing thereon, a countershaft mounted in the housing, selective speed change gearing on said countershaft engaged with the gearing on said spindle, an additional gear fixed to the countershaft, said housing including an upper removable section, drive means mounted in said removable housing section and having a gear engaged with the fixed gear on the countershaft, an additional shaft mounted in



said housing, a pair of gears loosely mounted thereon, one of said gears being engaged with the fixed gear on the countershaft, said top section of the housing with said drive means adapted to be removed and an electric motor substituted therefor, the motor shaft being provided with a gear adapted for engagement with the other of said last named gears.

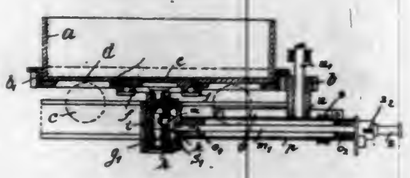
1,663,829. TWO-STROKE INTERNAL-COMBUSTION ENGINE. EMILE DUTEL, St.-Laurent du Var, and JEAN MARC PERDONCINI, Nizza, France. Filed Mar. 30, 1925, Serial No. 19,344, and in France Apr. 7, 1924. 2 Claims. (Cl. 123—73.)



1. A two-stroke internal combustion engine of the type set forth, in which the air is compressed in the crank case during the working stroke and, at the end of this stroke at the moment of the admission, passes from the crank case into the explosion chamber of the cylinder, comprising an air inlet automatic valve disposed to let enter the atmospheric air into the crank case during the return stroke, a fuel conduit leading from the fuel tank to the bottom of the float chamber, a conduit for equalizing the pressure between the fuel tank and the float

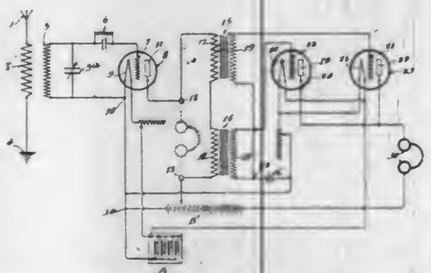
chamber, a conduit for equalizing the pressure between the crank case and the fuel tank, both said conduits for equalizing the pressures between the fuel tank and the float chamber and between the crank case and the fuel tank respectively being distinctly separate from each other, whereby the equilibrium between said fuel tank and said float chamber is obtained.

1,663,830. DISCHARGING CLOSURE FOR MIXING MACHINES. LUDWIG EIRICH and JOSEPH EIRICH, Hardheim, Germany. Filed July 8, 1926, Serial No. 121,181, and in Germany Nov. 13, 1924. 7 Claims. (Cl. 259—30.)



5. The combination with a rotatable receptacle of a rotatably mounted closure therefor, rotatable with the receptacle means to withdraw the closure from the receptacle and means to move the closure out of the path of the material issuing from the receptacle.

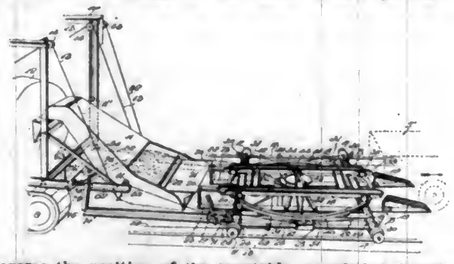
1,663,831. APPARATUS FOR PRODUCING SOUND. FRITZ W. FALCK, Los Angeles, Calif., assignor of one-half to David M. Palmer, Los Angeles, Calif. Filed Feb. 18, 1924. Serial No. 693,646. 1 Claim. (Cl. 179—171.)



In a wireless receiving circuit, the combination with a detecting circuit, of an audio frequency amplifying circuit comprising audio frequency transformers having their primaries disposed in series in an output portion of said detector circuit and having their secondaries connected to the grids of separate audions, said transformers being inadequate to separately handle the current without distortion, the plates of said audions being directly connected together so that the plates operate at the same potential and provide a unit output circuit for said audio frequency amplifying circuit, whereby the load on each transformer is reduced to prevent distortion from saturation of the cores thereof.

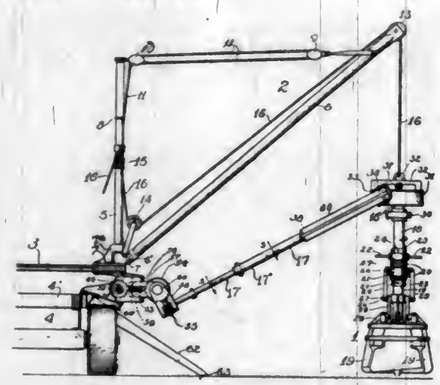
1,663,832. TURNTABLE EQUIPMENT FOR PAVING AND ANALOGOUS MACHINES. BENJAMIN H. FLYNN, Newkirk, Okla. Filed July 8, 1926. Serial No. 121,203. 23 Claims. (Cl. 214—17.)

1. In combination with a cement mixing machine; a truck turntable adjacent said machine upon which to forwardly drive a loaded truck, and means operatively connecting said turntable with a movable portion of said machine for utilizing the movement of said portion to



reverse the position of the turntable, permitting dumping of the truck at the most advantageous position and allowing forward driving of said truck from the turntable.

1,663,833. EARTH-BORING MACHINE. GILBERT GENUNG, Chicago, Ill., assignor to John M. Humiston, Berwyn, Ill. Filed Feb. 27, 1925. Serial No. 12,094. 5 Claims. (Cl. 255—19.)



1. An earth boring machine comprising a mobile support, a derrick mounted thereon, an auger carried by said derrick and a combination power drive and torque reactor shaft operably connecting said auger and support, said shaft being telescopically extensible and provided with anti-friction bearings for the extension joint.

1,663,834. FOUNTAIN-PEN-SHAPED PISTOL. BYRON C. GOSS, Cleveland, Ohio. Filed June 15, 1926. Serial No. 116,204. 3 Claims. (Cl. 42—1.)

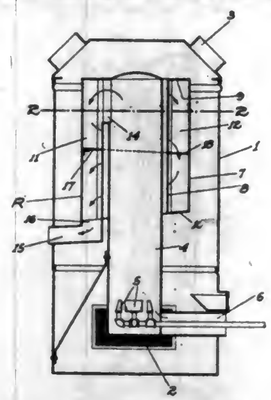


1. A fountain pen shaped pistol, comprising a fountain pen shaped barrel, a fountain pen shaped stock, co-operating cone-shaped engaging elements on said barrel and stock with a pin on the barrel and a co-operating re-entrant slot on the stock, said stock containing a spring controlled trigger, and means to retain said trigger in a retracted position.

1,663,835. GAS FURNACE. GEORGE S. HALL, Chico, Calif. Filed Sept. 22, 1926. Serial No. 136,954. 5 Claims. (Cl. 126—116.)

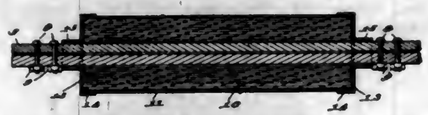
1. In a gas furnace, a radiator comprising a vertical member having spaced walls closed at top and bottom and arranged to form a continuous chamber surrounding a hollow area, a gas intake passage adjacent the upper

end of the radiator on one side thereof, a baffle across the chamber intermediate the top and bottom thereof and having an opening therethrough at the side of the



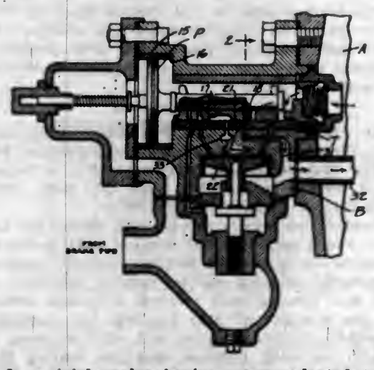
chamber opposite to the gas intake, said baffle having a downward slant toward the opening, and a gas outlet leading from the bottom of the radiator, said bottom having a downward slope toward the outlet.

1,663,836. CARPET ROLLER. NATHANIEL HALL, Annapolis, Md. Filed June 11, 1926. Serial No. 115,227. 1 Claim. (Cl. 242—68.)



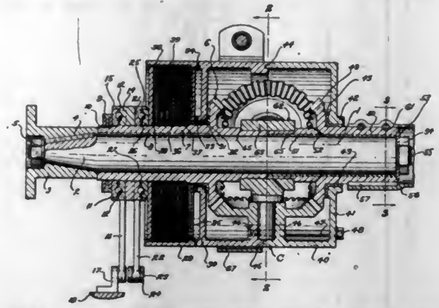
In combination, a longitudinally split pole having its sections hingedly connected with bolts removably extending through each end thereof for securing the sections in closed position, said pole constituting a roller about which to support a quantity of fabric in roller position, a pair of plates arranged on the pole provided with inwardly extending flanges adapted to overlap the edges of the fabric and a pair of split collars mounted on the pole outwardly of said plates having shoulders formed thereon providing clamping means for securing the collars in adjusted position on the pole.

1,663,837. TRIPLE VALVE. HENRY HANSEN, Bisbee, Ariz. Filed Jan. 18, 1927. Serial No. 161,895. 4 Claims. (Cl. 303—65.)



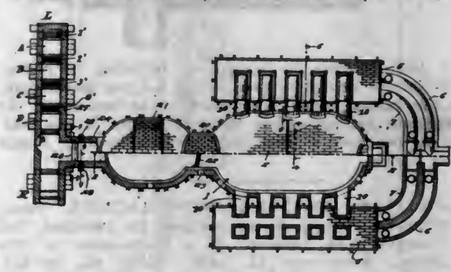
3. In a triple valve having means adapted to admit fluid pressure to a brake cylinder when the valve is in service application position, means adapted for admitting fluid pressure to an auxiliary reservoir for recharging the latter when the valve is in full release and charging position and means adapted for trapping fluid-pressure in the brake cylinder when the valve is in full release and charging position and for exhausting it from the brake cylinder only when the valve is in retarded release position.

1,663,838. TRANSMISSION MECHANISM. KENNETH R. HARMON, Norfolk, Va. Filed May 3, 1927. Serial No. 188,535. 1 Claim. (Cl. 74—34.)



In a device of the class described, a tubular casing comprising longitudinally separable sections, one section having an end wall, and the other section being provided intermediate its ends with a partition, reversing mechanism including a beveled pinion having a hub the outer end of which is journaled in the partition, and a beveled pinion having a hub the outer end of which is journaled in the end wall, a beveled gear meshing with the pinions; a spider including an arm whereon the gear is journaled, the arm being carried by a collar receiving the inner ends of the hubs of the pinions rotatably, the outer end of the arm being mounted between the sections of the casing, and means for holding the sections of the casing together releasably on the arm; a shaft in the hubs, the hub of the first-specified pinion being secured to the shaft, and the hub of the second-specified pinion being rotatable with respect to the shaft, a clutch for which the partition forms an abutment, the clutch connecting the casing with the hub of the first-specified pinion, the clutch being housed within the casing on one side of the partition, and the reversing mechanism being housed within the casing on the other side of the partition, means for forcing the clutch into abutting relation to the partition, thereby to operate the clutch, and means under the control of an operator for restraining the rotation of the casing when the clutch is in inoperative position.

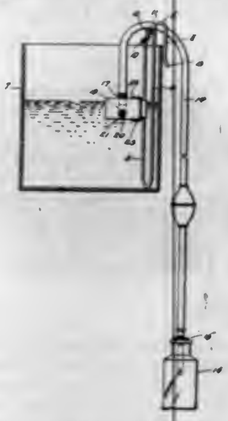
1,663,839. GLASS FURNACE. THOMAS B. HART, Libow, W. Va., assignor of one-half to Blackford Window Glass Company, Vincennes, Ind., a Corporation. Filed Nov. 6, 1925. Serial No. 67,265. 31 Claims. (Cl. 49—54.)



1. In a glass furnace, a melting furnace, a drawing tank in communication therewith divided into a series of alternating reheating chambers and drawing wells and

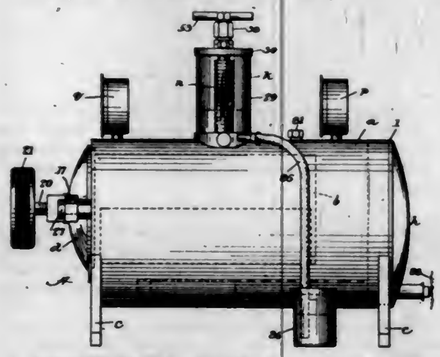
a separate and distinct heating means for each of said wells constructed to supply heat thereto proportionate to the depreciation of the glass flowing through the tank, to retain said glass in a uniform texture throughout the various wells in the process of drawing.

1,663,840. SIPHON. FRANK J. HAVELICK, Billings, Mont., assignor to Sara M. Havelick, Billings, Mont. Filed Apr. 21, 1927. Serial No. 185,592. 6 Claims. (Cl. 137—20.)



1. A siphon comprising a float to rest on the liquid to be siphoned, a flexible siphon tube connected with said float, an anti-friction tube guide over which to pass the tube, and means for holding said tube guide in position at the upper end of the receptacle from which the liquid is to be siphoned.

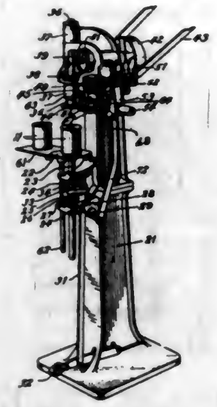
1,663,841. STERILIZER. GEORGE M. HOLLENBACK, Los Angeles, Calif., assignor of one-half to David W. McLean, Los Angeles, Calif. Filed June 1, 1925. Serial No. 34,025. 3 Claims. (Cl. 167—3.)



1. Improvements in sterilizers, including a casing, a diaphragm carried by such casing, heating means within the casing, means controlled by movement of the diaphragm for controlling the temperature of the heating means, and a sterilizing chamber member within such casing.

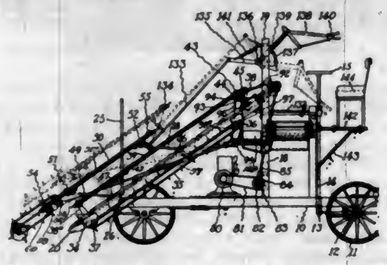
1,663,842. DOUBLE-SEAMING MACHINE. FELIX HUNTAR, Hillside, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,251. 14 Claims. (Cl. 113—23.)

1. In an apparatus for double seaming can ends to can bodies, the combination of, clamping devices for clamping a can body and end applied thereto, means for rotating said clamped body and end, first and second operation seaming rolls, and a manually operable worm gear device for slowly moving said first and second



operation seaming rolls successively into seaming position, said manually operable device being connected to said seaming rolls and insuring sufficient duration of operation of each roll at the maximum speed at which said device may be manually operated.

1,663,843. THREE-ROW CORN HUSKER. PHILIP IMIO, Minier, Ill. Filed Mar. 18, 1921. Serial No. 453,341. 7 Claims. (Cl. 56—106.)

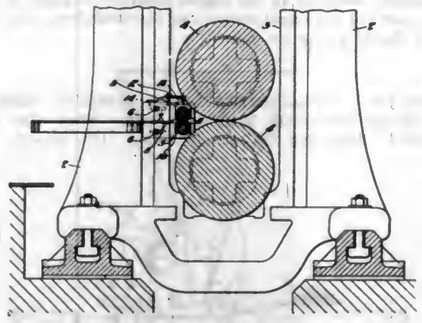


1. In a three row corn harvester, three individual ear snapping mechanisms including thereon frame portions, snapping rolls, conveyors adjacent said rolls, stalk supporting chain members mounted above said rolls, stalk raising mechanism, including means permitting its adjustment as a unit with relation to said snapping rolls, supporting means for the various snapping mechanisms, a transverse conveyor member, a husking mechanism on said transverse conveyor, a base portion for the snapping mechanism, and load carrying wheels supporting said base portion.

1,663,844. ROLLING-MILL APPLIANCE. WILLIAM A. IRVIN, Pittsburgh, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 28, 1925. Serial No. 59,111. 1 Claim. (Cl. 80—43.)

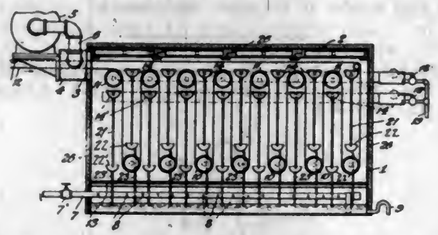
The combination with a roll housing having the usual windows, and a pair of metal working rolls mounted in said housing, of a pair of bearing brackets removably and adjustably mounted one on each of the outer side faces of said housing, said brackets extending inwardly beyond the windows of said housing, the portions of said brackets extending beyond said windows being provided with vertically disposed openings, bearing blocks mounted in said openings, a pair of idler pinch rollers of equal length with said metal working rolls and arranged parallel with said working rolls and journaled

in said bearing blocks, said pinch rollers being positioned within the confines of said roll housing and in close proximity to the bite of said metal working rolls,



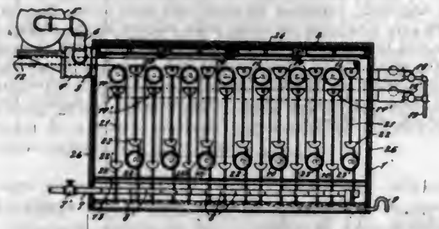
leaf springs secured to said brackets and having one end arranged to exert a tension on one of said pinch rolls to force said roll toward the other roll, and means for adjusting the tension of said springs.

1,663,845. PROCESS FOR TREATING PRINTED OR DYED FABRICS. RAYMOND W. JACOBY, Forest Hills, N. Y., assignor to The Deltex Co., a Corporation of Massachusetts. Filed May 3, 1926. Serial No. 106,394. 5 Claims. (Cl. 8—5.)



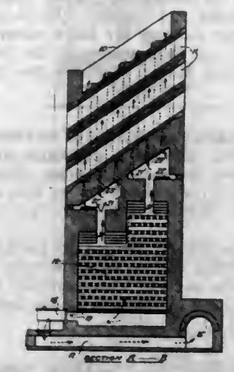
1. In the process of aging or reducing printed or dyed fabric, the step which comprises causing the excess heat of chemical reactions to be absorbed by supplying moisture in the immediate vicinity of the points where said reactions take place, so that its evaporation will absorb the excess heat thereof and maintain the heat carrying medium as a saturated vapor.

1,663,846. APPARATUS FOR TREATING PRINTED OR DYED FABRICS. RAYMOND W. JACOBY, Providence, R. I., assignor to The Deltex Company, a Corporation of Massachusetts. Original application filed May 3, 1926, Serial No. 106,394. Divided and this application filed Aug. 13, 1927. Serial No. 212,822. 5 Claims. (Cl. 8—15.)



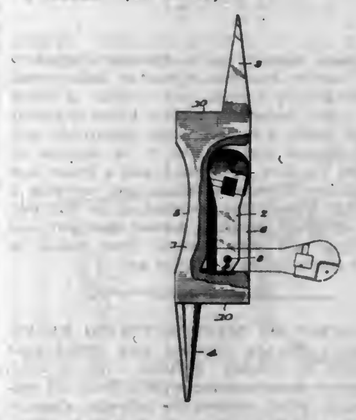
5. Improvements in apparatus for treating fabrics, which comprises, a casing forming a substantially closed chamber, means for passing the fabric therethrough in successive runs, a trough located in the space between the runs of said fabric, a sheet of capillary material entering said trough for conducting the liquid contained therein downward and distributing the same uniformly in said space, and a receptacle located below said sheet for receiving and conducting away the excess liquid discharged from said sheet.

1,663,847. GAS RETORT. HEINRICH KOPPERS, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1921, Serial No. 497,363, and in Germany Mar. 6, 1918. 7 Claims. (Cl. 202—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a gas retort construction, in combination: a plurality of retort chambers assembled in a joint envelope; heating flues surrounding said retort chambers, said flues being operatively disposed into reversibly-operable inflow and outflow groups; reversibly-operable regenerators operatively disposed into interchangeable outflow and inflow groups the reversal being laterally to said retort, the inflow-operating group embodying gas and air regenerators; a front and a back pair of distributing chambers communicably connected with said gas regenerator and each one of said pair with one of two series of inflow-operating flues; and a front and a back single distributing chamber interposed between the two aforesaid distributing chambers and communicably connected with both the air regenerator and with the two series of inflow-operating flues; substantially as specified.

1,663,848. COMBINATION TOOL. MIKE KOSKE, McCloud, Calif. Filed Nov. 30, 1925. Serial No. 72,273. 2 Claims. (Cl. 7—17.)



1. A combination tool comprising an elongated body portion forming a hand grip provided with flat end faces, and tool elements projecting longitudinally of and from

each end of the hand grip and disposed with their longitudinal axes in parallel offset relation, said tool elements at their base portions being of less area than the flat end faces of the hand grip for providing driving butts at each end of the hand grip arranged in longitudinal alignment with the tool element carried by the opposite end of the hand grip.

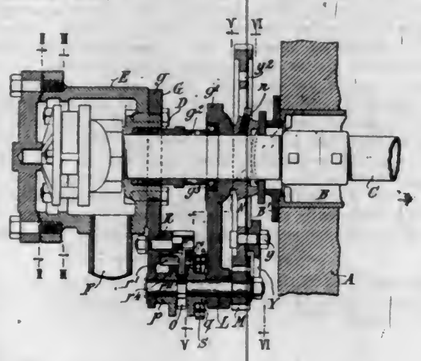
1,663,849. PROCESS FOR DYEING FUR PELTS. GEORGE J. LAEMMLE, New Rochelle, N. Y., assignor to Barnet Leather Company, Inc., New York, N. Y., a Corporation of Delaware. Filed July 27, 1927. Serial No. 208,898. 11 Claims. (Cl. 8—5.)

1. A process for coloring fur pelts comprising applying color matter on the surface of the hair through foraminous material having relatively fine passages.

1,663,850. PROCESS FOR STENCIL DYEING DESIGNS ON FUR PELTS. GEORGE J. LAEMMLE, New Rochelle, N. Y., assignor to Barnet Leather Company, Inc., New York, N. Y., a Corporation of Delaware. Filed July 27, 1927. Serial No. 208,899. 16 Claims. (Cl. 8—5.)

1. A process for making designs on fur pelts comprising applying coloring matter to the surface of the hair through foraminous material with relatively fine passages therethrough, outlined in the form of the design.

1,663,851. BOILER SOOT CLEANER. FREDERICK W. LINAKER and THEODORE M. BRUBACK, Du Bois, Pa. Filed Sept. 25, 1923. Serial No. 664,688. 4 Claims. (Cl. 122—392.)

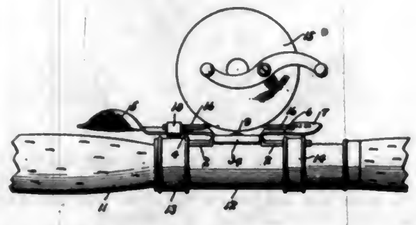


1. A soot cleaner comprising an element adapted to project jets of cleaning fluid into a bank of boiler tubes, means for intermittently turning said element in either direction, said means comprising ratchet levers co-axially pivoted carrying pawls, a ratchet wheel operatively connected to said element and adapted to be engaged by either pawl when its lever is actuated, and a frame supporting said ratchet levers and wheel, and carrying a stop, each of said levers being provided at its hub portion with two shoulders integrally formed therewith and adapted to engage said stop whereby their motion in either direction is limited to a definite arc.

1,663,852. PROCESS OF MANUFACTURING STUFFING. GEORGE J. MILLER, Douglas, Ariz. Filed June 14, 1927. Serial No. 198,865. 5 Claims. (Cl. 18—52.)

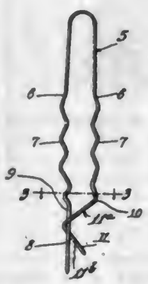
1. The process of manufacturing stuffing from old rubber tires and scrap, which involves the following steps:—soaking the rubber material in kerosene oil until it softens sufficiently to grind easily; grinding the softened mass to a desirable size; treating the ground material to a bath of kerosene oil, maintained at a temperature not to exceed 200° C. for a period of time varying from a few minutes to several hourse until the rubber becomes permanently softened to the degree required to adapt it for its destined purposes; separating the mass from the oil; and finally drying the mass.

1,663,853. ATTACHMENT FOR FISHING REELS. GEORGE NEWVILLE, Muskegon, Mich. Filed May 23, 1927. Serial No. 193,502. 5 Claims. (Cl. 43—22.)



1. A device of the class described comprising, an elongated base, an elongated member of metal lying substantially parallel to and above the base, means for pivotally connecting said members between their ends, means for limiting the pivotal movement of said member with respect to the base and means for detachably connecting a reel to said member in the upper side thereof.

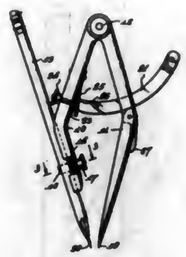
1,663,854. HAIRPIN. FREDERICK P. NIEF, Union City, N. J. Filed Apr. 2, 1926. Serial No. 99,279. 1 Claim. (Cl. 132—50.)



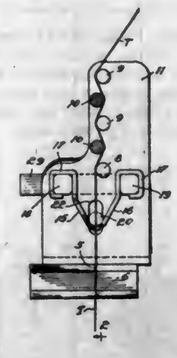
A hair pin embodying a section of wire bent upon itself to provide a pair of spaced legs, said legs being provided in their intermediate portions with crimps, the forward end of one leg being straight and the forward end of the opposite leg being bent into a V-shaped portion including angularly arranged forward and rear arms, the forward arm diverging fowardly with respect to the straight end and the rear arm converging forwardly with respect to the straight end, the straight end extending forwardly to a substantial distance beyond the forwardly diverging arm, said V-shaped portion being adapted to receive the straight end therein.

1,663,855. DIVIDERS. JOHN LAWRENCE O'CONNOR, Portland, Me. Filed Oct. 8, 1926. Serial No. 140,302. 3 Claims. (Cl. 33—149.)

1. A pair of dividers including pivotally connected legs of different lengths, the free end of each leg being angularly offset with respect to the pivoted end thereof, and the longer leg being pointed, means for clamping a marking implement against the outer face of the free end of the shorter leg, said leg section having a groove in its outer face to receive the marking implement, said clamping means including a ring encircling the marking implement and a screw working through said shorter leg for adjusting the ring laterally to move the marking implement against the bottom of the groove.



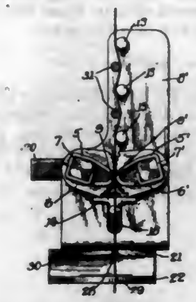
1,663,856. YARN CLEARER OR THE LIKE. BURT A. PETERSON, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 13, 1923. Serial No. 612,428. 20 Claims. (Cl. 28—66.)



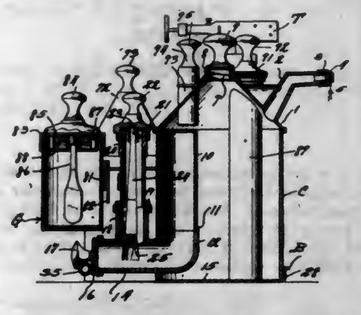
1. A yarn clearer having, in combination, plates 11 and 12, parallel rock shafts journaled in said plates and projecting at one side of said plates, yarn-clearing blades on said projecting shaft portions, a stop finger supported at one end in one of said plates and extending through the other plate so as to be movable relative thereto and projecting between said blades, means for holding said stop finger in adjusted position, and means for holding the blades against the stop finger.

1,663,857. YARN CLEARER OR THE LIKE. BURT A. PETERSON, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Dec. 31, 1923, Serial No. 683,564. Renewed June 6, 1927. 14 Claims. (Cl. 28—64.)

1. A yarn clearer or the like comprising, in combination, a frame, a pair of rock shafts mounted in the frame in spaced paralel relation, a pair of yarn clearing members mounted on said shafts, means operatively connecting said shafts together for operation in unison, means tending to turn said shafts in one direction to move said members apart, and adjustable means for limiting the movement of said members by the last mentioned means.

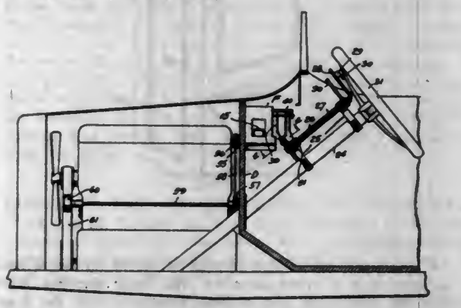


1,663,858. KIT. WILLIAM J. PICKETT, Wilkes-Barre, Pa. Filed May 8, 1926. Serial No. 107,832. 3 Claims. (Cl. 220—20.)



1. A kit comprising a container, a spout communicating with the interior of the container through the top side thereof and having a pouring end disposed beyond the vertical side thereof and a bracket attached to said vertical side at the lower portion of the container, said spout and said bracket serving as means for holding the said side of the container in an inclined position.

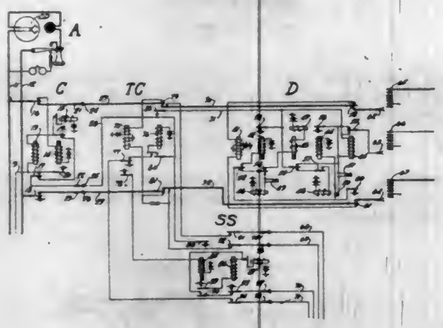
1,663,859. DIRECTION SIGNAL. DON W. PRATT, Santa Monica, Calif. Filed Oct. 21, 1926. Serial No. 143,168. 11 Claims. (Cl. 116—36.)



1. A direction signal for vehicles comprising an arm movable to either of two extreme positions, a signal element on the arm movable relatively to the latter to give

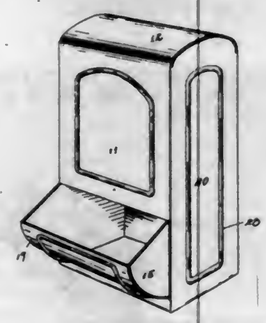
any one of a plurality of signal indications, mechanism for moving the arm in one direction or the other, and manually operable means for actuating the signal element and controlling the mechanism to cause the arm to move first in one direction and then the other.

1,663,860. AUTOMATIC TELEPHONE SYSTEM. RODNEY G. RICHARDSON, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed June 25, 1923, Serial No. 647,453. Renewed June 16, 1927. 42 Claims. (Cl. 179—18.)



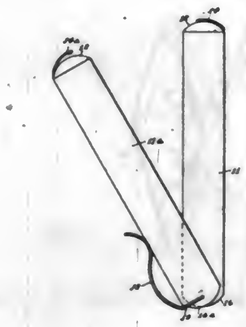
1. In a telephone system in which the telephone numbers are assigned according to a twenty character system of notation, automatic switches operated according to the decimal system of notation, and mechanism for translating from one system of notation to the other to enable the subscribers to operate said switches.

1,663,861. MATCH-BOX HOLDER. GIDEON RIETVELD, Knoxville, Iowa. Filed May 25, 1926. Serial No. 111,529. 6 Claims. (Cl. 206—31.)



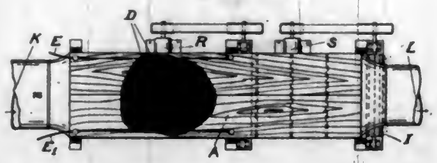
6. A match box holder formed of metal having a back member and a front member, the back member being provided with side and bottom members, and the front member being provided with side and bottom members, said side members being designed to overlap the side members of said back member, the front member being provided with an opening having a match delivery chute.

1,663,862. MAIL BOX. GIDEON RIETVELD, Knoxville, Iowa. Filed Mar. 22, 1927. Serial No. 177,332. 3 Claims. (Cl. 232—28.)



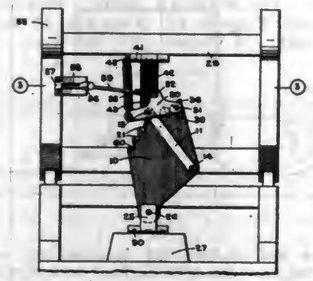
1. In a device of the class described, the combination of a sheet metal back member having its sides extended forwardly and having its top curved upwardly and forwardly and its bottom curved upwardly and forwardly, a front member formed substantially identical with the said back member and having its sides, top and bottom telescopically connected with the corresponding parts of the back member, and means for hinging together the downwardly extended ends of the side members.

1,663,863. PROCESS FOR SEPARATING VARIOUS CONSTITUENTS FROM MIXED MATERIALS AND APPARATUS FOR ACCOMPLISHING SAID SEPARATION. PERCY HOKE ROYSTER and WILLIAM W. ODELL, Minneapolis, Minn. Filed Nov. 28, 1924. Serial No. 752,639. 40 Claims. (Cl. 209—129.)



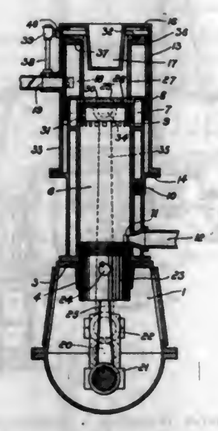
1. The process of separating complex mixtures of materials substantially into their component parts successively and substantially in the order of the magnitudes of their respective dielectric constants, consisting in, suspending the mixture in a suitably fine state of subdivision in a suitable gaseous stream; conducting the resulting suspension through a non-uniform electrostatic field of force of predetermined and controlled nature and intensity but substantially free from electric discharge at a predetermined and controlled velocity; diverting the several constituents of said mixture separately from the weaker to more intense portions of the electrostatic field by means of the electrostatic force of said field acting with greatest intensity upon the dielectrics having the highest dielectric constants; and separating said separately-diverted constituents substantially as described.

1,663,864. ADJUSTABLE SUPPORT OR STAY APPLICABLE TO DROP-END COUCHES. ROBERT RUSSELL, Birmingham, England, assignor to Alfred Henry Redfern, Birmingham, England. Filed Feb. 10, 1927, Serial No. 167,240, and in Great Britain Feb. 11, 1926. 5 Claims. (Cl. 155—113.)



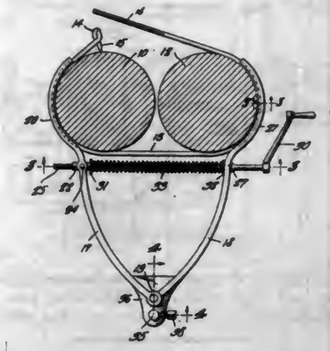
1. A drop-end for furniture comprising two units hinged together and having an adjustable supporting stay, comprising a hinge on each of the relatively adjustable units, an arm pivoted on one of said hinges, a plate pivoted on the other of said hinges, a link connecting said arm with said plate, said link being pivoted to said plate and foldable thereon, the plate having one edge provided with teeth, and a catch having a projection for engaging said teeth, said catch and said link being connected to said arm by the same pivot pin.

1,663,865. INTERNAL-COMBUSTION ENGINE. DAVID THOM SCOTT, Vancouver, British Columbia, Canada. Filed Apr. 5, 1927, Serial No. 181,218, and in Canada Sept. 18, 1926. 2 Claims. (Cl. 123—51.)



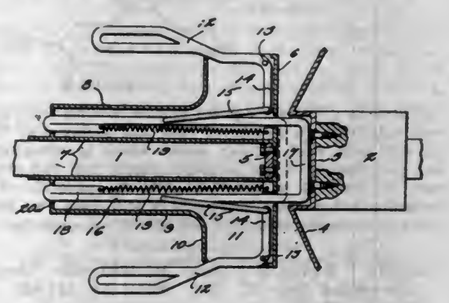
2. In a two stroke internal combustion engine having a crank shaft, opposed crank pins operatively connected to lower and upper pistons endwise movable within a cylinder, an intake head upon the cylinder having ports communicating with an intake pipe adapted to be closed by the upper piston during the major portion of its upward and downward movement, and a by pass tube extending from the intake pipe having a check valve and being in communication with a port adjacent the upper end of the intake head, means for transferring the mixture from the intake head to the cylinder between the pistons, and means for igniting the same and for exhausting the products of combustion from the cylinder.

1,663,866. SPLICING TOOL. JOHN PEMBERTON SNAPP, Limestone, Tenn. Filed May 7, 1926. Serial No. 107,482. 4 Claims. (Cl. 24—252.)



1. In a device of the class described, a pair of pivotally connected legs, jaws formed on the legs and curved in opposite directions, and detachable curved segmental elements carried by said jaws, these elements being channeled longitudinally, and having work engaging surfaces of a curvature differing from the curvature of the jaws.

1,663,867. GATE LATCH. JOHN SWENKA, North Liberty, Iowa. Filed Mar. 10, 1926. Serial No. 93,810. 1 Claim. (Cl. 292—167.)

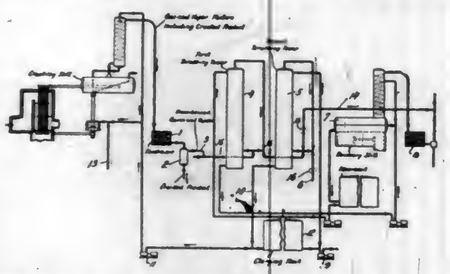


A gate latch, comprising a substantially U-shaped member which is designed to surround the end of a gate and to be affixed thereon, said member having its parallel sides formed with outwardly extending housings, and the said housings being provided with lateral extensions, whose ends are open, a substantially U-shaped bolt having its parallel arms guided through the housings, springs secured to the said arms of the bolts and to the housings for influencing the bolt outward of the said housings, a link pivotally connected to each arm of the bolt and an angle lever pivoted in the mentioned lateral extensions of the housings, having handle portions arranged exteriorly thereof and having their inner ends pivotally connected with the links.

1,663,868. ART OF CRACKING HYDROCARBONS. GEORGE H. TABER, Jr., Rye, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 24, 1926. Serial No. 118,357. 3 Claims. (Cl. 196—8.)

1. In cracking operations for the production of lighter hydrocarbon oils from heavier hydrocarbon oils in which vapors and gases are taken off and subjected to a condensing operation, the improvement which comprises subjecting the gas and vapor mixture remaining uncondensed

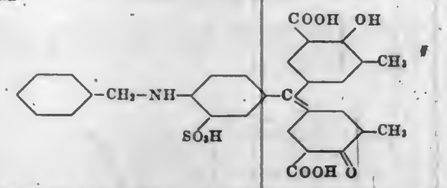
thereafter first to treatment with an absorbent medium from which absorbed constituents are recovered by treatment independent of the cracking operation and then



subjecting the still remaining uncondensed and unabsorbed gas and vapor mixture to treatment with charging stock subsequently supplied to the cracking operation.

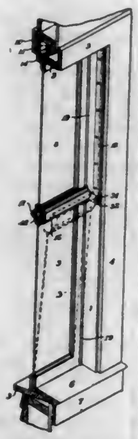
1,663,869. DYESTUFFS OF THE TRIPHENYL METHANE SERIES. OTTMAR WAHL, Leverkusen, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1927, Serial No. 186,830, and in Germany May 10, 1926. 2 Claims. (Cl. 260—65.)

2. A new dyestuff corresponding probably to the formula



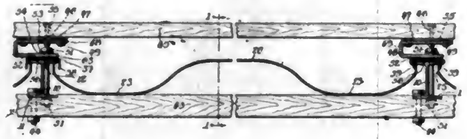
which is in a dry state a red powder, soluble in caustic soda solution with a deep red color and dyeing wool from an acid bath weak reddish shades which by afterchroming are changed to an intensely purple red, and which may be obtained by reacting with one molecule of 4-benzylamino-benzaldehyde-3-sulfonic acid upon two molecules of orthocresotinic acid and subsequent oxidation.

1,663,870. WINDOW. DAVID B. WHISTLER, Dayton, Ohio. Filed June 22, 1926. Serial No. 117,828. 11 Claims. (Cl. 20—42.)



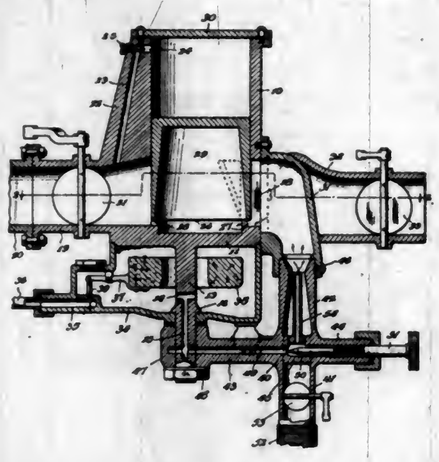
1. A window including in combination, upper and lower, vertically aligned sash supported for vertical and angular adjustments, outer stops for the sash and a member yieldable to lateral pressure interposed between the opposite edges of both sash and the window jambs, said members coacting with the outer stops to effect weathering of the window.

1,663,871. RAILWAY-CAR ROOF. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Feb. 15, 1926. Serial No. 88,229. 13 Claims. (Cl. 108—5.4.)



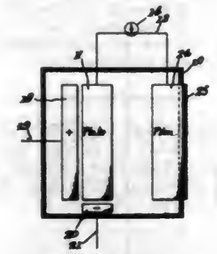
1. In a roof of the class described, the combination with a car provided with carlines and sideplates, of a roof sheet extending transversely of the car and having a relatively high central bulge portion, a relatively deep valley portion on each side thereof and having its edges curved upwardly and provided with flanges extending horizontally and adapted to rest on top of the carlines, the ends of the sheet in the region of the sideplates terminating in a relatively flat surface as relates to the bulge, valleys and turned up edges of the sheet, the end flanges projecting downward over the edge of the sideplate at each end of the roof sheet.

1,663,872. CARBURETOR. EZRA JACOB ZOLLINGER, Logan, Utah. Filed July 28, 1925. Serial No. 46,632. 4 Claims. (Cl. 261—47.)



1. A carburetor including a mixing chamber provided in its wall with a fuel inlet port and an auxiliary air inlet port as well as a fuel mixture outlet, a suction operated valve slidable in said chamber and normally closing said air inlet port and extending across the fuel inlet port and said outlet, a mixture conduit attached to the wall of said chamber and overlying said fuel inlet port, a liquid fuel nozzle, means for conducting liquid fuel to the nozzle, and a separate fitting mounting said nozzle and connected to said conduit, said fitting being provided with a primary hot air inlet supplying a current of hot air heating the liquid fuel prior to entrance thereof into the nozzle and flowing about the nozzle for aspirating the fuel therefrom and supplying a heated fuel to said conduit.

1,663,873. ELECTRIC DISCHARGE DEVICE. JAMES ALLEN, Washington, D. C. Filed June 16, 1926. Serial No. 116,477. 3 Claims. (Cl. 250—27.5.)



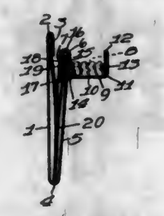
1. A vacuum tube comprising a cathode, an anode, said cathode adapted to be heated to induce an electric current to flow between the cathode and anode, an electrode adapted to receive a positive charge and located at one side of the anode, and an electrode adapted to receive a negative charge and located at one end of the anode for influencing the direction of the current produced.

1,663,874. HEATING SYSTEM. WALTER WILLIAM BRISSON, Norway, Mich. Filed Apr. 7, 1927. Serial No. 181,801. 1 Claim. (Cl. 219—19.)



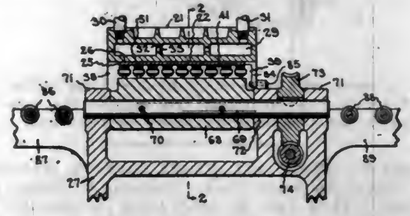
A heating device embodying spaced plates, a heating element arranged between the spaced plates and disposed in spaced relation with the plates, means for securing the heating element and spaced plates to a supporting surface, a casing embodying a front plate having inwardly extended flanges formed along the side edges thereof, said flanges adapted to fit between the base and tread of a rail, and insulating strips carried by the casing.

1,663,875. SAFETY-RAZOR HANGER. ROBERT DONER, Toledo, Ohio. Filed Mar. 7, 1927. Serial No. 173,478. 4 Claims. (Cl. 132—80.)



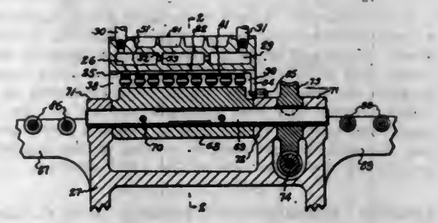
4. The combination of a sheet of metal bent to provide a back portion having a flange and a front portion inclined at an angle to said back portion, said front portion having an integral flange, a rack having openings therein for receiving a safety razor handle, said rack having flanges formed to slidably engage said second-named flange, and an envelope split at each end to form a pair of guide members, one of said guide members being adapted to slide between the back portion and said first-named flange, and the other guide member being folded and adapted to slide between the front portion and one of said last-named flanges, whereby said envelope can be removed and inserted from either end of the device.

1,663,876. METHOD OF CORRECTING PRINTING PLATES. LESLIE W. CLAYBOURN, Milwaukee, Wis. Filed Jan. 4, 1926. Serial No. 79,168. 9 Claims. (Cl. 101—401.3.)



1. The method of correcting printing plates which comprises resisting the printing surface of the printing plate by a face, all portions whereof are in a predetermined surface, and applying roller pressure by a rolling surface having indentations upon the rear of said printing plate in spaced-apart paths with pressure pressing all printing portions of said printing surface into said predetermined surface as determined by printing pressures.

1,663,877. APPARATUS FOR CORRECTING PRINTING PLATES. LESLIE W. CLAYBOURN, Milwaukee, Wis. Original application filed Jan. 4, 1926, Serial No. 79,168. Divided and this application filed Jan. 6, 1927. Serial No. 159,389. 7 Claims. (Cl. 101—401.2.)

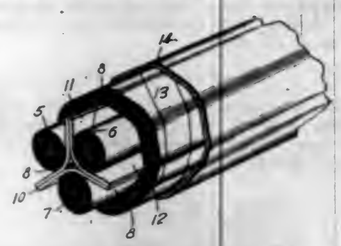


1. In an apparatus for correcting printing plates, the combination of a resistance member provided with a resistance surface for the printing surface of a printing plate, compression rollers arranged in sets, the compression rollers whereof are spaced in endwise relation, with the rollers of said respective sets operating between the paths of compression of the rollers of the other of said sets, arranged whereby to overcome the resistance to local flexure in said printing surface, and means causing progressive movement between said compression rollers and said resistance surface for coactive movement between said compression rollers and the rear surface of said printing plate along said rear surface.

1,663,878. MULTIPLE-CONDUCTOR HIGH-TENSION CABLE. LUIGI EMANUELI, Milan, Italy, assignor to Societa Italiana Pirelli, Milan, Italy, a Corporation of Italy. Filed Sept. 2, 1925. Serial No. 54,042. 8 Claims. (Cl. 173—266.)

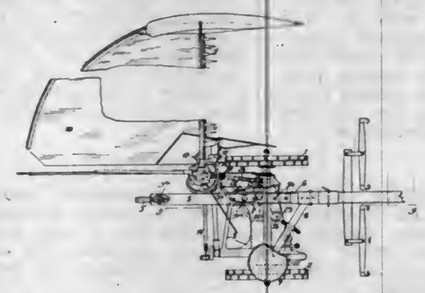
1. A multiple-conductor, oil-filled high tension electric cable comprising a plurality of insulated spirally-arranged conductors, spirally-arranged barriers between

the conductors, a covering of insulating material which is supported conjointly by the conductors and the peripheral edges of the barriers, said barriers and cover-



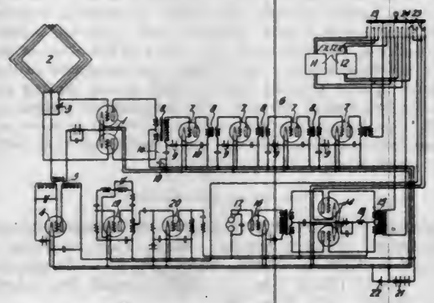
ing cooperating to form individual longitudinal oil passages for the conductors and wherein the same are disposed, and a metallic sheath for said covering.

1,663,879. GRAIN AND GRASS MOWING MACHINE. JOHANN HEINRICH FAHR, Stockach in Baden, Germany. Filed June 21, 1923, Serial No. 646,889, and in Germany June 26, 1922. 10 Claims. (Cl. 56—172.)



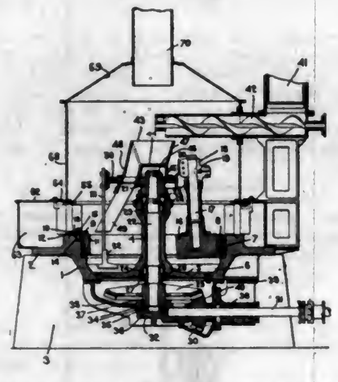
1. A convertible mower comprising cutter mechanism, a grain delivery mechanism, a grain platform, a vehicle frame, a vertical support for the grain delivery mechanism, and a supporting member with a pivot element between its two ends by which it is connected to the vehicle frame, the said platform resting on the said supporting member on one side of the said pivot element and the said vertical support resting on the supporting member at the other side of the pivot element.

1,663,880. SIGNALING APPARATUS. JOHN C. GABRIEL and GEORGE M. THURSTON, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 3, 1925. Serial No. 47,655. 7 Claims. (Cl. 250—20.)



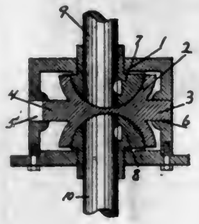
1. In a signaling system, means for receiving an incoming wave carrying signals, a local oscillator, means for combining said received wave with oscillations supplied by said local oscillator to produce an intermediate frequency wave carrying signals, means for suppressing a portion of said intermediate frequency wave, means for locally supplying energy of the frequency of at least a part of said suppressed portion of the intermediate frequency wave, and means for combining said local energy with the unsuppressed portion of said intermediate frequency wave to produce signal currents.

1,663,881. CENTRIFUGAL GRINDING MILL. WILLIAM A. GIBSON and JAMES G. BURKE, Allentown, Pa., assignors to Bradley Pulverizer Company, Allentown, Pa., a Corporation of Maine. Filed June 22, 1925. Serial No. 38,676. 6 Claims. (Cl. 83—45.)



1. In a centrifugal grinding mill comprising a grinding chamber having therein a horizontal annular grinding ring, co-operating centrifugally actuated grinding members and a superposed air separating chamber communicating with said grinding chamber, means for admitting air to said grinding mill above and substantially adjacent to the grinding ring and adjustable means operable selectively to direct the air thus admitted in different predetermined directions relatively to the radius of the grinding mill chamber and thereby to vary the character of the air currents within said separating chamber and regulate the action of the air separator.

1,663,882. AUTOMATIC ADJUSTING MECHANISM. EDWIN J. GOULD, Oakland, Calif. Filed Mar. 12, 1924. Serial No. 698,771. 3 Claims. (Cl. 74—7.)



1. An automatic adjusting mechanism, comprising the combination of two hemispherical cams mounted on coaxial independent axle sections, a circular member with concave surfaces, and extending lug pins fitting said cams and a rotatable driving member, co-operating with the extending lug pins on said circular member said lug pins being slidably and rotatably mounted in the driving member to cause the said cams to have an opposite rotary motion in unison.

1,663,883. DISINFECTING AND INSECTICIDAL AGENT. HEINRICH GÜNZLER and OSKAR NEUBERT, Elberfeld, near Cologne, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Filed Mar. 31, 1927, Serial No. 180,058, and in Germany Apr. 13, 1926. 7 Claims. (Cl. 167—3.)

1. A composition comprising a water-soluble salt of an aromatic amino-sulfonic acid and a water-soluble mercury salt.

6. A composition comprising a water-soluble aromatic amino-sulfonic acid compound, a water-soluble mercury salt, an inert wetting material and an adhesion promoting material miscible with water.

7. As a disinfecting composition comprising the sodium salt of sulfanilic acid and mercuric chloride.

1,663,884. DEVICE FOR THE TRANSMISSION OF VIBRATORY ENERGY. HENRY C. HARRISON, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 5, 1924. Serial No. 711,044. 24 Claims. (Cl. 179—100.1.)



1. A solid medium for receiving and dissipating vibratory energy comprising an elongated body of non-metallic vibration absorbing material of a homogeneous character, said body having precomputed values of mass, elasticity, resistance and dissipation per unit length such that the characteristic impedance of said body is substantially constant throughout a range of frequencies to be transmitted.

1,663,885. ELECTROMAGNETIC DEVICE. NEWMAN H. HOLLAND, West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1924. Serial No. 731,952. 12 Claims. (Cl. 175—339.)



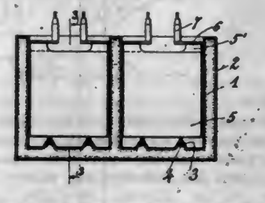
1. In an electromagnetic device, a magnet, a vibratory member comprising an armature adapted to vibrate in the field of said magnet, and means comprising a spring tensioned longitudinally adapted to flex in a plane perpendicular to the axis of oscillation of said vibratory member and to exert a pull thereon which varies in the same manner as the magnetic pull exerted on said armature thereby balancing the armature for all positions in the magnetic field.

1,663,886. HAMMER. ANTHONY F. LUTCH, Hays, Pa. Filed Sept. 29, 1926. Serial No. 138,510. 2 Claims. (Cl. 145—29.)



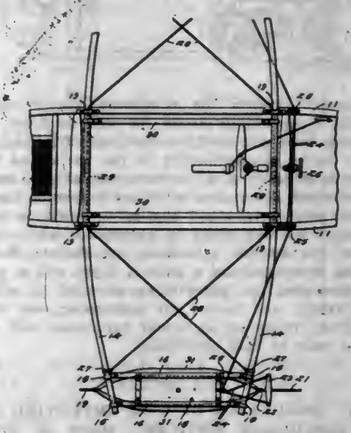
1. In combination with a hammer, a ferrule made of resilient material and having a flange at the base thereof, and means for securing said ferrule to the strike-head of said hammer, said means comprising a central core fitting within said ferrule and having a flange bearing on the face of said strike-head; a cap adapted to fit about said ferrule, flanges and strike head, and means for removably securing said cap on said strike-head.

1,663,887. ELECTRIC-BATTERY CONTAINER. EDWARD LYNDON, New York, N. Y. Filed Jan. 21, 1926. Serial No. 82,731. 8 Claims. (Cl. 206—2.)



1. In a battery container made of an acid non-resisting material, a projection on the inner surface thereof, and a cap made of a tough acid-resisting material on said projection, said container, including said projection and said cap, being covered with an acid-resisting substance.

1,663,888. BOAT STABILIZER. WILLIAM H. OSTEN, Clearwater, Fla., assignor of one-half to Joseph D. Stites, Long Island City, N. Y. Filed Apr. 22, 1926. Serial No. 103,019. 2 Claims. (Cl. 114—123.)

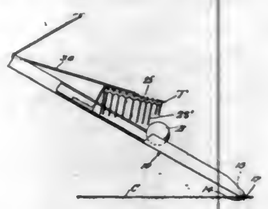


1. An attachment for a canoe or the like craft comprising flexible beams for disposition transversely amidship of a canoe, means for clamping the beams to the gunwales of the canoe, spacing means between the ends of the beams, floats on the spacing means and extending between the ends of the beams, keels on the floats, fins on the floats, and rudders on the keels and controlled from the canoe.

1,663,889. GOLF GAME. CHARLES A. ROLFE, Redlands, Calif. Filed Oct. 20, 1925. Serial No. 63,626. 23 Claims. (Cl. 273—36.)

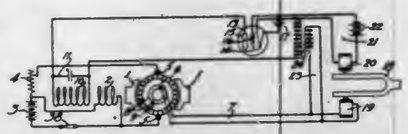
23. In game apparatus, a tiltable base, an upright supporting member on the base, an elevated plate hingedly connected to said support and normally held substantially at a given elevation, means depending from said plate and adapted to define a ball trapping chamber therebeneath, said depending means having inwardly opening entrance gates whereby the ball is admitted to said compartment, the plate being hingedly movable to raise said depending

means and thereby allow the ball to be released from the compartment; an arm overlying and spaced from the plate, said arm being rigidly supported by the base, and an operating member applied to said plate, extending



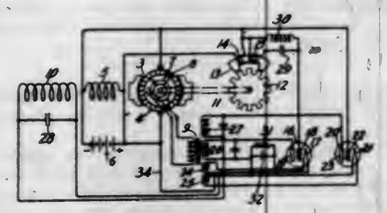
through said arm and applied to the base in a manner whereby a pull exerted on said operating member hingedly moves said plate upwardly and into contact with said arm and a continued pull tilts the base.

1,663,890. ELECTRICAL CONTROL SYSTEM. HUGH M. STOLLER, Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1924, Serial No. 750,857. Renewed Dec. 8, 1927. 16 Claims. (Cl. 171—312.)



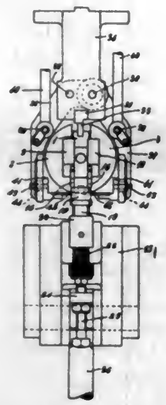
1. A control system for a dynamo electric machine comprising a controlling circuit for said machine, means for deriving from said machine electrical variations whose frequency varies proportionally to the variations in the quantitative measure of a characteristic of said machine to be controlled, a source of auxiliary frequency electrical variations, said derived and auxiliary variations varying with respect to each other in accordance with the frequency of the derived variations, an electric discharge controlling device having a pair of input and a pair of output electrodes, the latter being included in said controlling circuit, and means for impressing said derived and auxiliary frequency electrical variations each on an individual pair of said electrodes.

1,663,891. REGULATOR SYSTEM EMPLOYING ELECTRON-DISCHARGE DEVICES. HUGH M. STOLLER, Mountain Lakes, N. J., and EDMUND R. MORTON, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 24, 1926, Serial No. 124,599. Renewed June 11, 1927. 9 Claims. (Cl. 171—312.)



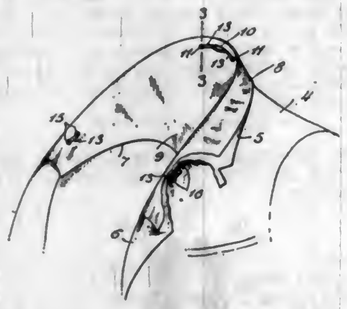
1. A system for regulating a characteristic of an electrical circuit, comprising means for deriving electrical variations the frequency of which is proportional to said characteristic, means for deriving other electrical variations the frequency of which is different from the frequency of said first variations, an electrical discharge device having a cathode, an anode and a control electrode, means for impressing one of said variations on said control electrode, means for impressing the other of said variations on said anode, and means for controlling said characteristic in response to changes in the anode current of said device.

1,663,892. CAN-BODY-FORMING MACHINE. JOHANNES MARTINUS VAN HAASTEREN, Schiedam, Netherlands, assignor to Naamlooze Vennootschap: "De Komeet," Schiedam, Netherlands, a Corporation of the Netherlands. Filed Jan. 26, 1927, Serial No. 163,772, and in the Netherlands Feb. 11, 1925. 5 Claims. (Cl. 113—8.)



1. In a can body forming machine, an expansion horn comprising two sidepieces laterally movable parallel to each other for expanding the horn, means for wrapping a blank around said sidepieces and interlocking the edges thereof, a hammer adapted to compress the interlocked edges against the horn to form them into a seam, and mechanism adapted to actuate said hammer and to simultaneously force said sidepieces apart.

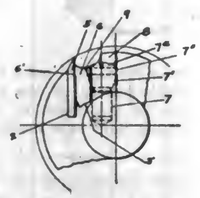
1,663,893. SCARF. MARIA STINGHE WAGNER, New York, N. Y. Filed Mar. 2, 1927. Serial No. 172,022. 1 Claim. (Cl. 2—91.)



A scarf for coats including an inner portion and a collar portion adapted to extend around and overlap the exterior of the collar of a coat and parts of the lapels thereof, said inner portion having at its center an elongated slot for the reception of the hook of a coat hanger

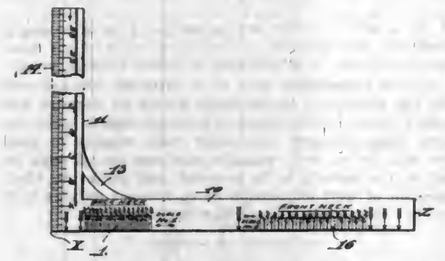
and also having an eyelet adjacent each end of the slot, said eyelets and the ends of said slot being adapted to align with eyelets formed in the coat beneath the collar thereof, other eyelets formed in the scarf between said slot and each end of the scarf and adapted for alignment with eyelets formed in the coat beneath the lapels thereof, securing strips looped through the ends of said slot and adjacent eyelets and through the aligned eyelets in the coat, and other securing strips looped through said other eyelets and the aligned eyelets in the coat beneath its lapels to secure the end portions of the scarf to the coat, said securing strips all being disposed beneath said collar portion.

1,663,894. CUTTER HEAD FOR WOODWORKING MACHINES. LELAND B. WHIPPLE, Rochester, N. Y. Filed July 11, 1923. Serial No. 650,822. 7 Claims. (Cl. 144—230.)



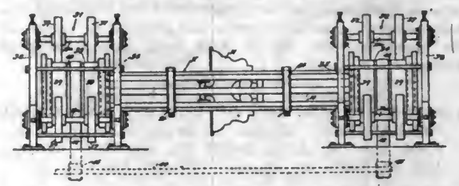
3. A cutter head containing a knife socket, a recess communicating with said socket and having converging inclined bottom walls, a bearing forming a fulcrum between said socket and recess, a knife in said socket, a tool holder in said recess and fulcrumed on said bearing, and means for rocking said holder on its fulcrum toward said knife.

1,663,895. GARMENT-PATTERN-DRAFTING SQUARE. CHARLES H. WOLFE and ETHEL E. WOLFE, Los Angeles, Calif. Filed Mar. 13, 1924. Serial No. 698,970. 1 Claim. (Cl. 33—11.)



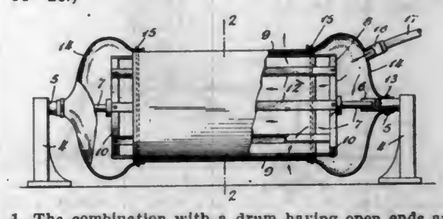
A garment pattern drafting square comprising a pair of integrally connected straight edge members disposed at right angles to each other, one of which members is longer than the other, a graduated numbered back neck scale arranged on the shorter one of the straight edge members adjacent to the outer corner formed at the joint between said members, the numbers of said graduated back neck scale reading from left to right, a numbered graduated front neck scale arranged on the same side of the short straight edge member with said back neck scale and arranged between the latter and the outer end of the short straight edge member the numbers of said front neck scale reading in progression from right to left, the graduated lines of said back neck and front neck scales terminate at the outer edge of the short straight edge member, the reverse face of the short straight edge member being provided with graduated numbered top sleeve scale members.

1,663,896. CENTRIFUGE AND MOLD HOLDER THEREFOR. HENRY BARKSCHAT, Los Angeles, Calif., assignor to Marbelite Corporation of America, Los Angeles, Calif., a Corporation of Delaware. Filed Mar. 29, 1926. Serial No. 98,176. 7 Claims. (Cl. 25—30.)



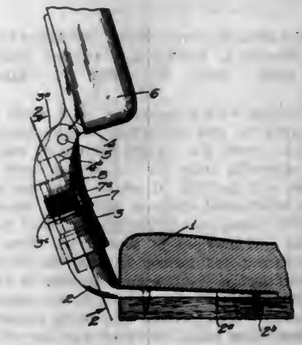
1. In a device of the character described, a pair of spaced and substantially axially alined centrifuge units, each having centrally arranged work-taking chucks, and an elongated mold holder adapted to extend longitudinally between the units and to be taken near its opposite ends and to be rotated by said chucks, said holder embodying a plurality of relatively movable sections adapted to take between them a mold element of lesser longitudinal extent than the spacing between units, and releasable means adapted to hold the sections against relative movement and to clamp the mold element between the sections.

1,663,897. APPARATUS FOR DRYING TEXTILE FABRICS. ULRICH BAUMANN, Jr., Woodcliff, N. J. Filed Mar. 24, 1926. Serial No. 96,966. 5 Claims. (Cl. 34—26.)



1. The combination with a drum having open ends and through the wall of which heated air is capable of passing; of end closures for said drum forming compartments having communication with the interior of said drum, and means for injecting heated air into said compartments so that said air will pass into the interior of said drum and from thence outwardly through a fabric wound upon the wall of said drum.

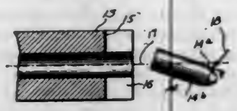
1,663,898. YIELDABLE BACK SUPPORT FOR SEATS. FRANK C. BITZENBURGER, Los Angeles, Calif. Filed Sept. 18, 1924. Serial No. 738,439. 9 Claims. (Cl. 155—157.)



1. In a back supporting means, a supporting bracket, a supporting member secured to the upper end thereof, a back member securing bracket pivotally mounted at the

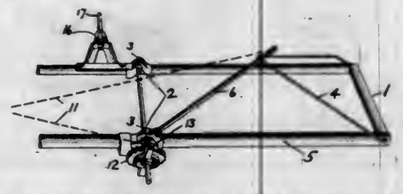
upper end of said supporting member and provided with a backwardly extending lug, a back member secured to said back member securing bracket, an internally threaded sleeve revolubly mounted within said supporting member, and a back positioning member provided with a threaded portion at its normally lower end extending into said internally threaded sleeve and adapted to engage at its upper end the lug of said back member securing bracket.

1,663,899. PROJECTION OF BULLETS AND OTHER PROJECTILES. ROBERT S. BLAIR, Stamford, Conn. Filed Apr. 26, 1923, Serial No. 634,682. Renewed Aug. 11, 1927. 21 Claims. (Cl. 89—42.)



1. The herein described art which consists in turning the axis of a rotating projectile at an angle with respect to its direction of flight to offset the effect of gravity tending to cause the projectile to drop.

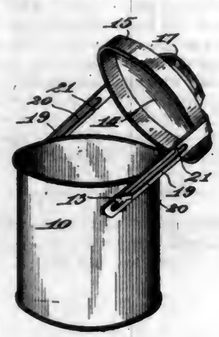
1,663,900. LAWN MOWER. WILLIAM F. H. BRAUN, Wynnewood, Pa., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1926. Serial No. 156,829. 4 Claims. (Cl. 56—7.)



1. In a gang mower having a pivotal section, means for raising and lowering the free end of the pivotal section which comprise a revoluble drum having a threaded hub and mounted on the mower, connections between the section and drum whereby the former exerts unidirectional torque on the latter in unwinding direction, a ratchet wheel mounted on the mower and free to turn in winding direction only, and a nut on the hub adapted when turned in winding direction to clamp the drum onto the wheel against the torque on the drum and when turned in unwinding direction to back off and permit the drum to turn in unwinding direction under the torque and to screw into the nut and clamp the ratchet wheel with a braking action.

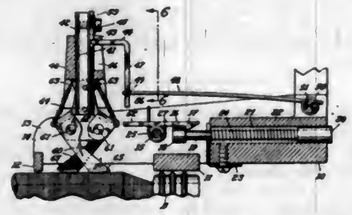
1,663,901. GARBAGE PAIL WITH NONDETACHABLE COVER. MILTON L. BROWN, Los Angeles, Calif. Filed Jan. 15, 1925. Serial No. 2,550. 1 Claim. (Cl. 220—38.)

The combination with a receptacle, of a cover therefor, a strap secured to and extending diametrically across the top of said cover, the central portion of which strap is extended upwardly from the top of the cover to form a handle, the end portions of which strap are extended downward a substantial distance below the lower end of the cover, there being elongated straight slots formed in the depending end portions of said strap, there being a laterally disposed notch formed at one side of each slot near the upper end thereof, plates secured to the upper portion of the body of the receptacle at diametrically opposite points, a neck portion extending upwardly and outwardly from each plate, the neck portions of the two plates extending respectively through the slots in the depending portions of the strap, a head portion formed integral with the upper end of the neck portion of each plate, the length of each head portion being substantially greater than the width of the slot in the depending portion of the strap and the width of each head portion



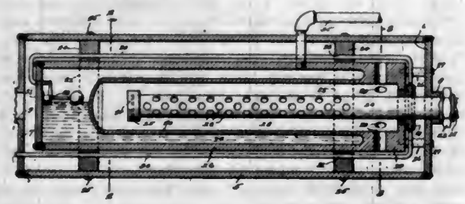
being slightly less than the width of the slot in the strap so as to permit disengagement of the straps from the heads when the cover is positioned so that the straps occupy positions parallel with said heads.

1,663,902. WEFT DETECTOR ON LOOM TRANSFERRER. AUGUSTIN J. CHEVRETTE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,047. 4 Claims. (Cl. 139—271.)



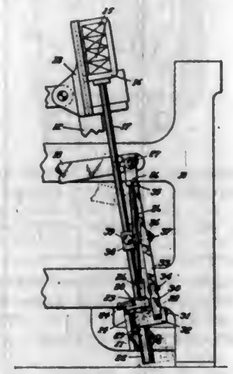
1. In a weft detector mechanism for a loom having a transferrer arm movable on detecting beats of the loom toward a surface to be detected, a carrier slidably mounted on the transferrer arm in a direction toward and from the surface to be detected, a pair of detector elements pivoted to the carrier at spaced points, said elements being disposed diagonally with respect to each other and having weft engaging surfaces spaced with respect to the surface to be detected, and means to effect indication of weft exhaustion at such times only as both detectors slide along the surface to be detected.

1,663,903. FUEL ECONOMIZER. JOSEPH CORBIERE, New York, N. Y., assignor to Nick Govin, New York, N. Y. Filed Sept. 18, 1926. Serial No. 136,293. 2 Claims. (Cl. 257—16.)



2. In an internal combustion engine, a water-jacketed muffler adapted for connection with the end of an exhaust pipe, said muffler comprising a casting having a central bore terminating short of the end thereof to receive said pipe, said casting being cored longitudinally and concentric with said bore to define a water-receiving chamber extending substantially to the inner end of said casting, a housing positioned over said casting and spaced therefrom to define a space therearound, said casting having exit means in the inner end thereof to permit the escape of the gases from the bore to the space around said casting and means for supplying water to said chamber, said means being arranged within the housing to subject its contents to the preheating action of the exhaust gases.

1,663,904. DROP-BOX-LIFTING MECHANISM. CLARENCE W. CRANE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 18, 1927. Serial No. 161,923. 6 Claims. (Cl. 139—182.)



1. In a drop box lifting mechanism, a rock shaft, a plurality of drop boxes, a lifter rod for said boxes, a lifting lever, a connecting member slidable along the axis of said lifter rod, an operating connection from said lever to said sliding member, and a link pivoted to said sliding member at its lower end and pivoted to said lifter rod at the upper end of said link, whereby said rod may be actuated from said lifter lever.

1,663,905. SPLIT SHINGLE AND METHOD OF MAKING SAME. FRANK L. DIETZ, Seattle, Wash., assignor, by mesne assignments, of one-half to Edwin H. Luke, Seattle, Wash. Filed Dec. 10, 1926. Serial No. 153,889. 11 Claims. (Cl. 108—8.)

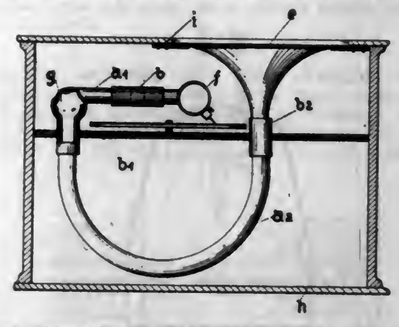


1. A shingle tapered from butt to tip, and having upper and lower surfaces naturally split.

8. The method of forming shingles from a block of wood which consists in splitting individual shingles alternately from opposite ends of the block.

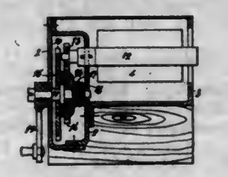
1,663,906. SOUND CONDUIT FOR SOUND-RECORDING AND SOUND-REPRODUCING INSTRUMENTS. ERNST FINKING, Leipzig, Germany. Filed Aug. 17, 1926. Serial No. 129,848, and in Germany Apr. 9, 1925. 2 Claims. (Cl. 274—2.)

2. A phonograph comprising a cabinet, a sound box, a tone arm, a horn, a U-shaped tube between the horn and the tone arm, resilient means connecting the sound box with one end of the tone arm, resilient means connecting the other end of the tone arm with one end of the U-



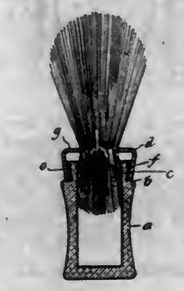
shaped tube, resilient means connecting the other end of the tube with the horn, and resilient means connecting the mouth of the horn with the cabinet.

1,663,907. GRINDING MACHINE FOR SAFETY-RAZOR BLADES. ALBERT E. FRIEDRICH, Berlin-Friedenau, Germany. Filed Dec. 12, 1921, Serial No. 521,877, and in Germany Dec. 16, 1920. 2 Claims. (Cl. 51—86.)



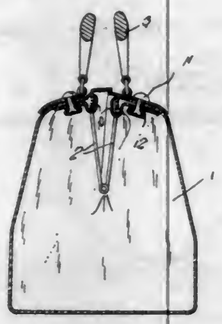
1. In a sharpener for double edged razor blades, a pair of grinding rollers, a pinion secured to each of said grinding rollers, a blade-holding roller mounted between said grinding rollers, a drive shaft parallel to and spaced from said rollers, a drive gear fixed to said drive shaft and adapted to engage said pinions, a crank on said drive shaft adapted to be turned in either direction to actuate said drive gear, a friction disk secured to said blade-holding roller, and a pair of disks mounted on said drive shaft for frictionally engaging both faces of said friction disk.

1,663,908. PORCELAIN-HANDLE BRUSH. LUDWIG FULD, Nuremberg, Germany. Filed Apr. 26, 1920. Serial No. 104,850. 2 Claims. (Cl. 15—191.)



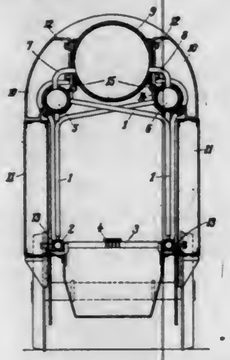
1. A shaving brush comprising a recessed porcelain body having an annular under cut wall forming a shoulder above the said recess, bristles mounted in said recess, a metal ferrule encircling the bristles and resting on said shoulder, an elastic ring between the under cut wall of the body and said ferrule, said ferrule having an inwardly projecting annular rim overlying the under cut wall and engaging the bristles.

1,663,909. REENFORCING CLIP. ELDON DONNEWERTH HALLMAN, Kitchener, Ontario, Canada. Filed Sept. 4, 1926. Serial No. 133,705. 3 Claims. (Cl. 190—57.)



1. In a structure of the class described, in combination, a bag of the class described provided with a mouth, metal reenforcing frames associated with said mouth and cooperable with each other, said frames being hingedly connected together, a pair of handles disposed in side by side relation, connecting tabs for said handles, reenforcing members on the interior of the bag, said reenforcing members being cooperable with said frames and connecting means between said tabs and said reenforcing members.

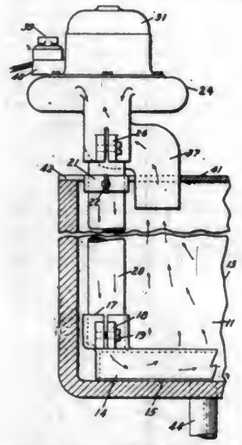
1,663,910. WATER-TUBE BOILER. OTTO H. HARTMANN, Cassel-Wilhelmshohe, Germany, assignor to Schmidt'sche Heissdampf G. m. b. H., Cassel-Wilhelmshohe, Germany, a German Corporation. Filed July 13, 1926, Serial No. 122,234, and in Germany July 23, 1925. 6 Claims. (Cl. 122—510.)



2. In a locomotive, a water-tube fire box comprising lower water collectors, headers positioned above said collectors, and water-tubes connecting said collectors and said headers, a boiler drum located at a higher level than said headers and connected thereto, brackets supporting said boiler drum and fixed to the locomotive frame, and stirrups secured to said brackets and supporting said headers.

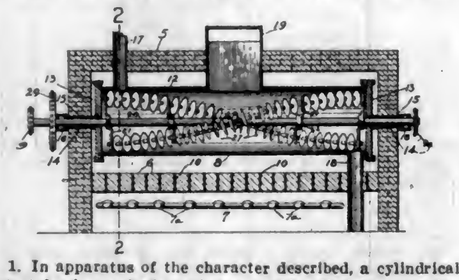
1,663,911. WASHING APPARATUS. HARRY C. HEATH, San Francisco, Calif., assignor to Household Necessity Company, San Francisco, Calif., a Corporation of California. Filed Jan. 25, 1924. Serial No. 688,436. 3 Claims. (Cl. 68—37.)

1. A washing machine comprising, a stationary tub, a blower mounted upon said tub, a motor for operating said blower, an adjustable stand pipe for supporting said blower, an air distributer removably secured to said stand pipe, said distributer having a rectangular shape, fitting approximately the bottom of said tub, and provided with



a plurality of outlets on one side thereof and deflecting ribs on the opposite side, said blower adapted to direct an air blast through said outlet of said distributer and said ribs causing the air to circulate within said tub.

1,663,912. RETORT. FRED L. HOYT, Denver, Colo., assignor of one-third to Charles S. Sloan, Sr., and one-third to John S. King, Denver, Colo. Filed Dec. 27, 1926. Serial No. 157,273. 10 Claims. (Cl. 202—14.)



1. In apparatus of the character described, a cylindrical retort having a feed-opening, a residue-discharge opening and a vapor-outlet, and a rotary agitating and impelling element including a helical shaft extending lengthwise of the retort, and spaced rotary disks on the shaft.

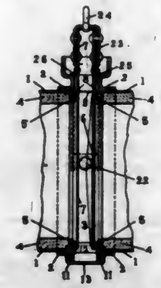
1,663,913. PROCESS FOR THE MANUFACTURE OF OLEOMARGARINE. HENRI LEROUDIER, Lyon-Villeurbanne, France. Filed May 7, 1926, Serial No. 107,490, and in France May 20, 1925. 3 Claims. (Cl. 99—13.)

1. A process for the manufacture of oleomargarine, which consists in adding to the principal mass of the oleomargarine and the melted fats and oils, an intimate mixture consisting only of fats and oils suspended in a great quantity of water which is more fluid than the said principal mass of the oleomargarine.

1,663,914. METHOD OF OXIDIZING AMMONIA BY MEANS OF OXYGEN. FRANS GEORG LILJENROTH, Stockholm, Sweden. Filed June 13, 1927, Serial No. 198,592, and in Sweden Aug. 19, 1926. 2 Claims. (Cl. 23—162.)

1. Method of continuously oxidizing ammonia, which comprises subjecting ammonia to a catalytic combustion by means of oxygen essentially in absence of gases alien to the reaction, supplying the whole resulting gas mixture to a condensation system and condensing a part thereof to nitric acid while the remainder is used as diluting agent in performing the catalytic combustion.

1,663,915. UNIVERSAL SAND DAMPER FOR HOT-GAS CONDUITS. WILBUR S. MAYERS, Fairmont, W. Va. Filed Mar. 27, 1922. Serial No. 547,317. 12 Claims. (Cl. 251—59.)



1. A sand damper, comprising a case having an orifice in each side thereof and provided with means of attachment to incoming and outgoing conduits, there being a chamber between the orifices of greater transverse dimensions than the corresponding dimensions of the flow area of said conduits and having an exterior opening adapted to receive damper plates and sealing material, and a removable duplex damper covering both orifices when inserted into said chamber, said damper comprising two plates interconnected outside of the area of flow of said conduit and yieldable toward and away from each other within said flow area.

1,663,916. MANUFACTURE OF PURE IRON. ALWIN MITTASCH and CARL MÜLLER, Mannheim, and WALTER SCHUBARDT, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 12, 1926, Serial No. 108,683, and in Germany June 10, 1925. 4 Claims. (Cl. 75—27.)

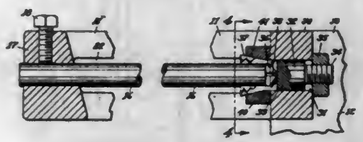
1. The process of producing practically pure iron which consists in heating iron obtained by decomposition of iron carbonyl and contaminated with carbon and oxygen, to a temperature of at least about 500° C., while excluding air and other oxidizing gases.

1,663,917. SHOVELING MACHINE. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Dec. 19, 1917, Serial No. 207,867. Renewed Oct. 19, 1925. 125 Claims. (Cl. 214—90.)



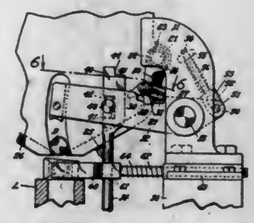
1. In loading apparatus, the combination with a main frame, of a supplemental frame, a scoop connected to said supplemental frame, means for moving said supplemental frame to cause said scoop to gather a load, and a endless conveyor mounted on said main and supplemental frames with a receiving portion continually in position to receive material from said scoop and a delivery portion on each of said frames.

1,663,918. SUPPORT FOR LOOM PICKING SPINDLES. CYRILL PARENT, Andover, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 18, 1926. Serial No. 155,742. 10 Claims. (Cl. 139—158.)



1. In a picker spindle mounting for loom lays, means to support the outer end of the spindle, a clamp for the inner end of the spindle having a bore to receive the inner end of the spindle and said clamp having a plurality of clamping members integral therewith and capable of slight movement relatively to the clamp, means forming an inclined surface on the clamp, means relatively stationary with respect to the lay presenting other inclined surfaces to correspond with and lying in contact with the first named inclined surfaces, and means to produce relative movement between the inclined surfaces to cause the clamping members to have tight engagement with the spindle.

1,663,919. REVOKING MEANS FOR REGULARLY-ACTUATED TRANSFERRER MECHANISM. OSCAR V. PAYNE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 22, 1926. Serial No. 156,476. 15 Claims. (Cl. 139—231.)

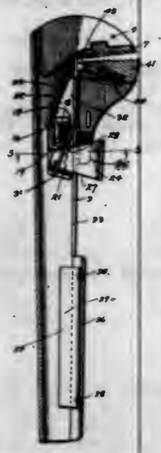


1. In a weft replenishing loom having a transferrer arm and a shuttle, means to give the transferrer arm a regular periodic movement toward the shuttle, and means effective during continued operation of the loom to disconnect the transferrer arm from the first named means to prevent said movement of the transferrer arm toward the shuttle when the shuttle is misplaced.

1,663,920. WRENCH. AXEL W. PETERSON, San Francisco, Calif. Filed June 11, 1924, Serial No. 719,407. Renewed Sept. 27, 1927. 4 Claims. (Cl. 81—149.)

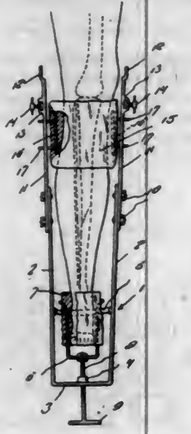
1. In a wrench of the character described, a longitudinally slotted shank having a jaw thereon, a second jaw extending into and slidable in the slot bearing on the outer edges thereof, an element within the shank

having yielding means associated therewith causing the same to bear against the inner edge of the slot for holding the second jaw in position, and a wedge manip-



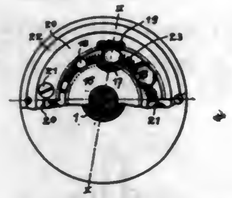
ulated from the outside of said shank for rendering said element inactive and allowing the second jaw to be moved in the slot.

1,663,921. LIMB BRACE. CHARLES HARRISON PIERCE, Wadena, Minn. Filed Dec. 14, 1926. Serial No. 154,734. 5 Claims. (Cl. 128—84.)



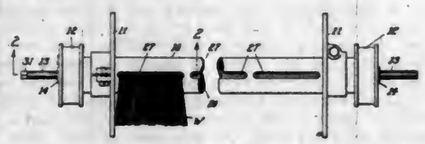
1. In a limb bracing structure of the class described, a substantially U-shaped member, the arms of which are disposed in spaced parallelism and adapted for disposition on opposite sides of the lower portion of a limb, the bight portion being adapted to be dispsed in spaced relation to the foot, a screw-threaded stem carried by the central part of said bight portion, said stem being provided on its outer end with a handle, a stirrup connected to the inner end of said stem and adapted to have its arms imbedded in a cast surrounding the foot and ankle, said arms being provided with apertures, and a pair of apertured primary extension struts connected by fastenings with said apertures, the upper ends of said struts being offset, the portions below said offset ends being formed with guides, set screws carried by said guides, and anchoring strips adapted to be imbedded in a knee cast, said strips being provided with pins for selective reception in apertures in said struts.

1,663,922. ONE-WAY DRIVING MECHANISM. LEO ROBIN, Ixelles, and PHILIPPE DE PONTHIERE, Woluwe St. Lambert, Belgium. Filed Mar. 3, 1927, Serial No. 172,485, and in Belgium Mar. 9, 1926. 1 Claim. (Cl. 192—45.)



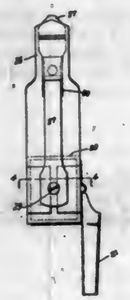
A one-way driving mechanism comprising driving and driven members having track members eccentrically disposed relatively to each other, and sets of balls of different diameters wedged between the eccentrically disposed track members, said balls being spaced apart and held at definite points between the track members by means of springs.

1,663,923. WARP BEAM. JESSE RAYMOND SHUTT, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 25, 1927. Serial No. 170,984. 3 Claims. (Cl. 242—118.)



1. A warp beam having a tubular outer barrel with an axially extended opening therein, a winding member rotatably mounted within said barrel, a flexible warp-attaching member secured to said winding member and adapted to be drawn thereby through said opening and within said tubular barrel, manually operated means to turn said winding member within said tubular barrel, a pawl and ratchet mechanism within said outer barrel effective to hold said member from movement in an unwinding direction but permitting free movement in a winding direction, and means external of said barrel for releasing said pawl.

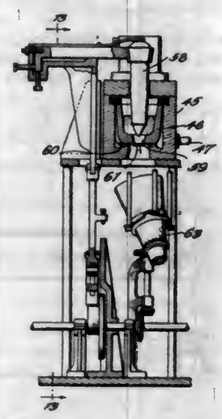
1,663,924. YARN-TUBE FRAME FOR LOOMS. JOHN G. SODERBERG and WILLIAM W. ROBERTSON, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 19, 1923. Serial No. 640,250. 7 Claims. (Cl. 139—10.)



1. A tube frame for looms comprising a tubular member and supporting brackets for said member, each bracket including a rigid spool bearing plate having

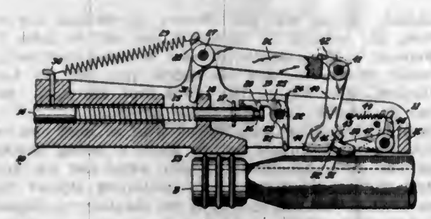
notches in its side edges and said tubular member having holding portions co-operating directly with the notched edges of said plate to secure said plate firmly and permanently against the end of said member and from displacement longitudinally of said plate, said holding portions and notches forming the entire securing means for said plate.

1,663,925. GLASS-FEEDING MECHANISM. THEODORE C. STEIMER, deceased, Pittsburgh, Pa., by Charles M. Steimer, executor, Zanesville, Ohio, assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Original application filed Feb. 12, 1910, Serial No. 543,582, and in Canada Jan. 26, 1918. Divided and this application filed Oct. 27, 1925. Serial No. 65,186. 13 Claims. (Cl. 49—55.)



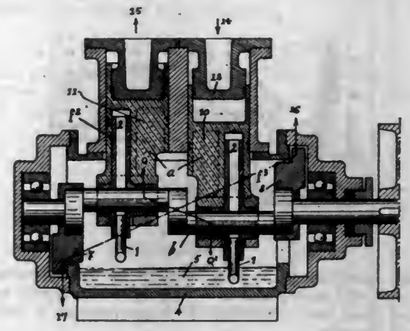
1. A measuring and interrupting device, comprising a receptacle having an outlet, a stopper adapted to constrict the outlet, a flame under the outlet, and mechanism to automatically operate the stopper at predetermined times to a regulable degree.

1,663,926. GUARD FOR WEFT DETECTORS IN LOOM TRANSFERRERS. KENNETH J. UNWIN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,078. 8 Claims. (Cl. 139—271.)



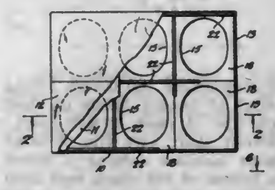
1. In weft detecting mechanism for a loom having a transferrer arm receiving a movement toward the surface to be detected each detecting beat of the loom, a weft detector, a carrier therefor movably mounted on the transferrer arm, and a guard pivoted to the transferrer arm and movable by an abundant supply of weft into holding engagement with respect to the detector to hold the latter out of contact with the weft.

1,663,927. VALVELESS AIR PUMP. PAUL VOREAUX, Paris, France, assignor to Etablissements Samga Bavox Reunis, Paris, France. Filed June 22, 1925, Serial No. 38,792, and in France June 30, 1924. 2 Claims. (Cl. 230—184.)



1. A pump comprising a crank case, two cylinders disposed side by side, pistons coacting therewith, a crank shaft having two cranks, and extending through the said crankcase, eccentric means connecting each piston with the crank and slidable along the latter to impart a helical movement to the pistons in their cylinders, two eccentric masses disposed at the respective sides of the pistons and fixed in diametrically opposed direction on the crank shaft for obtaining the equilibration of the moving parts of the pump, the eccentric masses producing a couple which in the plane of the axis of the cylinders, equilibrates the couple due to the straight displacement of the pistons, and, in a plane perpendicular to the first-mentioned plane, equilibrates the couple due to the movement of rotation of said pistons upon their own axes.

1,663,928. PACKING CASE FOR HATS. ERNEST A. WALTHER, Danbury, Conn. Filed May 17, 1926. Serial No. 109,504. 5 Claims. (Cl. 206—9.)

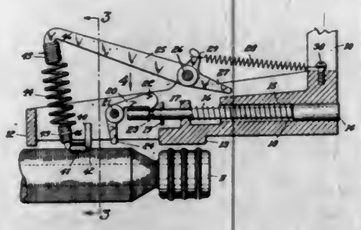


1. A holder for hats comprising an outer carton and a plurality of superposed frames for holding the hats, each frame having a horizontal top wall adapted to support the brim of a hat, said wall being provided with an opening for passage of a hat crown and also having downwardly extending side walls on the sides thereof resting directly on the top wall of the next lower frame whereby each hat is supported independently of the weight of the other hats.

1,663,929. WEFT DETECTOR IN TRANSFERRER ARM. HERBERT H. WATSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,092. 9 Claims. (Cl. 139—271.)

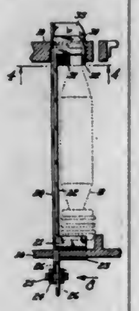
1. In weft detecting mechanism for a loom having a transferrer arm receiving a regular movement toward the

surface to be detected sach detecting beat of the loom, a weft engaging detecting unit, a coil spring having one end connected to the unit, and connections between the other end of the coil spring and the transferrer arm, said coil



spring constituting the only support for said detecting unit and said spring and detecting unit being freely suspended from the connections to be movable as a whole in any direction.

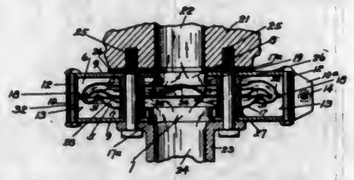
1,663,930. SLIDE CRADLE FOR WEFT-REPLENISHING LOOMS. HERBERT H. WATSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,093. 6 Claims. (Cl. 139—232.)



1. In a weft replenishing mechanism having provision for guiding a stack of bobbins certain of which are relatively long with tips of small diameter and certain of which are relatively short with tips of large diameter, a pair of slidable members defining a bobbin releasing element at the bottom of the stack, each slide having a plurality of bobbin tip engaging portions certain of which hold one type and other portions to hold the other type of bobbins when the slidable members are in one relative position and said portions releasing both types of bobbins when the slidable members are in another relative position.

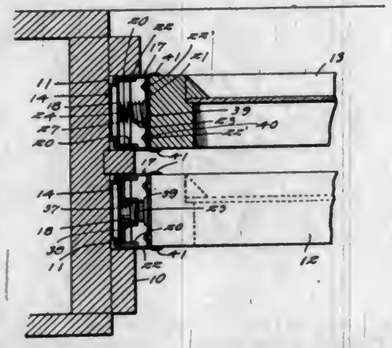
1,663,931. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. MILLARD WOODSOME, Littleton, Colo., assignor of fifty-one one-hundredths to James D. Canary, Littleton, Colo. Filed Mar. 21, 1925. Serial No. 17,389. 7 Claims. (Cl. 48—180.)

1. A vaporizer for internal combustion engines comprising a cylindrical casing having concentric inlet and outlet openings and adapted to receive exhaust gases, a chamber arranged within the casing and consisting of peripherally connected disks and having central openings and provided therein with outwardly extending flanges connected with the casing at the central openings thereof, and a spreader consisting of a disk arranged within the chamber in spaced relation with the said disks and providing a narrow peripheral passage, said disks having annu-



lar undulations and the spreader disk being provided at the center with a concavo-convex portion located opposite the said openings in said chamber.

1,663,932. WINDOW CONSTRUCTION. FERDINAND ZIGANEK and WILLIAM E. METTLER, Detroit, Mich. Filed Mar. 1, 1927. Serial No. 171,860. 9 Claims. (Cl. 20—49.)

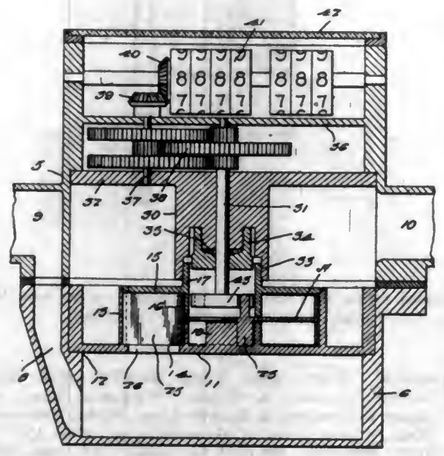


1. In a window, opposed stiles, a sash therebetween and members operatively slidably engaging each stile having pivots engaging the adjacent sides of the sash permitting rotation of the sash from a position where it aligns with the members to a position where it is disposed at an angle thereto and latches preventing longitudinal movement of the sash with relation to the pivots automatically disengaging the pivots to permit such movement when the sash is in the last named position.

1,663,933. MILK METER. FRANK J. BENDER, Forest Park, Ill., assignor of one-eighth per cent to John C. Weirsert and one-eighth per cent to John Hollerbach, Forest Park, Ill., and one-eighth per cent to Leo Stiegart, River Forest, Ill. Filed Sept. 14, 1925. Serial No. 56,409. 1 Claim. (Cl. 73—37.)

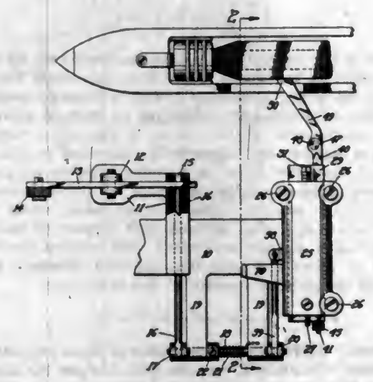
In a milk meter, a shell formed with an inlet and an outlet, shoulders formed in the shell, a casing having inner and outer concentric circular walls and top and bottom walls, said bottom wall projecting beyond the outer circular wall and resting on the shoulders to dispose the casing between the inlet and the outlet, a partition disposed radially between the circular walls and between the top and bottom walls, said casing having an opening in its top to one side of the partition and another opening in its bottom to the other side of the partition, a propeller including a circular plate having a radially disposed slot extending inwardly from its edge, a rim about the outer edge and having a slot at the slot of the plate, said inner circular wall being formed in top and bottom sections disposed in spaced relation to accommodate said plate therebetween, said plate being provided

with slots to allow liquid to pass into the space above the plate, a lug rising from the bottom of the casing centrally of the inner wall, a pin projecting downwardly and centrally from the plate to move in a circular orbit about the lug within the inner wall, said rim being of of such length as to engage said top and bottom walls to



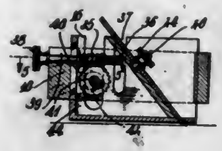
form therewith and with the concentric circular walls a measuring chamber, said partition extending into the slot of the plate and the rim, a second pin projecting upwardly from the center of the plate, a shaft, a crank on the shaft engaged by the second pin, and a counter mechanism operatively connected with the shaft.

1,663,934. SIDE-SLIP WEFT DETECTOR. ALBERT CEDERLUND, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 4, 1926. Serial No. 86,071. 9 Claims. (Cl. 139—286.)



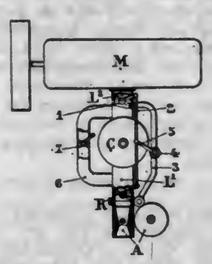
1. In a weft detecting mechanism for looms, a support, a carrier slidably and angularly movable on the support, a weft detector supported by and mounted for angular movement on the carrier and having a side slipping movement along an exhausted bobbin, said detector having a portion to engage the support to move the carrier angularly with respect to the support at substantial exhaustion of weft, and means effective when the carrier moves angularly to indicate weft exhaustion.

1,663,935. CUTTING TOOL. ANTON CORNELL, New York, N. Y. Filed Mar. 7, 1927. Serial No. 173,270. 1 Claim. (Cl. 145—55.)



In a cutting tool of the class described, a frame comprising spaced handles, a plane body slidably mounted in said frame comprising a smooth base portion adapted to engage the surface being worked upon, a bit slidably mounted in said plane body having a cutting edge thereon disposed through a slot in the base portion of said plane body, a pin disposed through elongated slots in said plane body and mounted at its ends in the sides of said frame, a shaft disposed through elongated slots in said plane body and journaled at its extremities on the sides of said frame, a shaft pivotally connected at its inner end to said pin and rotatively journaled intermediate its ends in said frame, a worm on said shaft, a worm gear on said first mentioned shaft meshed with the worm of said second mentioned shaft, teeth formed on the edge of the slot of said plane body through which said first mentioned shaft is disposed, gear segments rigidly mounted on said first mentioned shaft in mesh with the teeth of said edge portion, and a thumb knob on the external end of said second mentioned shaft adapted to be manipulated for driving said gear segments to raise and lower said plane body for adjustably positioning the base portion thereof in close proximity to the surface being worked.

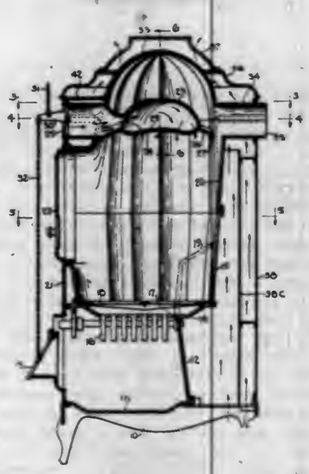
1,663,936. EXPLOSION-ENGINE SUPERCHARGER. RENÉ JEAN PAUL EMILE COZETTE, Neuilly-sur-Seine, France. Filed Dec. 12, 1925, Serial No. 75,088, and in France Dec. 29, 1924. 1 Claim. (Cl. 123—119.)



A supercharging device for an explosion engine, comprising a carburetor, a compressor placed between said carburetor and engine, a controlling valve member placed

between said carburetor and said compressor, another controlling valve member placed between said compressor and the engine, said controlling valve members being suitably conjugated so that they act simultaneously, a slow speed duct directly connecting said carburetor to the admission pipe of the engine, said duct opening into said pipe beyond said compressor in the direction of flow, and being provided with a cock integrally connected to said controlling valve members.

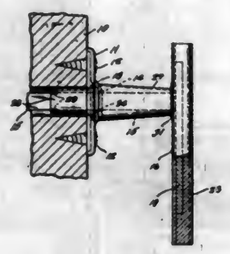
1,663,937. HEATING APPLIANCE. JOHN B. EHRLICH, Portland, Oreg. Filed July 15, 1926. Serial No. 122,616. 1 Claim. (Cl. 126—77.)



In a stove, the combination of a combustion chamber having a dome over the top thereof and having a smoke outlet projecting backwardly from the bottom of said dome; an air warming inlet projecting forwardly from the bottom of said dome; an air warming box mounted within said combustion chamber near the bottom of said dome and spaced therefrom, said air warming box having a circular form and having a somewhat concave perforated under side and a convex upper side, said warming box having an inlet duct projecting through said air warming inlet and spaced therefrom, said inlet duct having a damper therein; a damper for admitting air to the under side of the grates in the combustion chamber: and means for connecting said dampers causing same to operate in unison.

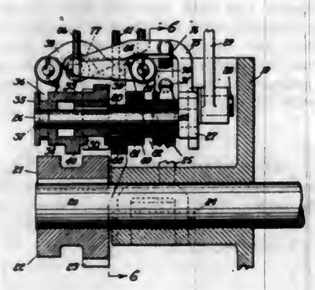
1,663,938. DOOR HANDLE. JOSEPH GOODMAN, Whitneyville, Conn., assignor to The Mt. Carmel Mfg. Co., Mount Carmel, Conn., a Corporation of Connecticut. Filed Dec. 31, 1924. Serial No. 759,034. 5 Claims. (Cl. 292—347.)

1. A handle comprising a channel shaped cross bar provided with inturned flanges along the sides thereof and having an opening in the central wall, a spindle extending through said opening, a bar secured to the spindle and extending longitudinally in the channel, and a block of material hard at ordinary temperatures and plastic when



heated filling said channel and clamped about said bar by said flanges while in the plastic condition.

1,663,939. PICK AND PICK MOTION FOR BOX LOOMS. ALBERT A. GORDON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1926. Serial No. 104,186. 16 Claims. (Cl. 139—179.)

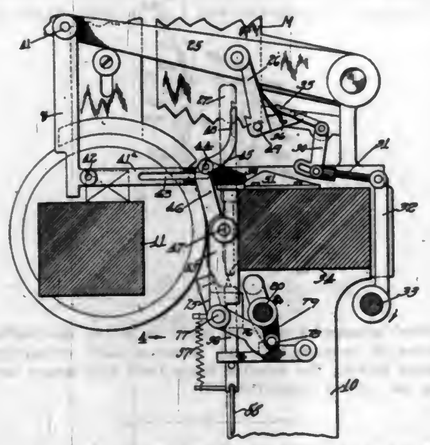


1. In a box controlling mechanism for looms having a set of shifting boxes and a box lever to control the position of the boxes, a member having a regular movement in a plane of action and completing its cycle of movement every second pick of the loom, a pinion to cooperate with the member and operatively connected to the lever to move the latter when said pinion receives an angular movement, sliding starting teeth for the pinion located on diametrically opposite sides thereof, each tooth being movable into operative position with respect to the member having a regular movement, and pattern controlled means to move and hold both of said members in the plane of the rotating member at the same time.

1,663,940. REVOKING MECHANISM FOR AUTOMATIC LOOMS. ALBERT A. GORDON and ALFRED F. MORRELL, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 17, 1926. Serial No. 116,726. 14 Claims. (Cl. 139—231.)

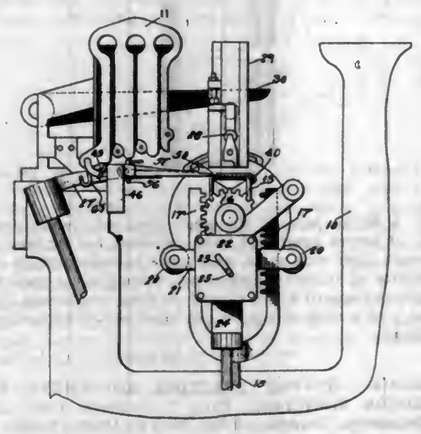
1. In a weft replenishing loom, a lay, a magazine and a plurality of shifting shuttle boxes at one side of the

loom, and means to revoke the transfer and prevent shifting of the shuttle boxes if the running shuttle en-



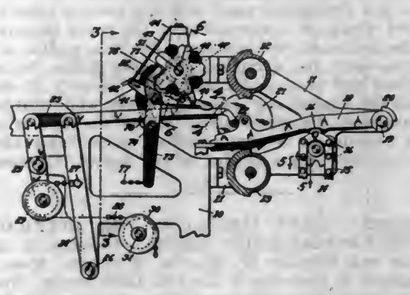
gages said revoking means on forward movement of the lay.

1,663,941. CUTTING AND CLAMPING MECHANISM FOR PICKS AND PICK LOOMS. ALBERT A. GORDON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1926. Serial No. 127,697. 12 Claims. (Cl. 139—263.)



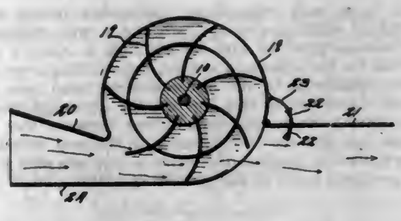
1. In a loom, a weft carrier magazine, a weft end holder, a lay, a plurality of shuttle boxes mounted thereon at the magazine end of the loom, means to move said shuttle boxes to and from active position, means to transfer a weft carrier to the active shuttle box, a thread cutting and clamping device mounted on each shuttle box, and means to actuate the cutting and clamping device associated with the active shuttle box only.

1,663,942. COLOR INDICATOR FOR WEFT-REPLENISHING LOOMS. ALBERT A. GORDON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 19, 1926. Serial No. 142,773. 7 Claims. (Cl. 139—232.)



1. In a color indication mechanism for a weft replenishing loom having a vibrator lever, a vibrator gear rotatably mounted thereon, a vibrator connector given operative movements by the vibrator gear, a shuttle box actuating mechanism operated by the vibrator connector, and a color slide, a drop weight lever to position the vibrator connector, a control lever operatively connected with the color slide, and means operatively related to the drop weight lever and the control lever to give the latter a plurality of positions as the vibrator moves under influence of the vibrator gear and to complete the movement of the color slide prior to the movement of the shuttle box actuating mechanism.

1,663,943. AIR-OPERATED POWER GENERATOR. WILLIAM L. HAYS, Sterling, Colo. Filed Aug. 14, 1926. Serial No. 129,201. 2 Claims. (Cl. 170—5.)

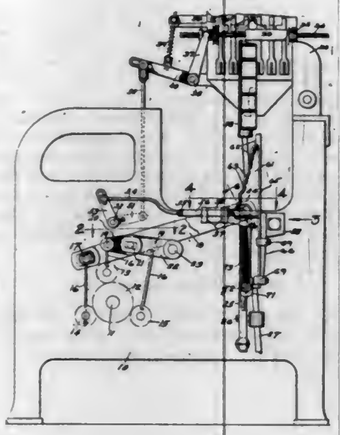


1. An air current power generator comprising a vertically disposed shaft journaled for rotation, a series of substantially radially disposed blades carried by the shaft, a cylindrical casing journaled upon the shaft and housing the series of blades, the said casing being provided at one side with a funnel shaped air inlet opening and at an opposite side portion with an air exit opening, and a vertically disposed vane hinged to the casing eccentrically thereof and at that edge of the air exit opening which is the more remote from the air inlet opening.

1,663,944. METHOD FOR PREVENTING SCORIFICATION OF FIRE BARS, GRATE SURFACES, AND THE LIKE. ROBERT HOFFELT, Hamburg, Germany, assignor to the Firm Metallisator Berlin Aktien-Gesellschaft, Berlin-Neukolln, Germany. Filed Jan. 29, 1925, Serial No. 5,661, and in Germany partly on Feb. 28, 1924. 1 Claim. (Cl. 91—70.2.)

A method for preventing the scorification of fire or furnace bars, grates and the like comprising projecting molten aluminum against the cold work-piece to form upon it a preliminary firmly adherent coating, heating the coated workpiece to approximately the fusion temperature of the aluminum, thereby alloying the inner portion of said coating with the workpiece, the outer portion becoming oxidized and projecting a subsequent quantity of molten aluminum against said coated workpiece while still in its heated state, thereby breaking through the layer of oxide and forming an integral accretion to the inner alloyed portion, producing a coating of any desired thickness.

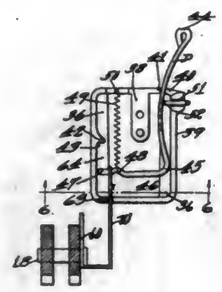
1,663,945. COLOR INDICATION FOR MULTICOLOR WEFT-REPLENISHING LOOMS. CHARLES R. HOWARD and RICHARD W. WAGNER, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 8, 1926. Serial No. 140,352. 6 Claims. (Cl. 139—232.)



1. In a weft replenishing mechanism having a plurality of shifting shuttle boxes and a weft replenishing mechanism provided with a color slide to select a proper bobbin for the exhausted shuttle, a box lifting lever operatively connected to the boxes, a multi-faced cam operatively connected to and deriving its movement from the box lifting lever, and connections between the multi-faced cam and the color selector on the weft replenishing mechanism to position the latter in any one of a number of positions equal to the number of boxes.

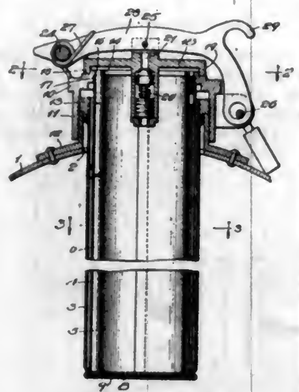
1,663,946. WEFT-DETECTOR-WITHDRAWING MEANS. VICTOR H. JENNINGS, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 13, 1926. Serial No. 108,942. 4 Claims. (Cl. 139—271.)

1. In a weft detector for weft replenishing looms, a support, a side slipping weft detector mounted on the support and having an angular movement on indicating beats of the loom and having a forward sliding movement on non-indicating detecting beats of the loom relatively to the support, means defining a pivotal connection between the detector and the support about which the detector swings on indicating beats of the loom, resilient means connected to the detector to hold the same in normal position, and withdrawing means for the detector having connection with the latter at a point intermediate the



pivotal connection and the point at which the resilient means is connected to the detector, said withdrawing means moving the detector away from said means defining the pivotal connection.

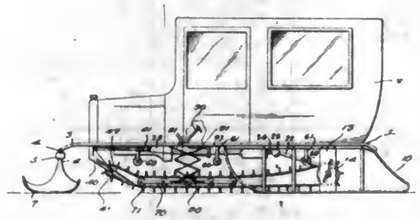
1,663,947. TANK-FILLING TUBE. LOUIS KESSLER, Chicago, Ill., assignor to Roy W. Hill, trustee. Filed Apr. 26, 1923. Serial No. 634,756. 3 Claims. (Cl. 220—88.)



1. A filling tube of the kind described, comprising a pair of spaced inner and outer cylinders having openings through their side walls, said inner cylinder formed of a plurality of arcuate segments overlapping along their side edges and spaced apart thereat to form continuous openings, and a closure cap for the open end of both of said cylinders.

1,663,948. WINTER TRACTION EQUIPMENT FOR MOTOR VEHICLES. PAUL C. LAPORTE, Clair, New Brunswick, Canada. Filed Feb. 4, 1926. Serial No. 85,979. 4 Claims. (Cl. 180—5.)

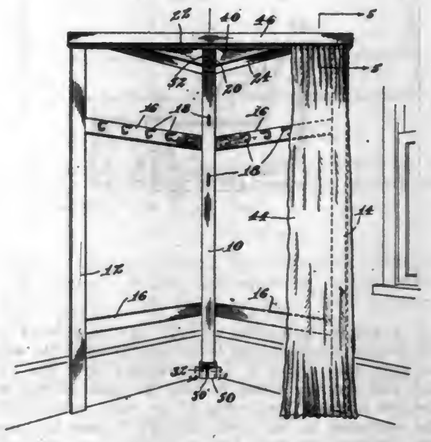
1. The combination with the chassis of a motor vehicle, of rear runners fixed to the chassis, front runners connected with the chassis and controllable by the steering means of the motor vehicle, a drive shaft carried by the rear runners, a sprocket drum fixed to said drive shaft, a connection between the drive shaft and the shaft of the engine of the motor vehicle, hangers on the forward portion of the chassis, idler sprocket gears connected with said hangers, a traction belt having spaced and parallel chains engaged with the sprocket teeth of the drum and also engaged with the teeth of said idler sprocket gears, and also having transverse traction bars interposed between and connected to the chains, bars arranged between the upper and lower stretches of the chains and having anti-friction means in engagement with the chains, means for yieldingly pressing said bars downwardly, interposed



between and connected with the bars and the chassis, a lever disposed in the body, a connection between the said lever and the forward portion of the traction belt for forward movement of said forward portion, and means for raising the forward portion of the traction belt on forward movement thereof.

1,663,949. PORTABLE WARDROBE. ANDREW S. LAWTON, Brockton, Mass., assignor to Mawhinney Last Company, Brockton, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1924. Serial No. 741,351. 7 Claims. (Cl. 312—6.)

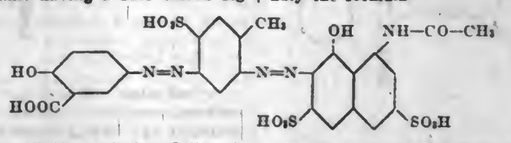
2. A portable wardrobe adapted to be set in the corner of a room, comprising a frame having a rear corner leg and two front wall legs, and a top mounted thereon; the said rear leg being adjustable in length, for canting the



wardrobe to hold its top against the walls while its feet are on the floor.

1,663,950. RED DISAZO DYES FOR COTTON PRINTING. WILHELM NEELMEIER, Leverkusen, near Cologne, and HANS SCHNEIDER, Stammheim, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 23, 1925, Serial No. 17,772, and in Germany Apr. 4, 1924. 3 Claims. (Cl. 260—84.)

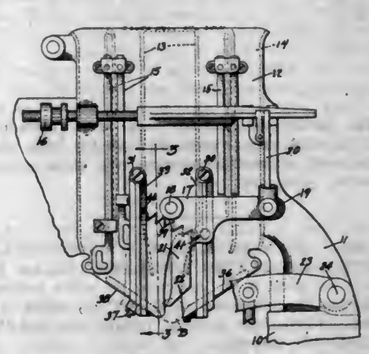
3. As a new product the disazo dye having most probably the formula—



obtainable by combining in alkaline solution 2-diazo-1-methyl-benzol-5-sulfonic acid-4-azo-salicylic acid with 1-acetylamino-8-naphthol-3-6-di-sulfonic acid, being in form of its alkali metal salt a dark red powder soluble in water and in concentrated sulfuric acid with a bluish-red color, yielding by reduction with zinc and hydrochloric acid, para-amino-salicylic acid, 2-4-di-amino-toluol-5 sulfonic acid and 7-amino-1-acetyl-amino-8-naphthol-3-6-di-sulfonic acid and yielding when printed on cotton with chromium acetate bluish-red shades of excellent fastness to chlorine, washing and light.

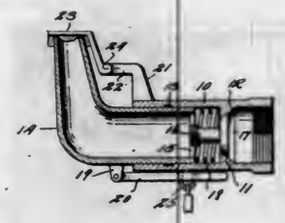
1,663,951. GIVE WAY FOR WEFT-REPLENISHING MECHANISM. OSCAR V. PAYNE and RICHARD GREENLEAF TURNER, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 15, 1926. Serial No. 148,401. 9 Claims. (Cl. 139—251.)

1. In a weft replenishing mechanism, a pair of movable supports for holding one end of a bobbin in transfer position, means to hold the supports apart a distance less than the diameter of the butt of the bobbin, and a single yielding device connected to both of said supports to hold said supports in normal position and resisting movement of each support away from normal bobbin supporting position, each support being yieldable and the deformation



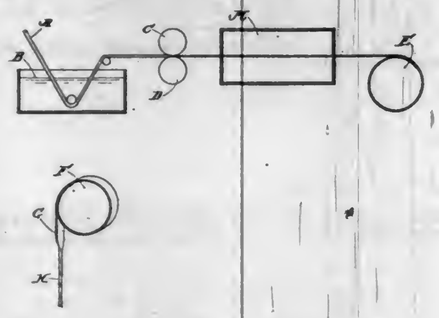
of the device being dependent upon the diameter of the butt of the bobbin and independent of the relative amounts each support moves.

1,663,952. FAUCET. WILLIAM H. PEADEN, Tulsa, Okla., assignor to R. D. Donnelly and B. R. Graham, Tulsa, Okla. Filed Mar. 14, 1927. Serial No. 175,266. 4 Claims. (Cl. 251—115.)



1. A faucet comprising a body having a valve seat and a spout rotatably and longitudinally shiftable within the body and having a valve coacting with the valve seat, and a spring acting to hold the spout shifted in a direction to cause the closing of the valve, a lever pivotally connected to the spout whereby it may be turned, and a fulcrum member with which the lever coacts when the spout has been turned by the lever to a discharge position.

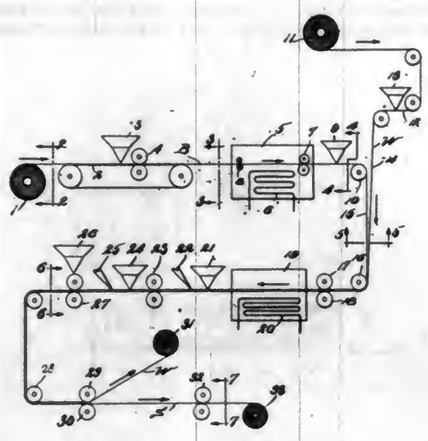
1,663,953. WATERPROOF YARN AND METHOD OF MAKING SAME. JAMES C. PEABODY, Boston, Mass. Filed Nov. 23, 1922. Serial No. 602,782. 9 Claims. (Cl. 117—53.)



1. The method of making yarn which includes completely impregnating a strip of fibre bat with vulcanizable material, thereafter twisting said strip, and finally vulcanizing said yarn.

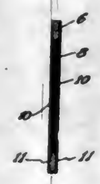
1,663,954. BUFFING-LEATHER SUBSTITUTE AND PROCESS OF MAKING THE SAME. ROLAND B. RESPESS, New York, N. Y., assignor, by mesne assignments, to Respro Inc., Cranston, R. I., a Corporation of Rhode Island. Filed June 5, 1920. Serial No. 386,713. 16 Claims. (Cl. 91—68.)

1. That process of making buffing leather which comprises forming a bat consisting of a plurality of separable layers of unspun fibers, impregnating the bat with adhesive, drying and pressing the bat under tension, coating one side of the bat with a rubber solution, vulcanising the coating of rubber, and splitting the coated side



of the bat from the other side to leave the vulcanized rubber coating with a very thin layer of fibers adhering to one side of it.

1,663,955. FUEL-MIXING DEVICE. HASSEL D. ROBINSON, Washington, D. C. Filed Jan. 7, 1927. Serial No. 159,637. 1 Claim. (Cl. 48—180.)

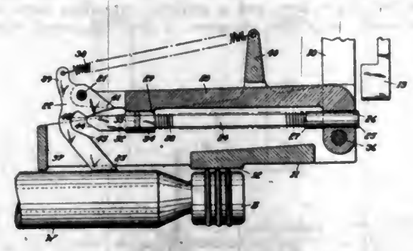


A fuel mixer comprising a body adapted to be gripped between companion portions of a carbureter and intake manifold and having opposed flat faces, said body being formed with an opening constituting a fuel passage and having its opposite faces formed with recesses extending about the margins of the opening and constituting seats, gauze disks spaced from each other and covering opposite ends of said opening and having their marginal portions fitting snugly into and completely filling said seats, the outer surfaces of said disks being flush with the faces of said body, and facing sheets completely covering the said faces of said body and secured against the same and overlapping the portions of the gauze fitting into said seats and secured thereon, said sheets being formed with openings registering with the opening in the body.

1,663,956. WEFT DETECTOR FOR LOOM TRANSFERRER ARMS. EPPA H. RYON, Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 1, 1926. Serial No. 138,965. 13 Claims. (Cl. 139—271.)

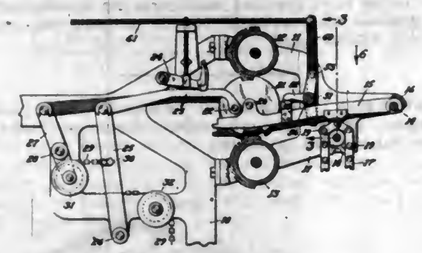
1. In a weft detector for a loom having a transferrer arm moved toward the surface to be detected on detecting beats of the loom and an indicating lever, a weft detector, an indicating plunger to cooperate with the lever and to be operatively related to the detector to indicate

weft exhaustion and normally in non-indicating position relatively to the lever, and a common support for said detector and indicating plunger movably mounted with



respect to the transferrer arm and movable relatively to the transferrer arm to present the detector to the surface to be detected.

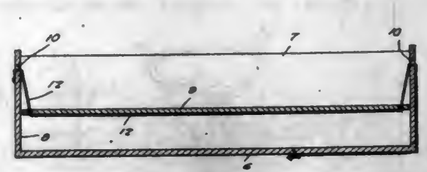
1,663,957. COLOR INDICATOR FOR WEFT-REPLENISHING LOOMS. EPPA H. RYON, Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 4, 1926. Serial No. 138,968. 8 Claims. (Cl. 139—232.)



1. In a weft replenishing loom having a multi-color magazine and a color selector therefor, a pair of spaced actuating cylinders, a vibrating element comprising a lever, a gear rotatable thereon, and a vibrator connector operatively connected to the gear, shuttle box actuating mechanism operatively connected to the connector, a pattern mechanism to give the lever a complete movement prior to the actuation of the shuttle box controlling mechanism by the connector, and means connected to the selector and actuated by a portion of the vibrating element, whereby the selector is given a complete movement before the movement of the shuttle box controlling mechanism is completed.

1,663,958. DISPLAY BOX. JOHN WESLEY SAUER, Lexington, Ky. Filed Jan. 26, 1927. Serial No. 163,705. 1 Claim. (Cl. 217—64.)

The combination with a cigar box having a bottom, side and end walls, each of the end walls being formed with a pair of openings adjacent the upper edge thereof and adjacent the front and rear sides of the box; of a false bottom loosely arranged within the box, and provided with an opening at each corner, a length of cord bent back upon itself intermediate its ends, the free ends of the cord extending upwardly through the openings at one end of the false bottom, and through the adjacent openings in the adjacent end wall of the box, the extremities of the cord being secured to said end of the box adjacent the rspective openings formed therein, the intermediate portions of the cord being disposed beneath the false bottom adjacent the respective side edges thereof, said cord extending upwardly through the opening in the opposite end of the false bottom and through the openings in the adjacent end wall of the box, and a pin fastener permanently carried by the bend in the cord for

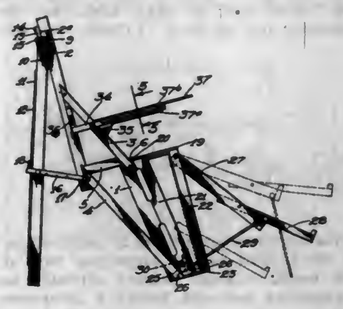


forcible engagement with the outside of the box for supporting the false bottom in any vertically adjusted position in the cigar box.

1,663,959. PREPARATION OF PHOTOGRAPHIC DEVELOPERS. PIERRE SCHESTAKOFF, Paris, France. Filed Apr. 29, 1925, Serial No. 26,804, and in Germany May 12, 1924. 4 Claims. (Cl. 95—88.)

1. A photographic developer formed by mixing with substances constituting an ordinary developer, nitrous acid salts and sulphurous acid salts, substantially as described.

1,663,960. COMBINATION CHAIR AND STEPLADDER. EMANUEL W. SWEIGARD, San Diego, Calif. Filed Aug. 18, 1924. Serial No. 732,650. 5 Claims. (Cl. 155—42.)

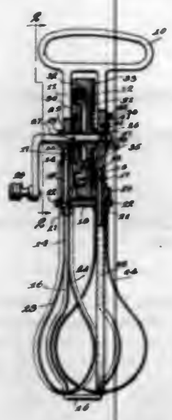


1. In a device of the class described, a frame provided with a seat member intermediate its ends, a rear leg means pivotally connected to near the upper portion of said frame, means in connection with said frame and said rear leg means for variously pivotally connecting and locking the same relatively to each other, resilient rear leg positioning means in connection with said frame and said rear leg means for simultaneously engaging and disengaging both sides of said frame and said rear leg means from each other intermediate their ends, and another seat member pivotally connected to the front portion of said first mentioned seat member.

1,663,961. BEATING AND MIXING DEVICE. WILLIAM J. TAYLOR, Nenana, Territory of Alaska. Filed Jan. 6, 1925. Serial No. 853. 6 Claims. (Cl. 74—58.)

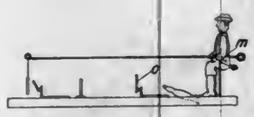
2. A device of the character described, comprising a main supporting frame, driven shafts carried by said frame, pinions arranged to rotate said driven shafts, a drive shaft rotatably and slidably supported by said frame, a gear fixed to said drive shaft and adapted to mesh with one of said pinions, a second gear loosely carried by said drive shaft and adapted to continuously mesh with both

of said pinions, and means for causing said second mentioned gear to turn with said shaft when said first mentioned gear is moved by the sliding of said drive shaft



and disengaged from the pinion the same is arranged to engage with for changing the speed of the agitating elements.

1,663,962. ANGLING GAME REQUIRING PATIENCE AND SKILL. WILLY ROBERT UHLIG, Dresden, Germany. Filed Apr. 26, 1927. Serial No. 186,770, and in Germany Dec. 30, 1926. 1 Claim. (Cl. 273—140.)



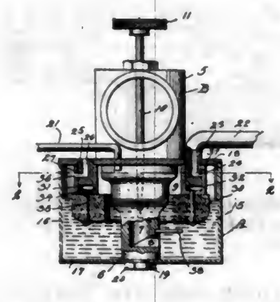
An angling game, comprising in combination a playing board, an angling rod, a supporting bow at one end of said board, a guide element shiftably mounted on said supporting bow and having a transverse bore for said angling rod, pins, toy figures with hooks and with barbed hooks mounted on said board inclined at different angles and to different sides, and a ring suspended at the end of the elastic angling rod and designed to be placed over a pin or hook to catch the same, the time used by a player for catching a predetermined number of pins or figures being measured, the game serving also as tremometer.

1,663,963. MAGNESIUM ALLOY AND METHOD OF MAKING SAME. WILLIAM R. VEAZEY, Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 8, 1924. Serial No. 754,464. 8 Claims. (Cl. 75—1.)

4. As a new product, an alloy consisting of magnesium and approximately fifteen (15) hundredths per cent of vanadium.

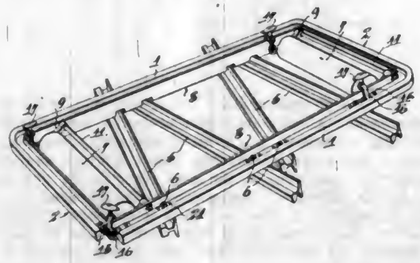
1,663,964. PUMP. CHARLES I. WILLIAMS, Utica, N. Y. Filed June 29, 1925. Serial No. 40,358. 4 Claims. (Cl. 158—36.1.)

1. In a device of the class described, the combination of a chamber having communication with a fuel supply pipe, a suction pipe and the atmosphere, the suction pipe extending into the upper end of the chamber and having a radially extending bore, the atmospherical communication including a stud extending into the upper end of the chamber having an axial bore communicating with the atmosphere and a radially extending bore communicating with the chamber, a float mounted within



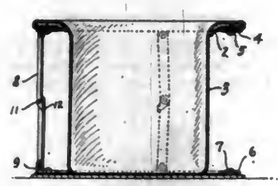
the chamber, and sleeve valves secured to the upper face of the float slidably receiving the stud and the part of the suction pipe extending into the chamber, the valves being provided with ports for communication at different times with the port in the stud and a port in said suction pipe.

1,663,965. ROAD DRAG. ANDREAS AIKELE, Moore, Idaho. Filed Apr. 16, 1926. Serial No. 102,584. 6 Claims. (Cl. 37—146.)



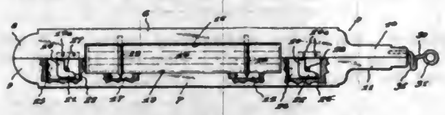
1. A road drag comprising a framing, drag bars secured to the framing with the edges thereof presented for engagement with the surface of the roadway, rollers for supporting the framing above the ground, and adjustable mounting means for mounting the rollers on the framing in a manner permitting adjustment of the height of the framing from the ground, said mounting means comprising a pivot rod associated with each roller and mounted on the frame, bearing members for each roller pivoted at one end to the respective pivot rod and providing rotatable bearing for the roller, and means for elevating and lowering the free ends of the bearing members to vary the position of the rollers relatively to the framing, said elevating means each comprising a screw bearing secured to the framing, an adjusting screw operable through the screw bearing and having a turning handle, and upper and lower abutment members secured on the lower end of the adjusting screw and adapted for engaging above and below the free end of the respective pivoted bearing member to raise and lower said free end accordingly as said adjusting screw is screwed up or down.

1,663,966. COLLAPSIBLE COMMODE. LUCY COTTON AMENT and CLARA HILFIKER, New York, N. Y. Filed July 22, 1927. Serial No. 207,754. 2 Claims. (Cl. 4—142.)



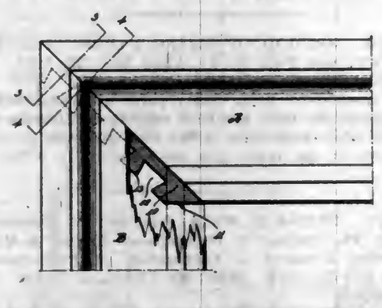
1. A device of the character described comprising a base, an upper rim, foldable supports connecting base and rim, a flexible body secured to and depending from the upper rim, said body having a bottom integral with its sides, a marginal flange on said body extending outwardly from the body bottom and in the same plane therewith, said flange being secured to said base.

1,663,967. FILE AND BINDER. ABRAHAM ASHKENAS, Brooklyn, N. Y. Filed Mar. 25, 1927. Serial No. 178,259. 3 Claims. (Cl. 129—23.)



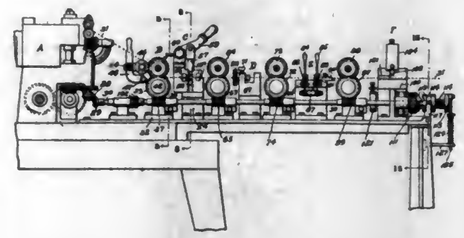
1. A binder comprising two members of similar form, which when united define an opening for the reception of leaves, a hooked member carried by one of said members and a transverse pin disposed in the other of said similar members, said hooked member and pin being adapted to slidably engage with each other to secure said similar members in position.

1,663,968. INTERLOCKING ANGLE JOINT FOR DOOR AND WINDOW TRIMS. HARRY H. BECKANSTIN, Hartford, Conn. Filed May 29, 1926. Serial No. 112,706. 2 Claims. (Cl. 20—92.)



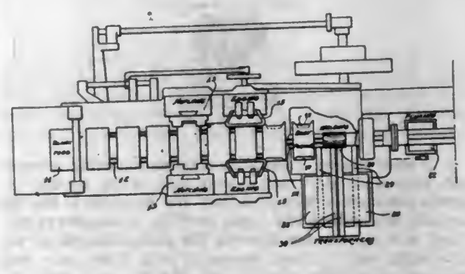
1. Trim for doors and windows comprising a head section, and a side section, said sections having their ends mitred for abutting relation to determine the angular relation between said sections, the mitred ends having abutting faces extending from the outer side of the trim to a depth substantially equal to one-half of the thickness of the sections, one of said sections having an extension at its inner side and the other section having a recess at its inner side for receiving the extension, said sections having upon the extension and in the recess interlocking means extending throughout substantially the entire width of the abutting faces of the sections.

1,663,969. WIRE STRAIGHTENING AND CUTTING MACHINE. WILLIAM E. BOWLER, Niagara Falls, N. Y., assignor to The Spirella Company, Meadville, Pa., a Corporation of Pennsylvania. Filed June 17, 1925. Serial No. 37,731. 8 Claims. (Cl. 140—71.)



1. Wire fabricating mechanism, comprising in combination mechanism for bending wire into successive oppositely disposed overlapping loops, straightening mechanism for uncoiling, flattening, untwisting, and removing edgewise bends from the fabric so formed, mechanism for severing the fabric into lengths, and driving mechanism organized to actuate all of said mechanisms simultaneously, synchronously and automatically.

1,663,970. MEANS FOR THE ELECTRIC WELDING OF CAN BODIES. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a Corporation of New York. Filed July 1, 1925. Serial No. 40,731. 2 Claims. (Cl. 219—4.)

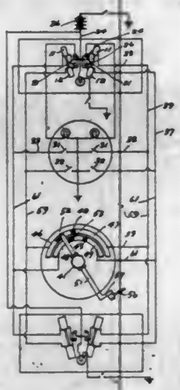


1. An electric welding device including: a support for the interior of a can body, and a transformer consisting of a primary composed of two coils and a secondary comprising two members extending through the coils to engage one side of the exterior of the body on the support and a third member connected to the other two and extending outside of the coils to engage the other side of the exterior of the body on the support.

1,663,971. DIRECTION INDICATOR. JOHN D. BROWER, Jr., Piedmont, Calif. Filed May 31, 1921. Serial No. 473,603. 4 Claims. (Cl. 177—337.)

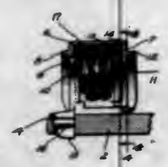
1. In a device of the character described, two indicating signals, two circuits associated with each signal having means incorporated therein for positively actuating the signal in oposite senses and each signal having means associated therewith for opening its actuating circuit and closing the other circuit when rendered active, a switch for controlling the signals comprising a base having two parallel conducting contact ways each way being intercepted subatantially intermediate its ends by a relatively short length of insulation, thereby dividing each way into two electrically separate segments, two electrically integral grounding contact fingers, one for each way, means

for mounting the fingers for sliding movement one respectively over each way and for selectively contacting the respective ways singly when the mounting means is



moved in one or the other of two opposite senses, a conductor between each of said segments and one of the signal circuits, and other conductor means for completing the electrical circuits of the system.

1,663,972. SHOE CLEANER. CHARLES BRUDERLEIN, New York, N. Y. Filed Mar. 10, 1927. Serial No. 174,340. 3 Claims. (Cl. 15—112.)



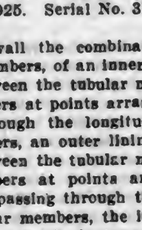
1. A shoe cleaner comprising a frame including integral and removable side walls, said side walls having inwardly extending flanges, means for connecting the removable side wall to the frame whereby a chamber is provided with an opening between the facing flanges of the side walls, and a brush having a back fitted into said chamber, said back resting on said flanges while the bristles of the brush extend through the opening between the flanges.

1,663,973. WEIGHING SCALE. FRANK H. CHAPMAN, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 5, 1925. Serial No. 60,385. 3 Claims. (Cl. 116—129.)



2. In a device of the class described, in combination, a chart comprising a sheet of material formed into a cylinder, supporting spiders secured to said cylinder, and means for reinforcing said chart including a plurality of rings interposed between the spiders in said cylinder, said reinforcing rings having annular flanges to increase the strength and rigidity thereof.

1,663,974. RAIL-FASTENING CONSTRUCTION. WILLIAM COOK, Fort Madison, Iowa. Filed Aug. 29, 1927. Serial No. 216,266. 2 Claims. (Cl. 238—377.)



1. A method of securing a rail to a base member comprising forming a recess in said base member, inserting a fastener into said recess in position to hold the rail on said base member, and pouring a moldable material into said recess around said fastener whereby when the said material hardens it will hold the fastener in the recess.

1,663,975. WHEELED MASSAGING DEVICE. TANOUS H. DAVID, Sacramento, Calif. Filed May 10, 1926. Serial No. 108,128. 2 Claims. (Cl. 128—57.)

1. A chiropractic treatment device comprising spine engaging wheels of substantial width, leg members to which said wheels are secured, straps joining said leg members, and an adjusting member connecting said straps whereby the transverse distance separating said wheels may be adjusted.

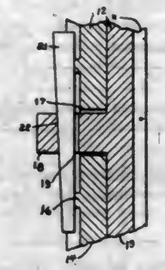
1,663,976. METHOD OF SIZING PAPER. JUDSON A. DE CEW, New York, N. Y. Filed Sept. 22, 1926. Serial No. 137,167. 6 Claims. (Cl. 92—21.)

1. A method of sizing paper pulp, which consists in precipitating the rosin size with sulphate of alumina that has been made basic after it has been dissolved in water and before it can react with the size.

1,663,977. FURNACE WALL. ROBERT A. FORESMAN, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 22, 1925. Serial No. 32,111. 1 Claim. (Cl. 110—1.)

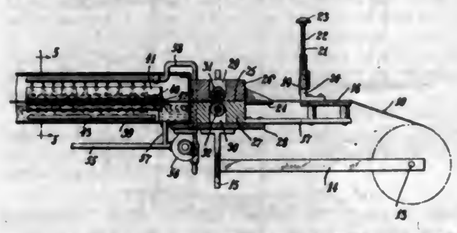
In a furnace wall the combination with a pair of spaced tubular members, of an inner lining member bridging the space between the tubular members and engaging the tubular members at points arranged at one side of a plane passing through the longitudinal center lines of the tubular members, an outer lining member also bridging the space between the tubular members and engaging the tubular members at points arranged at the other side of the plane passing through the longitudinal center lines of the tubular members, the inner and outer lining members being arranged in juxtaposed position with each other, said outer lining member being provided with an aperture, raised portions on said outer member arranged

at opposite sides of the aperture, a projection on said inner member extending through and beyond the aperture in the outer member and having a transverse aper-



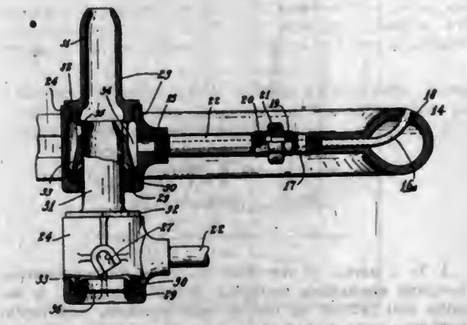
ture in the portion thereof extending beyond the outer member, and a locking member extending through the aperture in the projection and engaging the raised portions of the outer member.

1,663,978. MATCH-SPLINT MACHINE. SAMUEL M. FRIEDE, New York, N. Y., and CHARLES HAKEMEYER, Paterson, N. J., assignors, by mesne assignments, to American Safety Match Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 15, 1926. Serial No. 81,479. 19 Claims. (Cl. 144—50.)



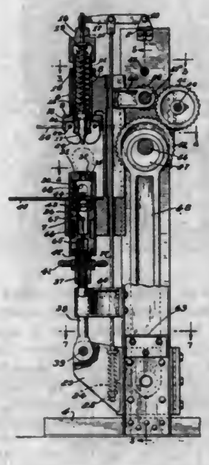
1. A machine for cutting wood veneers into match splints, comprising an impregnating bath, means for guiding the stock through the bath at an angle which will prevent breaking the stock, a drier for drying the veneer stock in the strip, a cutter for cutting the stock transversely into individual match splints, a magazine to receive the splints direct from the cutter, and means for feeding the stock uninterruptedly through and to the aforesaid elements.

1,663,979. VULCANIZING APPARATUS. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1922. Serial No. 582,956. 18 Claims. (Cl. 18—17.)



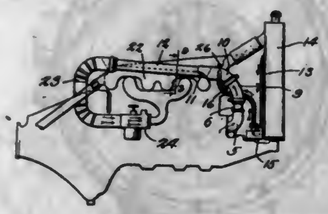
2. An apparatus including press members for subjecting molds to treatment in combination with, means for supplying fluid to the interior of the molds, including a header composed of sections having inter-fitting seats and guiding devices on their extremities, means associated with the press members for coupling by their operation the sections of the header together, and branch connections between the sections and the molds whereby articles within the molds may be subjected to internal fluid pressure.

1,663,980. NUT-CRACKING MACHINE. WILLIAM E. GIESECKE, New York, N. Y., assignor to Charles T. Wilson Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 3, 1927. Serial No. 172,422. 12 Claims. (Cl. 146—10.)



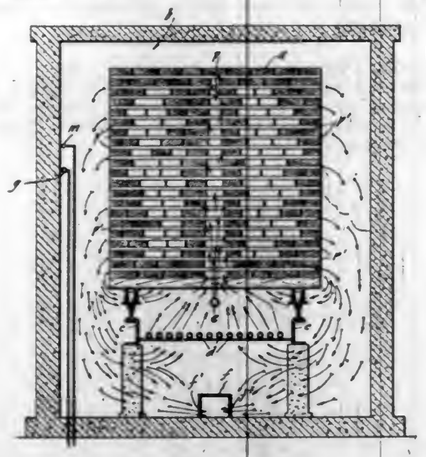
1. In a machine of the class described, a pair of jaws mounted for relative movement toward and from each other, one of said jaws having a resiliently mounter core cutter of substantially cylindrical shape to partially segregate from the remainder of the nut a central column.

1,663,981. AUTOMATIC OILER. CHARLES F. GOFORTH, Lemoore, Calif. Filed Oct. 26, 1926. Serial No. 144,339. 1 Claim. (Cl. 123—119.)



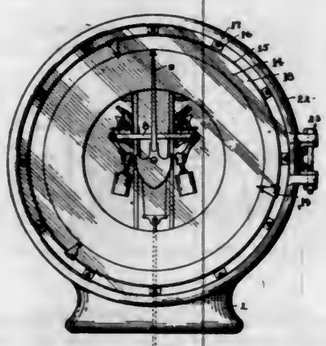
In combination with the radiator and breather pipe of an internal combustion engine, a pipe communicating with the breather pipe to carry off gases therefrom, a heating pipe adapted to be positioned over the exhaust pipe of an internal combustion engine and having a passageway heated by the heat from the exhaust pipe, a tank communicating with the radiator to receive water therefrom, a pipe leading from the tank and extending into the pipe leading from the breather pipe and having a threaded extremity a valve member having a slotted lower portion fitted in the pipe and adapted to be adjusted to vary the length of the slotted portion to regulate the quantity of vapors passing from the tank to the pipe, and means for establishing communication between the heating pipe and carburetor of the engine.

1,663,982. METHOD AND MEANS FOR ECONOMICALLY DRYING BY AIR CIRCULATION. OLIVER P. M. GOSS, Seattle, Wash., and RALPH H. RAWSON, Portland, Oreg. Filed Sept. 16, 1926. Serial No. 135,834. 6 Claims. (Cl. 34—46.)



1. In the method of drying lumber, piled as described to form a blind flue therein, the air under the bottom of the lumber pile being heated, and a spray of steam injected directly into said flue to induce the heated air to rise therein and spread laterally therefrom, the improvement consisting in removing by mechanically induced suction a portion of the air settling at the bottom of the kiln, relatively to a predetermined condition of relative humidity within the kiln.

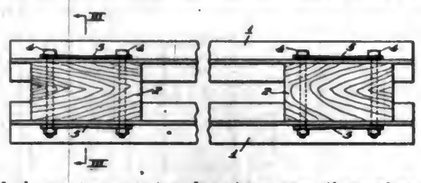
1,663,983. PREDETERMINED-WEIGHT SCALE. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 25, 1920. Serial No. 361,173. 5 Claims. (Cl. 116—129.)



2. In a predetermined weight scale, in combination, a dial, an index co-operating therewith, an annulus secured on said dial, and a plurality of distinctively marked indicators on said annulus, said mounting means being so arranged that said indicators are adjustable and detachable.

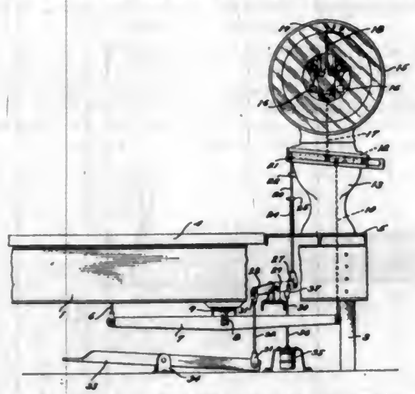
1,663,984. RAILROAD TIE. BRODERICK HASKELL, Franklin, Pa. Filed June 16, 1927. Serial No. 199,188. 5 Claims. (Cl. 238—58.)

1. A railway tie comprising a pair of spaced metal sections each having a vertically disposed web and a flange base, rail-supporting blocks of wood arranged between the webs of said sections, clamps for attaching said blocks to said sections, and resilient means acting upon



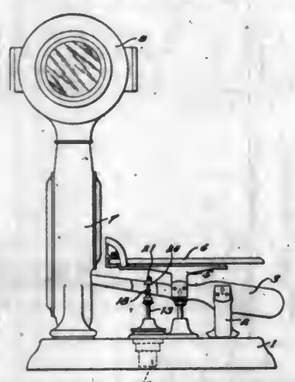
said clamps to prevent undue stress upon them when the blocks expand and to maintain the blocks firmly clamped between the sections when the blocks contact.

1,663,985. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Jan. 24, 1927. Serial No. 163,031. 6 Claims. (Cl. 265—72.)



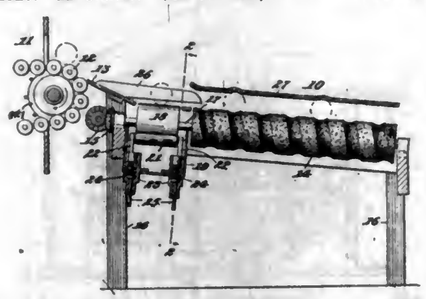
1. In a device of the class described, in combination, weighing mechanism including a lever, and locking means for said lever including a dash pot.

1,663,986. WEIGHING SCALE. SAMUEL N. HURT, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Apr. 2, 1926. Serial No. 99,262. 6 Claims. (Cl. 265—39.)



1. In a device of the class described, in combination, weighing mechanism including movable members, a metallic ball carried by one of said members, and means including a U-shaped element carried by the other of said members and fixedly engaging said ball to form a flexible joint between said members.

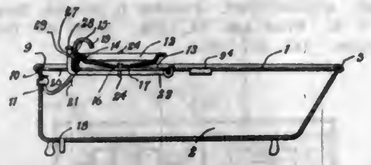
1,663,987. APPARATUS FOR COATING ARTICLES. CHARLES MURDOCK JAMIESON, Winter Haven, Fla., assignor, by mesne assignments, to Brogdex Company, Winter Haven, Fla., a Corporation of Florida. Filed Feb. 14, 1922, Serial No. 536,553. Renewed Aug. 20, 1927. 12 Claims. (Cl. 91—41.)



5. Coating apparatus for fruit or like articles comprising in combination, means for applying coating material including elements presenting surfaces adapted to receive a spread of the coating material and means for spreading said material thereon, said elements being arranged to present said surfaces in juxtaposition to engage the articles to be coated at points spaced circumferentially thereof, means for projecting the articles to be coated in a rolling movement along said surfaces, said elements being movable to vary the axes of rotation of said articles in said rolling movement along said surfaces, means to move said elements, and means arranged to receive said articles from said surfaces and operative to distribute adhering coating material thereover.

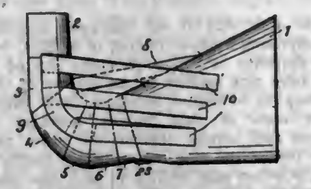
10. Coating apparatus comprising, in combination, composition-applying roll means, and rubbing or brushing means arranged to provide runway means receiving articles from said roll means.

1,663,988. TUB COVER. CARL S. JOHNSON, Butte, Mont. Filed Aug. 31, 1927. Serial No. 216,741. 6 Claims. (Cl. 4—4.)



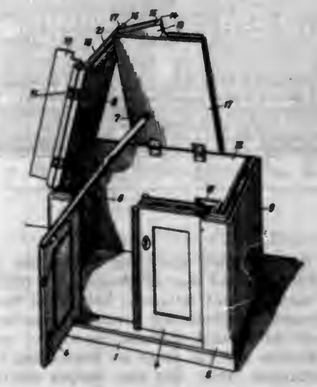
1. A tub cover comprising a body having marginal portions adapted to rest upon walls of a tub with the body in covering relation to the tub, a basin, resilient means yieldably supporting said basin in an elevated position above an opening in the body, means to move the basin downwardly against the action of said resilient means and releasably retain the basin in a depressed position, and means to conduct water from a tub faucet into said basin.

1,663,989. PHONOGRAPH SOUND AMPLIFIER. CHESTER ALFRED LINTON, Kansas City, Mo. Filed Nov. 16, 1920. Serial No. 424,347. 63 Claims. (Cl. 181—27.)



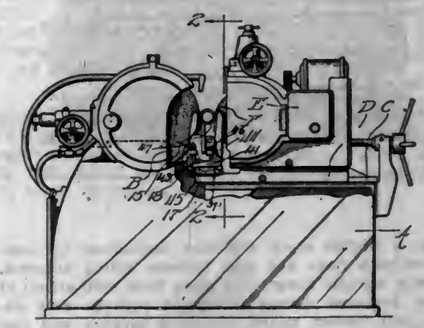
1. A phonograph sound amplifier comprising a restricted portion adapted to receive sound waves, a sounding-chamber portion connected to the restricted portion, the inner surface of the restricted portion and sounding-chamber portion having a varnish coating, and an asphaltum coating over the varnish coating.

1,663,990. CUPBOARD. ALBERT HERMANN FRANZ MAROHN, Hamburg, Germany. Filed Feb. 25, 1927, Serial No. 171,012, and in Germany Dec. 8, 1926. 1 Claim. (Cl. 312—144.)



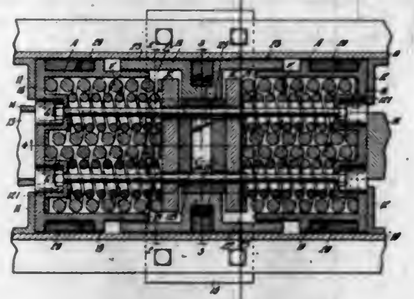
Folding cupboard, comprising in combination with a base plate, a lower part of the cupboard rigidly connected with said base plate, an upper part of the cupboard composed of several elements each of which is hingedly fixed on said lower part of the cupboard and adapted to be folded over into the lower part of the cupboard, a top plate, and means for securely connecting the elements of the upper part of the cupboard with said top plate when the upper part of the cupboard is in the position for use.

1,663,991. CENTERLESS WORK GUIDE. LESTER F. NENNINGER, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed May 31, 1927. Serial No. 195,409. 11 Claims. (Cl. 51—103.)



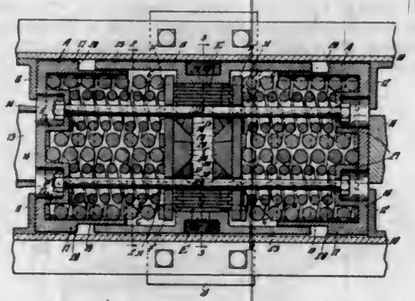
1. A work guide for a centerless grinder including a support, a work rest carried by the support, spaced rock shafts carried by the support, guide members rising from the shafts on opposite sides of the work rest, and means for rocking the shafts to vary the position of the guides with respect to the work rest.

1,663,992. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed July 21, 1924. Serial No. 727,108. Renewed Nov. 28, 1927. 5 Claims. (Cl. 213—24.)



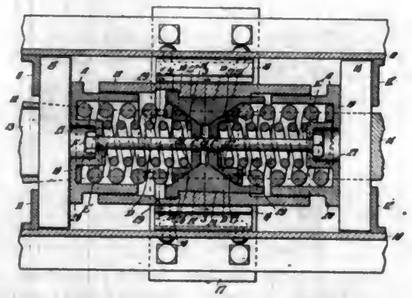
1. In a friction shock absorbing mechanism, the combination with front and rear followers; of a friction shell interposed between said followers, said shell having two sets of opposed, longitudinally arranged interior friction surfaces, one set of said surfaces converging rearwardly of the mechanism and the other set converging forwardly of said mechanism; front and rear wedges adapted to be actuated by the respective followers; front and rear pairs of wedge friction shoes, cooperating with the respective sets of friction surfaces of the shell; and front and rear spring resistance elements cooperating with the respective sets of friction shoes.

1,663,993. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed July 21, 1924, Serial No. 727,109. Renewed Nov. 28, 1927. 12 Claims. (Cl. 213—24.)



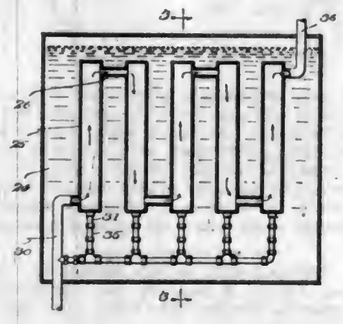
1. In a friction shock absorbing mechanism, the combination with front and rear follower acting elements, relatively movable toward and away from each other; of tandem arranged springs interposed between said elements, and friction means interposed between said tandem arranged springs, said means including two sets of relatively movable friction plates and pressure transmitting members interposed between each of said follower elements and one of said sets of plates, said sets of plates cooperating respectively with the tandem arranged springs during relative movement of said plates, whereby said plates are actuated upon relative movement of said follower elements to compress said springs.

1,663,994. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Oct. 1, 1924, Serial No. 740,933. Renewed Nov. 28, 1927. 9 Claims. (Cl. 213—24.)



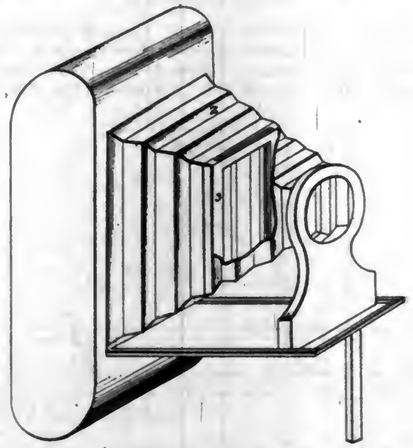
1. In a friction shock absorbing mechanism, the combination with front and rear follower acting members, relatively movable toward and away from each other; of tandem arranged spring resistance elements interposed between said follower-acting members, a purality of longitudinally disposed, relatively movable friction shoes interposed between said springs, certain of said shoes cooperating with one of said follower-acting members to be moved thereby during the compression stroke, and the remaining shoes cooperating with the other follower-acting member to be moved thereby during said compression stroke; a friction shell having curved interior friction surfaces with which said shoes cooperate and means for pressing said shoes against said surfaces, said means including a pair of relatively movable lateral wedge pressure creating members adapted to be resisted by the respective spring resistance elements.

1,663,995. CONDENSER. FORREST L. BAYANT, Binghamton, N. Y. Filed Apr. 12, 1924. Serial No. 706,178. 2 Claims. (Cl. 257—42.)



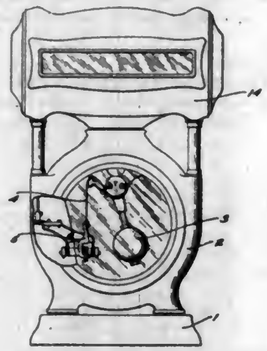
1. In an apparatus of the character described, a separator comprising a tank adapted to be filled with cooling liquid, a plurality of hollow members located within the tank, an inlet pipe leading to the bottom of the first one of the plurality of hollow members, pipes connecting the successive ones of said hollow members alternately at the top and bottom thereof, an outlet pipe leading from the top of the last one of the plurality of hollow members, a return pipe leading to said inlet pipe and connected with the bottoms of the respective hollow members, and check valves interposed in said connections.

1,663,996. SHADER FOR CAMERAS AND IN THE ART OF REGULATING LOCALLY THE SHADING OF A PHOTOGRAPH. MARK W. COLLET, Philadelphia, Pa. Filed Feb. 4, 1919. Serial No. 275,020. 9 Claims. (Cl. 95—5.)



1. A shader for cameras, having an obstruction screen composed of transparent material with obstructions photographically formed thereon.

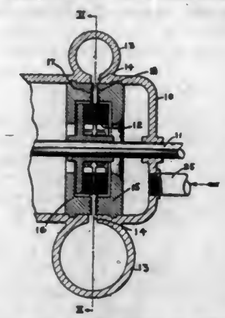
1,663,997. RACK-FOOT CONNECTION. CHASE C. REED, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed July 16, 1926. Serial No. 122,856. 5 Claims. (Cl. 265—37.)



1. In a device of the class described, in combination, a movable scale member, a rack foot, means for pivotally connecting said rack foot to said movable scale member, and substantially frictionless means for preventing shifting of said rack foot along its pivotal axis.

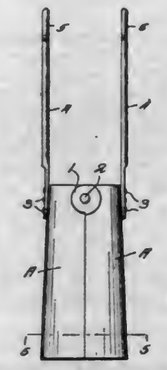
1,663,998. MEANS FOR MINIMIZING FLUID PULSATIONS. HENRY F. SCHMIDT, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1925. Serial No. 33,415. 6 Claims. (Cl. 103—103.)

1. The combination with a pump comprising a central revoluble multi-vane runner and a volute discharge chamber surrounding said runner, of a pair of fixed juxtaposed rings interposed between said runner and said chamber and defining therebetween an annular discharge port, the juxtaposed faces of said rings being provided with opposing annular flanges, the inwardly presented faces of which define a different angle with the axis of said runner than do the outwardly presented faces, whereby a plurality of successive annular discharge



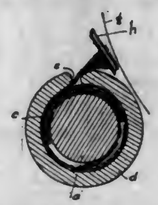
nozzles is formed, each of which has a different discharge coefficient in an outward direction than in an inward direction.

1,663,999. TOOL FOR BALLING AND REMOVING OF PLANTS. BENJAMIN HENRY SINGLETARY, Baton Rouge, La. Filed Aug. 26, 1927. Serial No. 215,698. 8 Claims. (Cl. 55—119.)



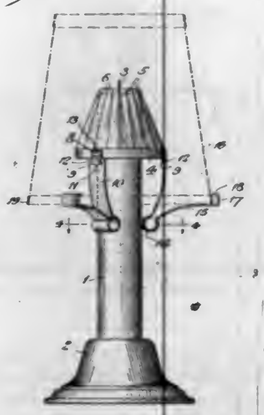
1. An implement of the class described for balling and removing plants comprising two substantially duplicate blades, means for connecting said blades for movement one with respect to the other, said blades when in closed position providing a substantially cylindrical body, one end portion of said body when the blades are in their substantially closed position being circular and the opposite end being elliptical.

1,664,000. PROCESS AND APPARATUS FOR WAVING THE HAIR. HENRI STEFFEN, Sierre, Switzerland, assignor to Emile Gissler, Aigle, Switzerland. Filed Jan. 13, 1927, Serial No. 160,893, and in Switzerland Jan. 23, 1926. 13 Claims. (Cl. 132—36.)



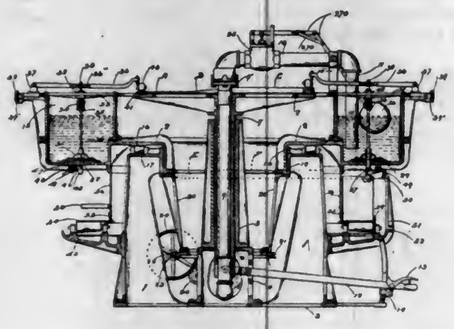
1. The process of semi-permanently undulating the hair which comprises winding a tress of hair on a cold element and applying heat to each turn of tress during said winding operation.

1,664,001. SHADE HOLDER FOR CANDLES. DOUGLAS MACCOLLUM STEWART, New York, N. Y. Filed Mar. 2, 1925. Serial No. 12,553. 7 Claims. (Cl. 240—141.)



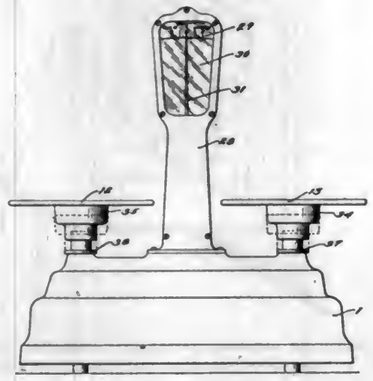
1. A shade holder for candles, comprising an element engaging and descending with the upper burning end of the candle, a plurality of members connected to said element to depend therefrom, said members engaging with the candle body at spaced peripheral points of the latter and then extending outwardly to form supports for a shade, the portions of said members which engage the side of the candle body being inclined to planes tangent to the candle body at the points of contact and the inclination of all of said members corresponding in direction, whereby when any of said members engage protuberances upon the candle body, the said angle of inclination will serve during descent of the holder to cause a gradual rotation of the members and elements about the axis of the candle and free the members from the protuberances.

1,664,002. RECEPTACLE-FILLING MACHINE. CHARLES W. STONE, RALPH H. BUMBAUGH, and JOHN DAN, Los Angeles, Calif.; said Stone assignor to said Bumbaugh and said Dan. Filed Aug. 25, 1924. Serial No. 733,866. 11 Claims. (Cl. 226—96.)



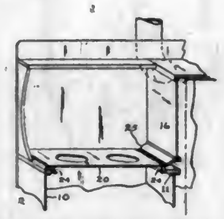
1. In a machine for filling receptacles with fluids, the combination with a rotatable fluid containing reservoir having a plurality of outlets, and a receptacle supporting device movable with said reservoir, of valves to open and close said outlets, valve operating devices movable with said reservoir, a circular cam track for operating said valve operating devices, and a lever selectively operable to move said cam track into or out of engagement with said valve operating devices.

1,664,003. WEIGHING SCALE. CHARLES G. STRUBLER, Chicago, Ill., assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 28, 1925. Serial No. 58,965. 5 Claims. (Cl. 265—54.)



1. In a device of the class described, in combination, a frame, a lever fulcrumed upon said frame, platter supports pivotally supported upon each end of the lever, weight and load receiving platters mounted upon said supports, and means carried by said platter supports adjustable relatively thereto and engageable with said frame to lock said lever against relative movements.

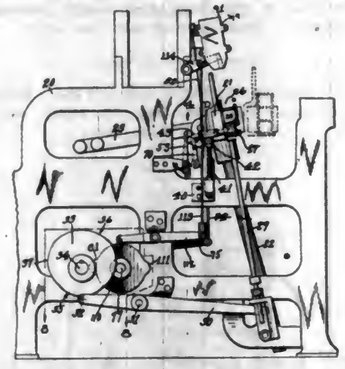
1,664,004. STOVE-TOP CONSTRUCTION. ALBERT H. TINNERMAN, Cleveland, Ohio. Filed Feb. 4, 1927. Serial No. 165,833. 6 Claims. (Cl. 126—214.)



1. In a stove, the combination with a grate frame, of a removable grille mounted thereon, and a solid top adapted to be interchangeably positioned with the grille upon the frame, said top having the plane of the upper surface thereof disposed above the plane of the upper surface of said frame, and having a gas passageway associated with one edge thereof.

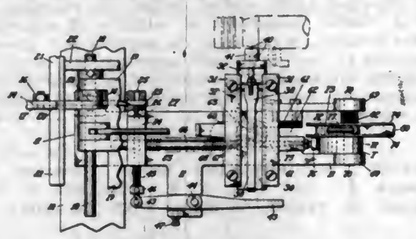
1,664,005. LOOM TO TRANSFER ON BACKWARD STROKE OF THE LAY. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 28, 1925. Serial No. 65,438. 10 Claims. (Cl. 139—232.)

1. In a loom, a lay movable backwardly and forwardly therein, shifting shuttle boxes on the lay movable relatively to the lay when the latter is in its forward position and stationary with respect to the lay when the latter is in its rear position, said boxes accommodating a plurality of shuttles all but one of which are idle when



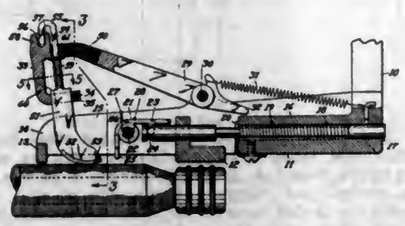
the lay is in backward position, and means to effect replenishment of weft into an idle shuttle while the lay is in its backward position.

1,664,006. FEELER MOVABLE TO DISTRIBUTE WEAR ON YARN. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to The Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1925. Serial No. 66,156. 18 Claims. (Cl. 139—269.)



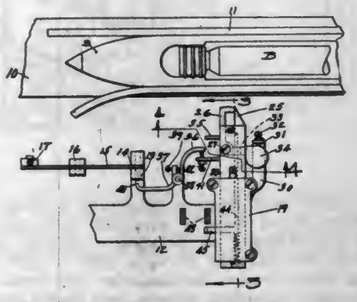
1. In a loom having a supply of weft, a detector to cooperate with the same, and means to give said detector a regular progressive movement in the direction of the length of the weft to present the same to different portions of the weft independently of the position of the weft relatively to the loom.

1,664,007. WEFT DETECTOR IN TRANSFERRER ARM. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1926. Serial No. 154,804. 4 Claims. (Cl. 139—271.)



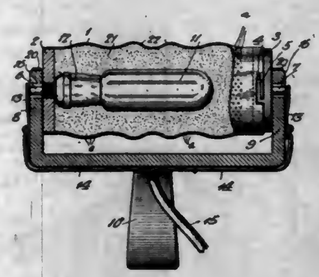
1. In weft detecting mechanism for a loom having a regularly moving transferrer arm, a carrier lever member pivoted to the transferrer, a detector member mounted on the carrier lever and moved by the latter toward the surface to be detected as the transferrer arm moves downwardly, and complementarily formed connections between the members, said connections including an open notch in one member into which a part of the other member extends.

1,664,008. NORMALLY STATIONARY INERTIA-ACTUATED WEFT DETECTOR. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 19, 1926. Serial No. 123,402. 5 Claims. (Cl. 139—286.)



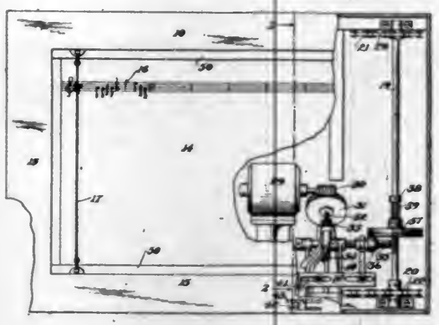
1. In a weft detector for a loom having a lay movable toward the detector and a surface to be detected, a movable support, a swinging detector, a pivoted connection between the detector and the support, said detector having a portion to engage the surface lying on one side of the pivoted connection, a weighted member movable in a horizontal plane and operatively connected to the swinging detector and having the center of gravity thereof located on that side of the pivoted connection opposite a portion of the surface to be detected, said weighted member being normally at rest and acting by reason of the latent energy stored therein to turn the swinging detector on the pivotal connection as the surface to be detected engages the aforesaid portion during the forward movement of the lay.

1,664,009. MEDICINAL ROLLER. JACOB H. WEBER, Brooklyn, N. Y. Filed May 14, 1925. Serial No. 30,189. 3 Claims. (Cl. 128—57.)



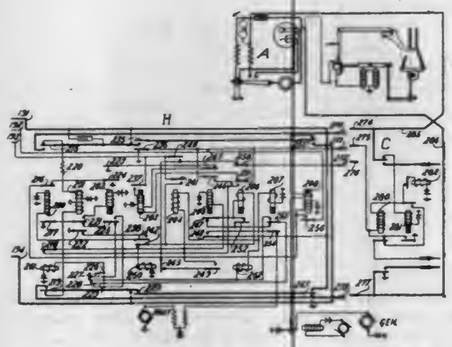
1. A therapeutic device comprising a handle having apertured forked arms, slots in said arms leading to said apertures, and a hollow perforated roller mounted within said arms including a base member, a cap, pins carried by said base and cap, an electric heating element extending into said roller supported by said base, contacts mounted on said arms contacting with said pins and electrical connections between said pins and said heating element.

1,664,010. MUSIC-TIME-COUNTING DEVICE. EDWARD HARVEY WELCH, Oakland, Calif. Filed Jan. 22, 1925. Serial No. 4,032. 6 Claims. (Cl. 84—484.)



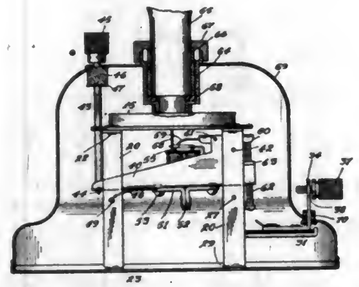
1. A music time counter comprising a music rack upon which music may be arranged with the staffs disposed longitudinally of the rack, a pair of continuous chains disposed one at each side of said music rack and parallel with the staffs on the music, indicating members extending between said chains over said rack and the music thereon whereby said indicating members will indicate the notes on each staff of the music on the rack, said indicating members being disposed at equally spaced distances apart, spring-pressed connections connecting the ends of the indicating members to the chains whereby the indicating members will be under tension and will not vibrate during the operation of the device, the connections at the opposite ends of said indicating members and the chains being spring-pressed in opposite directions, and means for operating said chains in unison at a desired rate of speed.

1,664,011. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Chicago, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Original application filed July 6, 1921, Serial No. 482,765. Divided and this application filed Dec. 7, 1925. Serial No. 73,553. 11 Claims. (Cl. 179—27.)



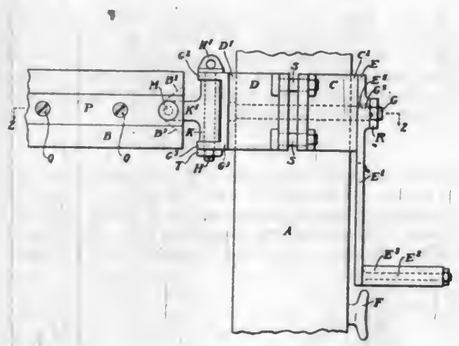
1. In a telephone system, a series of automatic switches and interconnecting trunk lines for extending a talking connection to a called line, one of said switches being a final connector switch, a controlling line relay in said connector in bridge of the associated trunk line, means for automatically reversing the line conductors of said trunk line when the connection to the called line is completed, and means responsive to said reversal for disconnecting said line relay.

1,664,012. LOUD-SPEAKING RECEIVER. SAMUEL E. WITT, Chicago, Ill. Filed Aug. 12, 1924. Serial No. 731,608. 8 Claims. (Cl. 179—108.)



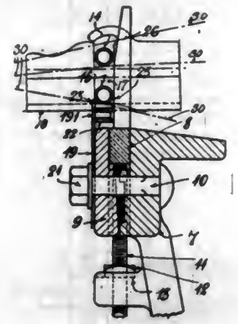
1. In a receiver, a diaphragm and mounting therefor, an electromagnet and an armature therefor connected to the diaphragm, a spring yieldingly holding the armature under tension, means for adjusting the spring tension independent of variation of adjustment of the armature, a frame for the electromagnet pivotally supported at one end by said mounting, and means for adjusting the mounting on its pivot to move the electromagnet to vary the air gap between the armature and electromagnet.

1,664,013. HAND-REEFING BOOM. CIPRIANO ANDRADE, Jr., New York, N. Y. Filed Oct. 5, 1927. Serial No. 224,049. 2 Claims. (Cl. 114—106.)



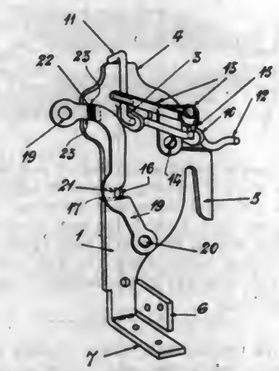
1. In a hand reefing boom; a mast; a shaft located through said mast, said shaft being adapted to rotate said reefing boom; a gooseneck having a surface flat both vertical and sideway on the side of said mast opposite the reefing boom; a flat element fastened direct to said shaft, said flat element being also rotatable directly against said flat surface of the gooseneck; and a hand holder integral with and in alignment with said flat element.

1,664,014. NEEDLE-GUIDING DEVICE FOR LOOMS FOR WEAVING PILE OR OTHER FABRICS. FREDERICK WILLIAM AUSTIN, Oldham, England. Filed Mar. 27, 1925, Serial No. 18,710, and in Great Britain Mar. 28, 1924. 7 Claims. (Cl. 139—21.)



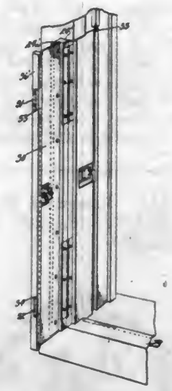
1. In a loom of the kind described provided with two needles one above the other for projection together, guiding means secured on the lathe to move with such lathe and the slay and extending close to the slay across the breadth of the warp space of the loom and presenting upwardly parts for presentation by the lathe below the path of the lower needle for the guidance and support thereof.

1,664,015. TUBE FRAME FOR HOLDING SPOOLS OF TUFT YARN. FREDERICK WILLIAM AUSTIN, Oldham, England. Filed May 15, 1925, Serial No. 30,644, and in Great Britain May 14, 1924. 9 Claims. (Cl. 139—10.)



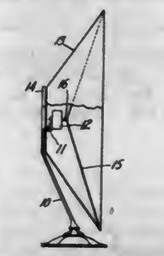
1. In a tube frame of the character described, end plates each characterized by being formed mainly as a plate of metal which presents a plane outer surface directed outwardly away from a spool in the tube frame and presents in its general plane a part for insertion between the side plates of a link of a carrying chain and also presents in its general plane and at the rear edge thereof, a hook-like projection for engagement with a holder for moving it to and from and holding it while away from a carrying chain.

1,664,016. WINDOW. STEPHEN BALLNER, Chicago, Ill. Filed Sept. 18, 1926. Serial No. 136,290. 6 Claims. (Cl. 20—12.)



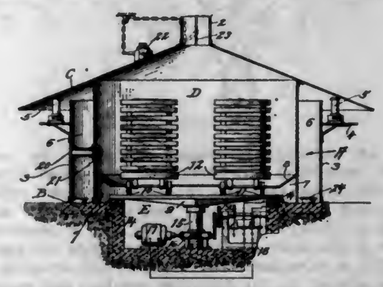
1. A window, including a frame, sashes fitted for vertical reciprocation therein, and a single means pivotally secured to said frame for permitting complete and simultaneous removal of said sash from said frame.

1,664,017. LOUD-SPEAKING DEVICE. JOHN C. BENJAMIN, Bronxville, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 4, 1924. Serial No. 747,735. 6 Claims. (Cl. 181—31.)



1. An acoustic device comprising a plurality of coaxially arranged diaphragms one disposed within another, peripherally secured together and arranged to provide therebetween an air chamber, and actuating means for said diaphragms located in said chamber.

1,664,018. PROCESSING AND DEHYDRATING APPARATUS. LOUIS H. BIEN, Palo Alto, Calif. Filed Nov. 4, 1926. Serial No. 146,085. 4 Claims. (Cl. 34—32.)



1. An apparatus of the character described, comprising a substantially cylindrical-shaped vertically disposed wall, a roof section, supported thereby and extending a

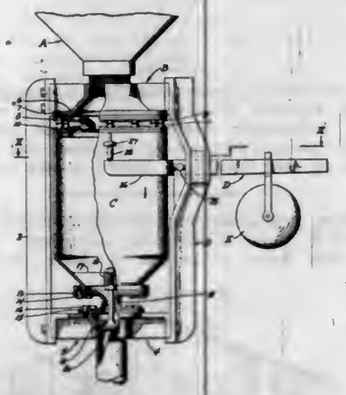
considerable distance over the vertical wall, a second vertical wall interspaced with relation to the first wall and forming an air inlet passage, a plurality of heaters supported with relation to the upper end of said inlet passage, said heaters being covered by the roof section and said roof sections slanting to direct heat into the upper end of the passage, means for directing air from the lower end of said passage into the housing, a stack connected with the roof and forming an outlet for the heated air, means in the stack for maintaining a predetermined temperature within the housing.

1,664,019. TRELLIS. JOSEPHINE W. BLACKMAN, New Haven, Conn. Filed Mar. 18, 1927. Serial No. 176,389. 1 Claim. (Cl. 47—47.)



The combination with a trellis, comprising a ring and a stem integral therewith, of a vase secured within the ring at the junction of the ring with the stem.

1,664,020. AUTOMATIC DISCHARGE VALVE. WILLIAM A. BRADLEY, deceased, San Francisco, Calif., by Irvin S. Thyle, administrator, San Francisco, Calif. Filed Sept. 8, 1925. Serial No. 54,892. 4 Claims. (Cl. 210—54.)

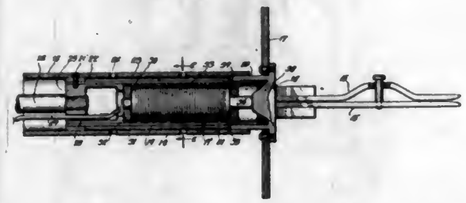


1. An automatic discharge mechanism for settling tanks, comprising a discharge member spaced from and disposed below the tank, a bowl below the tank and interposed between the tank and the discharge member so that settling matter from the tank is permitted to settle in the bowl and later discharge into the discharge member, a valve carried by the bowl and normally forming a closure for the discharge member, and means for permitting vertical movement of the valve and the bowl when a predetermined amount of matter has settled therein to permit discharge of settling matter.

1,664,021. PROCESS OF MANUFACTURING TETRAETHYL LEAD. WILLIAM S. CALCOTT, Penns Grove, ALFRED E. FARMELEE, Carneys Point, and FREDERICK B. LORRIMAN, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 3, 1926. Serial No. 146,063. 8 Claims. (Cl. 260—11.)

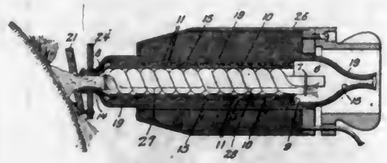
1. The process of producing tetra-ethyl lead which comprises treating lead, intimately associated with sodium and potassium, with ethyl chloride.

1,664,022. ELECTRIC WELDING APPARATUS. ALEXANDER CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., Hoboken, N. J., a Corporation of New York. Filed Feb. 17, 1927. Serial No. 168,939. 5 Claims. (Cl. 219—8.)



1. For use in electric welding, a combined electrode holder and shunt field resistance comprising a handle portion, a resistance element housed therein, means manually operable from the exterior of said handle portion for varying the resistance of said resistance element, and means for holding an electrode.

1,664,023. PROCESS OF AND MEANS FOR PERMANENTLY WAVING HAIR. EDWARD COULSON, Los Angeles, Calif. Filed Feb. 26, 1926. Serial No. 90,729. 19 Claims. (Cl. 132—36.2.)

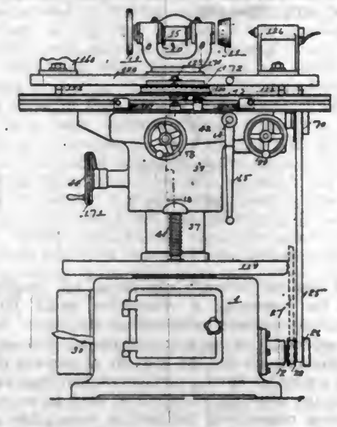


1. In the herein described process of permanently waving hair, the steps of winding a tress of hair on a curler, saturating a pad, applying a hair softening agent externally to the wet pad, placing the pad carrying the hair softening agent around the wound hair, applying vapor or moisture confining means about the pad, and then subjecting the hair and pad to the action of heat, for the purpose specified.

1,664,024. GRINDING MACHINE. JACOB DE KONING, Grand Rapids, Mich., assignor to Gallmeyer and Livingston Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Aug. 20, 1924. Serial No. 733,059. 2 Claims. (Cl. 51—166.)

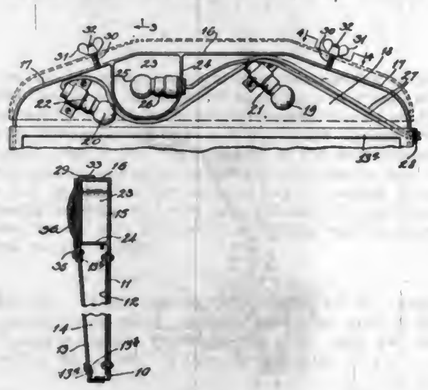
1. In a machine of the character described: a hollow column; a tool rotatably mounted on the column and having an operating pulley; a rotatable driving element having a pulley below the first-mentioned pulley; a sleeve turnably mounted around the column; a knee having a vertical movement on the sleeve; a table having a movement on the knee toward and away from the column; a work-supporting carrier having a movement on the table transverse to the table's movement and having a rack; a shaft rotatably mounted on the table and carrying a

gear meshing with the rack and having a sprocket wheel and a crank at one side of the machine; a shaft rotatably mounted on the table parallelly with the first-mentioned



shaft and having a sprocket wheel and a crank on the opposite side of the machine; a chain on the sprocket wheels; a belt carried by said pulleys and extending in the hollow column.

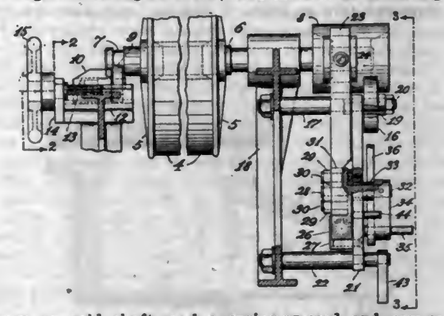
1,664,025. LICENSE-PLATE HOLDER. ERNEST L. ETHERIDGE, Brooklyn, N. Y. Filed Jan. 2, 1926. Serial No. 78,793. 6 Claims. (Cl. 40—132.)



1. A license plate holder comprising a narrow box-shaped casing, means for supporting the license plate in said casing, a chamber in said casing and extending into the top portion thereof, said chamber at the top of the casing opening outwardly through the front wall thereof, a cover plate for closing said opening at the top of the casing, stop light and tail light lenses in said cover plate, means for supporting independent electric bulbs in said chamber in alinement with said lenses, means encircling one of said bulbs mounted in said chamber to direct the light outwardly through the lenses registering therewith, and not into said chamber.

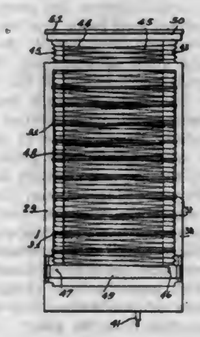
1,664,026. PAPER-FEED CONTROL. FRED FARMER, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a Corporation of New Jersey. Filed July 31, 1926. Serial No. 126,188. 4 Claims. (Cl. 242—68.)

3. The combination with a shaft for supporting a reel of paper, of means for permitting free rotation and effecting axial adjustment of said reel during paper feeding intervals, and mechanism for preventing shaft rotation during non-feeding intervals, said mechanism including a



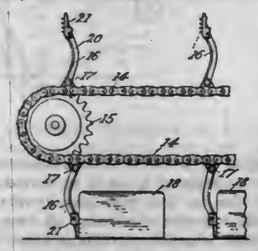
drum on said shaft, and a spring-pressed and cam-controlled braking device engaging said drum during non-feeding intervals only.

1,664,027. ELECTRIC FLYTRAP. DOMINIK FILLIER, Vienna, Austria. Filed Jan. 6, 1925, Serial No. 771. and in Austria Aug. 4, 1924. 13 Claims. (Cl. 43—112.)



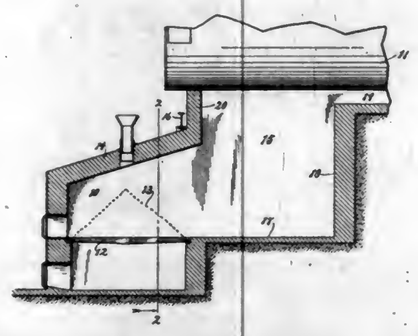
1. In an electric insect trap, the combination with a source of electric current, of an insulating frame, two conducting wires wound on said frame, and a protecting frame adapted to receive said insulating frame, means on said protecting frame for establishing an electric connection between each of said conducting wires wound upon said insulating frame and one of the poles of said source of current respectively upon said insulating frame being completely inserted in said protecting frame, the circuit between said conducting wires being closed by an insect when touching two wires.

1,664,028. MARKING DEVICE FOR WRAPPING MACHINES. MAX E. FOERNSLER, Richmond Hill, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Apr. 26, 1927. Serial No. 186,631. 6 Claims. (Cl. 101—8.)



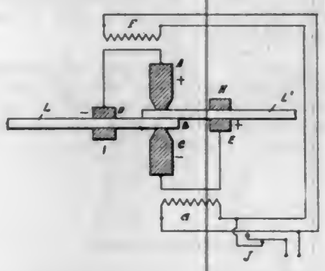
1. The combination with means for moving a wrapped article in a wrapping machine, of means carried by said moving means for marking the wrappers of said articles during the moving operation.

1,664,029. FURNACE. WILLIAM A. GILCHRIST, New York, N. Y. Filed July 8, 1919, Serial No. 309,340. Renewed July 2, 1923. 9 Claims. (Cl. 110—7.)



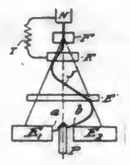
2. In a furnace, in combination, a grate, a masonry arch sloping upwardly at a substantial angle from its forward end and extending over the grate, the said arch constituting an inclined roof for a fire box chamber which is open at its rear end throughout the width of the grate and arch and from substantially the level of the rear end of the grate to the level of the rear end of the arch, an upright transverse masonry heat storage and reflecting wall extending from the level of the rear end of the grate substantially to the plane of the arch but located beyond the rear ends of the grate and arch and facing directly into the fire box chamber and an upwardly facing masonry floor extendng between the grate and the said upright wall substantially at the level of the rear end of the grate and constituting with the said upright wall the floor and end respectively of a combustion chamber adjoining the fire box and opening upwardly between the rear end of the arch and the said upright wall for the delivery of products of combustion and direct radiation of heat to a steam boiler or the like.

1,664,030. METHOD OF AND APPARATUS FOR ELECTRIC-RESISTANCE WELDING. JAMES HARVEY GRAVELL, Elkins Park, Pa. Filed Mar. 23, 1926. Serial No. 96,684. 14 Claims. (Cl. 219—4.)



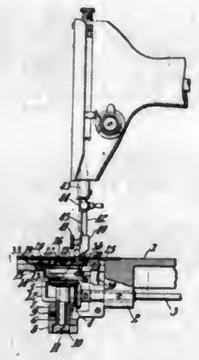
14. The method of electric heating consisting in pinching the section or point of work to be heated between two pressure electrodes in line with one another and forming respectively opposite electrodes of two separate or independent work current circuits whose currents are passed through the work in the same line or path, each said electrode carrying the current of one circuit only and having its circuit completed through the work to the place of heating independently of the other electrode.

1,664,031. ELECTRIC JET-WAVE COMMUTATOR AND INTERRUPTER. JULIUS FREDERIK GEORG POUL HARTMANN, Copenhagen, Denmark. Filed Feb. 25, 1926, Serial No. 90,469, and in Great Britain Mar. 25, 1925. 6 Claims. (Cl. 175—363.)



6. In an electric jet-wave apparatus, the combination of means for producing a conductive liquid jet-wave, main electrode members cooperating therewith for the alternate collection of current therefrom, and an auxiliary electrode means for the delivery of current thereto, comprising a member having surfaces cooperating with the jet-wave in the plane of vibration of said jet-wave, said surfaces being respectively inclined to each other and to the line of propagation of the liquid particles of said wave.

1,664,032. REVOLVING-HOOK MACHINE. MARTIN HEMLEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 1, 1926. Serial No. 91,320. 4 Claims. (Cl. 112—184.)



1. In a sewing machine, in combination with a cup-shaped rotary hook and a thread-case with a bearing flange having one of two substantially parallel faces in external engagement with the rim of said hook and the other of said faces exposed beyond said hook, of a stationary holder overlying a portion of said exposed face of the bearing flange and having rotation-restraining engagement with said thread-case, and a locking plate overlying another portion of said exposed face of the bearing flange and manually retractible to uncover said bearing flange for permitting ready removal of the thread-case.

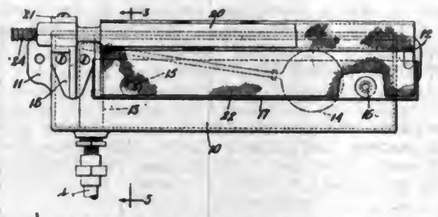
1,664,033. STENCIL SHEET. SHINJIRO HORII, Tokyo, Japan. Filed Mar. 10, 1927. Serial No. 174,415. 4 Claims. (Cl. 41—38.6.)

1. A stencil sheet adapted for stencilizing by pressure, consisting of a base of fibrous material impregnated with a coating material including esters of polysaccharides and fatty acid of tsubaki oil.

1,664,034. PROCESS OF COATING MANUFACTURED PRODUCTS. ARTHUR W. HUSEMAN and THOMAS A. LEONARD, Chicago, Ill. Filed June 19, 1922. Serial No. 569,429. 1 Claim. (Cl. 41—29.)

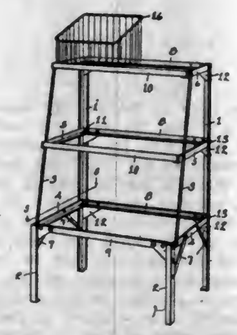
The process of coating metal, parts of which must be machined, so that the portion of the coating from the machined parts may be easily removed, which consists in first machining the parts to be machined and then applying a coating of gelatinous, proteic substance in a liquid form to the portions of the surface of the metal that have been machined from which the permanent coating is to be removed, then coating with the permanent enamel in a liquid form the entire surface to be coated, including the machined surface on which the gelatinous, proteic substance is placed, then heating the metal and coating, until the gelatinous, proteic substance forms a white, bubbly mass thicker than the enamel coating at the points free from the gelatinous, proteic substance, and then brushing the bubbly mass from the surface of the metal so as to leave it exposed.

1,664,035. HYGROMETER APPARATUS. EMIL AUGUST ILEMAN, Queens, N. Y., assignor to American Schaeffer and Budenberg Corporation, a Corporation of New York. Filed Feb. 10, 1925. Serial No. 8,161. 5 Claims. (Cl. 73—24.)



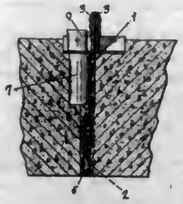
1. In a hygrometer apparatus, means forming an elongated horizontal chamber for receiving a wet bulb wick, the upper horizontal side of said chamber having an elongated horizontal opening and the width thereof being slightly greater than the thickness of the wick extending therethrough, means for supporting an elongated wet bulb so that it substantially overlies and is parallel to said opening whereby the wick may substantially completely cover the wet bulb, and means permitting liquid to be supplied to said chamber.

1,664,036. DISPLAY RACK. CHARLES H. JARVIS, Battle Creek, Mich., assignor to United Steel & Wire Company, Battle Creek, Mich. Filed Mar. 14, 1925. Serial No. 15,601. 4 Claims. (Cl. 211—71.)



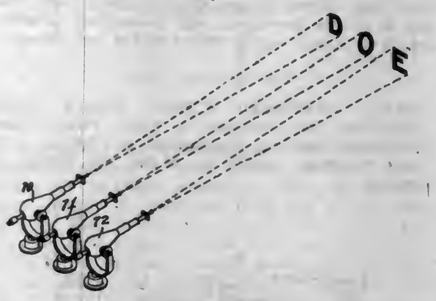
1. In a rack, the combination of end members each comprising angle iron rear uprights and angle iron front legs disposed with their angles facing inwardly, rearwardly inclined front uprights, angle iron cross members disposed with their angles facing inwardly and upwardly with their rear ends in the angles of said rear uprights and in spaced relation to the rear arms thereof, the front ends of the bottom cross member being disposed in the angles of the legs and in spaced relation to the angles thereof, the front uprights being mounted on the front ends of the bottom cross members, said rear uprights and front legs having pairs of slots adjacent their cross members, front and rear longitudinal rails disposed with their ends in the angles of said cross members and with their angles facing upwardly and inwardly, said longitudinal rails and cross members being detachably bolted together, and plate-like corner irons on the ends of the rear longitudinal rails and the bottom front rail, said corner irons having downwardly facing hooks engaging said pairs of slots in said rear uprights and front legs with the edges of the corner irons abutting the uprights and legs whereby said plates constitute tie and brace members.

1,664,037. PAVEMENT FELT HOLDER. WALTER H. KNAPP, Monroe, Mich., assignor to The Wilder-Strong Implement Company, Monroe, Mich., a Corporation of Michigan. Filed May 4, 1927. Serial No. 188,644. 2 Claims. (Cl. 98—51.)



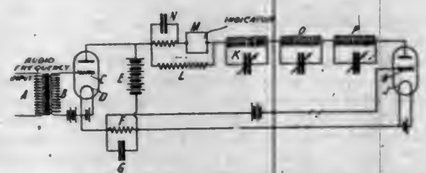
1. In a tool for locating a fibrous strip to form a flexible joint for pavements and the like, a thin metallic strip, means for supporting the ends of the metallic strip, a pair of L-irons clamped against opposite sides of the metallic strip and located along one edge thereof, a plurality of cams for removably connecting the strip of fibrous material to the metallic strip and rotatably supported in one of the L-irons.

1,664,038. PROJECTION APPARATUS. LUTHER B. MCEWING, Chicago, Ill. Filed May 17, 1923. Serial No. 639,504. 4 Claims. (Cl. 88—24.)



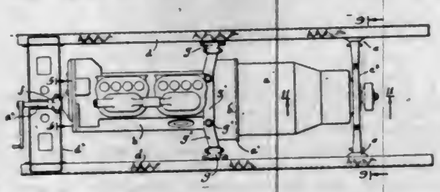
1. In a projection apparatus, a vertical rotatable shaft, a projection instrument mounted to rotate with said shaft, a pedestal in which said shaft is mounted, having a recess in its top, an enlargement on said shaft intermediate its length disposed in said recess in the top of said pedestal, a worm wheel on said enlargement, a worm in engagement therewith, a bottom recess in said pedestal into which said shaft projects, set and lock nuts in said lower recess for said shaft, and ball bearings between said enlargements and base and between said set nut and base.

1,664,039. WIRELESS-TELEGRAPH RECEIVING APPARATUS. NORMAN WILLIAM MCLACHLAN, Newcastle-upon-Tyne, and ARCHIE WILLIAM LANGRIDGE, Shipley, England, assignors to Radio Corporation of America, a Corporation of Delaware. Filed Nov. 24, 1922, Serial No. 603,028, and in Great Britain Dec. 7, 1921. 7 Claims. (Cl. 179—171.)



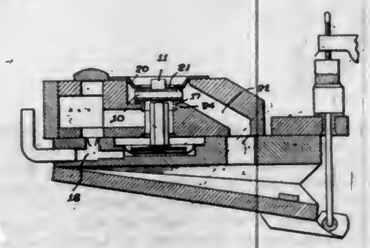
1. In wireless telegraph receiving apparatus, the combination of two rectifying vacuum tubes, a resistance shunted by a condenser and connected in the anode circuit of the first tube and also in the grid circuit of the second tube, indicating means shunted by a resistance in the anode circuit of the second tube, and a rejector circuit in this anode circuit.

1,664,040. POWER-PLANT MOUNTING. ALFRED F. MASURY and CHARLES FROESCH, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 22, 1925. Serial No. 51,806. 3 Claims. (Cl. 180—64.)



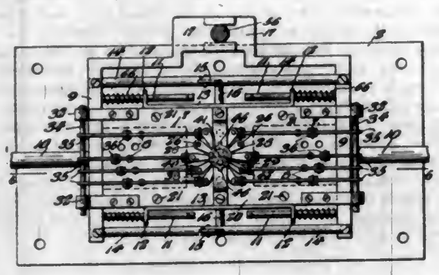
1. The combination with a supporting frame, of an internal combustion engine and electric generator as a unitary structure exerting a thrust longitudinally of the frame, yielding non-metallic connections and supports between said structure and the frame disposed, respectively, substantially in the transverse plane including the center of gravity of the structure upon either side thereof to provide a relatively rigid connection to receive the thrust, and connections between the unitary structure and frame at either end thereof.

1,664,041. PNEUMATIC ACTION. JOHN S. MAXWELL, Richmond, Ind., assignor to Starr Piano Company, Richmond, Ind., a Corporation of Indiana. Filed Aug. 25, 1925. Serial No. 52,309. 14 Claims. (Cl. 84—60.)



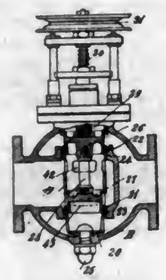
1. A valve comprising a head, a stem, and a resilient facing intermediate said head and stem, said head having a projection directly above said stem.

1,664,042. LOCKING MECHANISM. EDWARD W. MCGINLEY, Philadelphia, Pa. Filed Dec. 28, 1926. Serial No. 156,733. 12 Claims. (Cl. 70—90.)



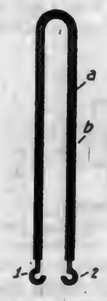
1. The combination with the transmission of a motor vehicle and a door controlling access to the driver's seat, of locking mechanism controlled by the opening of said door and effective to automatically lock said transmission in its neutral position irrespective of the position in which it has been set.

1,664,043. COCK AND VALVE. ELIE PIERRE JULES NICLAUSSE and ALBERT LOUIS NICLAUSSE, Paris, France. Filed Dec. 8, 1925, Serial No. 72,876, and in France Sept. 5, 1925. 11 Claims. (Cl. 251—167.)



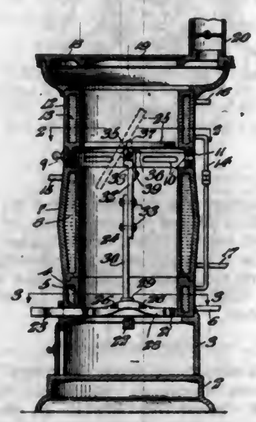
5. In a valve, cock or the like, the combination of a valve member, a seating for the said valve member, a casing adapted to receive the said seating, a pair of corners or shoulders on the said valve member, a conical surface on the said seating, one of the corners or shoulders being adapted, as the valve is being closed, to engage the conical seating before the other said corner or shoulder, so that when the valve is closed, the material forming the surfaces first in engagement is compressed, a corner or shoulder on the said seating, a conical surface on the said casing, and a stop on the said casing adapted to be engaged by the seating, the corner or shoulder being adapted to engage the conical surface on the casing before the seating engages the stop, so that when the seating is moved to engage the stop the material forming the surfaces in engagement is compressed.

1,664,044. CONDUCTOR FOR HIGH-FREQUENCY WORK. MENDEL OSNOS and RICHARD KUMMICH, Berlin, Germany, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Oct. 20, 1925, Serial No. 63,617, and in Germany Sept. 5, 1924. 3 Claims. (Cl. 178—45.)



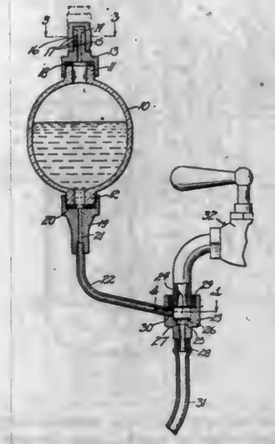
1. A high frequency conductor comprising an inner nonmagnetic conducting member, a thin magnetic layer surrounding said conducting member and in direct contact therewith, said layer being designed to provide maximum magnetic permeability irrespective of tensile strength and means for neutralizing the leakage flux which passes through said outer magnetic layer, said neutralizing means being provided in winding said conductor bifilar fashion.

1,664,045. STOVE. SAMUEL V. REEVES, Haddonfield, N. J. Filed July 7, 1925. Serial No. 41,931. 8 Claims. (Cl. 126—3.)



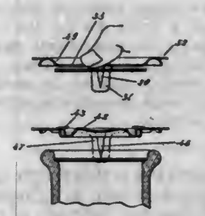
1. In a stove, superimposed fire pots each forming an independent source of heat, an upper fire to heat the upper of said fire pots, an independent source of draft for said upper fire opening through the side walls of the stove between said fire pots, and means to adjust the location of said upper fire to cause it to have a desired fire contact with the lower of said fire pots.

1,664,046. APPARATUS FOR REGULATING THE ADMIXTURE OF A SOLUTION TO RUNNING WATER. IDA ROSENBERG, Chicago, Ill. Filed Mar. 14, 1927. Serial No. 175,812. 3 Claims. (Cl. 128—229.)



1. Apparatus regulating the admixture of a solution to running water, including a stationary container, a fitting rigidly connected to a source of water supply and having a chamber, a tube connecting said container and said chamber, a hose for the discharge from said chamber, and air controlled means on said container for regulating the rate of flow through said tube.

1,664,047. BOTTLE-CAP REMOVER AND HOLDER. GUIDO M. SACERDOTE, Bayside, N. Y. Filed Jan. 27, 1926. Serial No. 84,127. 11 Claims. (Cl. 215—55.)

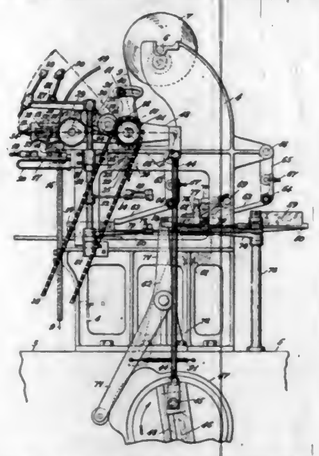


1. In a device for removing paper bottle caps of the character described, a body portion provided with a plurality of members extending from the underside thereof, adapted to pierce the paper cap to be removed when said body portion is forced towards said paper cap in an axial direction, said body portion being provided with an opening through which an ejecting action may be exerted in order to force the cap away from the said members.

1,664,048. AUTOMATIC WRAPPER CONTROL FOR PACKAGING MACHINES. FRANK R. SCHMITT, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a Corporation of New Jersey. Filed Aug. 12, 1926. Serial No. 128,717. 13 Claims. (Cl. 93—2.)

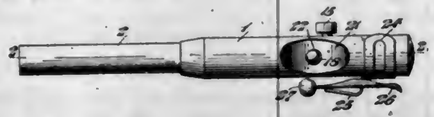
1. The combination with devices for continuously feeding wrapping paper from a roll and intermittently delivering it into position to be assembled with articles

to be wrapped, of mechanism for advancing a succession of articles at regular intervals to said position, and means having a movable controlling feeler in the path



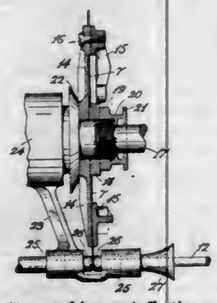
of the articles and operative to automatically incapacitate said devices when a break occurs in said succession and to rehabilitate the same immediately thereafter.

1,664,049. FIREARM. REGINALD F. SEDGLEY, Philadelphia, Pa. Filed Dec. 31, 1927. Serial No. 243,831. 3 Claims. (Cl. 42—1.)



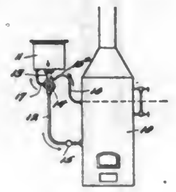
1. A firearm simulating a fountain pen, comprising a casing, a barrel detachably connected with said casing and provided with a thumb receiving depression, a breech block in said barrel, a firing pin for the breech block, a spring pressed plunger in said barrel, said barrel having an opening through said depression, and a spring pressed releasing member carried by said plunger and adapted to extend through said opening when said plunger is in its retracted position.

1,664,050. CIGARETTE-MACHINE CUT-OFF. THOMAS C. SHEEHAN, Upper Montclair, N. J., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Aug. 21, 1926. Serial No. 130,622. 4 Claims. (Cl. 131—37.)



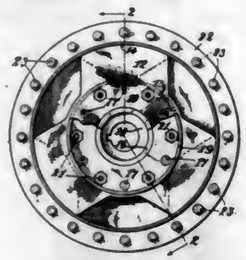
3. In a cigarette machine cutoff, the combination with two alternately acting knives, of a dynamically balanced holder for said knives, and means whereby said knives may be adjusted and held at diametrically opposite positions in said holder without disturbing the dynamic balance of the cutoff, said means including two racks one of which is attached to each knife, and a pinion engaging said racks and provided with a series of holes whereby it may be turned.

1,664,051. GRAVITY LIQUID FEEDER. BURCHARD THOENS, New York, N. Y., assignor of one-half to Burchard M. Thoens, New York, N. Y. Filed Mar. 3, 1927. Serial No. 172,506. 11 Claims. (Cl. 137—101.)



11. In a gravity liquid feeding device, in combination, a casing having spaced fluid inlet, gas inlet and fluid outlet ports arranged in the order named about the circumference of a bore through the casing, a rotatable plug having a pocket adapted to move past said ports in the order named, a conduit connecting said fluid outlet port to a closed receptacle, a conduit member connecting said fluid inlet port and gas outlet port to a source of fluid supply, and a removable partition in said member to separate the inflowing liquid from the outflowing gas.

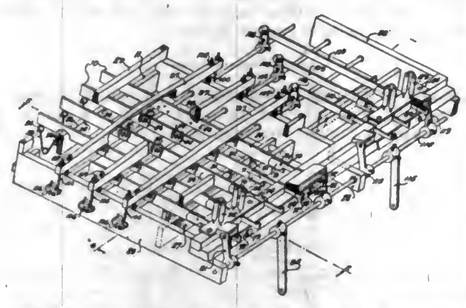
1,664,052. FLEXIBLE COUPLING. GUSTAVE A. UNGAR, Pelham Manor, N. Y. Filed Jan. 9, 1925. Serial No. 1,350. 22 Claims. (Cl. 64—66.)



1. A torque-transmitting flexible element for couplings, said element being formed of a plurality of layers of fabric vulcanized together, and having outer and inner edge portions spaced axially, and an intermediate flexible continuously curved connecting portion, said inner edge portion having means secured thereto for holding the same stiff and rigid.

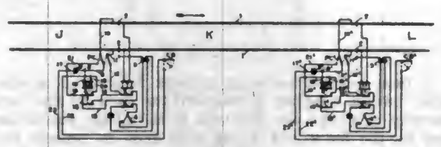
1,664,053. COMBINATION STOP ACTION FOR ORGANS. EDMOND VERLINDEN, Milwaukee, Wis. Filed Sept. 25, 1924. Serial No. 739,811. 14 Claims. (Cl. 84—345.)

14. In a combination stop action for organs, the combination, with a plurality of stop keys, of a series of traces mounted for movement to alternative spaced positions, there being a trace for each stop key, stop key controlled means for selectively placing said traces in their alternative spaced positions, a plurality of circuit closers associated with each trace and each including a switch member movable to alternative positions for controlling the "off" and "on" positions of a stop, the circuit closers associated with any one trace controlling the same stop in different combinations, and an actuator arranged transversely of said traces and movable to displace a group of said switch members to alternative



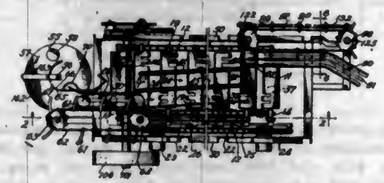
positions determined and selected by the alternative placement of said traces, said group including a switch member for each trace, and means for moving said actuator to displace said group of switch members.

1,664,054. BLOCK-SIGNAL SYSTEM FOR RAILROADS. WALTER W. WENHOLZ, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 31, 1926. Serial No. 126,229. 13 Claims. (Cl. 246—45.)



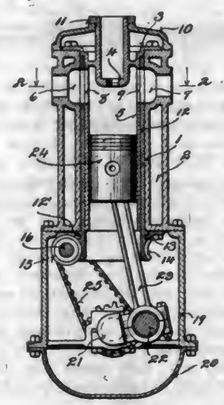
6. In a block signal system of the type described, blocks provided with polarized track circuits, a semaphore signal at the entrance to each block, means for interrupting the supply of track circuit current of normal polarity but not the reverse polarity when the block next in advance is occupied.

1,664,055. PREHEATER. GEORGE WILCOX, Riverside, Calif., assignor to California Canning Machinery Co., a Corporation of California. Filed Nov. 10, 1923. Serial No. 674,095. 14 Claims. (Cl. 126—272.)



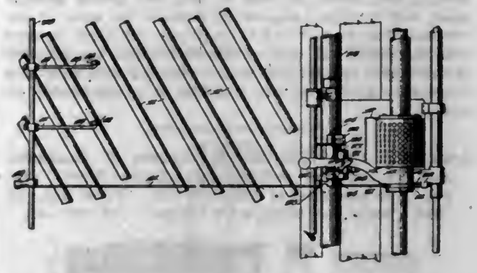
1. In a preheating organization, the combination of a treating chamber; a plurality of carrying members arranged to receive objects to be treated and to hold said objects in an upright position; flexible traveling members extending over wheels upon which said carrying members are advanced through a flattened elliptical orbit; means for moving said objects in a direction transverse to the direction of advance of said carrying members, in a manner causing the passage of said objects through said treating chamber in a substantially helical path, and sets of spaced and resiliently closed doors positioned in the openings of said heating chamber, and operating in a substantially vertical plane under contact with said advancing objects, in such a manner to maintain constantly closed openings to said heating chamber.

1,664,056. INTERNAL-COMBUSTION ENGINE. JOHN ASTROM, Fort Wayne, Ind. Filed Mar. 23, 1923. Serial No. 627,052. 1 Claim. (Cl. 123—190.)



An internal combustion engine comprising a cylinder having inlet and exhaust ports, a rotary sleeve mounted within said cylinder and having ports cooperating with said first mentioned ports to control the flow of gases, a stationary sleeve mounted within said rotary sleeve and having ports aligning with said first mentioned ports, a piston mounted for reciprication within said stationary sleeve, a crank shaft operatively coupled with said piston, mechanism for communicating motion from said crank shaft to said sleeve, a cylinder head integral with said stationary sleeve and consisting of an outer flange bolted to the end of the cylinder and an inner web of annular formation extending inwardly from said sleeve, a small cylinder carried by said inwardly extending web and projecting downwardly below said web into said cylinder and having a bottom apertured and threaded for the reception of a spark plug, said small cylinder extending upwardly above said web and having an open upper end.

1,664,057. SHEET DETECTOR AND STOP. ALBERT BROADMEYER, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1922. Serial No. 609,241. 7 Claims. (Cl. 271—56.)



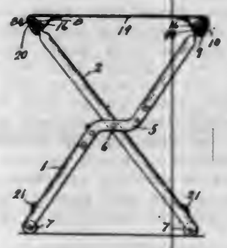
1. In apparatus of the character set forth, the combination with a sheet carrying member, of means for feeding sheets successively thereto, a device for governing the operation of the sheet feeding means, a controlling member associated with the sheet carrying member and moved by an excessive number of sheets on the sheet carrying member, and an operating device directly connected to the controlling member and to the governing device for the sheet feeding means to cause the operation of the latter on the movement of the controlling member.

1,664,058. LEAD PENCIL. GEORGE W. BROWN, Cape Elizabeth, Me. Filed Mar. 2, 1925. Serial No. 12,736. 3 Claims. (Cl. 120—19.)



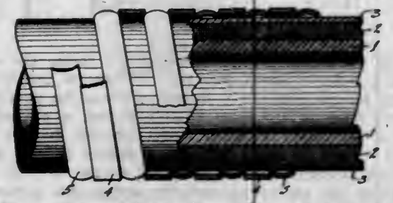
3. In a propelling lead pencil, consisting of a body member, having a central bore therein, a split tube reciprocable within said bore, a flattened side on said split tube, a lead within said split tube, means to contract, diametrically, the outer end of said split tube whereby the lead may be gripped and said tube held against longitudinal movement within said body member, a plunger slidable within said split tube, a key on said plunger extending through and projecting beyond the scarf on said split tube, a projection on said body extending a spaced distance into the bore of the same, means to alternately position said key in advance of and in arrear of the said projection, whereby the oscillation of said split tube combined with the longitudinal movement of the same backwardly and forwardly, co-acting with said projection and said key, may cause said plunger to be moved within said split tube, forwardly and backwardly, respectively.

1,664,059. FOLDING CAMP CHAIR. JULIUS L. CABLE, Boston, Mass., assignor to The Cable Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 25, 1924, Serial No. 739,777. Renewed June 7, 1927. 8 Claims. (Cl. 155—150.)



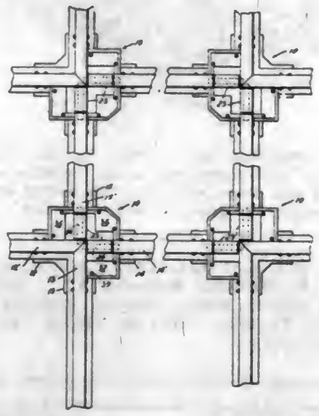
1. A folding supporting frame having two pairs of pivotally connected crossed-legs each leg comprising a sheet metal strip bent to provide a semitubular main portion and a continuously extending flattened tongue portion at its upper end, a pair of cross bars each consisting of a sheet metal strip bent to form a semitubular intermediate portion and socket portions at each end having parallel sides, said tongues being fitted between the sides of the corresponding sockets and having their end edges engaged with the bottoms of said sockets throughout approximately the length thereof and means engaging said sides and tongues to hold said bars and legs in perpendicular relation.

1,664,060. ARMORED HOSE. ALBERT E. CALDWELL, Erie, Pa., assignor to Continental Rubber Works, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1923. Serial No. 679,615. 6 Claims. (Cl. 137—9.)



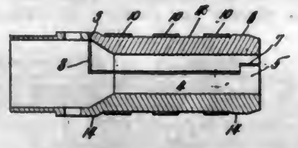
1. In an armored hose, the combination of a flexible tube; and an armor winding comprising alternate wires coiled spirally with the succeeding coils of each wire spaced apart, one wire having both its inner and outer surfaces flat and the other having in cross section its outer surface convex, the flat wire bridging the space between and inner surface lapping onto the coils of the wire having its outer surface convex.

1,664,061. RAILROAD CROSSING. RALPH E. COTTER, Oakland, Calif. Filed June 13, 1927. Serial No. 198,446. 5 Claims. (Cl. 246—375.)



1. In a railroad crossing, a block forming a housing, said housing adapted to support the ends of the rails whereby rail gaps are provided in the block, means carried by the block and filling said gaps to present continuous rail-joints therent, and said gap-filling means provided with additional means and carried by the block to automatically close the joint after the passage of the said wheel thereover, the housing having a closed bottom and being adapted to receive and return a lubricant for submerging the said last-named means.

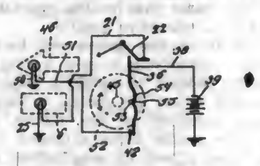
1,664,062. STOCK PUSHER. FRANK L. CONE, Windsor, Vt. Filed July 14, 1923. Serial No. 651,528. 8 Claims. (Cl. 29—62.)



1. A stock pusher comprising a sleeve, a stock-engaging jaw integral with said sleeve, a mating jaw interfitting with said first mentioned jaw, and means for holding said jaws assembled to form a stock receiving space therebetween of substantially uniform size from end to end.

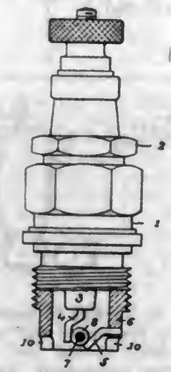
1,664,063. VEHICLE SIGNAL. WILLIAM CRITSER, Traverse City, Mich., assignor to Albert W. Bonnell, Traverse City, Mich. Filed Apr. 15, 1926. Serial No. 102,197. 1 Claim. (Cl. 177—337.)

An indicator of the class described, including, in combination, a casing, a rotary element in the casing and having an eccentric pin, a signal carried by the rotating element, a stationary contact, a spring contact engageable with said stationary contact, said pin being abuttable with said spring contact to force it out of engagement with said fixed contact when the signal is in the non-operative position, a second spring contact, means for bending the second spring contact to engage the first spring contact, a signal in open circuit with said spring



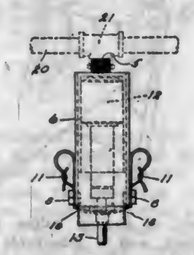
contacts, and a lamp on said first mentioned signal in open circuit with the first spring contact and the stationary contact.

1,664,064. SPARK PLUG. JAMES G. DICKSON, Glencoe, Ill. Filed Aug. 24, 1926. Serial No. 131,181. 2 Claims. (Cl. 123—169.)



1. In a spark plug of the type described, the combination of an enclosing shell having an annular depending skirt portion providing an open bottom chamber at the lower end of the plug housing, the lower end of the skirt portion having a plane form, a supply terminal stem depending within said bore, a return terminal stem fixed at one end in the wall of said skirt portion, and an intermediate electrode of the rod form arranged transversely in the lower end of the bore of said skirt portion and in angular relation to and in line with the aforesaid return terminal stem, said intermediate electrode being supported at its respective ends in an insulated manner in the annular wall of said skirt portion by individual insulating sockets fitted to orifices in the wall of the aforesaid skirt portion.

1,664,065. CIRCUIT BREAKER. ROY F. DOWDY and JESS W. BREWBAKER, Roanoke, Va. Filed Jan. 19, 1926. Serial No. 82,363. 6 Claims. (Cl. 200—82.)



1. In a pneumatically operated circuit controller, a cylinder adapted to have suction producing means connected therewith, a piston movably mounted within the cylinder and adapted to be moved in one direction upon the application of suction to the cylinder, contacts mounted upon and insulated from the cylinder and provided with terminal means located exteriorly of the cylinder, a member of insulating material carried by the piston and engageable with the contacts for limiting movement of the piston in one direction, and a spring structure extending transversely with respect to the piston and carried thereby and adapted to engage and bridge said contacts upon movement of the piston in the other direction.

1,664,066. RING SPINNING AND DOUBLING FRAME. ROBERT WILLIAM EDOM, Southport, England. Filed Feb. 3, 1927. Serial No. 165,722. 2 Claims. (Cl. 118—50.)

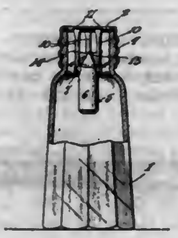


1. In a spinning and doubling frame in which delivery rollers deliver the roving to the tip of a rotating spindle to be spun, by the rotation of the said spindle, between the latter and the delivery rollers, a rising and falling ring rail, a ring in the said rail surrounding the spindle, and a yarn guide held within the ring to move tangentially, radially, and angularly thereto, the said yarn guide being straight and cylindrical and without projections within the ring, for the purpose set forth.

1,664,067. PROCESS FOR TREATING REFRACTORY ORES CONTAINING PRECIOUS METALS. GEORGE W. B. EVANS, Wilderness, Va., assignor to Evans Ore Reduction Company, Washington, D. C. Filed Aug. 13, 1926. Serial No. 128,990. 1 Claim. (Cl. 75—64.)

The process of treating refractory ores containing precious metals, which consists in mixing ore with lime, salt and sal-ammoniac, heating the mixture in an atmosphere of hydrogen while being agitated, and separating out the precious metals.

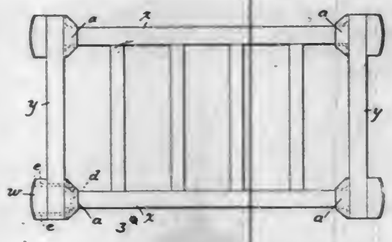
1,664,068. SALT SHAKER. CARL E. FISHER, Clearwater, Fla. Filed Feb. 1, 1927. Serial No. 165,161. 1 Claim. (Cl. 65—57.)



A device of the class described comprising a container, a cap having perforations carried by the container, an agitator movable in the container and including a body having furcations carried thereby, valve heads normally closing the perforations of the cap, stems for

the valve heads slidable in the perforations of the cap, said stems having their inner ends engaged between the furcations, said furcations being pliable and capable of being bent into clamping engagement with said stems, as and for the purpose set forth.

1,664,069. MINE-CAR-TRUCK FRAME. JAMES R. FLEMING, Scranton, Pa. Filed Apr. 23, 1927. Serial No. 185,935. 11 Claims. (Cl. 105—364.)



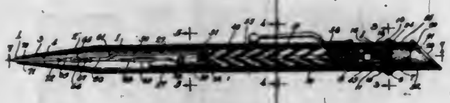
1. A car truck frame comprising end sills, side sills extending between the end sills, and a bracket at each corner; each bracket comprising an upright plate engaging the side of a side sill, an upright wing extending laterally from said plate, bolts securing the side sill to said plate, and bolts securing the end sill to said wing; and a ledge carried by said bracket and supporting the end sill.

1,664,070. ROADWAY WITH TRAFFIC-CONTROL MARKING. BENJAMIN FOSTER, Philadelphia, Pa. Filed Aug. 7, 1923. Serial No. 656,153. 5 Claims. (Cl. 94—1.5.)



1. A roadway presenting a permanent traffic-control marking comprising a piece of material having a superficial contour corresponding to said marking and webs projecting laterally from said piece of material, the material of the roadway underlying and surrounding said piece of material and overlying and underlying said webs, the depth of roadway material overlying said webs substantially corresponding to the distance of said webs from the top surface of said piece of material so that said top surface is substantially flush with the material of the roadway.

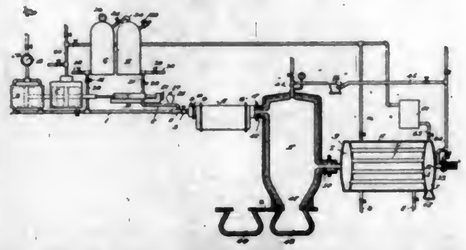
1,664,071. WRITING IMPLEMENT. FRANK FUREDY, Brooklyn, N. Y., assignor to Bushwick National Bank. Filed Apr. 28, 1925. Serial No. 26,378. Renewed July 16, 1927. 9 Claims. (Cl. 120—14.)



1. A pencil or analogous writing implement comprising an outer case and operating mechanism normally contained within the case and slidable outward, said operating mechanism including a spare-lead magazine and a magazine case rotatable thereon and apertured to give access to the magazine when placed in a certain rotative position, the outer case having at its upper end a notch and the magazine and magazine case having lugs so positioned that the magazine case must be turned to closed position to align the lugs which will then enter the slot in the outer case as the operating mechanism is slid inward to operative position.

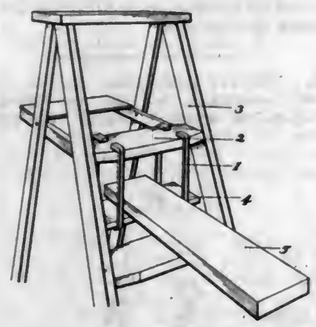
8. In a pencil or like implement, lead holding and ejecting means comprising a case having a lead aperture at the tip defined by resilient fingers, a lead carrier reciprocable within the casing, a lead grip slidably and revolubly mounted on the carrier and having a lead clutch, the carrier being arranged to slide within the grip to eject a lead by longitudinal movement and the grip having a formation to co-operate with the tip fingers to control relative movement of the carrier and grip.

1,664,072. METHOD FOR COMBUSTION UNDER PRESSURE. ELMER GATES, Washington, D. C.; Donald E. Gates, administrator of said Elmer Gates, deceased. Filed Apr. 8, 1922. Serial No. 550,738. 4 Claims. (Cl. 110—28.)



1. The method of securing increased efficiency in extracting heat from the burned fuel and air which consists in mixing finely divided fuel with air under a pressure higher than atmospheric, igniting the mixture, directing the burning fuel against an incandescent surface of a plurality of spirally arranged convolutions so as to repeatedly re-ignite the unburned portions of the fuel, and keeping the burned gases under the same pressure until all available heat units have been extracted therefrom before allowing them to exhaust from the system.

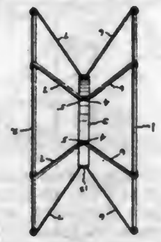
1,664,073. STEPLADDER. ALLEN T. HAYWOOD, East Cleveland, Ohio. Filed May 14, 1926. Serial No. 109,178. 1 Claim. (Cl. 304—34.)



The combination of a step ladder including a plurality of flat steps, and a removable half step comprising a pair of U-shaped supports depending from one step, each including a pair of supporting legs and a lower connecting portion, the upper ends of the legs extending inwardly for engagement with the opposite

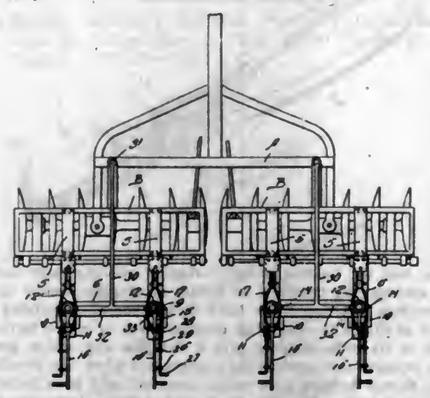
side portions of the step and spaced apart a distance to permit the support to be positioned on the step, and a tread piece mounted at its ends on the connecting portions of the supports.

1,664,074. HOSE REEL. CORNELIUS D. HEFFERNAN, Cleveland, Ohio. Filed June 7, 1926. Serial No. 114,118. 14 Claims. (Cl. 242—86.)



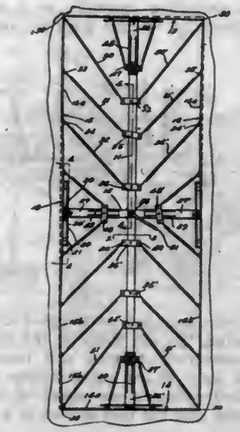
1. A collapsible hose reel comprising, in combination, a pair of spaced, axially aligned rims of substantially equal size, an annular hub member of smaller size than said rims disposed in substantial axial alignment with and intermediate said rims, a plurality of spokes each attached adjacent its outer end to one of said rims, said hub member being provided with a plurality of spaced, radial, spoke receiving apertures, each said spoke extending through a spoke receiving aperture and shaped for attachment adjacent its inner end to said hub member when said reel is in operative position, the inner end of each spoke being adapted to move toward the axis of said hub member when the rims are moved toward each other to collapse said reel.

1,664,075. ATTACHMENT FOR DISK HARROWS. JAMES A. HENNINGER, Roundup, Mont. Filed Mar. 15, 1927. Serial No. 175,497. 4 Claims. (Cl. 55—30.)



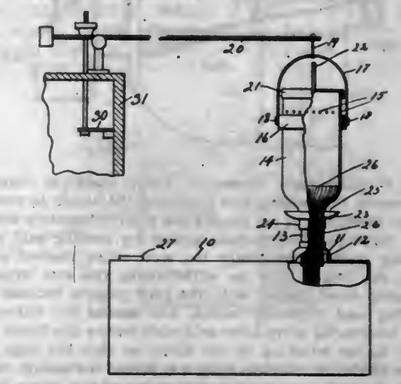
1. In an attachment for gang disk harrows and the like comprising a U-shaped frame having bearings in the corners thereof, standards slidable through the bearings, wheels, means for journaling the wheels on the lower ends of the standards, sleeves fixed to the standards above the frame, trunnions projecting from the sleeves, levers pivoted on the trunnions, notched segments projecting from the sleeves, spring pressed pawls on the levers, engageable with the notched segments, and links pivotally engaged with the levers and the frame.

1,664,076. TEMPLATE FOR DOORS AND WINDOWS. RAYMOND L. HUMPHREY, Los Angeles, Calif. Filed Apr. 12, 1926. Serial No. 101,309. 10 Claims. (Cl. 33—194.)



1. In a template for use in quadrilateral openings: a substantially rigid interior frame; a flexible exterior frame mounted on said interior frame comprising parts pivotally connected to form corners; and means operatively connected to said interior frame for thrusting said corners into the angles of an opening.

1,664,077. ALCOHOL LAMP. GEORGE KNIERIEMEN, Atco, N. J. Filed Mar. 15, 1926. Serial No. 94,691. 1 Claim. (Cl. 158—72.)

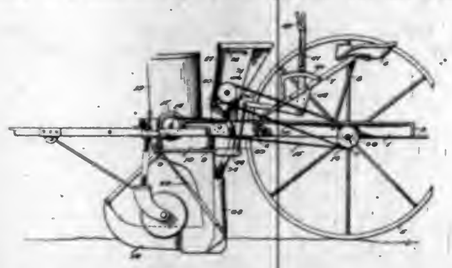


A lamp of the character described comprising a body; a shank; a base into which said shank is adapted to pass; said base being adapted to fit over a collar carried by a suitable supply tank; a sleeve surrounding the body and movable lengthwise thereof for deflecting the flow of vapor thru a series of holes formed in the body, a bail pivoted to said sleeve, said bail having means for attachment to the lever of a thermostat; a cap adapted to snugly fit over the upper end of the body for closing the same; a prong of high heat conductivity projecting upward from the cap and a pilot cup fitted upon the shank adjustable relative to the bottom of said body.

1,664,078. BROADCAST FERTILIZER DISTRIBUTOR. JOHN F. LAVERY, Greenfield, Ohio. Filed Dec. 15, 1925. Serial No. 75,594. 2 Claims. (Cl. 221—118.)

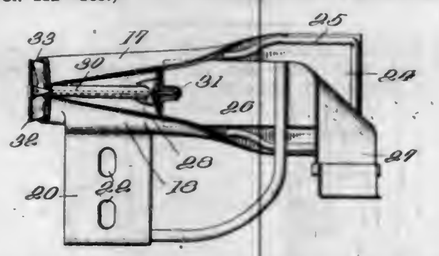
1. A hopper of the character described comprising companion front and rear sections, said front section having a bottom formed with outlet openings, and front and

end walls rigid with and extending upwardly from its bottom, said rear section having a rear wall pivoted at its lower end to the bottom of the front section whereby the rear section may be swung towards the front section from a position extending upwardly at a rearward incline to a substantially vertical position and end walls



rigid with the rear wall and overlapping the end walls of the front section, the end walls of one section having slots formed transversely therein, and fasteners passed through the end walls of the other section and through said slots to limit swinging movement of the rear section and releasably hold the rear section in a set position.

1,664,079. CENTER-PLAIT FOLDER. JOSEPH MANN. Philadelphia, Pa., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1925. Serial No. 17,961. 5 Claims. (Cl. 112—145.)

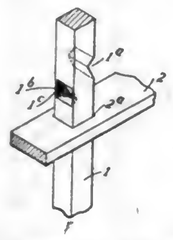


5. A center plait folder for sewing machines comprising means for guiding and infolding the fabric to form a center plait, means for placing the reinforcing strip within said folder as it is formed, means for bending said reinforcing strip intermediate the side edges thereof away from the center plait for withdrawing the side edges of the strip from contact with the plait passing through the guiding and infolding means, and means for flattening said reinforcing strip after said plait leaves the folder and prior to the stitching of the fabric so that the edge portions of the reinforcing strip are forced outwardly to lie close to the respective folded portions of the fabric forming the plait.

1,664,080. ORNAMENTAL IRON STAIR-RAIL STRUCTURE. ROBERT L. MAPSON, Los Angeles, Calif. Filed May 6, 1926. Serial No. 107,087. 7 Claims. (Cl. 256—22.)

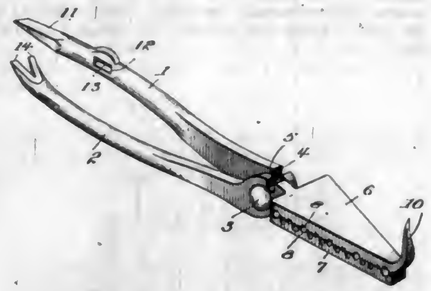
1. In a structure of the class described, a plurality of polygon cross section bars provided with pairs of angular notches in opposite sides of said bars and a plurality of other bars connecting each of the former and provided with holes therethrough of substantially the same cross-section as the cross-section of said first mentioned bars between the opposed notches thereof and adapted to fit over said latter bars and fit in the notches in said first mentioned bars, the transverse axis of the last mentioned bars being at a right angle to the first mentioned bars and the longitudinal axis being at an acute angle thereto.

3. In a stair side rail, a plurality of bars provided with pairs of angular notches positioned in opposite sides of said bars, the one slightly above the other, and a plurality of other bars connecting each of the former and provided with holes therethrough conforming to the cross section of said first mentioned bars the wall surrounding said holes in said second mentioned bars being adapted to fit in the notches in the first mentioned bars, said second mentioned bars being fitted to an angle relatively to said first mentioned bars whereby said bars are interlocked relatively to each other, and a web positioned at the end of one of said notches adapted to be engaged by the corner of the wall of the second mentioned bars.



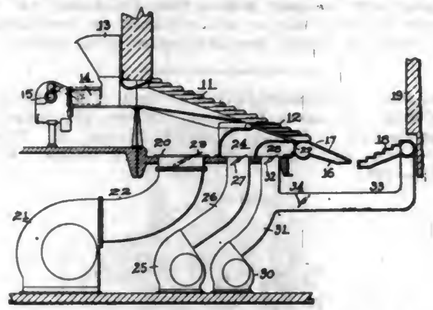
7. In a stair rail of the class described, a plurality of square, perpendicular members, provided with a plurality of pairs of spaced notches in opposite sides thereof and webs in said notches; and a plurality of spaced bars provided with holes adapted to fit loosely over said perpendicular bars and fit in said notches and to crush said webs when turned to an angular position on said bars, and means interposed between said perpendicular and angular bars for holding said bars in separate spaced relation and rigidly securing them together.

1,664,081. COMBINATION TOOL. REUBEN LEE MEANS, Valentine, Tex. Filed Dec. 17, 1923, Serial No. 681,229 Renewed Aug. 25, 1927. 1 Claim. (Cl. 7—3.)



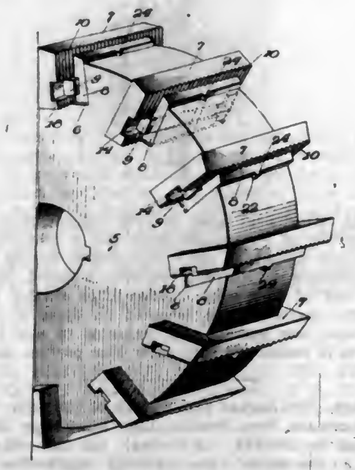
A tool for holding nails or staples whereby such nails or staples may be given an initial driving movement into a surface and thereafter fully driven home, comprising a pair of pivotally connected handles, each of which having one of its ends merging into a flat jaw and which jaws are brought into contacting engagement when the handles are forced toward each other, each of said jaws having its confronting face provided with alining laterally arranged semicircular grooves which vary in area throughout the length of the jaws and which are designed to clamp therebetween nails of different cross-sectional diameters to hold the nails in the initial driving thereof, one of said jaws being formed with other laterally disposed grooves which are not in alinement with the grooves in the cooperating jaws, and said last-mentioned jaw having arched passages communicating with the last-mentioned grooves, whereby the shanks and the rounded connecting ends of staples may be received in the said grooves for the initial driving of said staples.

1,664,082. UNDERFEED FURNACE. REGINALD B. MILDON, Lansdowne, Pa., assignor to Riley Stoker Corporation, a Corporation of Massachusetts. Filed Feb. 6, 1922. Serial No. 534,380. 1 Claim. (Cl. 110—44.)



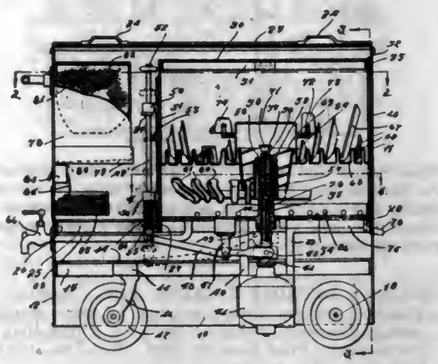
An underfeed stoker having in combination a fuel retort, means for feeding fuel to said fuel retort, an independently controllable primary air supply, means for conveying air from said primary air supply to the fuel in the upper portion of said retort to support the initial stages of combustion thereof, and means for thereafter causing substantially complete combustion of said fuel, said means comprising a fuel support and a refuse support at the rear of the retort, each having its supporting face provided with air outlets and each being constructed in box form with side and bottom walls enclosing an air chamber, a separate supplemental and independently controlled air supply connected to the interior of the air chamber in said fuel support effective to supply air to the partially consumed fuel thereon for further combustion thereof, and another separate supplemental and independently controllable air supply connected to the interior of the air chamber in said refuse support effective to supply air to the fuel refuse on said support for final combustion thereof, whereby the air pressures in the upper portion of said retort for initial combustion, in said fuel support for further combustion, and in said refuse support for final combustion of said fuel may each be varied and caused to be equal to, greater than or less than the air pressures in the other air-supplied portions of said stoker.

1,664,083. ROTARY CUTTER. FRANK P. MILLER, Meadville, Pa. Filed May 16, 1925. Serial No. 30,781. 14 Claims. (Cl. 29—105.)



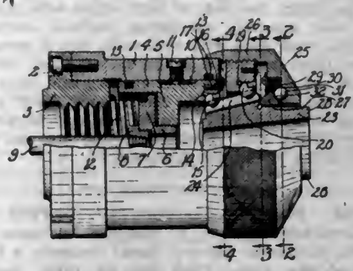
1. A cutter comprising a body having a slot, a blade in said slot, a tapered wedge block in said slot and having means to hold the blade against radial and longitudinal displacement, and an axially extending wedge pin between said blade and block and having means to urge the blade inwardly and the block outwardly.

1,664,084. DISHWASHER. ERNEST J. NASH, Detroit, Mich. Filed Apr. 7, 1927. Serial No. 181,637. 9 Claims. (Cl. 141—9.)



1. A dish washer comprising: a reservoir; a dish tray mounted in said reservoir; means rotatably mounted in said reservoir for throwing water against said dishes, said means being axially movable of said reservoir at will; and means for raising said throwing means out of said water, said throwing means being adapted upon rotation out of said water for setting up a current of air in said reservoir, for drying said dishes.

1,664,085. CHUCK. ROBERT E. NAYLON, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 22, 1924. Serial No. 745,066. 4 Claims. (Cl. 279—1.)

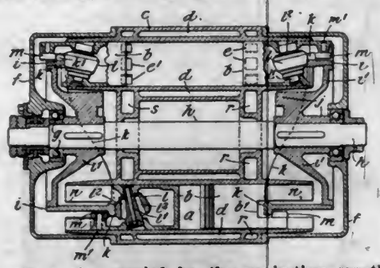


2. A chuck for holding toothed articles comprising inner and outer members provided with means that are adapted to be disposed between the teeth of the work, a cap threaded onto said outer member, an annular washer mounted in said cap and adapted to engage the work to hold it in position, and a circular series of balls mounted in said cap and engaging the end of said washer.

1,664,086. TWO-STROKE INTERNAL-COMBUSTION ENGINE. SIMON DOKK OLSEN, London, England, assignor to The Olsen Engine Syndicate Limited, London, England, a British Company. Filed Aug. 19, 1925, Serial No. 51,218, and in Great Britain Sept. 5, 1924. 5 Claims. (Cl. 123—58.)

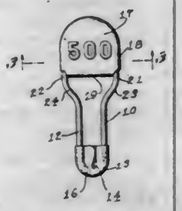
3. In a two-stroke internal-combustion engine, the combination of a main shaft, end cams co-axial therewith, cylinders parallel therewith and having slotted mouths overlapping the cams, opposed pistons working counter to each other in said cylinders and acting as valves to

control the air-inlet and the exhaust ports, rollers carried on inclined axles in the mouths of said pistons and engaging the inner sides of tracks on the cams, said cam tracks being formed by upstanding lips on the cams,



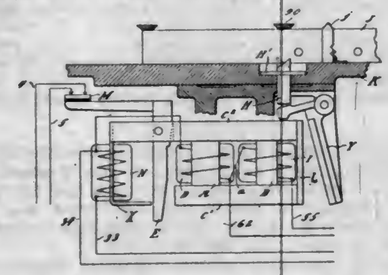
outer rollers also carried by the projecting mouths of the pistons and engaging the outer sides of the cam tracks, and slots or gaps in said tracks through which the rollers can pass when withdrawing the pistons, substantially as described.

1,664,087. LAUNDRY-MARKING PIN. HOWARD M. PERKINS, Meriden, Conn., assignor to Remo Manufacturing Company, Meriden, Conn., a Corporation of Connecticut. Filed June 16, 1926. Serial No. 116,385. 2 Claims. (Cl. 40—26.)



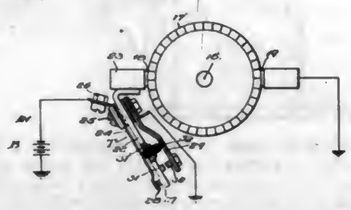
1. In a safety marking pin, a looped wire having a rounded intermediate section with its sides spaced relatively far apart, the ends of said looped wire being relatively near together, converging inclined sections for connecting said sides with said ends, and a symmetrical marking plate having a flange curled about said sides and said rounded intermediate section, said plate having a transverse interior edge curled upon itself and terminating short of said inclined sections to provide a relatively large open space within the pin and prevent tearing of the clothes by said plate.

1,664,088. ELECTRICAL CONTROL DEVICE. WADE H. REICHARD, Troy, N. Y., assignor, by mesne assignments, to General Railway Signal Company, a Corporation of New York. Filed May 24, 1923. Serial No. 641,074. 27 Claims. (Cl. 246—135.)



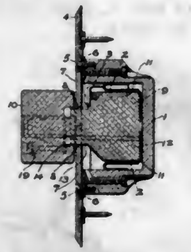
6. The combination in a traffic controlling system; a source of energy; a motor comprised in the system and operated from said source; a lever for controlling the supply of current to said source; indication means for indicating when the motor has operated in response to a movement of the lever and comprising a winding supplied with current from the source and a second winding supplied with dynamic current from the motor; and a circuit including one of said windings for controlling the supply of current from said source to the system.

1,664,089. THERMOSTATIC CONTROL FOR GENERATORS. CLARENCE RINGWALD, Chicago, Ill., assignor of one-half to Charles H. Caine, Chicago, Ill. Filed Feb. 23, 1926. Serial No. 89,862. 4 Claims. (Cl. 200—138.)



1. A unitary switch structure comprising a main switch element, a secondary switch element adapted for connection normally in electrical engagement with said main switch element, a heat responsive switch element, said heat responsive switch element and said main switch element being adapted to cooperate, and abutment means between said secondary switch member and said heat responsive element, said heat responsive element under normal temperature releasing said abutment member to permit engagement of said secondary and main switch elements, said heat responsive member responding to abnormal temperature to exert pressure against said abutment member to disconnect said secondary switch element from said main switch element, said heat responsive member then contacting with said main switch element.

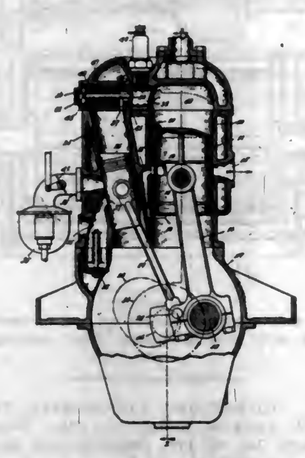
1,664,090. ATTACHMENT-PLUG ADAPTER. HOWARD R. SARGENT, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Feb. 27, 1923. Serial No. 621,647. 3 Claims. (Cl. 173—330.)



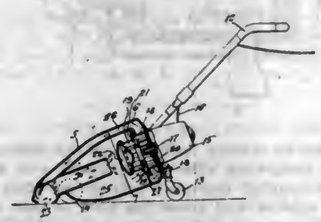
1. An attachment plug adapter comprising an inner base portion of rectangular shape and a contracted neck at one end thereof, an outer base portion having recesses and passageways therein brackets mounted upon the outer end of said neck, contact clips carried by said brackets, contact plates mounted on opposite edges of said inner base portion and connected to said brackets, and means connecting said outer base portion therewith.

1,664,091. INTERNAL-COMBUSTION ENGINE. ALFRED C. SINCLAIR, New Orleans, La. Filed Sept. 15, 1922. Serial No. 588,343. 29 Claims. (Cl. 123—72.)

18. A two-stroke cycle internal combustion engine, comprising a main cylinder and piston, a crank-shaft connected to said main piston, a supplemental cylinder and piston, said supplemental piston also being driven from said crank-shaft and being arranged to have a lead over the main piston in their cycle of movement, a crank-case in which air is compressed by the movement of the main piston and which is connected to said main cylinder by passages which are opened when the main piston is at the lower part of its stroke, said main cylinder also having exhaust ports which are controlled by the piston movement, a carbureter from which explosive mixture is supplied to said supplemental cylinder by the suction action of said supplemental piston on its down stroke, a valved passage between the upper ends of said two cylinders, and a spark plug having electrodes in said passage which interconnects said two cylinders.



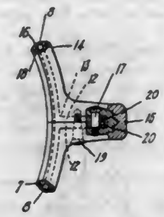
1,664,092. DIRT AND AIR SEPARATION. JOHN SQUIRES, Detroit, Mich. Filed Nov. 1, 1924. Serial No. 747,268. 3 Claims. (Cl. 183—77.)



1. A cleaner of the class described comprising a housing, an opening in said housing, a motor, a suction producing device and a rotatable separating device in said housing and operated by said motor to draw air and foreign matter through said opening and separate the two, a chamber in said housing for holding the separated foreign matter and a passage through which said separated air may pass, said passage having an opening extending adjacent said first opening, whereby said air may re-enter said opening and be re-used.

1,664,093. OPHTHALMIC MOUNTING AND METHOD OF MAKING THE SAME. FREDERICK A. STEVENS, Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 20, 1923. Serial No. 613,811. 18 Claims. (Cl. 88—47.)

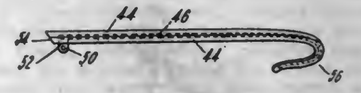
1. An ophthalmic mounting comprising non-metallic sheets disposed side by side in face-to-face contact and integrally united together along the contacting faces with one or more reenforcing parts between them.



5. The method of making an ophthalmic mounting that comprises grooving a non-metallic sheet, inserting one or more reenforcing parts in the groove, assembling the sheet with one or more ungrooved non-metallic sheets, and integrally uniting the reenforcing parts and the non-metallic sheets together.

18. An ophthalmic mounting comprising non-metallic strips disposed side by side in face-to-face contact and integrally united together along the contacting faces with a reinforcing rod of square cross section between them.

1,664,094. SPECTACLE TEMPLE AND METHOD OF MAKING THE SAME. FREDERICK A. STEVENS, Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Original application filed July 22, 1921, Serial No. 486,703. Divided and this application filed Nov. 9, 1923. Serial No. 673,748. 18 Claims. (Cl. 88—52.)



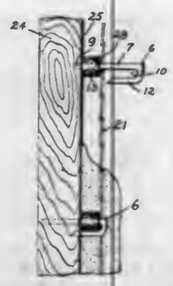
11. The process of producing a temple for an ophthalmic mounting, consisting in forming a metal-receiving groove in a sheet-material portion, inserting a metal member within the groove, assembling the portion with a separate member of material corresponding to the first portion to close the groove, and subsequently shaping the temple blank into the completed article.

1,664,095. OPHTHALMIC MOUNTING. FREDERICK A. STEVENS, Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed July 22, 1921. Serial No. 486,703. 1 Claim. (Cl. 88—43.)



An ophthalmic mounting comprising a non-metallic bridge having a reenforcing metal skeleton, and a rim having a recess within which the end of the non-metallic bridge is embedded.

1,664,096. FURRING AND FASTENING DEVICE. JOHN L. SULLIVAN, Oakland, Calif. Filed Dec. 26, 1923. Serial No. 682,836. 6 Claims. (Cl. 72—118.)



1. In a device of the character described, a fastening member comprising a shank having a wire engaging portion thereon, a spacing member of yieldable material arranged to permit the wire to be embedded into the body thereof slidably held on said shank and arranged for coaxial rotation thereabout and having an end surface adjacent said wire engaging portion adapted to cooperate with the latter to hold the wire therebetween.

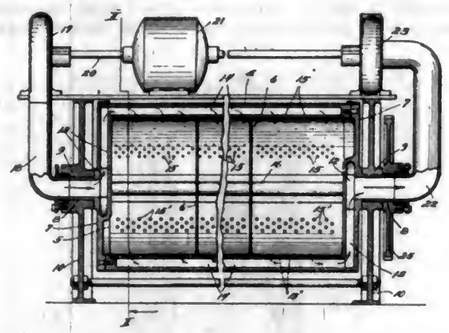
1,664,097. PROTECTIVE DEVICE. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 1, 1924. Serial No. 690,098. 10 Claims. (Cl. 200—94.)



2. In a device of the class described, circuit controlling mechanism, electroresponsive means spaced therefrom for controlling the operation thereof, a flexible insulating connection between said mechanism and said electroresponsive means, and means whereby the control of said mechanism by said electroresponsive means is rendered substantially independent of inherent changes in the length of said connection.

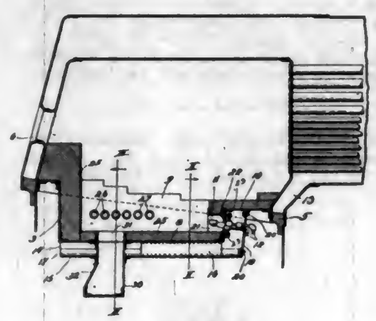
1,664,098. LAUNDRY DRIER. RICHARD W. YATES, Kansas City, Mo. Filed Nov. 3, 1924. Serial No. 747,495. 7 Claims. (Cl. 34—5.)

1. Laundry apparatus comprising a drying chamber provided with air inlet openings and air outlet openings at opposite sides of the chamber, means for imparting motion to the chamber to agitate the contents thereof, and means including intake and discharge conduit passages



moving in unison with said chamber and in constant communication with said inlet and outlet openings respectively.

1,664,099. OIL-BURNING LOCOMOTIVE FURNACE. HARRY A. ATWATER, Kansas City, Mo. Filed Oct. 8, 1923, Serial No. 667,177. Renewed Nov. 30, 1927. 5 Claims. (Cl. 158—3.)

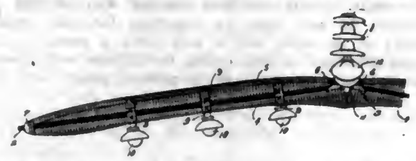


1. In an oil-burning locomotive firebox construction, a fire pan comprising side shelf portions and a longitudinally extending depressed portion providing a flame channel between and below the level of said shelf portions, exterior side and bottom walls spaced from the sides and bottom of said depressed portion and cooperating therewith to form an air-preheating passage, and a burner compartment forming a communicating passage between said flame channel and one end of said preheating passage, the bottom or floor of said depressed portion being closed as regards communication with said preheating passage.

1,664,100. HIGH-TENSION INSTALLATION. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 20, 1921. Serial No. 508,933. 26 Claims. (Cl. 173—13.)

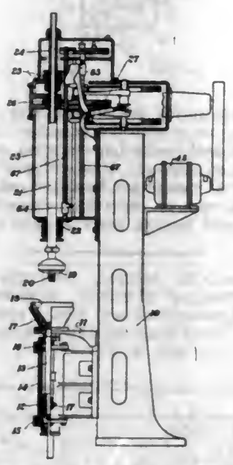
1. The combination with a conductor, of an openwork conducting cage surrounding said conductor and spaced outwardly therefrom for increasing the effective diameter of said conductor, said cage being of less length than said conductor.

5. The combination with a conductor, of a supporting insulator therefor, a flux control member connected with said conductor adjacent said insulator, and a cage of conducting material extending continuously along said



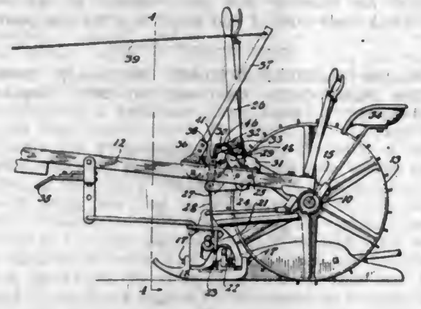
conductor adjacent said insulator and control member for a limited distance, said conductor continuing beyond said cage.

1,664,101. FORMING AND THREADING MACHINE. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Feb. 12, 1925. Serial No. 8,825. 22 Claims. (Cl. 25—3.)



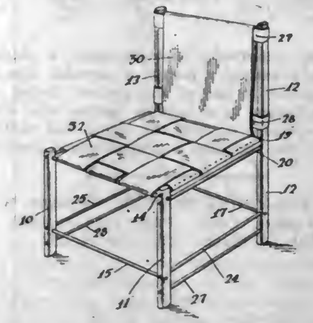
1. In combination a thread forming device, a continuous drive for said device, a periodically reversing drive for said device, and means for connecting said device with either of said drives.

1,664,102. CUTTER-BAR-ADJUSTING MECHANISM FOR MOWING MACHINES. ERNEST BASEMAN, Batavia, N. Y., assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,918. 4 Claims. (Cl. 56—281.)



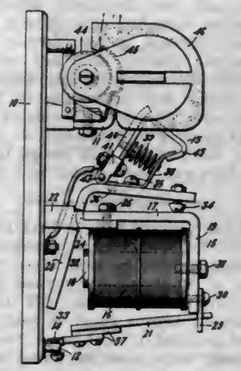
1. A mower comprising a main frame, a vertically swinging cutter bar pivotally mounted on said frame, a lever pivotally mounted on said frame and operatively connected with said cutter bar, and means for locking said lever in position when the cutter bar is raised to an inoperative position comprising a bracket mounted on said frame and having a shoulder, a pawl pivotally mounted on said lever and adapted to engage said shoulder upon moving said lever in the direction for lifting the cutter bar, and a releasing finger movably mounted on said pawl and adapted to move past said shoulder upon shifting said lever further in the direction for raising said cutter bar and to engage said shoulder and cause the pawl to clear said shoulder as the lever moves in the opposite direction for lowering said cutter bar.

1,664,103. CHAIR. EUGENE M. BISHOFF, Pasadena, Calif. Filed Aug. 17, 1926. Serial No. 129,712. 8 Claims. (Cl. 155—187.)



1. A chair having a pair of front and rear supporting uprights, a seat attached to said uprights, said rear uprights extending above said seat to form a back, a cross bar connecting the uprights adjacent their upper ends, a second cross bar connecting the uprights in a plane with said seat, a flexible cross member connecting the uprights between the cross bars, and a back forming flexible member extending from the first cross bar downwardly over the forward side of the flexible cross member and being secured to the second cross bar.

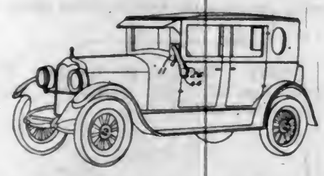
1,664,104. ELECTROMAGNETIC DEVICE. EUGENE R. CARICHOFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 9, 1924. Serial No. 691,797. 20 Claims. (Cl. 200—103.)



1. In an electromagnetic device, a magnetic structure comprising a fixed support and a magnetic return member removably secured to the free end of the support, an electromagnet having one end of the core thereof secured to

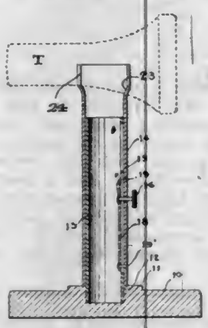
said return member with the free end of the core disposed adjacent the said support, and an armature hingedly mounted with respect to the said support for operation between the support and the free end of said core in response to the energization of said electromagnet.

1,664,105. TRAFFIC SIGNAL FOR MOTOR VEHICLES. JAMES L. DONLAY, Hynes, Calif. Filed May 25, 1927. Serial No. 194,062. 9 Claims. (Cl. 116—39.)



1. A signal comprising in combination a plurality of cylinders, each having a piston, a movable signal operatively connected to one of the pistons, means to connect said cylinders to a vacuum device, and means to control one cylinder to shift the signal and another cylinder to stop the signal in a predetermined position.

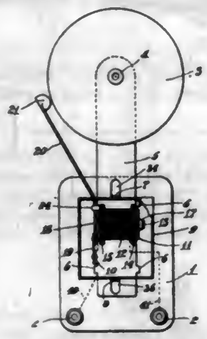
1,664,106. EAR-PHONE HOLDER. WARREN W. FISHER, Los Angeles, Calif. Filed June 1, 1927. Serial No. 195,750. 1 Claim. (Cl. 179—153.)



A telephone stand comprising a base plate, a tubular member extending into said base plate, a slot in said tubular member, a second tubular member receivable slidably over said first mentioned tubular member, a leaf-spring, means extending through said slot attaching said leaf-spring to said second tubular member, said leaf-spring bearing against said first tubular member, means extending through said slot providing a finger button for causing said leaf-spring to release its engagement with said first tubular member, whereby said second tubular member is adjustable on said first tubular member, a flared end on said second tubular member, and opposed cut-away portions on said flared end.

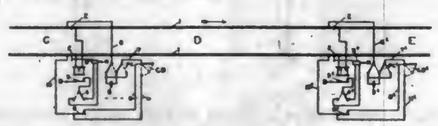
1,664,107. ELECTRIC BELL. WILLIAM F. HENDRY, Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Sept. 12, 1924. Serial No. 737,353. 4 Claims. (Cl. 177—7.)

4. In an electric bell, a panel of insulating material, four apertures provided in said panel, two binding posts mounted on said panel near the lower edge thereof, a metal bracket, means to clamp the bracket on said panel, two arms integral with the bracket and bent up on opposite sides thereof in staggered relation with each other, a magnet core, one end of which is frictionally held in one of said arms, and the other end of which serves as a polepiece, a coil and two spool heads of insulating material on said core, the lower edges of said spool heads resting on said bracket and serving as a support for said core, an armature for said magnet mounted on the other one of said arms, a contact point on said armature, a leaf spring having one end riveted to one of said spool heads, a contact point near the



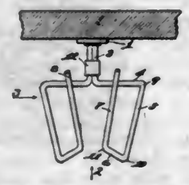
free end of said spring cooperating with the contact on the armature, an electrical connection from one end of said coil to said spring, an electrical connection from the other end of said coil to one of said binding posts, and an electrical connection from the other one of said binding posts to said bracket.

1,664,108. BLOCK SIGNAL SYSTEM FOR RAILROADS. WILLIAM S. HENRY, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 26, 1926. Serial No. 124,965. 6 Claims. (Cl. 246—45.)



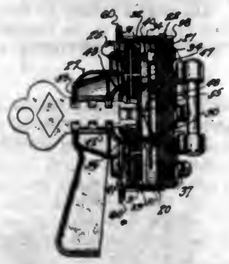
1. In a block signaling system for railroads, having tracks divided into blocks, a semaphore at the entrance to each block, a polarized track relay at the entrance end of each block governing said signal, a pole changer mechanically operated by each signal, a source of current, electrical connections between said source of current and the track rails including said pole changer and a front contact of the corresponding track relay for supplying track circuit current to the block next in the rear, and circuit controlling means operated by the signal for shunting said front contact of the corresponding track relay if said signal is in its stop position.

1,664,109. ARTICLE HOLDER. WILLIAM N. HOWDEN, San Pedro, Calif. Filed Oct. 20, 1926. Serial No. 142,898. 7 Claims. (Cl. 24—257.)



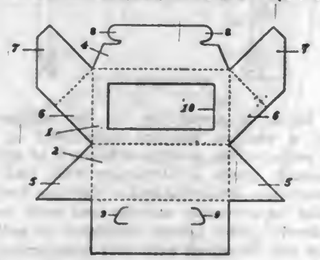
1. An article holder comprising a single wire having bent portions forming substantially two rectangles, the base sides of such rectangles being in substantial alinement, the adjacent sides of the rectangles forming gripping strands, the free ends of such strands such being the free ends of the wire riding on the base sides.

1,664,110. LIGHTING AND IGNITION SWITCH. EDWARD N. JACOBI, Milwaukee, Wis., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 12, 1924. Serial No. 749,442. 13 Claims. (Cl. 200—44.)



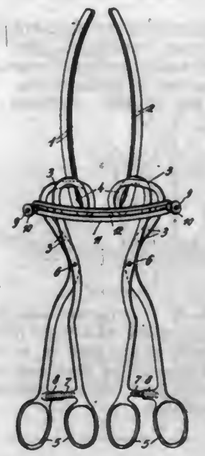
1. In a switch, a switch-case having a closed end, a handle member mounted to turn on the end of the switch-case, a key guide positioned between the handle and the end of the switch-case and mounted to turn therein, a contact member mounted to turn on the end of the key guide, and a key fitting in a slot of the key guide and engaging the contact member for turning it.

1,664,111. CARTON. WILLIAM M. JOHNSON, Urbana, Ohio, assignor to The W. H. Marvin Company, Urbana, Ohio, a Corporation of Ohio. Filed Mar. 23, 1927. Serial No. 177,720. 1 Claim. (Cl. 229—22.)



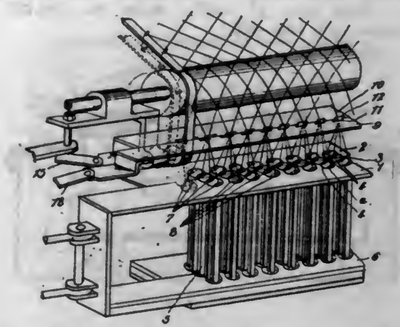
In a carton, a blank formed to provide a triangular shaped carton which is in cross section the shape of a plane right-angled, isoceles triangle, said blank having a rectangular shaped section to form the front, another rectangular shaped section to form the back, and a third rectangular shaped section to form the bottom, said front section being of greater width than the other sections and provided with a transparent window, said front section being provided at each end with a triangularly-shaped section of right-angled form attached to said front section along the line of its hypothenuse, a locking flap projecting from one of the sides of each of said triangular shaped sections, said back section also having at each end a triangular shaped section attached thereto along the line of its altitude with the base thereof co-extensive with the adjacent side of said back section, and another section attached to said front section adapted to overlie the bottom section and be interlocked therewith, the triangular sections which are attached to the front section being adapted to over-lie the outer side of those triangular sections which are attached to the back section so as to form the ends of the carton when folded, the rectangular shaped locking flaps projecting inwardly parallel with said bottom sections.

1,664,112. SURGICAL FORCEPS. AUGUST JÜNEMANN, Wittenberge, Germany. Filed Nov. 2, 1927, Serial No. 230,647, and in Germany Oct. 18, 1926. 4 Claims. (Cl. 128—325.)



1. An appliance for preventing hæmorrhage during operations involving incisions in the walls of cavities in the human body, comprising in combination two pairs of forceps, each pair of forceps comprising two pivoted members, a handle at one end of the member, a clamping jaw at the other end of the member, and a bridge member for connecting the two pairs of forceps such that they can be adjusted independently of one another and rotated with respect to one another for drawing the edges of the incision together, and can be taken apart for removing the clamping jaws from the incision, as set forth.

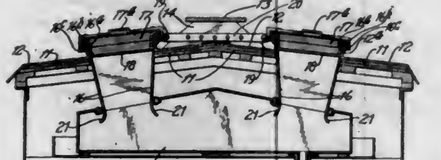
1,664,113. REED FOR NET-MAKING MACHINES. SAIBEI KAKUDA, Fukuyama-Shi, Japan, assignor to Saibi Mojiami Kabushiki Kaisha, Fukuyama-Shi, Japan. Filed Mar. 28, 1927, Serial No. 179,102, and in Japan Apr. 2, 1926. 1 Claim. (Cl. 96—4.)



A reed for net-making machines for interlocked netting, which consists of two plate members having respectively a series of notches in a side edge thereof and which are adapted to be positioned substantially flush and in close contact with each other at the notched side edges and to be moved intermittingly so as to shift the strands of the

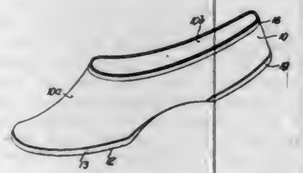
twines to the proper interlocking positions by the time of the commencement of the interlocking operation and to keep the strands confined in small spaces during the said interlocking operation.

1,664,114. SOUNDPROOFING METALLIC STRUCTURE. GEORGE L. KELLEY, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 21, 1922. Serial No. 569,964. 4 Claims. (Cl. 296—28.)



1. A vehicle body construction comprising a metallic body shell and a relatively thick inner lining therefor, said lining being applied to the shell in a viscous state and formed of such a composition that upon drying it becomes a tenacious non-resilient coating lowering the vibratory period of the body shell.

1,664,115. OVERSHOE. CLARENCE KENYON, Jr., New York, N. Y. Filed July 13, 1927. Serial No. 205,333. 4 Claims. (Cl. 36—6.)

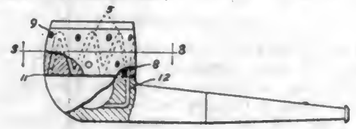


1. An overshoe comprising an upper having lateral wings intermediate the ends thereof, said lateral wings being inwardly bent and overlapped, and inner and outer sole portions connected to the said upper, said inner and outer sole portions extending into the arch portion of the overshoe.

1,664,116. CAR TANK. PETER KORTENHOEVEN, Chicago, Ill. Filed June 11, 1927. Serial No. 198,287. 3 Claims. (Cl. 105—355.)

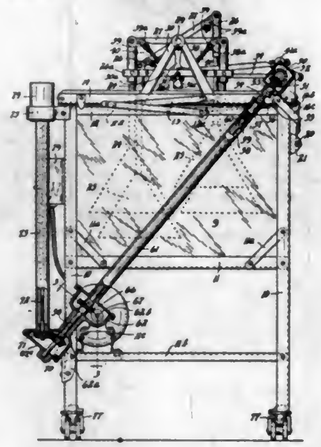
1. In combination with a car having a wooden roof and sheet metal covering, a tank, means for supporting the tank in the car beneath the roof, and a neck on said tank projecting upwardly through the roof of the car, the sheet metal covering of the roof of the car having an upwardly turned flange surrounding said neck, and the upper edge of said neck extending upwardly above said flange and bent downwardly around the outside thereof.

1,664,117. TOBACCO PIPE. EMANUEL KRATOCHVIL, Chicago, Ill. Filed Oct. 22, 1926. Serial No. 143,451. 3 Claims. (Cl. 131—12.)



1. A tobacco pipe having the stem and bowl, a mantle outside the bowl, said mantle having an extended passage leading to the bowl and atem at its respective ends and surrounding the bowl with an intervening air space.

1,664,118. WASHING MACHINE. OLLIE L. LAFFERIOR, Minneapolis, and NELSON A. LAFFERIOR, Argyle, Minn. Filed June 1, 1925. Serial No. 34,009. 7 Claims. (Cl. 74—14.)



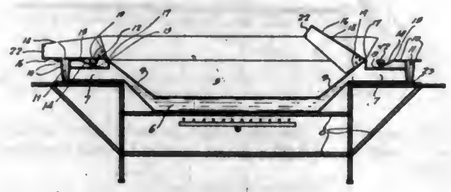
1. An actuating mechanism for the reciprocating elements of a washing machine comprising an operating shaft, a reciprocating member connected to said shaft, a beam movable about a stationary axis and to which said elements are connected and a yieldable connection between said reciprocating member and each end of said beam, whereby under normal resistance to said elements said beam will be moved with said reciprocating member, but under excessive resistance to said elements said yielding connection will yield and said reciprocating member will move relatively to said beam.

1,664,119. CUT-OFF-CONTROLLING MECHANISM. SAMUEL M. LANGSTON, Wenonah, and KARL SIEG, Brooklawn, N. J., assignors to Samuel M. Langston Co., Camden, N. J., a Corporation of New Jersey. Filed Apr. 26, 1927. Serial No. 186,772. 18 Claims. (Cl. 164—34.)



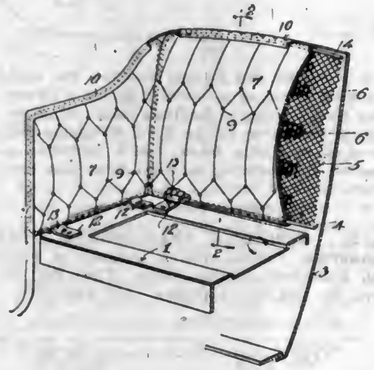
1. A cut-off controlling mechanism including a target in the path of the advancing end of the material to be cut off, and means for automatically varying the position of said target in accordance with the speed of travel of said material.

1,664,120. EAR-FORMING APPARATUS FOR POP CORN. HOWARD M. LAUBACH, Omaha, Nebr. Filed July 5, 1927. Serial No. 203,465. 8 Claims. (Cl. 107—16.)



6. In an ear-forming apparatus for pop-corn, a frame, a mixing-tank on the frame provided with steam chambers and inclined slides at its ends for moving the popcorn thereon, molds on the frame at the respective ends of the tank and a pair of apertured operating-plates adapted to be disposed with their apertures in register with said molds and to extend to and engage the slides of said tank for receiving the popcorn therefrom for delivery to said molds.

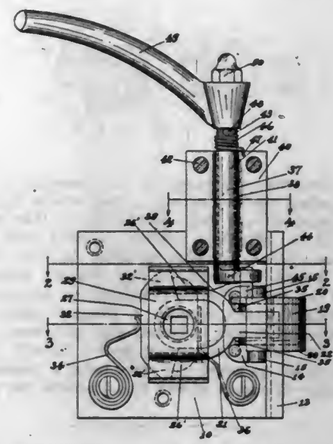
1,664,121. REMOVABLE CUSHION FOR VEHICLES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 8, 1919. Serial No. 295,531. 28 Claims. (Cl. 155—184.)



1. The combination with a vehicle body having a seat back and side portions formed with a longitudinally extending channel seat at its upper edge, of flexible metallic cushion frame sections for said back and side portions respectively, each section including a rod bent to conform to the contour of its respective seat back or side portion, and having its upper edge removably seated in said channel seat, flexible metallic netting secured to said rod, an upholstery cushion secured to said rod and stretched over said metallic netting, springs interposed between said flexible metallic netting and said upholstery cushion and flexible metallic stampings secured to the seat of said vehicle to yieldingly maintain the lower edge of said cushion frame seated in its position with respect to said seat back or side portion.

1,664,122. LATCH MECHANISM. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 18, 1922. Serial No. 561,841. 4 Claims. (Cl. 292—222.)

1. A latch mechanism comprising a base plate, a swinging latch bolt pivotally mounted thereon, a spindle rotatable about its longitudinal axis and having a horizontally disposed hooked finger engaging about a vertical projection on the latch bolt to swing the same on

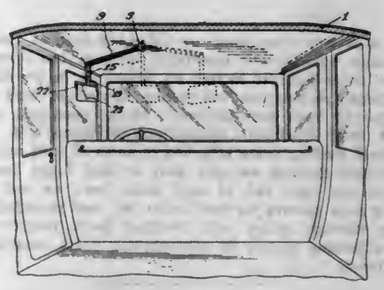


its pivot, said finger having a shoulder engaging the baseplate to limit rotation of the spindle in one direction, and means for rotating the spindle.

1,664,123. PRODUCTION OF DERIVATIVES OF ARSANILIC ACIDS. WINFORD LEE LEWIS, Evanston, Ill., assignor, by mesne assignments, to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 14, 1924. Serial No. 699,313. 4 Claims. (Cl. 260—14.)

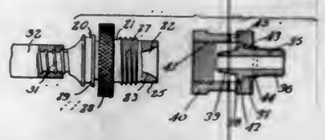
1. The method of forming compounds containing an arsanilic acid group with a radical containing a hydroxyl group substituted in the amino group which comprises reacting upon an arsanilic acid in aqueous caustic solution with a compound containing a reactive polyhydric alcohol residue.

1,664,124. GLARE SHIELD. JOHN M. LORENZ, Los Angeles, Calif. Filed May 10, 1926. Serial No. 107,979. 2 Claims. (Cl. 296—97.)



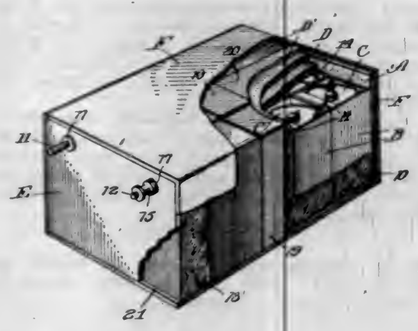
1. A glare shield comprising in combination a clamping bracket, means to secure said bracket to the roof of a vehicle, a horizontal channel-shaped arm pivoted to said bracket by a vertical clamping bolt, a depending rod hinged to the free end of said channel, whereby the rod may be swung upwardly and substantially housed within said channel, a screen holder connected to the lower end of the rod, and a screen in said holder.

1,664,125. HOSE COUPLING. JOHN R. LOWREY, San Francisco, Calif. Filed Nov. 10, 1926. Serial No. 147,448. 2 Claims. (Cl. 285—122.)



1. A coupling comprising in combination a tubular male coupling element having a plug with a tapered exterior surface at one end, external screw threads at the other end, a cylindrical section between said ends, a guard cup or nut rotatably mounted on the cylindrical section, means interengaging the tubular element and the cup to restrain their longitudinal movement, the cup having internal threads, a tubular complementary female element having a socket, and with screw threads external of said socket, said screw threads engaging the threads of the guard cup there being a cleanout opening to allow discharge of dirt from between the plug and socket.

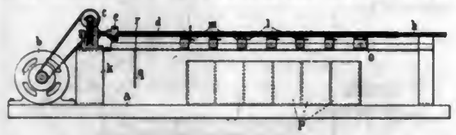
1,664,126. DRY-BATTERY CONSTRUCTION. EDWIN E. MEISEKOTHEN, Madison, Wis., assignor to French Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 28, 1925. Serial No. 53,070. 3 Claims. (Cl. 136—108.)



1. A battery comprising: an outer box open at one end; an inner box therein insertable through the open end of the outer box and having an open side; a plurality of individual rectangular cell-cartons seated in said inner box having open ends presented to the open side of the inner box; electrical connections between said cells; terminal binding posts attached to some of said cells and projecting through an end wall of said inner box and out of the open end of said outer box; an end piece acting as a closure for said outer box and provided with holes through which said binding posts project; and wire-attaching means on said binding posts outside said end piece.

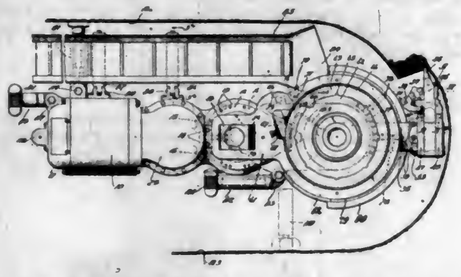
1,664,127. APPARATUS FOR INTERMITTENTLY INTRODUCING SUBSTANCES INTO SOLUTIONS AND WITHDRAWING THEM THEREFROM AND FOR ANALOGOUS PURPOSES. KEITH SINCLAIR MILLS, Beaconsfield, England. Filed Sept. 24, 1926, Serial No. 137,604, and in Great Britain Sept. 24, 1925. 10 Claims. (Cl. 95—89.)

1. Apparatus for intermittently introducing articles into solutions and withdrawing them therefrom including a rotatable screw-threaded element extending along the length of the apparatus, a stationary element extending along the length of the apparatus and disposed substan-



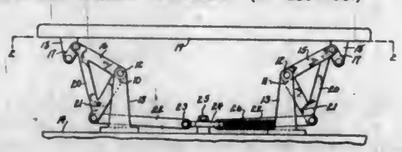
tially parallel to the aforesaid screw-threaded element and a plurality of lifting pieces carried by said stationary element.

1,664,128. MINING AND LOADING MACHINE. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Oct. 24, 1921, Serial No. 509,979. Renewed Nov. 25, 1927. 70 Claims. (Cl. 262—5.)



1. In a mining and loading machine, the combination with a main frame, of a conveyer having a forward semicircular hinged frame to facilitate maintaining the receiving lip of the latter on the floor, dislodging mechanism mounted on said main frame, and a delivering conveyer in position for receiving material from said first-named conveyer.

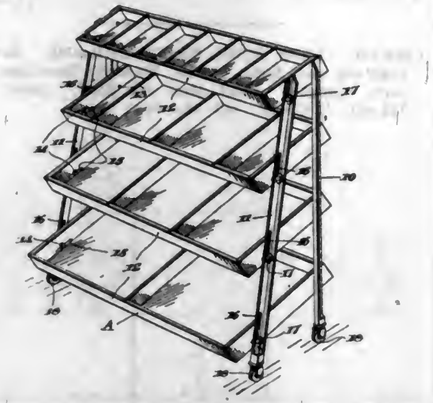
1,664,129. RESILIENT SEAT MOUNT. CHRISTIAN PALLENBERG, Clinton, Conn., assignor of one-half to Emil Pallenberg, Clinton, Conn. Filed Feb. 16, 1927. Serial No. 168,526. 5 Claims. (Cl. 155—50.)



1. In a resilient seat-mount, the combination with a seat-member and a support-member therefor, of a pair of rocking-bars, each formed with a pair of complementary supporting arms and with a coupling-arm extending substantially at a right angle with respect to the said supporting-arms, means connecting the coupling-arms of the said rocking-bars together for synchronizing the rocking movement of the latter, means for securing the said rocking-bars to one of the said members with capacity for rocking movement, and means for connecting the outer ends of each of the said pairs of supporting arms to the other of the said members.

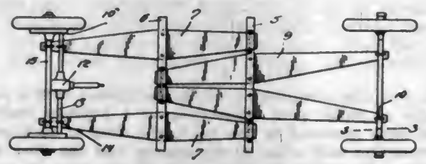
1,664,130. DISPLAY STAND. JAMES MACKENZIE RAE, Medicine Hat, Alberta, Canada. Filed Nov. 16, 1927. Serial No. 233,680. 5 Claims. (Cl. 211—130.)

5. An improved display stand comprising in combination, a plurality of interconnected standard members having a plurality of trays mounted in pairs pivotally carried by the standard members in opposed relation, brace members between the standard members, and



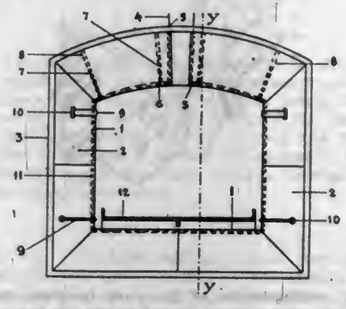
means for individually tiltably adjusting the trays for display purposes and roller means associated with the standard members for transporting the stand.

1,664,131. VEHICLE CHASSIS. GEORGE W. RAY, Forty Fort, Pa. Filed Mar. 3, 1927. Serial No. 172,411. 3 Claims. (Cl. 280—106.5.)



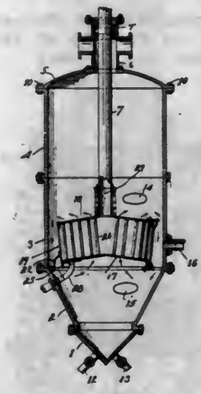
1. A device of the class described comprising a pair of cross bars disposed in spaced parallelism, a pair of flat-like spring members having their ends attached to one bar and their intermediate portion attached to the other bar adjacent the ends of the bars, a second pair of flat-like springs attached at their ends to the central portion of said other bar and having their intermediate portions attached to the intermediate portion of said one bar.

1,664,132. ELECTRIC FURNACE. IVAR RENNERFELT, Djursholm, Sweden. Filed Aug. 18, 1926, Serial No. 129,961, and in Sweden Sept. 1, 1925. 5 Claims. (Cl. 266—15.)



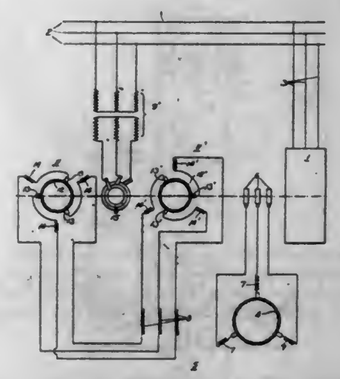
1. In an electric furnace a refractory, frame shaped flat body, a ribbon resistor located concentrically along the inner edge of the body, and means for securely clamping and reinforcing the body on the outside edge.

1,664,133. EVAPORATOR PROTECTOR. CARL WILLIAM SCHEDLER, Berkeley, Calif. Filed Nov. 11, 1925. Serial No. 68,255. 1 Claim. (Cl. 159—28.)



In an evaporator having a shell and a steam drum disposed therein, said steam drum comprising a steam chamber traversed by substantially vertical liquid tubes, and said shell having its liquid inlet disposed between the planes bounding the top and the bottom of said drum, a detachable plate between said drum and said liquid inlet of said plate having two upwardly extending ears, eyebolts in said ears, rods engaging said eyebolts and passing through tubes in said steam drum, an angle plate on the bottom of said detachable plate, and holes in said angle plate receiving the lower end of said rods.

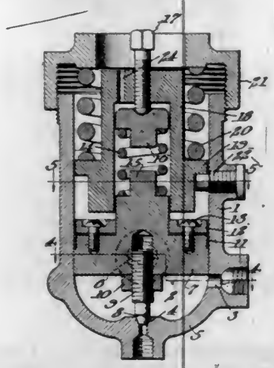
1,664,134. SPEED-CONTROL SYSTEM. LUCIEN SCHOMBOURGER and HIDDÉ K. SCHRAGE, Paris, France, assignors to General Electric Company, a Corporation of New York. Filed May 6, 1925, Serial No. 28,474, and in France July 1, 1924. 8 Claims. (Cl. 172—274.)



1. The combination of an induction motor, a regulating machine provided with an exciting winding and concatenated with said motor for controlling the speed thereof, an exciter for said exciting winding including series connected armature and field windings for controlling the excitation of the exciting winding of the regulating ma-

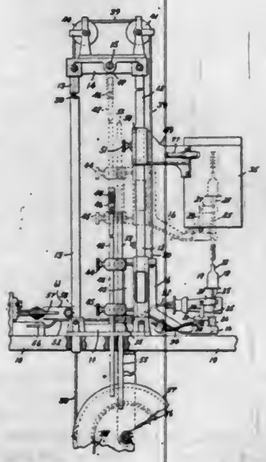
chine, said exciter armature and field windings being related to cause the production of component voltages whereby the ohmic and inductive drop in said exciting winding are neutralized.

1,664,135. CONTROL VALVE. WILLIAM SCRIMGEOUR, Washington, D. C. Filed May 15, 1926. Serial No. 109,331. 7 Claims. (Cl. 277—20.)



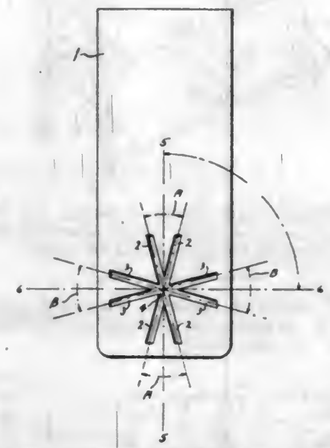
1. A combined cut-off and relief valve comprising a casing having an inlet port, an outlet port and a relief port, an outlet valve and a relief port valve, said valves being urged from their respective closing positions by the inlet fluid pressure, means providing a relatively low force opposing the opening of said outlet port and means providing a relatively large force opposing the opening of said relief port.

1,664,136. METHOD AND APPARATUS FOR TREATING FILAMENTS. GEORGE R. SHAW, South Euclid, and BERNHARD F. TELLKAMP, Cleveland Heights, Ohio, assignors to General Electric Company, a Corporation of New York. Filed May 3, 1927. Serial No. 188,550. 7 Claims. (Cl. 250—27.5.)



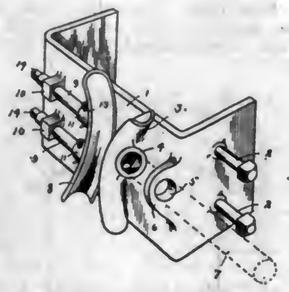
1. The method of combining a non-metal with a metallic filament which consists in exposing said filament while heated to incandescence to a gas containing said nonmetal and controlling the duration of said exposure by the increase in resistance of said filament.

1,664,137. LENS STOP OR DIAPHRAGM. EDWARD STEWART and JOHN GORDON WARREN, Hamilton, Ontario, Canada. Filed Mar. 25, 1927. Serial No. 178,451. 1 Claim. (Cl. 95—64.)



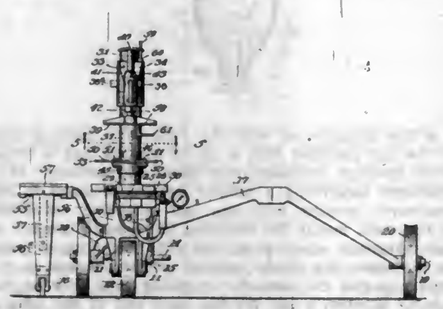
A lens stop comprising a diaphragm formed with a plurality of radial slots intersecting at a common centre, said slots arranged in two pairs, the slots of each pair intersecting each other at 30 degrees, and the lines bisecting the angles of intersection of the slots of each pair being perpendicular to each other.

1,664,138. PIPE-BENDING DEVICE. JOHN SUNDGREN, Duluth, Minn. Filed Nov. 22, 1926. Serial No. 149,809. 2 Claims. (Cl. 153—32.)



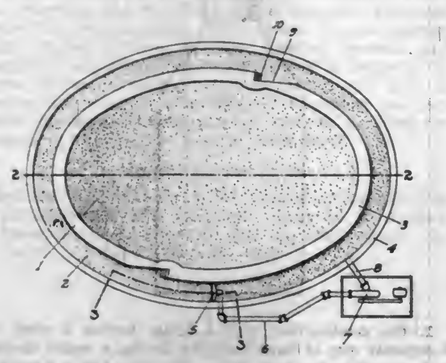
2. A bending device of the class described comprising a body portion, a fixed arcuately shaped jaw upon one face thereof and an opposite similarly shaped jaw normally spaced therefrom, and a pair of spaced adjustable supporting bolts for said latter jaw for the purpose described.

1,664,139. MOLDING MACHINE. HENRY TSCHERNING, Freeport, Ill., assignor to Arcade Manufacturing Company, Freeport, Ill., a Corporation of Illinois. Filed May 10, 1926. Serial No. 108,012. 15 Claims. (Cl. 22—43.)



1. In a molding machine, the combination of a supporting structure having wheels by which it is adapted to be supported on a floor, and squeezing means on said structure comprising relatively movable members arranged one above the other, one of said supporting wheels being centralized relative to the longitudinal axis of the lower one of said members.

1,664,140. SWIMMING CIRCLE. JESSE D. TUCKER, Sacramento, Calif., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Filed Nov. 3, 1926. Serial No. 145,995. 4 Claims. (Cl. 4—172.)



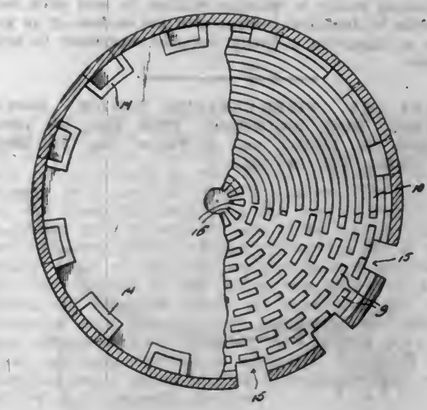
1. A swimming structure consisting of a continuous endless canal, means for maintaining a current of water in the canal for substantially the entire length thereof, and a recess in one of the side walls of the canal extending downwardly from the top thereof and disposed to one side of the line of flow of the current to form a relatively still water area into which a swimmer may pass when entering the canal.

1,664,141. ROLLING MILL. JONAH HOWELL VAN CAMPEN, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 16, 1926. Serial No. 102,440. 4 Claims. (Cl. 80—39.)

4. A three-high rolling mill comprising end frames, vertically alined roll housings, in said frames, rolls having their ends mounted in said housings, and roller bearings interposed between the necks of the rolls and said housings, each bearing comprising a multiplicity of series of conical rollers, and the upper and lower housings being of reduced thickness adjacent to the middle housing.



1,664,142. POTTERY KILN. ALBERT C. WARD, Canonsburg, Pa. Filed May 4, 1927. Serial No. 188,769. 8 Claims. (Cl. 25—132.)



1. An apparatus of the character described comprising a kiln floor adapted to have heat applied therebeneath, supporting tiers for the door defining tortuous passages therebetween and flues interposed between the floor and the tiers.

1,664,143. DEVICE FOR MANUAL PRODUCING OF CIGAR FILLERS. PHILIPP WEBER, Vallendar-on-the-Rhine, Germany. Filed Apr. 25, 1927, Serial No. 186,508, and in Germany Sept. 12, 1925. 2 Claims. (Cl. 131—48.)

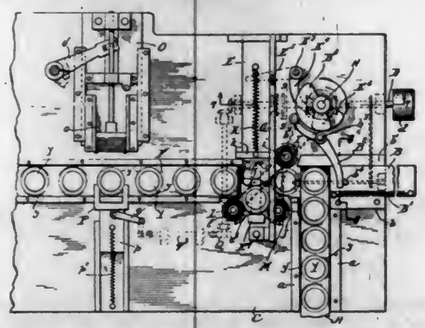
1. A device for forming cigar fillers comprising two mould shaped members, which when assembled take up the form of a cigar, a tip cap on one of said members

and a longitudinal sliding fold on the other said members, both members when assembled, with the edge of one member resting in the said fold of the other mem-



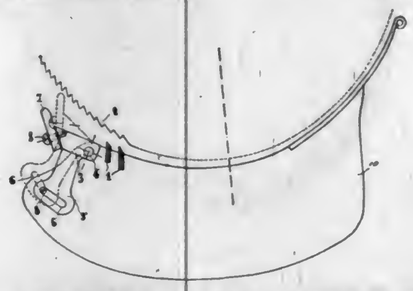
ber, forming a hollow mould for the filler, the joints between the two members lying flush with the interior surface of the mould.

1,664,144. ARTICLE-POSITIONING MEANS FOR LABELING MACHINES. CHARLES S. WEEKS, South Orange, N. J. Filed Mar. 20, 1926. Serial No. 96,270. 36 Claims. (Cl. 216—9.)



1. In an article positioning mechanism of the class described, the combination with means for moving articles in a definite path, of positively actuated article contacting means in movable relation to said path and operable by frictional contact with the surface of an article or imparting a partial rotative movement to said article.

1,664,145. FIBER-CLEANING DEVICE. MORRIS WEHLI, Basel, Switzerland. Filed Aug. 18, 1926, Serial No. 130,059, and in France Aug. 24, 1925. 1 Claim. (Cl. 19—105.)



In a fiber-treating apparatus, the combination, with a toothed cylinder, of a grid; a cross-piece mounted in the front part of the grid to swing about a horizontal axis toward and from the cylinder and having a beveled front face; a depending lug rigidly connected to each end of the cross-piece to swing therewith, each lug being formed adjacent its lower end with a slot; fasteners engaged in said slots to retain said cross-piece in adjusted position with relation to said cylinder; a knife resting directly upon the beveled face of the cross-piece and adjustable edgewise toward and from the cylinder and independently of the adjustment of said cross-piece; and fastening means engaged with the knife to retain it in adjusted position.

1,664,146. TOBACCO-PIPE VENTILATOR. JOHN WILSON, Pawtucket, R. I. Filed June 14, 1926. Serial No. 115,875. 4 Claims. (Cl. 131—12.)



4. The combination with the stem of a smoking pipe or the like provided with a smoke passage and a transverse opening communicating with said passage, of a ventilator comprising a tubular member mounted in the transverse opening with one end extending outwardly of the stem, means for retaining the tubular member in the transverse opening of the stem including a band on the outer end of the tubular member, means on the band engaging the stem for retaining said band on the tubular member, a cap for the outer end of the tubular member removably applied to the band and having an air inlet opening, a valve seat at the inner end of the tubular member, a valve seat on the cap about said air inlet opening of the latter, and a valve in the tubular member normally engaged with the second named valve seat and movable by suction in the smoke passage to engage the other valve seat.

1,664,147. BOTTLE-SEALING DEVICE. BENJAMIN WOOD, New York, N. Y. Filed Nov. 16, 1925. Serial No. 69,280. 2 Claims. (Cl. 215—33.)

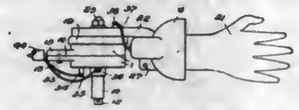


1. The combination with a bottle having a neck, of a separate cap of hard material having a space therein and secured to the neck at the top thereof by a frangible connection, a cork extending down into the neck and up into the cap, the cap being removable from the cork when detached from the neck by breaking said frangible connection, and a layer of tin foil covering the entire cap and engaging the neck below the cap, whereby the cap can be removed by twisting it about its longitudinal axis, and then the cork can be grasped by the part projecting above the neck and withdrawn by a twisting motion.

1,664,148. DIRECTION INDICATOR FOR MOTOR CARS AND OTHER VEHICLES. JOHN WILLIAM WOOD, Christchurch, New Zealand. Filed Oct. 11, 1926, Serial No. 140,921, and in New Zealand July 30, 1926. 4 Claims. (Cl. 116—46.)

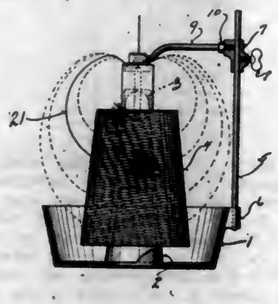
1. A direction indicator for a vehicle comprising a vertically disposed cylindrical casing mountable upon the exterior of the vehicle, a drum rotatable within said

casing, a cap enclosing the upper end of said casing and fixed to said drum to rotate therewith, a horizontal arm carrying a direction-pointing device fixed upon said cap to turn therewith, and a pair of tensional connections wound in opposite directions in peripheral grooves



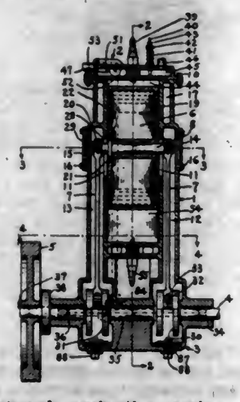
around said drum and differentially tensionable by a controlling device operable by the driver for the purpose of turning said drum to cause said direction-pointing device to project forwardly or laterally in either direction.

1,664,149. YARN BALLOONER. MAX N. ALMQUEST and ANTHONY B. JABLONSKI, Milwaukee, Wis. Filed June 6, 1927. Serial No. 196,855. 5 Claims. (Cl. 242—128.)



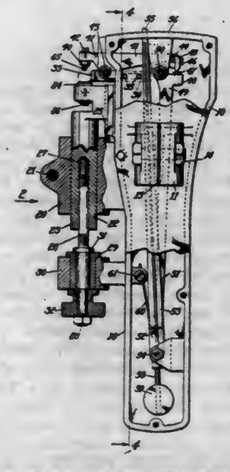
1. An unwinding device for yarn comprising means for receiving the yarn, a pair of members positioned above the yarn receiving means and of annular contour and adapted to have the yarn threaded between such members, one of said members having a centrally located discharge aperture through which the yarn is drawn, said members being adapted to depress the yarn above the yarn receiving member, whereby a looped formation of the passing yarn is maintained.

1,664,150. DOUBLE-ACTING FOUR-CYCLE INTERNAL-COMBUSTION ENGINE. CHARLES E. AUGNER, Floral Park, N. Y. Filed May 10, 1926. Serial No. 108,051. 1 Claim. (Cl. 123—63.)



In an internal combustion engine, a water cooled cylinder having oppositely arranged closed crank shaft pockets communicating with the interior of said cylinder at the central portion thereof, a double headed centrally recessed piston having piston rings at the extreme ends, having a centrally located flanged wrist pin as an integral part of said piston provided with means for oiling the bearings and cylinder, said pin having recessed bearings on the opposite ends thereof, connecting rods detachably and oscillatively held to said wrist pin and a double crank shaft, means supplying a gaseous mixture alternately to each combustion chamber, means alternately firing said mixture, means alternately exhausting the burnt gases from said combustion chambers and oiling means directed to force oil throughout the crank case, shaft pockets and to the interior of the cylinder.

1,664,151. CALIPERING MECHANISM. JOHN BATH and STANLEY W. BATH, Worcester, Mass., assignors, by mesne assignments, to said John Bath. Filed Dec. 17, 1925. Serial No. 75,891. 4 Claims. (Cl. 33—190.)



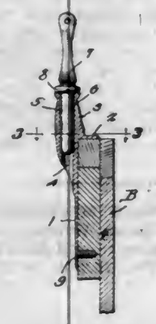
1. A calipering mechanism comprising a casing having a graduated scale mounted on the upper part thereof, an anvil slidably mounted thereon, means to adjust said anvil vertically on said casing, a movable contact element, a horizontally extending contact lever pivoted on said casing and supporting said contact element, a depending lever pivoted in said casing and having a laterally offset portion engaged by the long end of said contact lever, an upwardly extended pointer pivoted in the lower portion of said casing and having its indicating end extending upward to co-operate with said graduated scale on the upper portion of said casing, said depending lever engaging said pointer near its pivot and being effective to move said pointer in one direction, and a spring effective to yieldingly move said pointer in the opposite direction.

1,664,152. CONCRETE-FORM BRACE. PETER BROHETTE, San Francisco, Calif. Filed Jan. 19, 1927. Serial No. 162,050. 7 Claims. (Cl. 25—131.)



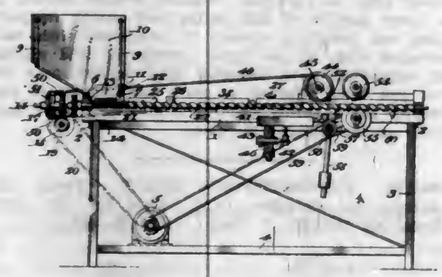
1. A concrete-form-spacer comprising a rod with its ends bent at right angles to the run of the rod and one of said ends spread laterally with reference to the run of the rod.

1,664,153. OARLOCK. ANSON BORKERT, Warsaw, Ind. Filed Mar. 11, 1927. Serial No. 174,553. 1 Claim. (Cl. 9—26.)



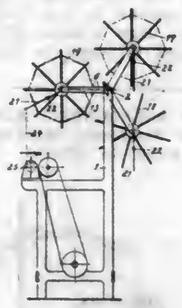
An oar lock including an attaching plate, a flange extending at right angles from the upper edge thereof, said flange and plate being adapted to bear upon the top and outer side edges respectively of the gunwale of a boat, there being openings in the flange and plate for the reception of fastening devices, a sleeve integral with the plate and flange, said sleeve extending outwardly beyond the plate and upwardly beyond the flange, there being a counterbore extending downwardly into the sleeve from its upper end, the lower end of the sleeve being beveled downwardly toward the plate and the upper end of said sleeve constituting a bearing, a bushing fitted within the counterbore, a yoke detachably bearing on the upper end of the sleeve, a cylindrical pin extending from the yoke within the bushing, a portion of the upwardly extending end of the sleeve being positioned to overlie a portion of a gunwale when seated in the angle formed by the plate and flange, thereby to reinforce the angle.

1,664,154. MACHINE FOR FINISHING GLASS TUBES, BARS, VIALS, BOTTLES, AND THE LIKE. LEON JEAN BROCHE, Vineland, N. J., assignor, by mesne assignments, to Kimble Glass Company, Vineland, N. J. Filed Mar. 23, 1926. Serial No. 96,811. 19 Claims. (Cl. 49—7.)



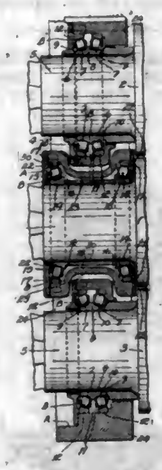
1. In a machine of the character described, a conveyer including two conveyer screws arranged in parallel relation and common plane, and each mounted for rotation in proper direction to move laterally an article bridging said screws and extending into the threads thereof, each screw being also provided at a like point in its length with an offset in its thread extending partially around its body in a direction perpendicular to the axis of such screw, and serving to hold the article treated temporarily against lateral movement yet permit continuing rotation of the screws.

1,664,155. SKEIN HOLDER FOR THREAD-SPOOLING MACHINES. XAVER BRÜGGER, Horgen, Zurich, Switzerland. Filed Dec. 18, 1926, Serial No. 155,715, and in Switzerland June 26, 1926. 2 Claims. (Cl. 242—85.)



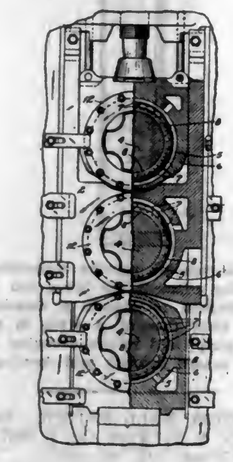
1. A skein holder for thread spooling machines comprising a horizontal shaft having equidistant longitudinal grooves, a support to which said shaft is rigidly connected, frames comprising pairs of radial arms connected to a hub and loosely mounted on said shaft by means of the hub, a reel mounted between each pair of arms, and a spring-pressed ball held in the hub so as to engage in the grooves of the shaft for holding any particular reel in operative position.

1,664,156. ROLLING MILL. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 11, 1926. Serial No. 80,470. 3 Claims. (Cl. 80—39.)



3. A three-high rolling mill comprising end frames, vertically alined roll housings in said frames, rolls having their end portions mounted in said housings, and roller bearings interposed between the necks of said rolls and said housings, the bearing of the middle roll comprising oppositely disposed conical rollers widely spaced apart, and the bearings of the top and bottom rolls, comprising rollers located between the planes of said sets of rollers of said middle roll, and the middle housing being recessed to accommodate the top and bottom housings.

1,664,157. ROLLING MILL. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 22, 1926. Serial No. 96,502. 5 Claims. (Cl. 80—39.)



5. A rolling mill comprising rolls of substantially even length and with short necks, roll housings substantially equidistant from the median line of the mill, and a multiplicity of series of conical roller bearings interposed between each neck of each roll and its housing and each bearing comprising a reversely tapered cone mounted on such neck and providing two raceways, an annular series of conical rollers for each raceway and a separate bearing cup mounted in said housing for each series of rollers.

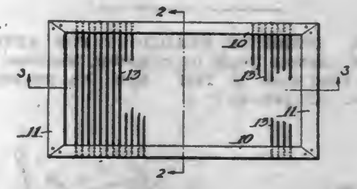
1,664,158. FASTENER FOR TIRE CHAINS. FREDERIC A. CALKINS, Waterbury, Conn. Filed June 23, 1926. Serial No. 117,972. 2 Claims. (Cl. 24—69.)



1. In a detachable fastener for connecting the end links of a tire chain, a tension link pivoted to one of said chain end links, a locking link pivoted to said tension link, said tension link having a recess for receiving the other chain end link; said locking link comprising a flat bridge section and a pair of depending side wings, said wings embracing the opposite sides of said tension member and serving to lock said other chain end link in position, said side wings when in locked position extending beyond the end of said tension member and having means to engage said first-named chain end link for holding said locking link in locked position.

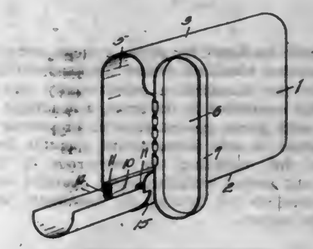
1,664,159. APPARATUS FOR PRODUCING ORNAMENTAL BACKGROUND ON STONE. ELROY A. CHASE, Northfield, Vt. Filed Apr. 23, 1926. Serial No. 104,193. 3 Claims. (Cl. 41—1.)

1. In a sand blasting apparatus, a sand obstructing device for producing an ornamental back ground, said device being adapted to be interposed in the path of the sand blast adjacent the surface of the work, and comprising a plurality of thin, flat, elongated, steel bars, and means to firmly support said bars substantially parallel



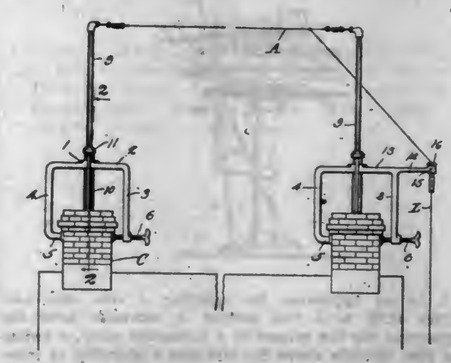
and with their flat side faces substantially parallel and with their flat side faces substantially perpendicular to the surface of the work.

1,664,160. COMBINED TOBACCO CAN AND CIGARETTE-PAPER HOLDER. SAMUEL M. CLEMENT, Webster Groves, Mo. Filed Aug. 9, 1926. Serial No. 128,297. 4 Claims. (Cl. 206—38.)



1. In combination with a tobacco can having a cover therefor, of a U-shaped cigarette paper compartment formed wholly within and along one side of the tobacco can and separated from the tobacco compartment thereof by a partition so that the papers can be partly extracted from their compartment in U-shaped formation to receive tobacco when the can is tilted and the cover has been opened.

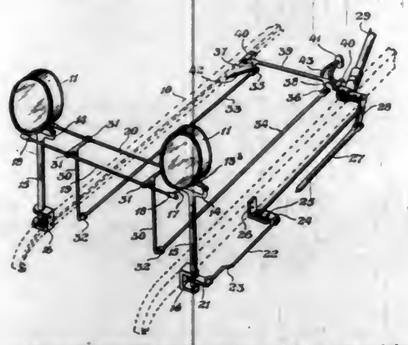
1,664,161. AERIAL SUPPORT. EDWARD H. CONSIDINE, Chicago, Ill. Filed Apr. 23, 1927. Serial No. 186,146. 2 Claims. (Cl. 248—38.)



1. An aerial support including a yoke having depending arms, cooperating means upon the arms for clamping upon structures of different sizes for holding the yoke

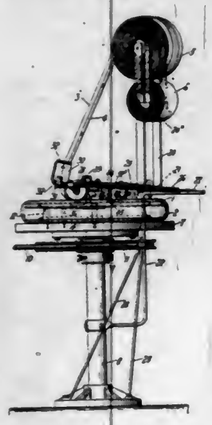
thereto, a sleeve adjustably mounted within the yoke, means carried by the sleeve for bearing downwardly on the engaged structure to hold the yoke against tilting, and a mast carried by the sleeve.

1,664,162. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. ARNOLD EDGAR DALY, Mather, Manitoba, Canada. Filed June 23, 1927. Serial No. 200,920. 2 Claims. (Cl. 240—61.)



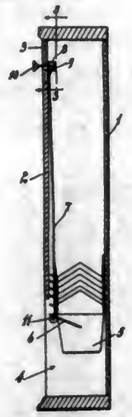
1. A dirigible headlight for motor vehicles comprising a rotatably mounted standard, forked lamp supporting arms unitary with the standard, a substantially star-shaped plate pivotally connected to the arms, a headlight rigidly secured on said plate, spaced parallel cross-rods operatively connected to said plate, means operable from the driver's seat for operating the cross-rods to tilt the headlights, and means simultaneously operable with the steering mechanism for turning the headlights with the wheels of the vehicle.

1,664,163. TIRE-FINISHING MACHINE. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 6, 1926. Serial No. 79,702. 27 Claims. (Cl. 154—9.)



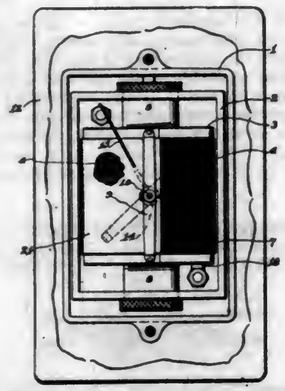
1. In an apparatus for applying a side wall and chafer strip to a tire carcass, a rotatable table for supporting the tire carcass in a horizontal plane, a swinging arm movable above the tire and a plurality of independently pivoted levers on said arm, a finishing tool carried upon each lever, and means for conducting a strip of finishing material to the tire carcass in front of said tools.

1,664,164. CARTON-VENDING DEVICE. WALDEMAR A. ENDTER, Long Beach, Calif. Filed Feb. 18, 1926. Serial No. 89,036. 2 Claims. (Cl. 312—43.)



1. A device for vending cartons comprising a cabinet having an opening adjacent the lower end thereof, said cabinet being adapted to contain a column of nested cartons having balls thereon, a strip in said cabinet, rollers on said strip, said rollers engaging the balls as the cartons are vended through said opening.

1,664,165. DIMMER WALL SWITCH. GEORGE FREEMAN, New York, N. Y. Filed Apr. 1, 1927. Serial No. 180,190. 12 Claims. (Cl. 201—48.)



7. In a device of the class described, a resistance coil wound on a core, a housing for said core, the top and bottom of said core supported by adjusting screws, a pivoted contact arm adapted to contact with said resistance coil for making and breaking an electric circuit, the said core having an offset portion so only one end of said arm will contact with said resistance coil at one time, the opposite end being free to idle, a switch plate at the front of said housing and a pair of slots within the said switch plate for ventilating the interior of said switch.

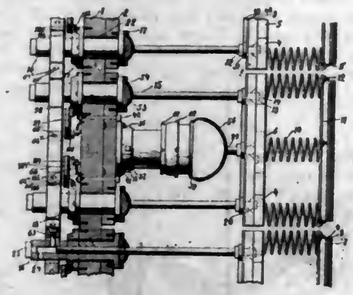
1,664,166. ADJUSTABLE WRITING IMPLEMENT. FRANK FUREDY, Brooklyn, N. Y., assignor to Bushwick National Bank. Filed July 22, 1924, Serial No. 727,460. Renewed July 16, 1927. 14 Claims. (Cl. 120—14.)

1. An adjustable pencil comprising a case, a plurality of lead stems arranged therein for longitudinal and pivotal movement, a rotary impeller in the case having helical channels, the lead stems having members cooperating with the respective channels for longitudinal stem movement, and guide channels located longitudinally in the case and having angular portions and co-operating with members of the lead stems to move them pivotally at a certain point in their longitudinal travel, the stems being moved simultaneously in opposite directions and partly rotated to selectively project and retract the different leads, by rotation of the impeller.



11. A pencil comprising a case, a lead stem mounted therein for longitudinal and pivotal movement and having a cranked portion, a lead grip mounted for limited reciprocating movement on the stem, and a clutch comprising flexible means located within the case near its lower end and adapted to cooperate with the lead grip to return the grip to normal position after it has been retracted on the stem in a lead-ejecting action.

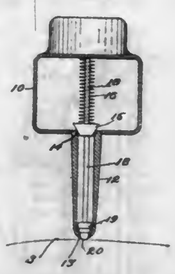
1,664,167. TORPEDO GUARD. JOHN GREENWICH, Fernwood, Idaho. Filed Sept. 27, 1920. Serial No. 413,066. 9 Claims. (Cl. 114—240.)



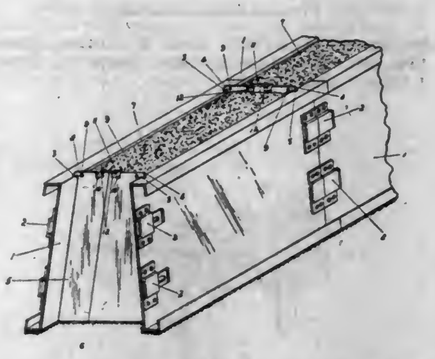
2. A shield for ships comprising a plurality of separate shields yieldingly carried by the hull, a plurality of plungers carried by the shields, cylinders associated with the hull and receiving said plungers, springs for holding the plungers in their outward position, explosive means carried by some cylinders and firing means associated with some plungers for exploding the charge.

1,664,168. SCALP-TREATING APPLIANCE. THOMAS STEWART HARRIS, Lowell, Mass., assignor to The Ayer Company, Lowell, Mass., a Corporation of Massachusetts. Filed Sept. 15, 1926. Serial No. 135,584. 5 Claims. (Cl. 132—13.)

5. In a scalp treating appliance, the combination with a reservoir and a hollow tooth communicating with said reservoir and having a discharge opening, of a valve for controlling the flow of fluid from said reservoir through said tooth, said valve having an operating stem provided with a rounded scalp-engaging member projecting through said discharge opening, and means for limiting the inward movement of said stem to an amount insufficient to permit the complete retraction of said member into said opening.

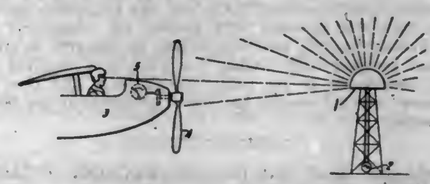


1,664,169. CURB FORM. EDWARD T. HARROLD, Binghamton, N. Y., assignor to Mark S. Hotchkiss, Johnson City, N. Y. Filed June 23, 1926. Serial No. 118,015. 3 Claims. (Cl. 25—118.)



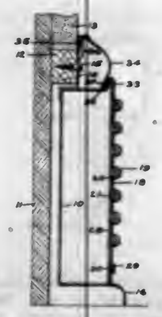
1. A curb form comprising inwardly sloping side walls, sectional spacing plates between said walls, the edges of said plates conforming to the slope of said walls, said plates being removable by sections from between the assembled walls.

1,664,170. AEROPLANE GUIDING LIGHT. WILLIAM F. HENDRY, Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc., a Corporation of Massachusetts. Filed Apr. 28, 1927. Serial No. 187,295. 9 Claims. (Cl. 244—2.)



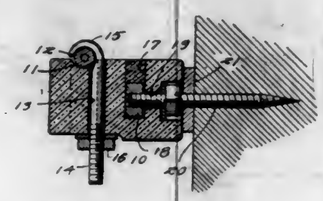
1. A vehicle guiding system comprising in combination, a vehicle, a light beacon, means whereby the brilliancy of said light beacon is periodically varied at a characteristic rate, and stroboscopic means on the vehicle for determining the periodicity of said variation of brilliancy.

1,664,171. ELECTRICAL BASEBOARD HEATER. WILLIAM WESLEY HICKS, San Francisco, Calif. Filed Dec. 17, 1925. Serial No. 76,033. 12 Claims. (Cl. 219—34.)



1. A combined air heater and wall base comprising a hollow metallic casing adapted to extend along substantially all the wall of a room adjacent the floor thereof, and electrical heating means within said casing.

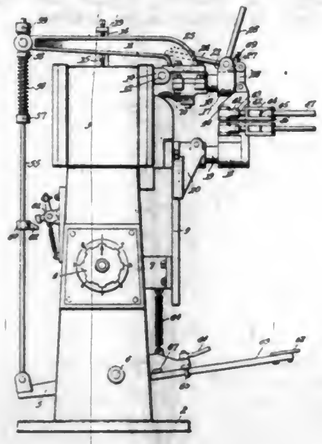
1,664,172. INSULATOR. JOHN R. HOLLER, Ellwood City, Pa. Filed July 20, 1926. Serial No. 123,712. 1 Claim. (Cl. 173—321.)



An insulator comprising a body having a transverse wire receiving groove adjacent one end, a bolt disposed transversely through the body and having a hook end for holding a wire in the groove, the body having a longitudinal bore extending inwardly from one end and a transversely directed recess communicating with the inner end of said bore, said end of the body having a recess surrounding the adjacent end of said bore, a nut in the transverse recess, and a bolt disposed in the bore and having threads engaged in the nut and projecting beyond the body and provided with threads for engagement in a wooden support, said bolt having an integral enlargement provided with wrench engaging faces disposed in the end recess of the body, whereby said bolt may be driven into the support prior to application of the body thereto.

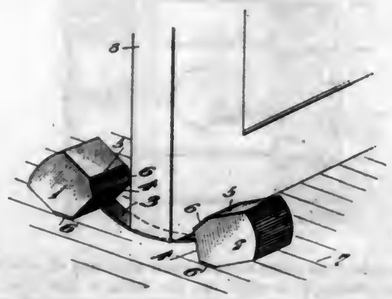
1,664,173. ELECTRIC-WELDING-MACHINE ATTACHMENT. CHARLES W. HOLSTEIN, Warren, Ohio, assignor to The Monarch-Welder Machine Company, Warren, Ohio, a Corporation of Ohio. Filed July 11, 1927. Serial No. 204,975. 8 Claims. (Cl. 219—4.)

1. An attachment for a spot welding machine of the type having vertically movable welding points mounted on horizontal conductor-carriers for converting it to a butt welding machine, comprising a die block and clamp carrier adapted to be substituted for the movable conductor-carrier, and a cooperating die block and clamp carrier



adapted to be substituted for the stationary conductor-carrier, one of said carriers having a slide upon which the corresponding die block and clamp are mounted, and means for reciprocating said die block and clamp on said slide towards and away from the other die block and clamp.

1,664,174. RETAINING DEVICE FOR DOORS. WASHINGTON I. HOOPES, Jr., Brawley, Calif. Filed Oct. 28, 1925. Serial No. 65,310. 4 Claims. (Cl. 292—344.)

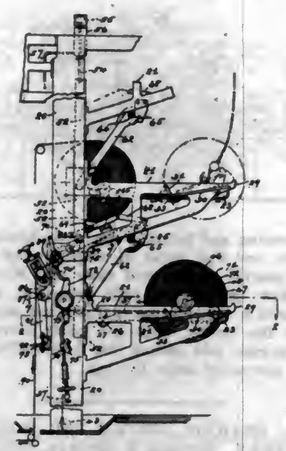


1. In a door holder, a flat resilient metallic strip of greater length than the thickness of the door, blocks having upper and lower bevelled corners adapted to contact with the floor, means for securing the ends of said strip at a point to one side of the center line of said blocks whereby the device may be reversed for use with doors varying in distance above the floor, said strip being flexed downwardly when in use by the contact of the bottom of said door therewith.

1,664,175. HEAT TREATMENT OF ALLOYS. KARL J JACOBI, Roselle, N. J., assignor to Pacific Coast Borax Company, New York, N. Y., a Corporation of Nevada. Filed June 9, 1926. Serial No. 114,807. 4 Claims. (Cl. 148—15.)

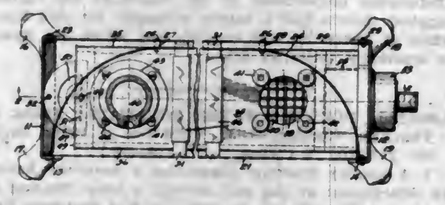
1. The method of heat treating alloy steels which comprises subjecting them to a fused bath of an alkali earth borate.

1,664,176. PAPER-WEB-CONNECTING MECHANISM FOR PRINTING PRESSES. THOMAS JOHANCEN, Linthicum Heights, and EDWARD KEHOE, Baltimore, Md. Filed June 25, 1926. Serial No. 118,487. 20 Claims. (Cl. 242—58.)



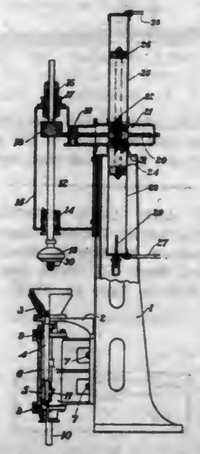
1. In a paper web mechanism for printing presses the combination with means for normally sustaining a rolled web of paper while the latter is being fed to the printing press, of means for moving the roll from the normal sustaining means while the web is unwinding therefrom to make room for the reception of a fresh roll in said normal sustaining means, a braking means for the roll when it is carried by the normal sustaining means and a second braking means for the roll and movable with the roll as it is shifted from the normal sustaining means.

1,664,177. ELECTRIC HEATER. ARTHUR J. KERCHER, Berkeley, and WILLIAM WESLEY HICKS, San Francisco, Calif. Filed Aug. 26, 1925. Serial No. 52,514. 8 Claims. (Cl. 219—34.)



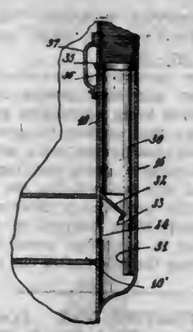
6. In an electric heater having a casing, a unit comprising a supporting element formed with downwardly extending parallel walls on two sides, a screen supported between said walls near their edges, a control switch secured to one end of said element, heating elements secured to the upper surface of said supporting element and transverse tongues on the upper surface of said supporting element for securing the unit within the casing.

1,664,178. FORMING MACHINE FOR PLASTIC MATERIALS. DONALD KEITH MACLEOD, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Feb. 12, 1925, Serial No. 8,721. Renewed Nov. 24, 1926. 7 Claims. (Cl. 25—3.)



1. A forming machine for plastic material comprising a movable die, a fluid pressure device for moving said die and a stop arranged to act on said fluid-pressure device for arresting said fluid pressure device to arrest the movement of said die at a predetermined position.

1,664,179. SAFETY DEVICE FOR GAS METERS. GIORGIO MANGIARACINA, Brooklyn, N. Y. Filed June 17, 1926. Serial No. 116,525. 3 Claims. (Cl. 73—1.)

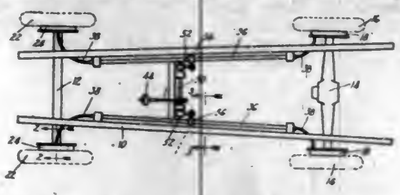


1. In a device of the class described, the combination with a gas meter having a side gas outlet opening into a gas outlet connection, of a tubular member having spaced slots therein, at the bottom thereof, and adapted to be inserted in the said outlet connection, the side portion of said tubular member between said slots being disposed inwardly and extended substantially across the passage therein, and positioned in front of the said side outlet for preventing the insertion of a wire into the said outlet.

1,664,180. BRAKE-OPERATING MECHANISM. MONTGOMERY W. MCCONKEY, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1925. Serial No. 78,554. 9 Claims. (Cl. 188—10.)

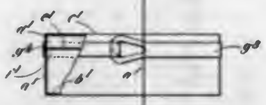
1. A vehicle having, in combination, front and rear brakes, a spring-supported chassis frame, a shaft ex-

tending longitudinally of the vehicle and supported by the chassis frame, brake-applying means for rocking the



shaft about its axis, and flexible operating members connected to the front and rear ends of the shaft arranged to apply respectively the front and rear brakes.

1,664,181. TIN AND LIKE CONTAINER. DUDLEY OWEN, West Smithfield, London, England, assignor of one-half to Andrew McCormick MacTaggart, London, England. Filed Sept. 13, 1926, Serial No. 135,081, and in Great Britain June 15, 1926. 2 Claims. (Cl. 220—53.)

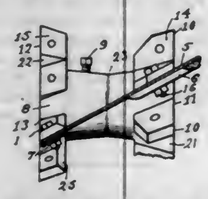


1. A container comprising a body portion with a fixed bottom, a cover with an endless flange of approximately the same perimeter as that of the body portion, and a flat tear-off strip soldered to the flange and depending below the same, the strip having an enlarged integral end portion which forms a part of and is a continuation of the strip and has a part cut therefrom to form a loop capable of being gripped by the fingers for removing the strip, the strip and loop being made of one piece of metal.

1,664,182. DENTAL POWDER. MAURICE PARISI, Corona, N. Y. Filed Mar. 12, 1925. Serial No. 15,151. 1 Claim. (Cl. 167—9.)

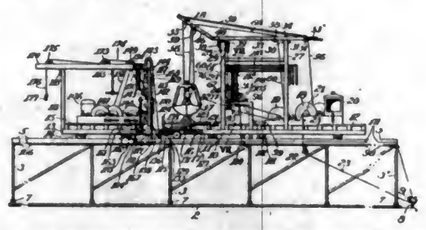
A tooth powder comprising non-absorbing powdered bone, bean powder, and rice powder in the ratio of 5:25:40, said mixture being adapted to exert a combined abrasive effect when first applied to teeth in a substantially dry state, said bean powder being adapted to rapidly absorb moisture forming a paste covering said powdered bone and powdered rice for reducing the abrasive power of said mixture after preliminary cleaning of said teeth and said rice powder being adapted to absorb moisture thereafter resulting in a thicker paste of less abrasive capacity for polishing the teeth after the cleaning thereof.

1,664,183. VENTILATING FAN. JAMES D. PARKER, Kansas City, Kans. Filed Aug. 5, 1926. Serial No. 127,433. 2 Claims. (Cl. 170—173.)



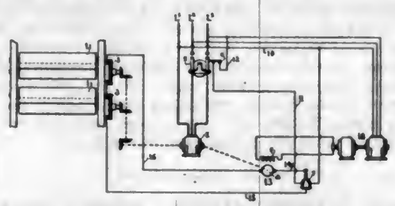
1. A fan comprising a hub of approximately cylindrical shape, a series of wings spaced apart circumferentially around each end of said hub, each of said wings on one end of said hub a companion of a wing on the opposite end of said hub, each companion pair of said wings disposed in a common spiral along the cylindrical periphery of said hub and then changing to a flat rectangular shape so that the flat rectangular portion of each companion pair of said wings lie in a common plane disposed radially from and crossing the axis of said hub near the center of the length thereof at an acute angle to the axis of said hub, and a flat blade bearing against and secured to the flat rectangular portion of each companion pair of said wings and projecting from said hub in the same general direction as the flat portion of said wings.

1,664,184. EXCAVATING AND CONVEYING APPARATUS. JOSEPH LE ROY POTTER, Indianapolis, Ind. Filed July 10, 1925. Serial No. 42,756. 17 Claims. (Cl. 214—86.)



1. Excavating and hoisting apparatus including a movable trestle, and two series of power means co-operating one with another to dig and clear and directly refill a trench below the trestle, each series of means being provided with a combination carrying car supported movably upon the trestle, each car being provided thereon with an engine and means for co-operating with the trestle to reversibly move the car.

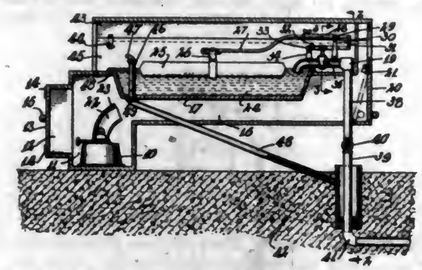
1,664,185. BRAKING SYSTEM FOR MOTOR-DRIVEN MACHINERY. THOMAS H. RODMAN, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 25, 1922. Serial No. 596,706. 3 Claims. (Cl. 188—158.)



2. In a braking system for motor driven machines operating on alternating current in combination direct current braking means to produce a braking effect approximately proportional to the square of the current supplied thereto and a supply generator for said brake which is driven by said machine and which has means to separately excite its field.

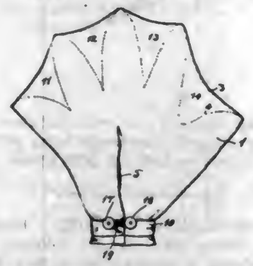
1,664,186. POULTRY WATER FOUNTAIN. FRANK R. THALKEN, Vineland, N. J. Filed Dec. 2, 1926. Serial No. 152,110. 2 Claims. (Cl. 119—73.)

1. A poultry fountain comprising a container having an enlargement at one end thereof, a lamp disposed in said enlarged portion, a partition in said container having a central rectangular opening therein, a tank comprising outwardly disposed edge portions disposed through the opening in said partition and suspended therefrom by said edge portions into the space below said partition, a supply pipe disposed through an opening in the bottom of said container and through a registering opening in said partition, a faucet on the upper end of said supply pipe having its discharge end disposed above said tank for delivering water thereto, and a door hinged to the other end of said container adapted



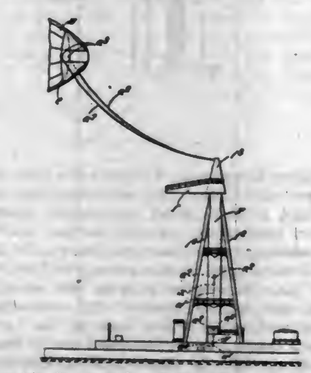
to be rotated inwardly for directing heat from said lamp upwardly in the direction of said faucet to prevent freezing thereof.

1,664,187. SWIMMING GLOVE. GEORGE VIANEBURG, New York, N. Y. Filed Dec. 19, 1924. Serial No. 756,860. 1 Claim. (Cl. 9—21.)



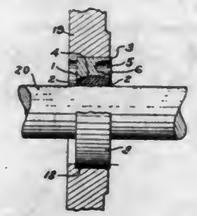
A swimming glove formed of two pieces of flexible material of equal size and similar outline, said pieces being secured together and a reinforced wrist band formed by having the material of each part folded upwardly and inwardly, prior to the joining of the parts together and securing an additional flexible member exterior of said parts and around said wrist portion, said glove having a button arranged adjacent to each end of said additional flexible reinforcing member and a cord between said buttons for drawing them toward each other in adjustable relation.

1,664,188. MOORING MAST OR MOORING GEAR FOR LIGHTER-THAN-AIR AIRCRAFT. BARNES NEVILLE WALLIS, Westminster, England, assignor to Airship Guarantee Company Limited, London, England, a British Company. Filed Jan. 4, 1926, Serial No. 79,076, and in Great Britain Jan. 12, 1925. 12 Claims. (Cl. 244—2.)



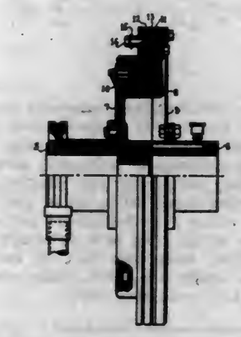
1. Apparatus for mooring lighter-than-air aircraft comprising a mooring mast, winding gear associated with said mooring mast, a pair of cables extending from opposite sides of the aircraft which is to be moored, the free ends of said cables being simultaneously wound in during the mooring operation by said winding gear so as to haul down the aircraft until it is brought into close proximity to the mooring mast.

1,664,189. SELF-ALIGNING BEARING STRUCTURE AND METHOD OF MAKING SAME. CARL CLAUS, Plainfield, N. J., assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J., a Corporation of New Jersey. Filed May 19, 1926. Serial No. 110,118. 2 Claims. (Cl. 308—72.)



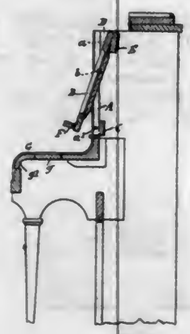
1. In a self-aligning bearing structure, a bushing in which a shaft may be journaled, a cylindrical housing provided with a circular seat in which said bushing is mounted and an annular slot in one end thereof, the engaged portions of said bushing and the housing being rounded whereby the bushing may rock in its seat to conform to the alignment of the shaft, the said seat in the housing having one end portion thereof normally shaped in conformity with the curvature of said seat and the other end portion between the seat and the annular slot formed substantially straight to permit the insertion of said bushing in its seat and be pressed around the adjacent end of said bushing so as to finally conform that portion of the seat to said bushing.

1,664,190. RELEASABLE POWER CONNECTION AND EQUIVALENT DEVICE. JOHN S. COLDWELL, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 14, 1923. Serial No. 674,635. 7 Claims. (Cl. 192—84.)



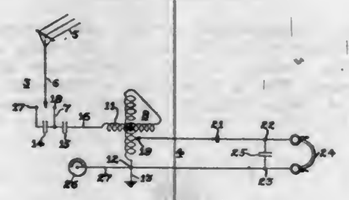
1. In a clutch or the like having a magnetic element, the combination with a friction device having a surface to be definitely located with reference to a normally concealed portion of said element, and means rigidly secured to said magnetic element to indicate the relation of said surface to said concealed portion of said element.

1,664,191. PIANOFORTE. ROBERT HENRY COLLEN, East Ham, England, assignor of one-half to John Broadwood & Sons, Limited, London, England. Filed July 10, 1926, Serial No. 121,673, and in Great Britain Nov. 17, 1925. 3 Claims. (Cl. 84—180.)



2. In an upright pianoforte, a top door, side sections forming part of said top door, a central section adapted to constitute a music desk pivotally connected to said side sections, and distance pieces secured to said side sections near their upper edges, in combination with a rail secured to said distance pieces, said central section being adapted to bear against said rail when in its inclined position for use as a music desk.

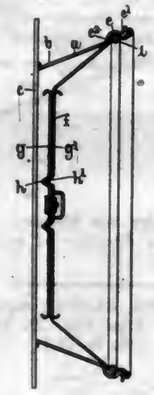
1,664,192. WIRELESS RECEIVING SET. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 11, 1922. Serial No. 574,816. 2 Claims. (Cl. 250—14.)



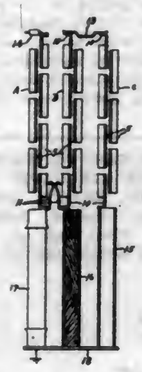
1. An oscillatory circuit having relatively large capacitive reactance to currents of predetermined frequency, a variable inductor having a relatively large reactance to currents of predetermined frequency, said inductor comprising relatively stationary and relatively movable coils, said coils being connected in series, and indicating means connected across a predetermined portion of and adapted to derive energy from said stationary coil, said predetermined portion being such that the energy losses in said indicating means are substantially equal to the energy losses in said oscillatory circuit.

1,664,193. GAS METER. ALBERT GEORGE COOKE and BENJAMIN CHARLES PHILLIPS, Hove, England. Filed Mar. 25, 1925, Serial No. 18,259, and in Great Britain Aug. 14, 1924. 2 Claims. (Cl. 73—1.)

1. A measuring chamber for dry gas meter comprising a partition, a rim soldered thereto, an annular semi-ellipse shaped recess swaged at the outer edge of said rim, a removable diaphragm mounted on said rim, a split spring ring inserted into said annular recess over said diaphragm, and said diaphragm being secured to said rim near the respective ends of said swage.



1,664,194. PROTECTIVE DEVICE. ELMER E. F. CRICHTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 5, 1924. Serial No 736,136. 7 Claims. (Cl. 175—30.)



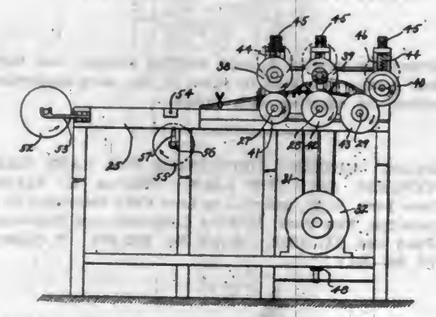
7. A multigap arrester having electrodes spaced to form gaps between each other, the gaps and the electrodes being arranged in serial order, one section of the series of electrodes overlapping another section of the same series, the overlapping arrangement being such that comparatively distant gaps of the series are located nearer each other than intervening gaps in the series whereby sparking in one section between the electrodes causes sparking to be started across gaps in the overlapping section, each section being enclosed in a transparent quartz tube, one of said sections being shunted by an impedance element.

1,664,195. ELECTRIC-ARC DEVICE. MICHEL CRÉMER, Paris, France, assignor to General Electric Company, New York Corporation. Filed Mar. 16, 1926, Serial No. 95,163, and in France Aug. 29, 1925. 3 Claims. (Cl. 250—27.5.)



1. An electrode comprising an inner conductive member, an outer conductive member provided with an active surface, and an insulation member arranged to form a border about said surface.

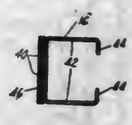
1,664,196. BEAD COVERING. CHARLES H. DESAUTELS, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 6, 1923. Serial No. 643,610. 12 Claims. (Cl. 154—9.)



9. A covering machine for triangular beads comprising a pair of pressure rolls adapted to unite the apex only of a triangular bead with a strip of covering fabric, a series of rollers adapted to turn one side of the fabric up the side of the bead, a second pair of pressure rolls adapted to press the covering fabric against the sides of the bead adjacent the apex, a second series of rollers adapted to contact with one base corner of the bead and set at progressively increasing angles to gradually turn one side of the fabric over the base of the bead, and a third pair of pressure rolls having their line of centers set at an angle to the line of centers of the preceding pair of rolls to cause the bead to be flexed with the base thereof outwardly disposed and adapted to press against the base of the bead the fabric previously turned thereover and to unite the edge of this fabric with the other side portion of the fabric.

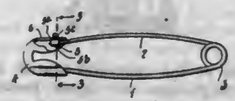
1,664,197. BRAKE. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1926. Serial No. 110,854. 17 Claims. (Cl. 188—250.)

7. A brake shoe comprising two separately-formed parts, each of said parts having a cylindrical flange and a stiffening portion integral with each other, the two parts being arranged with the stiffening portions extending inwardly at opposite sides of the friction face of the shoe and with the cylindrical flanges edge to edge, the cylindrical flanges being reduced at one end of the shoe so that the stiffening portions at that end form a pair of spaced projecting arms, said arms having inwardly-tapering bearing portions in alinement with each other,



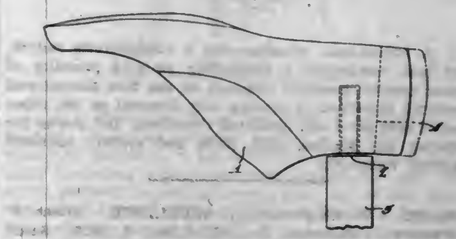
a pivot member projecting through the bearing portions, and conical parts on the pivot member seated in the tapered bearing portions.

1,664,198. SAFETY PIN. ANTON DVORAK, Shadyside, Ohio. Filed Dec. 15, 1926. Serial No. 154,982. 1 Claim. (Cl. 24—158.)



In combination, a safety pin having the front side of its guard provided with a longitudinally extending opening having its inner end laterally enlarged, a shank passing through the slot and adjustable longitudinally of the guard, a loop secured to the inner end of the shank and adapted to receive the free end of the penetrating bar of the safety pin, and a thumb piece secured to the outer end of the shank, said loop and thumb piece contacting with opposite faces of the front side of the guard, and said shank being adapted to occupy a position in the enlarged end of the slot to hold it against casual movement with respect to the guard.

1,664,199. METHOD OF AND LAST FOR MAKING TURNED SHOES. JAMES EDWARDS, Philadelphia, Pa. Filed Sept. 23, 1925. Serial No. 58,052. 6 Claims. (Cl. 12—133.)



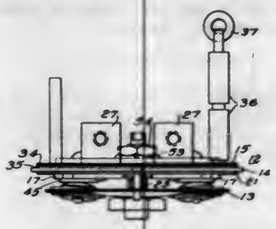
1. A method of making turned shoes consisting in making an upper with a lining fitting the leather; reversing the upper; temporarily securing a sole and the reversed upper to a last having space in its heel to receive the slack in the leather; stitching the upper to the sole; removing the last, and finishing the shoe on a standard last.

1,664,200. LIQUID-LEVEL INDICATOR. THOMAS M. EYNON, Philadelphia, Pa. Filed Mar. 11, 1925. Serial No. 14,613. 7 Claims. (Cl. 73—54.)



1. In a device of the character stated, a lower pressure sensitive diaphragm, an upper pressure sensitive diaphragm, means for retaining said diaphragms in constant relation to each other, and liquid conduits communicating with said diaphragms respectively for containing liquid columns adapted to be supported by said diaphragms for indicating the difference of pressures on said two diaphragms.

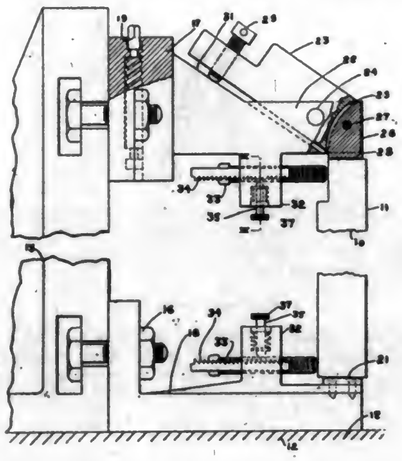
1,664,201. THERMOSTATIC SWITCH. CARL J. FAY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,111. 6 Claims. (Cl. 200—122.)



1. A switch-base structure for a thermostatic switch, said base comprising a supporting plate, a plurality of spaced contact members disposed on one face thereof and insulated therefrom, a heating unit disposed on the other face of said plate and insulated therefrom, and means for securing the heating unit, plate and contact members together compactly.

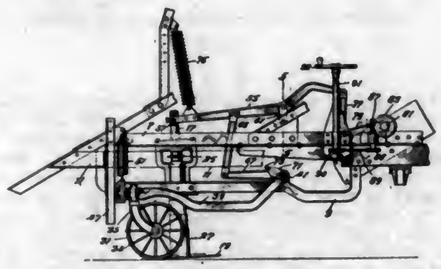
1,664,202. WORK-HOLDING APPLIANCE. JAMES F. FERNERY, Collingdale, Pa. Filed Mar. 6, 1925. Serial No. 13,632. 4 Claims. (Cl. 51—217.)

1. In a work-holding appliance, the combination of a base structure having a working surface, a plurality of independent work-supporting members, each of said work-supporting members having attaching means for rigidly engaging said working surface in any desired position relative to each other, means associated with each work-supporting member and adjustable in a direction toward or away from said working surface for establishing datum points for positioning the work, each of said work-supporting members having embodied therein a work-engaging surface adapted to receive or exert a thrust in a plane



substantially parallel to said working surface, and individual means embodied in some of the work-supporting members for effecting such thrust.

1,664,203. CUTTING MECHANISM FOR CANE HARVESTERS AND THE LIKE. FRANCIS K. FLYNN, New York, N. Y., assignor to Luce Cane Harvester Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 11, 1922. Serial No. 593,671. 8 Claims. Cl. 56—53.)

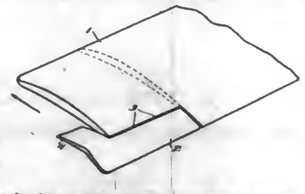


3. In a cane harvester, a frame, substantially vertical cutter shafts journaled in said frame for rotatable and longitudinal movement, cutters carried by said shafts, wheels adapted to run on the ground adjacent the side of the cutters and supported for vertical movement with reference to said frame, and connecting means between said wheels and said cutter shafts for transmitting the vertical movement of said wheels to said cutter shafts.

1,664,204. LATERAL CONTROL FOR AIRPLANES. ANTHONY H. G. FOKKER, Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation, a Corporation of New Jersey. Filed Aug. 26, 1922, Serial No. 584,595, and in Germany Mar. 22, 1921. 11 Claims. Cl. 244—29.)

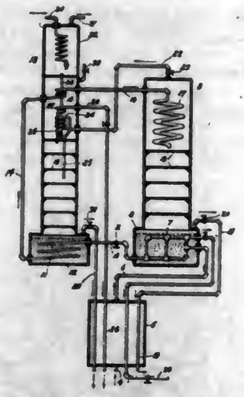
1. The method of effecting lateral balancing of airplanes having a fixed wing or lifting surface and ailerons

hinged to the opposite ends thereof which consists in counteracting the effect of the increased resistance to a depressed aileron at the same end of the wing, and



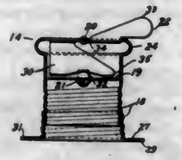
simultaneously increasing the resistance at the other end of the wing to compensate for the decrease in resistance by the raising of the aileron at such end.

1,664,205. PROCESS OF AND APPARATUS FOR ISOLATING ARGON. GORTON R. FONDA, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1924. Serial No. 700,211. 7 Claims. (Cl. 183—115.)



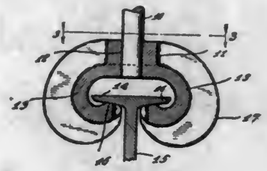
1. The method of deriving argon from air which consists in subjecting air to liquefying conditions, regulating said conditions to cause the liquefied portion of the air so treated to be less than the unliquefied portion, separating the liquid from the gaseous air, subjecting said liquid to a rectification process to produce liquid oxygen and a gaseous distillate of nitrogen containing most of the argon, reliquefying said distillate and rectifying the same to produce an argon concentrate.

1,664,206. RANGE VENT. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 26, 1925. Serial No. 58,822. 3 Claims. (Cl. 126—292.)



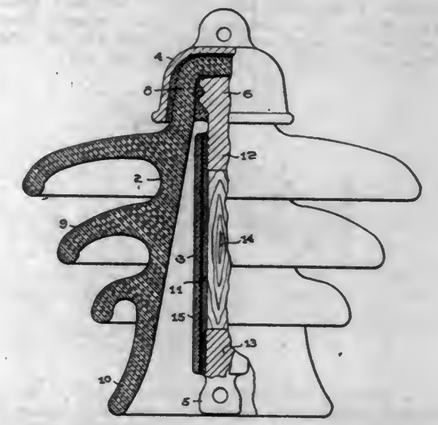
1. In a range vent, in combination, a substantially opened ended cylindrical member, a disc in said cylindrical member pivotally mounted therein, a pivot pin for said disc extending laterally of said cylindrical member, a projection on said disc extending laterally of the plane of the disc and located above said pivot pin, and an actuating lever for said disc having a portion operatively engaging one side of said projection to turn the disc in one direction and to limit the turning movement thereof in that direction.

1,664,207. BOLT HEAD. HARRY G. FRANCIS, Rushville, Ind. Filed Feb. 26, 1925. Serial No. 11,641. 3 Claims. (Cl. 144—281.)



1. A bolt for co-operating with an I-beam, comprising a shank, and a unitary head on said shank, said head having two arms which project on opposite sides of the shank and curve toward each other to provide a space for receiving the base flange of an I-beam set in the plane of said shank, said arm being provided with toes which engage the base flange of said I-beam at points removed from the edges of said base flange and being free from said edges so that the edges will not be distorted, the distance across the I-beam receiving space in the vicinity of said toes being greater than the thickness of said base flange where it is engaged by said toes.

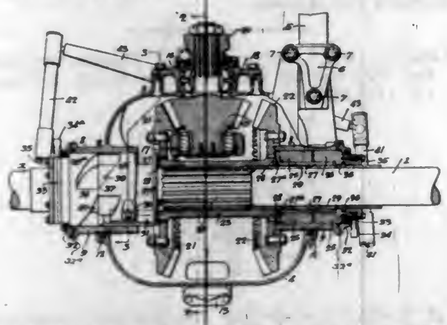
1,664,208. INSULATOR. GEORGE IRVING GILCHREST, Derry, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1922. Serial No. 588,525. 6 Claims. (Cl. 173—318.)



3. In combination, in an insulator, a member of refractory insulating material having a portion of substantially cup-shape, a pin structure embodying an elongated insulating tube, metal end members for said tube and a protective covering on said tube, one of said metal end members being disposed in the cup removed from the side walls thereof, and a body of cement in the space between the cup and the end member in the cup securing the pin to said refractory member.

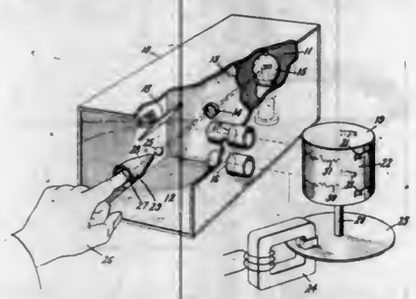
4. In combination, in an insulator, a member of refractory insulating material having a portion of substantially cup-shape, a pin structure embodying an elongated insulating tube, metal end members for said tube and a refractory tube enclosing said tube, one of said metal end members being secured in position in the cup.

1,664,209. REVERSING MECHANISM. CHARLES O. GUERNSEY, Philadelphia, Pa. Filed May 4, 1925. Serial No. 27,908. 6 Claims. (Cl. 74—58.)



3. A reversing mechanism comprising in combination a driving shaft and a driven shaft at an angle to each other; a bevel pinion on the driving shaft; a gear unit on the driven shaft comprising a sleeve and two bevel gears carried thereby, the said unit being axially movable to bring either of the gears into mesh with the pinion and the other out of mesh; two axially movable non-rotatable rings located at the respective ends of the gear unit and adapted to determine the longitudinal position thereof, the said rings having cam faces at their outer ends; two cam rings rotatable about the axis of the driven shaft having cam faces respectively adapted to engage the cam faces of the non-rotatable rings; and a housing enclosing the said gears and having bearing engagement with the outer surfaces of the aforesaid rings independently of the driven shaft.

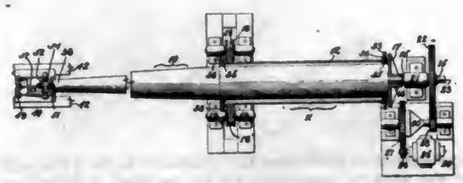
1,664,210. VIBRATION RECORDER. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed July 16, 1923. Serial No. 651,737. 4 Claims. (Cl. 234—1.)



1. A recording apparatus comprising a surface for receiving light beams, a light source, reflecting means intermediate said source and surface adapted to be freely movable in any direction for reflecting a light beam from said source to said surface, the movements of said beam corresponding to the movements of said reflecting means in one plane and means for projecting another light beam from said reflecting means to said surface corresponding to the movements of said reflecting means in a different plane.

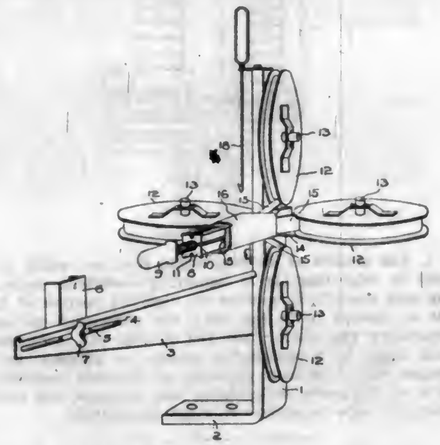
1,664,211. CAGE-MAKING MACHINERY. DAVID B. HANNA, Chicago, Ill., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1921. Serial No. 492,210. 8 Claims. (Cl. 140—71.)

1. Cage making mechanism comprising a winding mandrel, a rotary hollow headstock with means for driving it and for centering and securing the winding mandrel in it; a longitudinally adjustable tailstock base; a tailstock arm having a center pin for engagin gendwise with the mandrel and pivoted to said base to swing rearwardly



downwardly out of the way to permit insertion or removal of the mandrel, means for securing said center pin comprising semicircular clamping members and means for normally maintaining said tailstock arm in its operative upstanding position.

1,664,212. METHOD OF AND MACHINE FOR MAKING MAGNET-COIL CORES. EMIL E. HAWKINSON, South Bend, Ind., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 2, 1926. Serial No. 78,829. 11 Claims. (Cl. 29—84.)



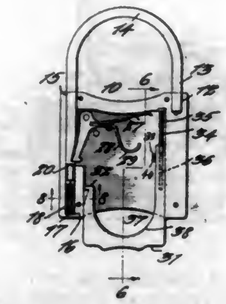
1. An assembly device comprising a standard, a plurality of supply reels mounted for rotation with respect to said standard, a mandrel detachably secured to said standard in cooperative alinement with said reels, and a stop mechanism associated with said mandrel for limiting the movement of said mandrel when disengaged from said standard.

4. A method of assembling cores and the like for magnet coils which comprises disposing a fibrous tube on a rectangular mandrel, simultaneously drawing insulating material through said tube on the respective sides of said mandrel, slipping end washers over said tube, arranging said washers in spaced relation thereon, and cutting off the tape to a predetermined length.

1,664,213. LOCK. HENRY A. HORSCHEN and JOHN D. WEAR, Omaha, Nebr. Filed Dec. 30, 1926. Serial No. 157,991. 4 Claims. (Cl. 194—59.)

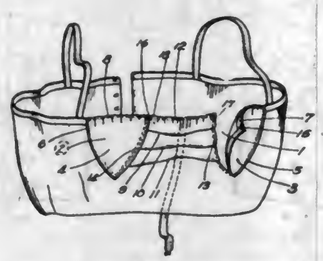
1. A coin controlled lock consisting of a lock case, a shackle therein, a detent for holding the shackle in locked

position, means associated with the detent and operative by pressure of a coin to disengage the detent from the shackle, means for exerting pressure on the coin to op-



erate the detent, and means whereby the detent engages the coin moving means and holds it against movement to retain the coin in the lock.

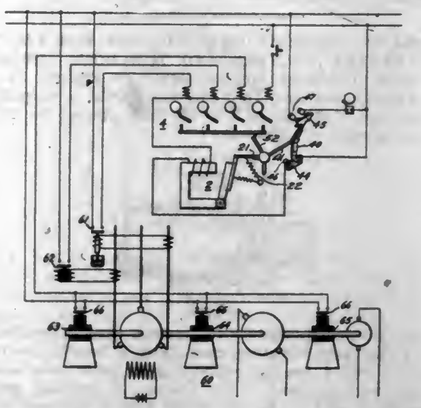
1,664,214. UNDERGARMENT CONSTRUCTION. IDA G. HUDSON, Oklahoma City, Okla. Filed Dec. 2, 1926. Serial No. 152,267. 1 Claim. (Cl. 2—31.)



In combination, the bosom covering portion of an undergarment, as described, having two substantially V-shaped sections spaced to engage the breasts of the wearer and having their apexes extending downwardly, said V-shaped sections fitting over similar shaped apertures in the garment, being fixedly secured to the garment along their outside edges, and being detachably secured to the garment along their inside edges, both adapted to be opened, thus baring the breasts of the wearer, elastic bands, tucks and gathers, along the upper edge of said V-shaped sections and along the three edges of the garment which lie between the V-shaped sections, all adapted to support the breasts of the wearer without binding.

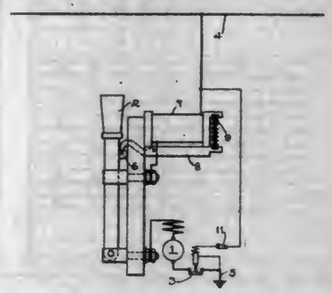
1,664,215. ANNUNCIATOR RELAY. LLOYD F. HUNT, Los Angeles, Calif., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1923. Serial No. 633,690. 2 Claims. (Cl. 177—311.)

1. A combined relay and indicator comprising a switch, a main operating coil therefor, a plurality of auxiliary indicator coils, an armature for the main coil serving as a latch to maintain the switch normally in one position, a spring to move the switch to another position when the armature is actuated by the main coil, indicator elements respectively associated with the indicator coils, said elements being normally hidden from view and being severally actuated to visible position when the corresponding



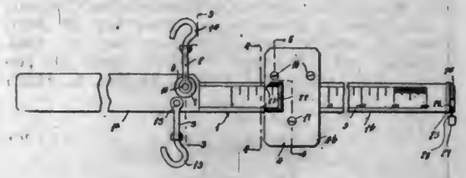
indicator coil is energized, and means for resetting the armature, the switch controlled thereby and the operated indicator element.

1,664,216. MOTOR-CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 2, 1922. Serial No. 585,850. 4 Claims. (Cl. 175—294.)



1. The combination with a motor and a circuit interrupting switch therefor, of an additional switch for interrupting the motor circuit and means comprising a series coil for preventing the operation of said additional switch prior to the operation of the first switch.

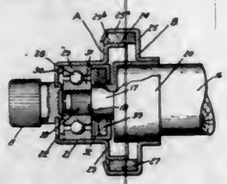
1,664,217. SCALE. JOHN B. KELLY, Harlingen, Tex. Filed Dec. 15, 1926. Serial No. 154,979. 5 Claims. (Cl. 265—49.)



1. Scales, comprising a beam provided with an opening, inner and outer bearing races extending through the opening, antifriction elements positioned between the races, a fulcrum pin extending through the inner race, a

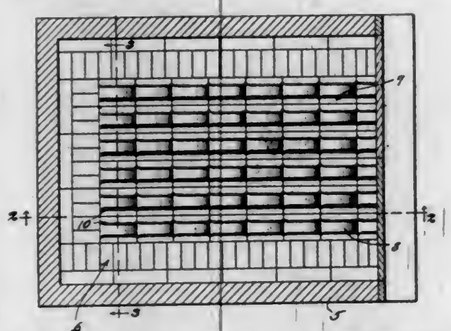
beam suspending clevis connected to the fulcrum pin, washers closing the ends of the bearing races, a balancing weight slidably mounted upon the beam, and a load suspending element pivoted to the beam.

1,664,218. BEARING CONSTRUCTION FOR VACUUM-CLEANER BRUSHES AND THE LIKE. HENRY T. LANG, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed June 30, 1925. Serial No. 40,662. 3 Claims. (Cl. 308—187.)



1. A bearing structure for vacuum cleaner brushes and the like, said structure comprising a housing having a closed end, a bearing comprising an inner race and an outer race mounted in the housing, a rotatable member having a stud on its end which stud is fastened to the inner race of the bearing, and packing means held in position by said housing which pack against said stud and against a surface of said rotatable member to prevent lubricant finding its way out of the bearing and foreign matter finding its way into the bearing.

1,664,219. BRICK. NELSON J. LEE, Baltimore, Md. Filed Mar. 22, 1927. Serial No. 177,324. 5 Claims. (Cl. 263—46.)



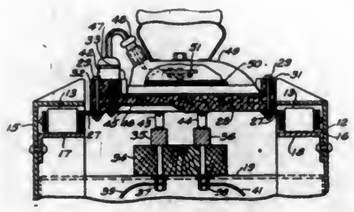
1. A furnace bottom including a plurality of rows of oblong bricks laid end to end, each brick having an enlargement formed on the upper surface thereof, the enlargements having curved upper surfaces, and the sides of the enlargements being cut away defining lateral passageways when bricks are positioned adjacent to each other in the formation of the bottom.

1,664,220. METHOD OF AND APPARATUS FOR TELEPHONY. SIEGMUND LOEWE, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1921, Serial No. 495,780, and in Gemany Dec. 31, 1915. 7 Claims. (Cl. 179—124.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



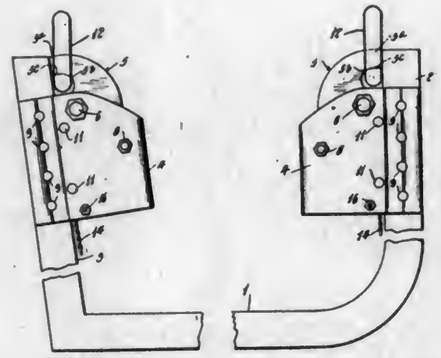
1. In a microphone, a cylindrical container formed of insulating material, a pair of carbon electrodes loosely mounted within said container and carbon granules loosely held between said electrodes.

1,664,221. METHOD OF TESTING ELECTRIC HEATING DEVICES. HOWARD D. MATTHEWS and RALPH F. BISBEE, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1926. Serial No. 112,183. 5 Claims. (Cl. 73—51.)



1. The method of determining the relative temperature rises of a plurality of similar electrically-heated devices which comprises energizing said devices for a predetermined length of time while in close operative engagement with cooperating pieces of fibrous materials initially wetted in a weak solution of acid and dried, and then noting the colors of the respective pieces of fibrous materials.

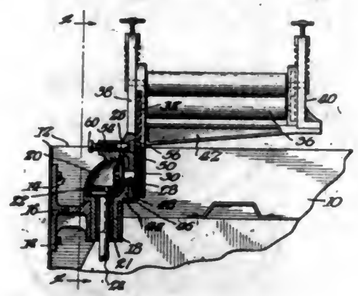
1,664,222. LIFEBOAT-RELEASING DEVICE. GEORGE W. P. OVERMAN, Norfolk, Va. Filed Jan. 21, 1926. Serial No. 82,704. 4 Claims. (Cl. 9—23.)



1. A boat releasing device comprising a bracket member, a hook pivoted to the bracket member and provided at its upper end with an outwardly directed bill and at its lower end with a shoulder and a lug located outwardly of and extending below the shoulder, and a latch pivoted between its ends to the bracket member and having a weighted lower end adapted to hold its upper end in contact with the shoulder and lug.

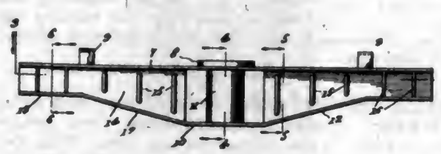
1,664,223. WASHING MACHINE WITH FOLDING WRINGER. HALSEY D. PAYNE, ALVIN W. DE CLERQUE, and SIDNEY T. SJOBERG, Chicago, Ill., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 19, 1921. Serial No. 523,604. 8 Claims. (Cl. 68—32.)

1. In a device of the character described, a cabinet, a wringer, means pivoting the wringer at a point inside the cabinet and below its upper edge in such a manner that the wringer may be swung in an arc in a horizontal plane and in an arc lying in a plane at right angles to the body of the wringer from an elevated position where it places the wringer above the top of the cabinet to a position where the wringer is below the top of the cabinet, means for locking said



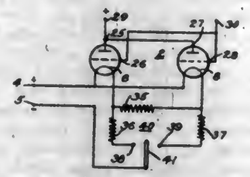
wringer in its elevated position and power driven means operating through the cabinet adapted to deliver power to the wringer rolls.

1,664,224. RAILWAY-CAR BOLSTER. CHARLES COTESWORTH PINCKNEY, Birmingham, Ala. Filed Apr. 2, 1927. Serial No. 180,486. 7 Claims. (Cl. 105—226.)



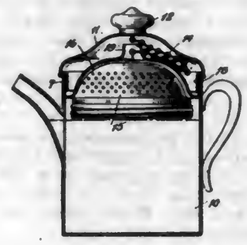
1. An electric welded railway car bolster comprising upper and lower face plates, a pipe section welded centrally to said upper and lower face plates, and corrugated webs extending on opposite sides of said pipe section and welded to the upper and lower face plates.

1,664,225. VACUUM ELECTRIC TUBE DEVICE. ERNEST YEOMAN ROBINSON, Manchester, and WALTER JOHN BROWN, Stockport, England, assignors to Metropolitan-Vickers Electrical Company Limited, a British Company. Filed Sept. 27, 1924, Serial No. 740,150, and in Great Britain Oct. 8, 1923. 4 Claims. (Cl. 250—27.)



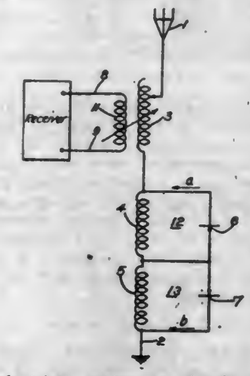
1. In a vacuum-tube device, a plurality of cathodes, means for maintaining one of said cathodes at a temperature so high that it will render the device operative, and means for maintaining another cathode at a temperature below that required to render the device operative, said last named temperature being so high that the time required to raise said other cathode to a temperature which will render the device operative is too short to noticeably interrupt the operation of the device.

1,664,226. BREWING UTENSIL. ARTHUR E. SILVER, New York, N. Y. Filed Mar. 17, 1927. Serial No. 176,219. 7 Claims. (Cl. 53—3.)



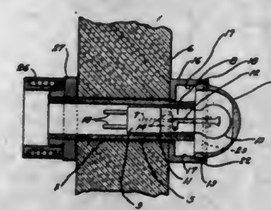
1. A tea or coffee pot, comprising a body, a cover therefor, a foraminous receptacle, a flexible connection between the cover and foraminous receptacle, and means carried by the body and independent of the cover, with which the flexible connection is engageable to support the foraminous receptacle in an elevated position.

1,664,227. STATIC-REDUCING SYSTEM. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 20, 1921. Serial No. 509,166. 18 Claims. (Cl. 250—20.)



1. In an electrical system, a circuit carrying oscillatory currents, a high-impedance device included in said circuit and means for rendering said impedance device substantially non-effective for said currents, said means being effective for sustained signalling waves independent of the amplitude thereof and substantially ineffective for current impulses of brief duration.

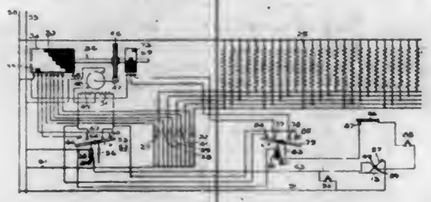
1,664,228. SWITCHBOARD LAMP. HARRY P. SPARKES, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1923. Serial No. 637,184. 3 Claims. (Cl. 177—329.)



3. A lamp for switchboard panels comprising a flexible tubular member extending through a perforation in the panel and having its ends threaded and extending

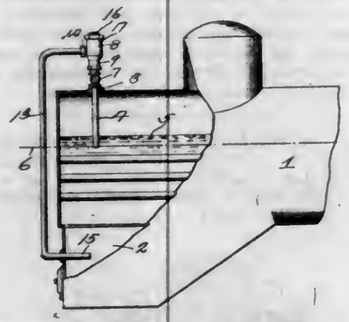
beyond the front and rear faces of the panel, a terminal socket within the front end of the tubular member for receiving a standard electric lamp and so supporting it that the filament extends beyond the end of the said member, a threaded lens socket adjustably mounted on a threaded portion of the tubular member and having means cooperating with the said threaded portion for compressing the tubular member into engagement with the terminal socket and thereby clamping the latter within the tubular member, a threaded nut on the rear end of the said member for clamping it to the panel, a substantially hemispherical lens mounted in the lens socket and enveloping the lamp and having its major portion projecting from the socket and visible from the front and sides of the panel and means for securing the lens in the lens socket.

1,664,229. DRIER-CONTROL SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 23, 1925. Serial No. 45,505. 4 Claims. (Cl. 219—20.)



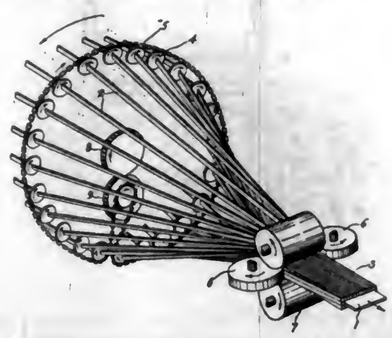
4. In a heating system for drying a web of material, the combination with a plurality of heating units, of a reversible contact drum effective to cause energization and deenergization of all of said heating units in step-by-step sequence, a motor for actuating said drum, a drag link normally operatively engaging said web for controlling said motor, and a thermal element, energized by said drag link in its inoperative position for causing said motor to energize and deenergize a part of said heating elements only in accordance with the temperature of said thermal elements.

1,664,230. BOILER ATTACHMENT. JOHN H. STOCKHOLDER, New Orleans, La. Filed Mar. 23, 1926. Serial No. 96,759. 1 Claim. (Cl. 122—504.1.)



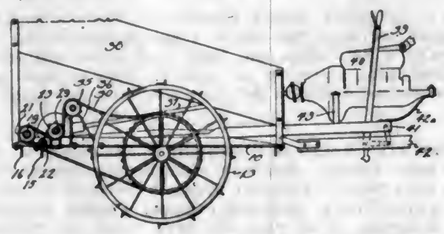
The combination with a pipe extending into a boiler to a position below the water level thereof, a fire box, said pipe having one of its ends extending into the fire box, a valve carried by said pipe adjacent the boiler, a T fitting carried by said valve and pipe and having oppositely disposed branches, a bushing threaded into one of said branches and removable through the other branch, a fusible plug carried by said bushing and a removable plug carried by the branch of the T fitting opposite the bushing-carrying branch.

1,664,231. METHOD OF AND MEANS OF PRODUCING CABLES. MAX THOMAS, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 28, 1925, Serial No. 53,047, and in Germany Oct. 6, 1924. 7 Claims. (Cl. 117—19.)



1. The method of making stranded cable which comprises passing a plurality of conductors through individual guides having openings corresponding to the cross-section of said conductors, extending the ends thereof through a plurality of pressure rolls, rotating said guides simultaneously about an axis extending centrally of the space between said rolls and rotating said guides individually oppositely to the direction of rotation about said axis.

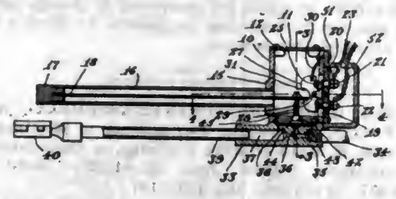
1,664,232. POWER-DRIVE ATTACHMENT FOR CORN PICKERS. KINNEY TJOSSEM, Paullina, Iowa, assignor of one-half to Swen Skaar, Paullina, Iowa. Filed Dec. 6, 1926. Serial No. 152,829. 3 Claims. (Cl. 180—53.)



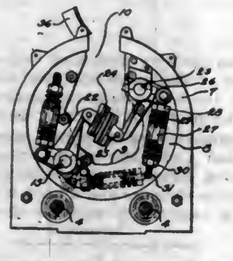
1. In combination with a corn picking vehicle having main wheels, a frame including spaced longitudinal beams supported between said wheels, a main drive sprocket on one of the main wheels, an elevator drive shaft journalled upon the frame, just above said beams, parallel to the main wheel axis and spaced from the wheels, elevator drive sprockets on said shaft, aligned with the main drive sprockets, a chain connecting said sprockets, a power drive attachment comprising an automobile power plant and transmission, mounted upon the frame, the rear axle housing of the transmission being secured transversely upon the beams, power drive sprockets secured to said axle and aligned with the elevator drive and main sprockets, and idler sprockets supported above said power drive sprockets and between them and the main wheels, the chains passing under the power drive sprockets and over the idler sprockets.

1,664,233. VALVE CONTROL APPARATUS. EUGENE T. VINCENT, Boston, Mass. Filed May 15, 1926. Serial No. 109,451. 1 Claim. (Cl. 67—116.)

In an apparatus of the kind described, the combination of a main burner, a pilot burner, a source of fuel supply for said burners, a thermostatic arrangement actuated by the influence of heat from the pilot burner and operating to shut off the flow of fuel to the pilot burner upon the extinguishment of the pilot light for the predetermined length of time and control means for a main fuel supply operable simultaneously with the operation of the pilot control means.

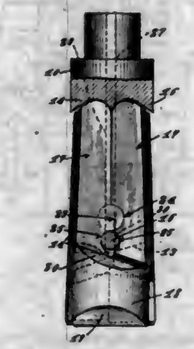


1,664,234. COIL-IRONING MACHINE. JAMES R. WEAVER, North Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 14, 1923. Serial No. 651,538. 9 Claims. (Cl. 173—244.)



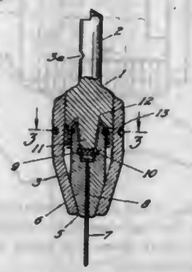
1. A coil ironing machine comprising a support, means for mounting a coil thereon, a pair of heatable pressure platens for engaging said coil pivoted at diametrically opposite points and rotatably mounted on said support, pressure means for said platens comprising a plurality of coil springs and means for adjusting the pressure on said platens independently of each other.

1,664,235. DRILL BIT. EDGAR C. WHITESITT, San Bernardino, Calif., assignor to Stickney Expansion Drill & Manufacturing Company, Coeur D'Alene, Idaho, a Corporation of Idaho. Filed May 27, 1925. Serial No. 33,303. 1 Claim. (Cl. 255—76.)



In a drill of the character described, a stock bifurcated to provide a fork having reversely beveled terminals, a cross coupling pin mounted in the fork, the stock being recessed at the inner end of the fork to provide separate seats at such end, co-acting cutter members formed with head portions engaging respectively in the seats and with outer cutting ends and lateral shoulders to be engaged by the beveled terminals of the fork, said jaws having half sockets to receive the coupling pin, and means for swingingly coupling said cutter members above the coupling pin, said stock, coupling pin and cutter members being provided with axially disposed aligning passages communicating with the space confronted by the lateral shoulders.

1,664,236. CHUCK FOR HAND TOOLS. AXEL WICKNER, Chicago, Ill. Filed Nov. 15, 1924. Serial No. 750,164. 1 Claim. (Cl. 279—56.)



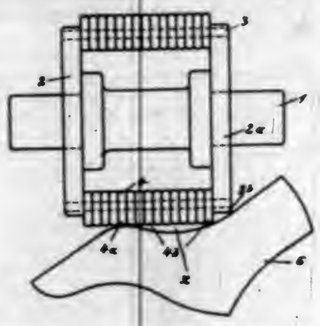
A chuck comprising a threaded body having a frusto conical extension formed integrally therewith and provided with a transversely disposed recess, a sleeve engaging the thread of the body and housing said extension, jaws disposed at opposite sides of the extension and engaging the inner surface of the sleeve, a spring located in said recess and bearing against the inner surfaces of the jaws and a band spring circumscribing the jaws around a line lying between the inner ends of the jaws and the first-mentioned spring.

1,664,237. VAPOR TOWER. HARRY ASHLEY WIER, Dallas, Tex. Filed Feb. 2, 1926. Serial No. 85,600. 4 Claims. (Cl. 196—139.)



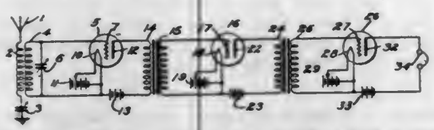
1. In an apparatus for the purpose set forth, a vapor tower, means for directing vapor into the bottom of the tower, means in the tower for directing the vapor first in an upward direction therein, then in a downward direction, and then in a further upward direction to the top of the tower, means for subjecting the vapor in its last mentioned course, to a scrubbing and a catalytic action, means for filtering the vapor in its last mentioned course, means for subjecting the vapor to the action of a cooling agent in its last mentioned course and means for directing the purified vapor from the tower.

1,664,238. FOOTWEAR POUNDING OR BURNISHING MACHINE. AUGUST ABEL, Leipzig, Germany, assignor to Atlas-Werke Pöhler & Co., Leipzig-Stotteritz, Germany. Filed Apr. 23, 1926. Serial No. 104,241, and in Germany May 27, 1925. 9 Claims. (Cl. 12—51.)



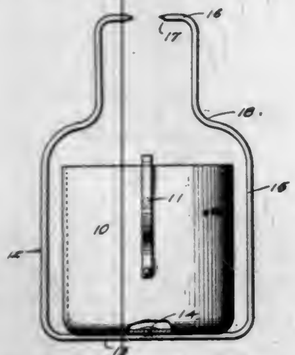
1. In a pounding drum for footwear pounding machines, a rotary carrier having loosely arranged pounding elements extending freely from the outer faces of said drum on opposite sides thereof.

1,664,239. INTERTUBE TRANSFORMER FOR VACUUM-TUBE AMPLIFIERS. MAX C. BATSEL, Wilkinsburg, Pa. Filed Mar. 5, 1921. Serial No. 449,611. 6 Claims. (Cl. 179—171.)



1. In combination, two vacuum tubes and a transformer, the primary of said transformer being connected to the output of the first tube and the secondary to the input of the second tube, the inductance of said primary being large relative to the output impedance of the first tube and smaller than the inductance of the secondary, the inductance of said secondary being such that, with the distributed capacity thereof and the input capacity of the second tube, it forms a circuit resonant to the average frequency of the currents for which the combination is intended.

1,664,240. FRUIT-PICKING IMPLEMENT. JOHN L. BOESE, Fond du Lac, Wis. Filed Dec. 28, 1926. Serial No. 157,578. 2 Claims. (Cl. 56—331.)



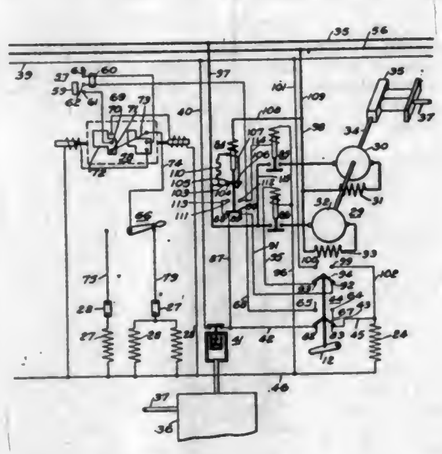
1. In combination, a rigid receptacle, a resilient U-shaped member having the bight portion thereof secured to the under surface of the bottom of the receptacle and the arms thereof extending upwardly along the sides of the receptacle in spaced relation thereto, the upper ends of the arms having inwardly directed portions the confronting faces of which are sharpened to provide cutting edges movable into coacting engagement to shear a fruit stem arranged therebetween.

1,664,241. RADIO LOUD-SPEAKER ASSEMBLY. ROGER H. BRYANT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 30, 1923. Serial No. 648,657. 4 Claims. (Cl. 179—147.)



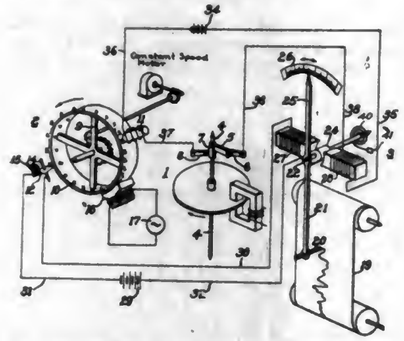
1. In a loud-speaking telephone, an electro-magnetic sounding device, a casing covering said device and having an opening at the top, a boss surrounding said opening, a connector threaded into said boss, said connector having a bore communicating with said opening, a shoulder in said bore and a shoulder on the exterior of the connector, a housing secured to the connector in engagement with said exterior shoulder and a horn detachably secured in said bore in engagement with the shoulder therein.

1,664,242. GAS-ELECTRIC POWER SYSTEM. ANDREW H. CANDEE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 19, 1927. Serial No. 169,523. 12 Claims. (Cl. 290—14.)



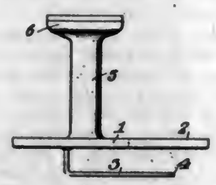
12. In a power system, in combination, a driven generator which develops a variable voltage, an auxiliary device which functions efficiently at substantially rated speed, a plurality of driving units for the auxiliary device, said units being adapted for operation at different voltages, and means for selectively connecting said driving units to the generator when the generated voltage varies a predetermined amount.

1,664,243. MAXIMUM-DEMAND METER. LEWIS WARRINGTON CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 11, 1922. Serial No. 606,103. 8 Claims. (Cl. 171—34.)



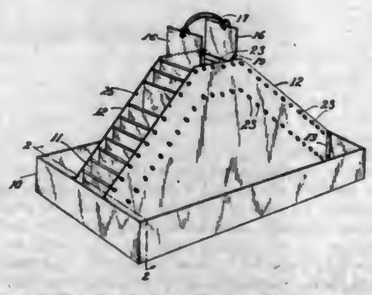
4. In combination in a measuring instrument, indicating means, and means including magnetic storing means responsive to variations in a quantity to be measured and operative to electrically transmit impulses to the indicating means in accordance with said variations at predetermined time intervals different from the occurrence thereof.

1,664,244. MILK-TOP EXTRACTOR. WILLIAM B. COTTON, San Francisco, Calif. Filed Apr. 8, 1926. Serial No. 100,698. 3 Claims. (Cl. 65—47.)



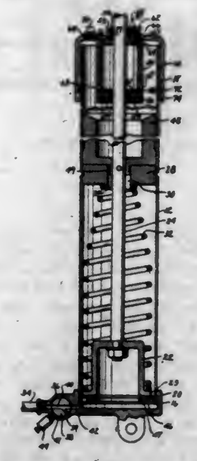
1. In a bottle opener, an elongated base, a standard rising at right angles therefrom to one side of the center thereof, an elongated handle at the extremity of the standard and extending laterally at each side with respect to the base, and a prong extending from the base on the opposite side from the standard and in line therewith, and then turned parallel to the base, said prong crossing the centerpoint of the base and terminating in a sharpened end just below the free narrow edge of the base.

1,664,245. TOOL BOX. CHARLES A. COYLE, Port Jefferson, N. Y. Filed Apr. 15, 1925. Serial No. 23,250. 7 Claims. (Cl. 206—16.)



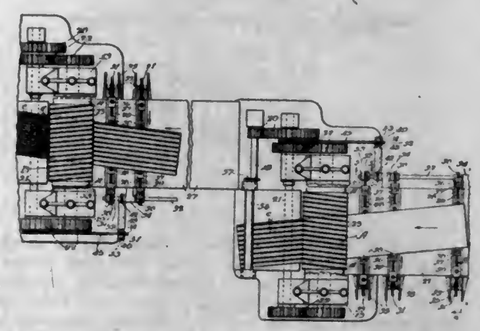
3. In a tool box a base portion in the form of a receptacle, a pair of parallel, spaced frame plates mounted within said receptacle and at right angles to its bottom, supporting plates secured by their edges to the frame plates, and detachable spacing means between said frame plates for partitioning the space therebetween into compartments for receiving tools of different sizes.

1,664,246. CHECKING MEANS FOR DOOR-OPERATING MECHANISM. WILLIAM B. CROWELL, New York, N. Y. Filed June 21, 1923. Serial No. 646,779. 3 Claims. (Cl. 16—82.)



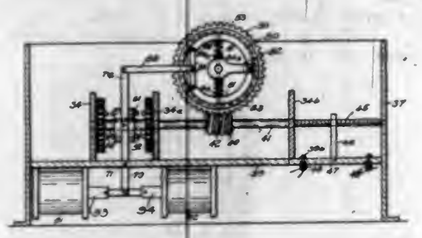
1. In a mechanism for controlling the movement of a door, a liquid containing chamber, a vertically disposed liquid holding vessel forming a confining wall for said chamber, a motion imparting member connecting said vessel to said door whereby movement of said door in one direction causes upward travel of said vessel, and means in said chamber tending to impede the last portion of the upward travel of said vessel, said means being inoperative during the initial portion of the travel of said vessel in the upward direction.

1,664,247. METHOD AND APPARATUS FOR SLITTING METAL SHEETS. JAMES H. DEAN, Ludington, Mich., assignor to Northwestern Expanded Metal Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 14, 1925. Serial No. 50,176. 14 Claims. (Cl. 164—6.6.)



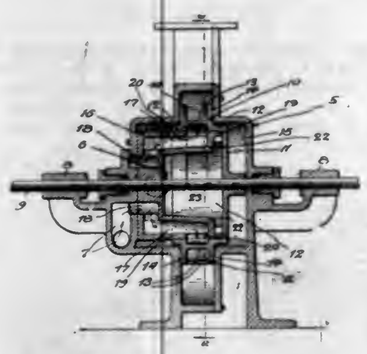
3. The method of slitting metal sheets with roller dies which consists in separately forming two series of oppositely inclined rows of slits arranged respectively in alternate panels with unslitted zones between the panels by passing each sheet successively through the dies, substantially as described.

1,664,248. THEATER-CURTAIN-RAISING DEVICE. EDWARD J. DOLAN, Jackson Heights, and PASCHAL TATORE, New York, N. Y. Filed July 31, 1926. Serial No. 126,293. 4 Claims. (Cl. 254—141.)



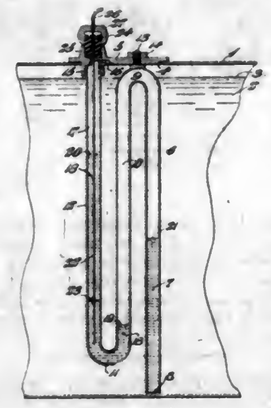
1. In a device having a rotatable drum for raising and lowering curtains, a worm gear loosely mounted upon a non-rotatable shaft and operably supporting said drum; a worm keyed to a rotatable shaft and in mesh with said gear; a pair of oppositely disposed spur gears loosely mounted upon said rotatable shaft; a clutch member splined on said shaft intermediate said spur gears; engaging teeth upon both faces of said clutch member and upon the adjacent faces of said gears; an electrically driven motor for actuating said spur gears; solenoids for alternately actuating said splined member into tooth engagement with said spur gears; automatic means operated by said curtain for shutting off the current from said motor; and adjustable means operated by the solenoids for shutting off the current to either of said solenoids.

1,664,249. FLUID-DISPLACING APPARATUS. AUGUSTUS C. DURDIN, Jr., Chicago, Ill. Filed June 16, 1927. Serial No. 199,151. 7 Claims. (Cl. 230—75.)



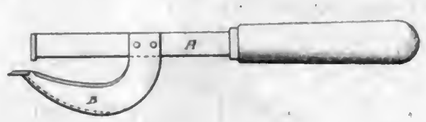
1. A fluid displacing apparatus comprising a casing having a liquid inlet passage and a fluid inlet passage therein, both terminating in circumferentially arranged outlets, said casing having also a liquid and fluid discharge passage, and an impeller rotatively mounted in said casing, said impeller embodying a plurality of blades extending from said liquid and fluid outlets to the periphery of the impeller along spiral like curves, said blades having parallel portions spaced apart to form spiral like passages therebetween leading from the liquid and fluid outlets to the periphery of the impeller, the forward inner faces of the blades being concentric with the axis of rotation of the impeller and the remainder of the inner faces of the blades, being curved back sharply at the rear ends of said concentric portions to form deep recesses following the concentric portions.

1,664,250. VARIABLE RESISTANCE INDICATOR. THOMAS M. EYNON, Philadelphia, Pa. Filed Aug. 10, 1922. Serial No. 580,987. 4 Claims. (Cl. 201—57.)



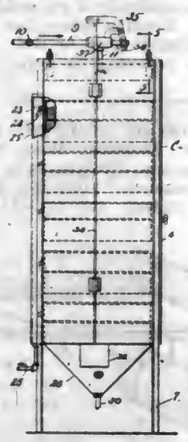
1. In a device of the character stated, a compound U-tube having an atmospheric side, composed of three parallel members of substantially the same length and of equal diameter throughout their extent and each having a liquid column therein, the pendant member of said compound U-tube having a restricted bottom liquid inlet port and the atmospheric side of said liquid column also having a port, a pendant seat for supporting said compound U-shaped tube, said liquid column supporting an insulating block carried by said seat, a resistance wire supported in said liquid column, a guide within said column for the lower end of said wire, the upper end of said wire being guided in said insulating block, said compound U-tube being arranged for suspension within a tank.

1,664,251. CAN OPENER. HERMAN GARRISON, Chicago, Ill. Filed July 19, 1927. Serial No. 206,892. 5 Claims. (Cl. 30—3.)



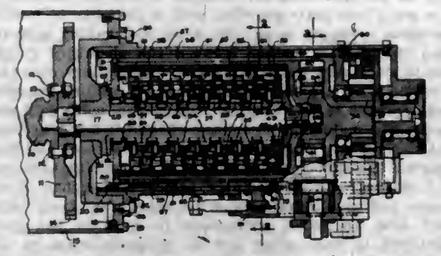
1. A can opener in the form of a lever of the second class, having a guiding fulcrum formed by a recess at the end of a handled stock, and a downwardly offset uppercut knife secured to said stock and extending forward past the guiding fulcrum; said knife being laterally curved in the direction of its length and provided with an additional cutting edge on its lower margin; and the tip of said knife being surmounted by a transverse plate, said plate being provided with a piercing point, and said piercing point being identical with the terminal point of the knife.

1,664,252. FILTERING DEVICE. ARTHUR P. HALL, West Newton, Mass. Filed Feb. 6, 1926. Serial No. 80,425. 3 Claims. (Cl. 210—127.)



1. In apparatus for cleansing liquids by filtration, a series of filter beds spaced one above another, a supply pipe for liquid to be cleansed leading over the topmost filter bed, and means for uniformly distributing the liquid supplied by said pipe uniformly over said topmost bed, whereby the liquid will drain through said bed and through the successive series of filter beds therebeneath, said filter beds being interchangeable so that when the top most bed has become soiled by the accumulation of sediment from the liquid it may be removed and replaced by the filter bed next therebeneath, the remaining filter beds being advanced upward correspondingly and a fresh bed occupying the bottommost position.

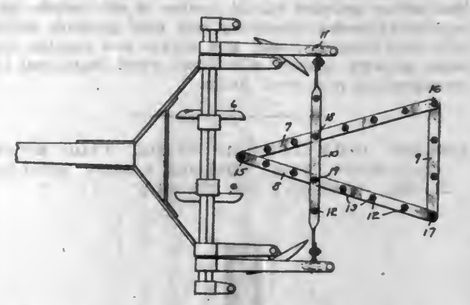
1,664,253. POWER-TRANSMISSION MECHANISM. JAMES W. HUGHES, Philadelphia, Pa., assignor to Provident Trust Company of Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1927. Serial No. 219,495. 22 Claims. (Cl. 74—59.)



1. In a mechanical power transmission mechanism, in combination, a primary driving member, a final variable speed driven member, a series of permanently entrained gears for interconnecting said driving and driven members and arranged in embracing relation with respect to the common axis of said members, a fixed bearing about which all of said gears rotate, and means embracing said gears for varying the speed ratio between said driving and driven members without disturbing the permanent entrainment between said gears.

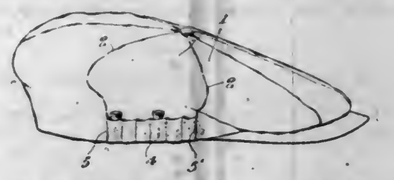
1,664,254. ATTACHMENT FOR LISTER CULTIVATORS. LOUIE JOHNSON, Presho, S. Dak. Filed Apr. 26, 1927. Serial No. 186,689. 3 Claims. (Cl. 97—8.)

1. An attachment of the character described comprising an elongated substantially triangular frame, carrying a plurality of downwardly extending teeth, a cross bar spanning said tri-angular frame and eyes at the outer



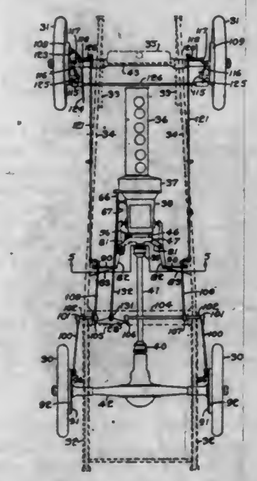
ends of said cross bar of a shape and dimension to engage the shanks of a lister cultivator, after the shovels of the latter have been removed.

1,664,255. CAP. ALBERT D. LESSER, New York, N. Y. Filed Mar. 3, 1927. Serial No. 172,245. 2 Claims. (Cl. 2—199.)



1. A cap having a strip of material having two of its edges stitched to the body of the cap and having a third edge turned under the edge of the body of the cap and secured to the sweat-band, between said sweat band and the body of the cap, said strip being fastened by rows of transverse stitching to the body of the cap to form a series of compartments.

1,664,256. BRAKE. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Sept. 4, 1924. Serial No. 735,851. 33 Claims. (Cl. 188—152.)



1. In a motor vehicle having front and rear wheel brakes, a plurality of links connecting each front wheel brake for operation with its corresponding rear wheel

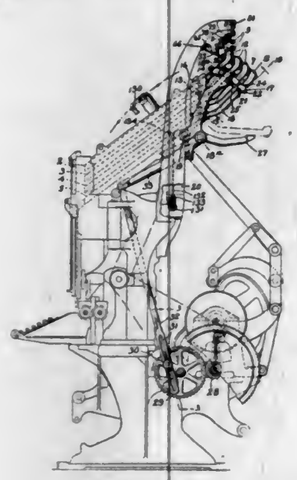
brake, said link connection being independent of the brake connection on the opposite side of the vehicle, fluid pressure means operated by the motion of the vehicle, and mechanical means connecting said fluid pressure means with said links to apply said brakes and equalize the brake pressure between each front wheel brake and its corresponding rear wheel brake.

1,664,257. GOLF-CLUB-GRIP GUIDE. CRAIG MCCULLOUGH, Seattle, Wash. Filed Aug. 8, 1927. Serial No. 211,368. 12 Claims. (Cl. 273—81.)



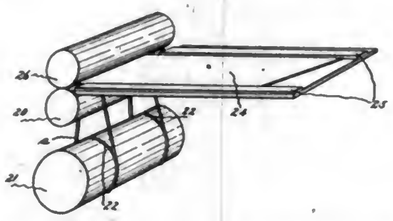
1. A grip guide for a golf club comprising a circumferentially distendable sleeve of resilient material and means to prevent longitudinal distention of such sleeve.

1,664,258. TYPOGRAPHICAL MACHINE. JAMES G. MCNAMARA, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Sept. 25, 1925. Serial No. 58,491. 37 Claims. (Cl. 199—41.)



1. In a typographical machine equipped with matrices of different forms, the combination of a plurality of matrix magazines, a single distributor bar formed with a series of matrix releasing combinations at different points in its length, adjustable means for directing the distributed matrices into one or another of the magazines, means operated independently of the matrices to effect the adjustment of said directing means, and mechanism controlled by the matrices prior to their delivery to the distributor bar for governing the adjustment of said directing means.

1,664,259. METHOD OF BUILDING TIRE CASINGS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 10, 1926. Serial No. 108,083. 5 Claims. (Cl. 154—14.)



1. A method of building a tire carcass which comprises covering a pair of endless bead anchorages with a loose wrapping of fabric, supporting the covered anchorages in spaced relation, applying a layer of tire building material to the anchorages, inverting the band thus formed, and applying a second layer of material.

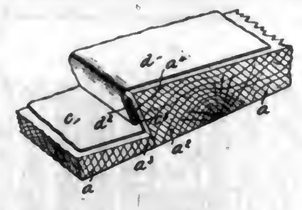
1,664,260. APPARATUS FOR MOLDING CORES. ERNEST C. MOORHEAD, Stamford, Conn. Filed Jan. 13, 1927. Serial No. 160,838. 8 Claims. (Cl. 22—13.)



5. In an apparatus for molding cores, the combination of a main core plate provided with a plurality of molding chambers arranged in parallel rows, and having upwardly open channels extending between the chambers in each row in alignment with each other, an auxiliary core plate provided with a plurality of secondary molding chambers and arranged to fit in surface engagement with said main plate, said main and secondary chambers being arranged to independently mold main and auxiliary cores and being adapted to register with each other to combine said main and auxiliary cores, apertured projections on one of said plates, and positioning pins on the other plate co-operating with said apertured projections to position the plates relatively to each other and to maintain them in such position.

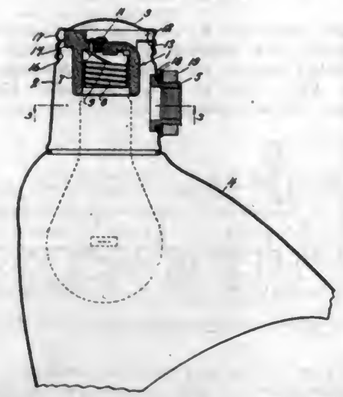
1,664,261. SURFACE OF ROOFS, WALLS, DOORS, PANELS, AND OTHER PARTS OF BUILDINGS AND STRUCTURES. GEORGE WILLIAM MULLINS and GRAHAM SQUIERS, Birmingham, England. Filed Mar. 28, 1927. Serial No. 178,919, and in Great Britain July 31, 1926. 2 Claims. (Cl. 189—85.)

1. In a weather-proof surface, the combination with a plurality of boards tapered in cross-section and fixed one above the other horizontally so that the wider edge of each board abuts against the narrow edge of an adjacent board to form a longitudinal ridge extending at right angles to the plane of the structure to which the surface is applied; of a strip for each board with the strip of one board bent at right angles to the plane of the strip to form a flange which abuts against said ridge in a plane therewith, and the strip of a next adjacent board being also bent at right angles to the plane of the strip to form a second flange engaging the first



named flange also in a plane with said ridge, the remainder of the second strip being bent to extend along the upper surface of said adjacent board.

1,664,262. SOCKET AND REFLECTOR CONSTRUCTION. PERCIVAL A. POWERS, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 29, 1925. Serial No. 40,249. 1 Claim. (Cl. 240—132.)

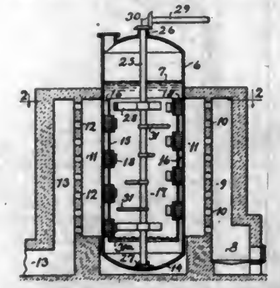


A socket and reflector construction comprising an insulating base, wiring terminals and lamp receptacle contacts mounted therein, a casing for said base, a reflector secured to the lower end of said casing, said casing having a screw threaded portion and an open top through which said base may be inserted into said casing, said casing having an inwardly extending flange above said screw threaded portion, and said base having an outwardly extending flange above and resting on said first flange, a cap screwed on to said casing above and covering said base and serving to force the flange on the base against the flange on the casing and a nipple secured to the side of said casing having a passage for the wires leading to said wiring terminals, said terminals being located on the upper side of said base and exposed when said cap is removed.

1,664,263. CRACKING OILS. FRANZ BUENING, Pittsburgh, Pa. Filed May 26, 1919. Serial No. 299,978. 16 Claims. (Cl. 196—68.)

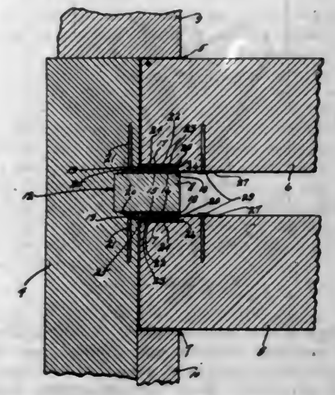
1. The method of cracking oil, which consists in subjecting an annular column of oil to a cracking heat, while effecting a rapid movement of the oil by thermo-siphonic action, and concurrently mechanically removing the carbon from the heated portions of the walls surrounding the column of oil.

9. An oil cracking apparatus comprising: a heating chamber adapted to produce a heated zone; a substantially vertical boiler disposed therein and having its extremities extended beyond the heated zone, a substantially vertical shell for the passage of the oil located within the boiler and having a passageway therethrough opening at its ends into said boiler, the space between the boiler and shell being of substantially uniform cross-



sectional area in different horizontal planes whereby the speed of the oil is substantially uniform at all points in said space, mechanical scraper elements carried by the outer wall of said shell and adapted to operate on the inner wall surface of the boiler, and means for effecting concurrent rotation of said shell and mechanical scrapers.

1,664,264. WEATHER STRIP. FRANK REESE, Minneapolis, Minn., assignor to Reese Metal Weather Strip Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 8, 1927. Serial No. 181,985. 2 Claims. (Cl. 20—69.)

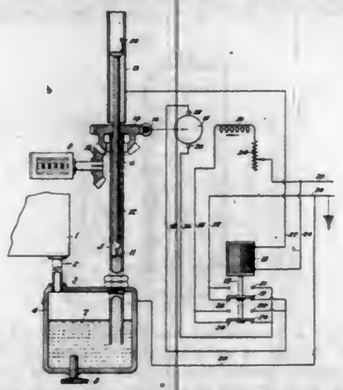


1. A weather strip device comprising a frame member and a sash member, each of which is substantially S-shaped in cross section to afford a double fold comprising substantially flat, inner, intermediate and outer sections, said members being fitted the one within the other, one of the sections of each member having an extension affording an anchoring flange, the sides of one of the single folds of each member being laterally spaced to form an unobstructed gap and arranged to yield and compressible to permit lateral movement of the interlocked members between the members of the frame and sash to which they are attached, said sash member being free for longitudinal sliding movement in the frame member.

1,664,265. LIQUID GAUGE. FRANK RIEBEL, Berkeley, Calif., assignor, by mesne assignments, to Precision Tank Gauge Company, a Corporation of California. Filed July 28, 1924. Serial No. 728,620. 6 Claims. (Cl. 177—351.)

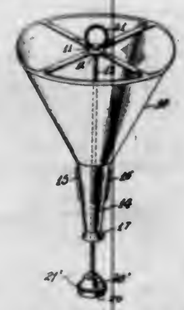
1. In combination, means for holding a column of conducting liquid of variable height, a movable member,

indicating means associated with said member, and means for moving the member in accordance with the variations in height of the liquid, comprising a movable contact element arranged to make and break electrical contact with the liquid, at its upper level, and means



for moving the contact element alternately toward and from the liquid in response, respectively, to the breaking of electrical contact and to the making of electrical contact between the movable contact element and the liquid.

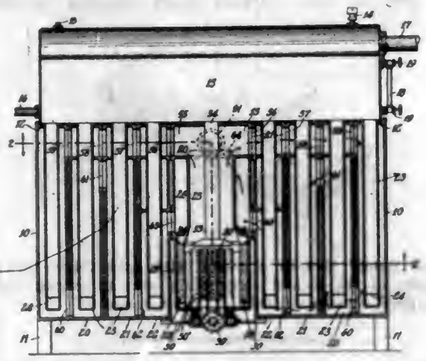
1,664,266. FUNNEL. ARMANDO DEL RIO, Cienfuegos, Cuba. Filed July 26, 1926. Serial No. 124,827. 1 Claim. (Cl. 226—36.)



In a device of the class described, a funnel comprising a conical receiving element and a discharge spout, a valve seat on the extremity of said discharge spout comprising an outwardly flared portion, upper and lower cross members mounted in said funnel having registering openings therein, said lower cross member being positioned in close proximity to the outwardly flared portion of said discharge spout a rod disposed through said openings and slidably mounted centrally of said funnel, and a buoyant valve member mounted on said rod comprising a conical portion formed to conform with the sides of the outwardly flared portion of valve seat and a horizontal seat portion adapted to engage the lower edge of said discharge spout for supporting the weight of said funnel when the same is lifted by said rod, the conical portion of said valve member being of sufficient length to engage said lower cross member to further prevent inward movement of said valve member.

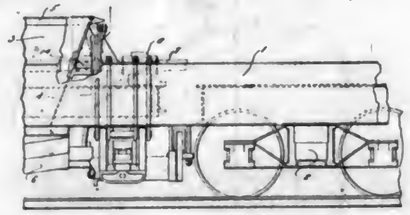
1,664,267. REFRACTORY GAS FURNACE. JOHN ROSS, St. Albans, N. Y. Filed July 2, 1927. Serial No. 203,029. 3 Claims. (Cl. 126—91.)

1. A heater having a combustion chamber, a brick lined fire box there below, a series of radiants spaced inwardly from the lining, an air inlet tube for each radiant, a mixing chamber with which the radiants communicate, a venturi to discharge air and gas into



the mixing chamber, means for controlling the air passage in the venturi, and a valve controlling the inlet of fuel to said venturi.

1,664,268. DUMP CAR. EUGENE W. SCHELLENTRAGER, Cleveland, Ohio, assignor to The Atlas Car & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 7, 1927. Serial No. 173,555. 4 Claims. (Cl. 105—290.)

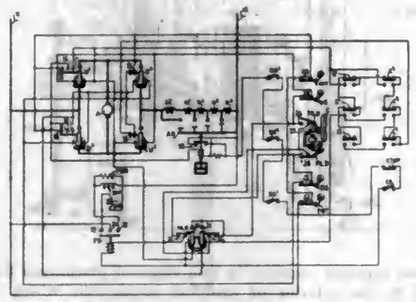


1. In a car of the type described, a hopper, a gate at the bottom thereof, a gate operating mechanism including a shaft extending horizontally into said hopper through a side thereof, and means for positioning said shaft in said side, said means comprising a lower bearing member supported in a portion of said side cut away to receive the same, and a bearing and closure member cooperating with said lower bearing member to form a journal for said shaft, co-operating with said cut away portion to complete and reinforce said side, and removable to allow removal of said shaft vertically.

1,664,269. CONTROLLER FOR ELECTRIC ELEVATORS. EDWIN W. SEEGER, South Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 8, 1926. Serial No. 100,747. Renewed Aug. 29, 1927. 7 Claims. (Cl. 187—29.)

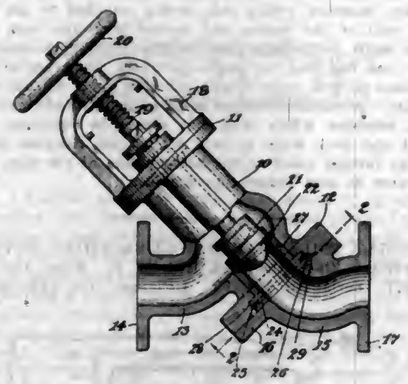
3. In a controller for electric elevators of the three landing type, the combination with a car and an electric motor for driving the same, electroresponsive switches adapted when energized to complete circuit for the motor for effecting operation thereof in opposite directions selectively, push button control switches for initially completing the energizing circuits of said electroresponsive switches, auxiliary contacts on the latter adapted to provide maintaining circuits therefor, hatchway limit switches in the path of the car for interrupting said maintaining circuits when the car reaches the top or bottom landing respectively, a plurality of independently operable switches in the path of the car

at the middle landing of the elevator, means for rendering said last mentioned switches effective for stopping the car at the middle landing, said means comprising a relay having a winding adapted to be energized upon closure of certain of said push button switches, contacts controlled by said relay, said contacts being re-



spectively adapted to provide maintaining circuits for the winding of said relay and for said electroresponsive switches selectively, and means for rendering said maintaining circuits subject to control by said middle landing switches to thereby insure interruption of said circuits upon positioning of the car at the middle landing.

1,664,270. VALVE. GEORGE F. SHEVLIN, Glens Falls, N. Y., assignor to George F. Shevlin & Son, Glens Falls, N. Y., a Partnership composed of George F. Shevlin, sr., and George F. Shevlin, jr. Filed Mar. 25, 1927. Serial No. 178,192. 2 Claims. (Cl. 251—167.)



1. In a valve, a body having a flange, a valve, means for operating the valve, and a valve seat member comprising a cylindrical portion with a flange at one end thereof in the peripheral surface of which there is a circumferentially disposed groove the flanged portion of the valve body being recessed to receive the flange of the valve seat member in order that when in position the faces of these flanges lie in the same plane, the face of the flange of the valve body being notched to provide access for a tool to the circumferential recess in the flange of the valve seat member.

1,664,271. HEAD GEAR AND METHOD OF MAKING THE SAME. JULIUS STEINBERG, New York, N. Y. Filed June 27, 1927. Serial No. 201,775. 5 Claims. (Cl. 132—49.)



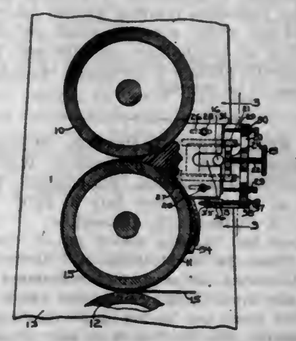
1. As a new article of manufacture, a head gear comprising a knitted mesh body, a fabric band separate from said body, and means for attaching said band to one edge of said body, the opposite edge of said mesh body having a tubular passage formed therein, and an elastic thread passing through said tubular passage.

1,664,272. EXERCISING PRIZE AMUSEMENT DEVICE. ANDREW STEINBERGH, New York, N. Y. Filed Dec. 22, 1926. Serial No. 156,415. 4 Claims. (Cl. 272—57.)



2. In an amusement device of the class described, a base comprising an inclined platform, spaced rails mounted on said inclined platform, a cannon comprising spaced traction wheels movably mounted on said rails; a depending braking shoe on said cannon extending below one of said rails at the side thereof, an adjustable braking device slidably mounted on said rails in registration with said braking shoe, and operating mechanism comprising a lever pivotally mounted on said rail and operatively connected with said braking device and extended to the lower end of said rails adapted to adjustably position said braking device relative to the braking shoe of said cannon for suitably impeding the speed of upward and downward movement thereof.

1,664,273. CALENDER GUIDE. HECTOR J. THEROUX, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,731. 3 Claims. (Cl. 18—2.)



1. A calender guide having a block provided with ways, means for supporting the block in adjusted position adjacent the calender rolls, a frame movable in the ways

towards and from the calender rolls, a guide piece shaped to fit between the calender rolls, means for holding the guide piece in adjusted position on the frame, a shoe shaped to genr against one of the calender rolls, means for holding the shoe in adjusted position on the frame independently of the guide piece, and means for holding the frame in adjusted position in the ways without disturbing the adjustment of the guide piece and shoe on the frame.

1,664,274. PENCIL. FRANK J. VIERLING, Minneapolis, Minn., assignor, by direct and mesne assignments, to Snap-Point Pencil, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 6, 1927. Serial No. 211,235. 10 Claims. (Cl. 120—18.)



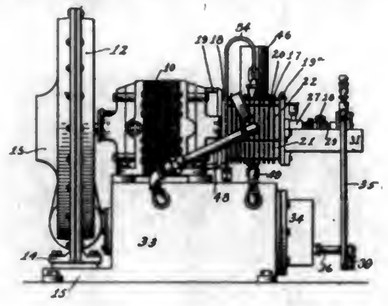
1. A pencil including a casing and a relatively longitudinally adjustable lead-feeding member, and means including a normally released device for locking the lead-feeding member to the casing, said device being arranged to be operated by a movement of the lead-feeding member produced by pressure on the lead in said member tending to force the same back into the pencil.

1,664,275. METHOD OF PREPARING FILTERING MATERIALS. FRIEDRICH HERMANN WEIL, Kreuznach, Germany, assignor to Seitz-Werke G. m. b. H., Kreuznach, Germany, a Corporation. Filed Feb. 24, 1927. Serial No. 170,729, and in Germany May 22, 1924. 2 Claims. (Cl. 210—204.)

1. The method of preparing a filtering material for liquids which comprises treating natural asbestos with a non-reducing gas under pressure which gas unites with the impurities of the natural asbestos and forms compounds therewith which are chemically inert with respect to the liquids to be filtered.

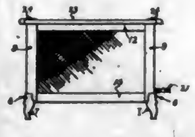
1,664,276. FUEL-BURNING DEVICE. WALTER W. WILLIAMS, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois. Filed July 5, 1924. Serial No. 724,298. 1 Claim. (Cl. 158—28.)

In a liquid fuel burning device, an air compressor, a liquid fuel pump, an air blast fan and electric means for operating the same, an accumulator chamber having an air intake pipe from the air compressor and a fuel intake pipe from the pump and having an air discharge pipe and a fuel discharge pipe leading from said chamber to the burner nozzle, automatic means for maintaining a constant supply of fuel and a uniform pressure of air in said chamber including a float operated valve in the fuel intake pipe and a by-pass including a pressure valve leading from the air discharge pipe to the intake of the air compressor, and means for lubricating the air compressor by the liquid fuel comprising a pipe leading from the bottom of the said chamber to the air compressor where-



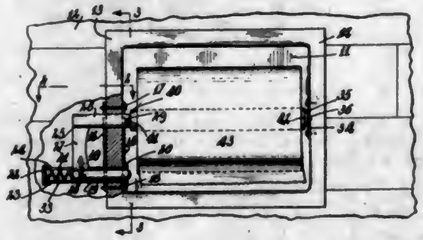
by the internal pressure in said chamber discharges liquid fuel to the interior of said air compressor which fuel after passing through the working parts of said air compressor is returned to the chamber with the air under compression through the pipe from the compressor to the chamber.

1,664,277. GAS HEATING STOVE. WALTER F. ZICK, Alhambra, Calif. Filed July 5, 1927. Serial No. 203,434. 4 Claims. (Cl. 126—92.)



1. A heating gas stove comprising an outer casing composed of sheet metal walls except the front wall, said front wall being partly of sheet metal and partly of wire netting, the back wall having a port therein; a combustion chamber within said casing attached to the bottom wall of the casing and spaced from the back and front walls, said combustion chamber having imperforate back and end and top walls with the front surface of the back portion covered with asbestos wool; a front wall of said combustion chamber being reticulated and covered with asbestos which does not close the openings, the front and back walls of said combustion chamber being spaced further apart at the bottom than at the top; and a burner in said combustion chamber.

1,664,278. TOILET-PAPER ROLL-SECURING DEVICE. STEPHEN ZIDO, Richmond Hill, N. Y. Filed Apr. 18, 1927. Serial No. 184,599. 4 Claims. (Cl. 242—55.2.)



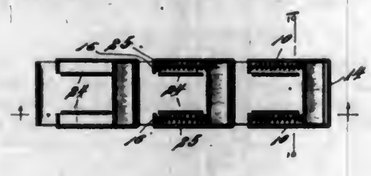
1. In a device of the character described, the combination of a supporting structure, a slidable bolt therein mounted having an aperture in the end thereof, a push rod connected with and adapted to co-act with the said slidable bolt, a spring element bearing against the said push rod and adaped to exert a forward stress thereon, and a receiving socket adapted to co-act with the said slidable bolt to support an arbor rotatably therebetween.

1,664,279. SAFETY RAZOR. RAMÓN AGUILAR, New York, N. Y. Filed Feb. 16, 1927. Serial No. 168,604. 3 Claims. (Cl. 30—12.)



1. In a safety razor comprising a bottom guard member having longitudinal recesses along the edges thereof, rectangular teeth on the edges of said guard, bars slidably mounted in said recesses, supplementary teeth sections on said bars adapted to be positioned in close proximity to said rectangular teeth for extending the length thereof and a blade disposed above said bottom guard comprising cutting edges, said supplementary teeth sections being adapted to be extended to various positions in advance of said cutting edges.

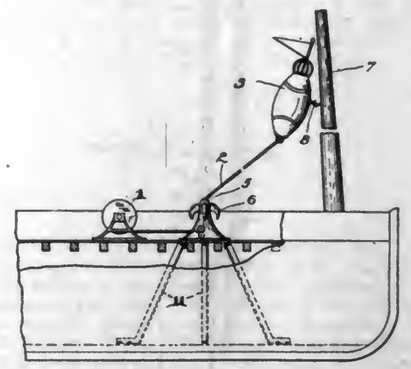
1,664,280. CHAIN. CARL AUGENSTEIN, Cranston, and ROBERT VOGEL, Providence, R. I., assignors to Automatic Gold Chain Company, a Firm composed of Edwin F. M. Speidel and Albert R. Speidel, Edgewood, R. I. Filed Dec. 9, 1926. Serial No. 153,529. 4 Claims. (Cl. 59—79.)



1. A bracelet structure comprising a series of extendible link units, each having a guide link formed of sheet stock folded to provide a broad front plate having narrow side walls with inturned portions forming parts of a rear wall with a space between the wall parts, a band-shaped slide link having a pair of oppositely disposed arms slidable in said guide link one of said arms being shaped to form a hook, the other arm being resilient to close the hook, said resilient arm having inwardly turned edge flanges and being positioned flush with the rear wall parts of the guide link and slidable therebetween, spring means for moving the links of said units to contracted position, and a member on the adjacent end of the guide link to which the hook of the slide link is detachably connected.

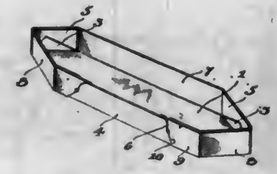
1,664,281. DEVICE FOR LOCATING AND RAISING SUNKEN VESSELS. JOHN FERGUSON BAINE, North Bay, Ontario, Canada. Filed Apr. 17, 1926. Serial No. 102,710. 5 Claims. (Cl. 114—51.)

5. The combination with a marine vessel of a buoy; a grapple engaging member rigidly secured to and braced from the vessel structure having adjacent its upper end a plurality of outwardly and downwardly directed hooks secured to and extending from its upper end; a line extending from the center of the outer end of said grapple engaging member to said buoy; a grapple ring adapted to slip over said hooks and engage under one or more, the



said ring being of an internal diameter greater than the distance of the center of the outer end of the grapple engaging member from the ends of the hooks; and a cable connected to one side of the ring, the diameter of the ring also being less than that of a circle containing the hooks.

1,664,282. CANDY CONTAINER. LIZZIE M. BIER, Sidney, Ohio, assignor to C. F. Hickok Co., Sidney, Ohio, a Corporation of Ohio. Filed June 5, 1924. Serial No. 718,150. 1 Claim. (Cl. 229—35.)



A carton formed from a blank of material having a central elongated portion pointed at opposite ends, substantially triangular shaped tabs connected to said central portion upon each side of the pointed ends thereof, an elongated portion foldably attached to one side of said central portion, a plurality of flaps extending serially from each end of the elongated portion, the last flap on each end having inwardly extending notches therein, a second elongated portion attached to the other side of said central portion having a plurality of joined and aligned flaps connected to each end thereof, inwardly extending notches arranged adjacent each end of the second elongated portion; whereby, when the elements set forth are folded and interlocked, they form a receptacle of substantial canoe shape.

1,664,283. COMBINATION WASHING TOOL AND SWAB. ALEXANDER BOYNTON, San Antonio, Tex. Filed Feb. 5, 1924. Serial No. 690,792. 3 Claims. (Cl. 166—20.)

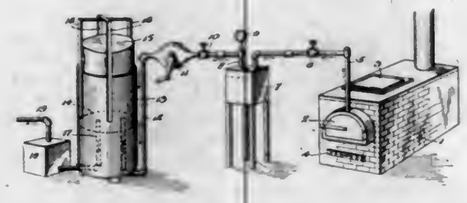
1. A tool for use in wells comprising a tubular body having water discharge openings, a sleeve receiving said body and having openings adapted to register with said first named openings, sealing members mounted on said

body at opposite ends of said sleeve, retainers mounted on said body and engaging said sealing members, said retainers being adapted to engage the ends of said sleeve



to hold the sleeve in a set position with the openings of the same either in or out of registration with the openings in the tubular body.

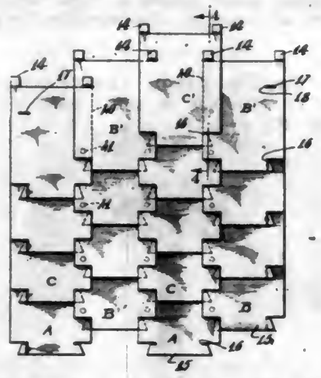
1,664,284. DOMESTIC GAS PLANT. AUGUSTUS L. CLARK, Montpelier, Vt. Filed Nov. 9, 1926. Serial No. 147,354. 2 Claims. (Cl. 48—90.)



2. A domestic gas plant capable of manual operation having in combination, a domestic heating apparatus, means for feeding said heating apparatus from the top thereof, a retort mounted directly on and heated by said heating apparatus said retort having a door, a hydraulic tank, a valve-controlled pipe from the retort to the hydraulic tank and terminating at a point below the water level of said tank, a gas exhauster, a manually operated valve controlled conduit from the hydraulic tank to the gas exhauster, a telescopic gas holder having a telescoping section provided with guide arms of nearly equal length to the aforesaid telescoping section, a conduit from the gas exhauster to the gas holder, an outlet pipe from the gas holder, a purifier box with which said outlet pipe communicates, and a gas outlet pipe from the purifier box.

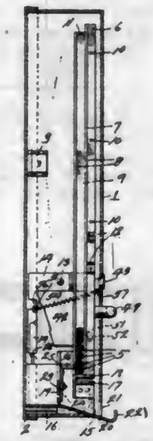
1,664,285. SHINGLE CONSTRUCTION. ROBERT J. DEANS, Brooklyn, N. Y. Filed Jan. 8, 1927. Serial No. 159,803. 3 Claims. (Cl. 108—17.)

3. In a device of the class described, a shingle comprising a body portion having spaced slots therein, upwardly disposed tongues on the adjacent corners of one end of said body portion, and a central tongue on the other end of said body portion, said body portion being provided with side notches extending between the extremities of said central tongue and the adjacent end of body portion, said notches being terminated in longitudinal



alignment with the inner end of the slots of said body portion and the ends of said central tongue being disposed downwardly relative thereto.

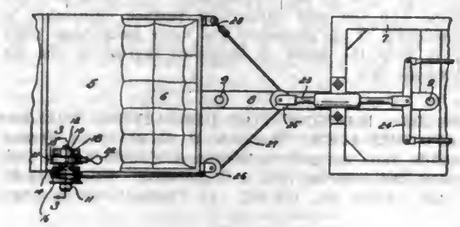
1,664,286. PENCIL-VENDING MACHINE. ALFRED B. DISHMAN, Okmulgee, Okla. Filed Nov. 8, 1926. Serial No. 147,011. 5 Claims. (Cl. 194—48.)



1. The combination with the free end of a discharge frame of a vending machine, of coin control mechanism for said free end, said mechanism comprising a coin receiving hopper, a plate to one side of said coin receiving hopper and having a recess therein, said plate being slidably mounted and supporting the hopper, a fixed shaft extending through an elongated aperture in the plate, a pivoted lever mounted on said shaft, a flange carried by said lever and disposed in the recess of the plate, shoulders within the recess of the plate and with which said flange cooperates, a coin engaging flange carried by the other end of the lever and underlying the coin hopper, said hopper and plate being simultaneously movable inwardly and outwardly.

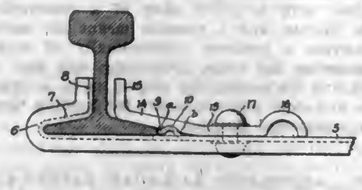
1,664,287. BRAKING DEVICE. FREDRICK P. DUNN, Los Angeles, Calif. Filed Nov. 6, 1926. Serial No. 145,843. 4 Claims. (Cl. 188—3.)

2. A device of the character described comprising; a tractor; a trailer swingingly coupled to the tractor and having a brake gear thereon adapted for actuation by a forwardly extending pull rod; a rotatable cable drum upon the tractor; a cable upon the drum extending rearwardly over a guide sheave at the near rear corner of the



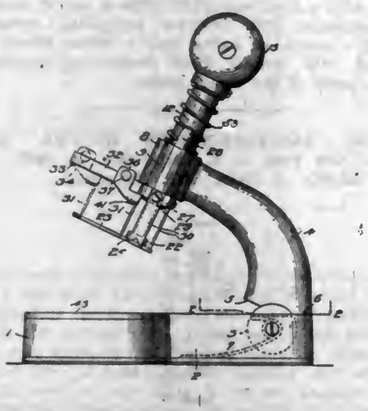
tractor to an attachment at the far rear corner; and a sheave upon said pull rod engaging the cable intermediate said attachment and guide sheave.

1,664,288. RAIL TIE. JOHN GRIFFIN DURANT, Jr., Huntington, W. Va. Filed Oct. 19, 1927. Serial No. 227,264. 6 Claims. (Cl. 238—10.)



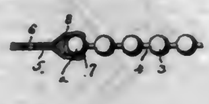
1. A rail tie having means for engaging the outer flange of a rail and lugs engaging the inner rail flange in combination with a latch pivoted to the tie and held in latching engagement with the rail by said lugs.

1,664,289. PUNCH FOR ATTACHING LABELS, ETC. LUTHER M. FEATHERS, Johnson City, Tenn., assignor of one-half to Carmon S. Bowers, Johnson City, Tenn. Filed Sept. 27, 1927. Serial No. 222,324. 16 Claims. (Cl. 93—1.)



1. In a punch of the character described the combination with a base, having a depressed working surface broken by knife-receiving slots, of a plunger surmounting said base, and a series of knives carried by said plunger arranged and adapted to enter said slots when the plunger is depressed.

1,664,290. COUPLING FOR BEAD CHAINS. WILLIAM J. GAGNON, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 25, 1927. Serial No. 201,539. 2 Claims. (Cl. 59—95.)



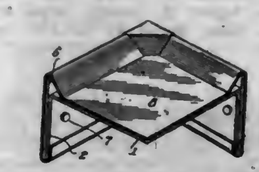
1. A coupling for chains of the split bead type, comprising a length of seamless tubular stock collapsed at one end to form a double walled plate, apertured to accommodate a jump ring, the other end of the tube having an internal diameter only slightly in excess of the overall diameter of the ball and accommodating the end ball of a chain, said end of the blank being offset inward to detain the ball against escape.

1,664,291. COUPLING FOR BEAD CHAINS. WILLIAM J. GAGNON, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 25, 1927. Serial No. 201,540. 3 Claims. (Cl. 59—95.)



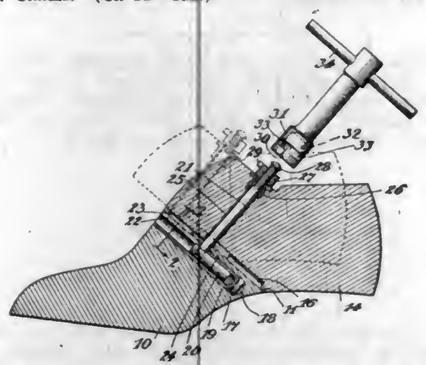
2. A coupling device comprising a drawn sheet metal eyelet having end flanges extending from one side of the eyelet and adapted to be offset into engagement with the end ball of a bead chain, said eyelet having its greatest axial length at the side from which the chain-engaging flanges extend.

1,664,292. METAL TABLE TOP. JOHN EDWARD GLOBKLER, Pittsburgh, Pa. Filed Dec. 28, 1926. Serial No. 157,576. 7 Claims. (Cl. 45—31.)



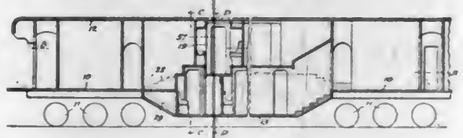
4. The combination in a metal top construction, of a top body having an upper surface, brace means fixed with respect to the body and extending above the said surface of the body at the edge portion of the body, and a sheet covering resting exteriorly of said body and brace means and permanently affixed thereto and having an inner portion above and against and supported by the upper surface of the body and also having upstanding hollow guard means receiving and reenforced by said extended brace means.

1,664,293. SECTIONAL LAST. SABINO GUAITOLI, Brooklyn, N. Y. Filed Mar. 23, 1927. Serial No. 177,483. 7 Claims. (Cl. 12—135.)



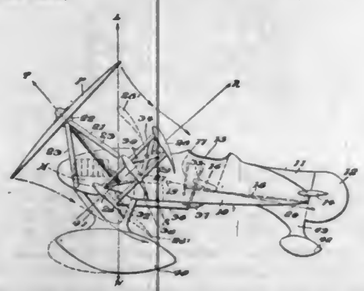
1. A last comprising forward and rear sections meeting in an oblique plane and being relatively movable in such plane, and means for clamping the sections when in operative position, said means preventing disassociation, said clamping means being adapted to receive a wrench also operative in rasing the last from a shoe.

1,664,294. COMPARTMENT CONVEYANCE CONSTRUCTION. ERIC GUGLER, New York, N. Y. Filed Aug. 5, 1926. Serial No. 127,420. 7 Claims. (Cl. 105—315.)



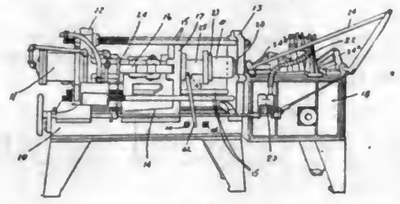
1. A compartment conveyance construction, including a portion intermediate its ends and between the wheels, having an undersung floor for increasing the distance between the usual floor level and the roof to afford sufficient height for defining upper and lower tiers of compartments, the said intermediate portion having laterally spaced longitudinally extending upper and lower corridors at opposite sides of the conveyance for gaining access, respectively, to the upper and lower compartments.

1,664,295. AIRPLANE. RANDOLPH F. HALL, Ithaca, N. Y., assignor of twenty-five one-hundredths to Theodore P. Hall, Wallingford, Conn., and twenty-five one-hundredths to Agnew E. Larsen, Bryn Athyn, Pa. Filed Aug. 29, 1923. Serial No. 659,987. 25 Claims. (Cl. 244—14.)



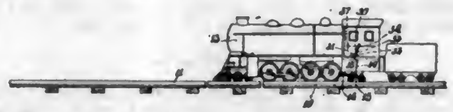
25. In an airplane, a normally horizontally disposed fuselage, a truss structure extending from opposite sides of said fuselage, propellers mounted on said truss structure diposed at opposite sides of said fuselage in fixed position for rotation around axis inclined upwardly and forwardly to the horizontal, drive mechanism for said propellers, a supporting surface mounted on the fuselage in position with the major area thereof disposed within and acted upon by the displacement flow from said propellers, and the said supporting surface adjustable independently of the propellers and drive mechanism therefor to vary the angle of incidence thereof in the displacement flow.

1,664,296. MACHINE FOR DIE-CASTING PULLEYS AND THE LIKE. WILLIAM D. HAMERSTADT, Indianapolis, Ind., assignor to Rockwood Manufacturing Company, Indianapolis, Ind., a Corporation. Filed July 31, 1926. Serial No. 126,262. 11 Claims. (Cl. 22—68.)



1. In a mechanism of the character described, the combination with a pulley shell of a removable core insertible therein, and a common means for simultaneously exerting a pressure longitudinally of said shell for compressing the same, positioning said core within said shell and discharging die casting metal intermediate said core and shell under pressure for bonding therewith while in compressed position.

1,664,297. AUTOMATIC RAILROAD SAFETY-SIGNAL DEVICE. MIHALY JENEY and PAUL ORBAN, New York, N. Y. Filed Dec. 21, 1926. Serial No. 156,096. 4 Claims. (Cl. 246—167.)



1. In combination with a railway track provided with zones, a signal device on locomotives, and means for operating the signal device when two locomotives enter the same zone, said means comprising a solenoid connected with a hook engageable with a second hook on a rod, connected with switches controlling circuits including a source of power, and a motor driven wheel equipped with contact discs electrically connected to certain parts of the signal device.

1,664,298. SANITARY-NAPKIN HOLDER. SAMUEL KATZ, New York, N. Y. Filed Dec. 20, 1926. Serial No. 155,882. 1 Claim. (Cl. 128—290.)



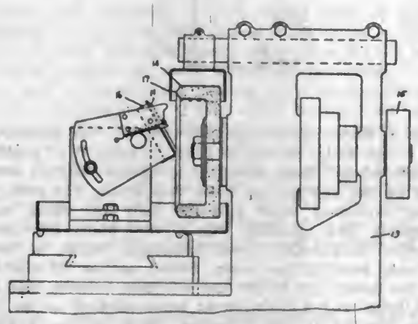
A bandage support comprising a crotch band adapted to be attached to the front portion of a waist band of a pair of bloomers at one end and adapted at its other end to be attached to the rear portion of said waist band, a pad comprising bandage material disposed on the upper side of said crotch band, clamping means for adjustably securing said pad to said crotch band comprising a substantially rigid member having a substantially flat bottom surface engaged against the upper side of said crotch band and an upper concave surface for receiving the end portion of said pad, and an elastic band disposed around said crotch band and said rigid member and directly attached to the latter for resiliently clamping said rigid member and the end portion of said pad to said crotch band, said resilient band and the rigid member attached thereto being slidable longitudinally of the crotch band for accommodating pads of different lengths while retaining the pad and the crotch band in spread relation.

1,664,299. CIRCULAR-KNITTING MACHINE. HARRY E. KATZENMOYER, Reading, Pa., assignor to Scott and Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed Oct. 17, 1923. Serial No. 669,094. 4 Claims. (Cl. 66—40.)



1. A circular knitting machine having needles some of which have long butts and others short butts and a movable clearing cam therefor and means for moving this cam either to the clearing or the tucking position in combination with an additional clearing cam and automatic means to move the latter to active position during a part only of a revolution, as and for the purpose set forth.

1,664,300. PROCESS OF SILVERING AND BEVELING SMALL MIRRORS. BERT F. KELLY, Indianapolis, Ind., assignor to Parts Corporation, Indianapolis, Ind., a Corporation. Filed July 16, 1926. Serial No. 122,891. 1 Claim. (Cl. 51—278.)



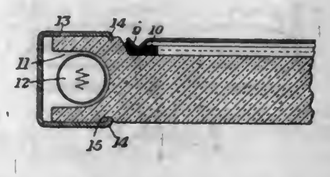
The process of beveling a glass plate consisting in providing a cup wheel having an inverted V-shaped cutting edge, mounting the glass on a carriage at a predetermined angle to the cutting edge of said wheel and gradually moving said glass in one direction while in engagement with one side of said edge for causing said edge to cut a flat bevel on said glass during one passage of the glass, and thereafter reversing the movement of the glass with respect to said wheel and beveling another edge thereof by its engagement with the other side of said cutting edge so as to cause said wheel to be self-dressed and thereby maintain a relatively sharp cutting edge.

1,664,301. COMPACT HOLDER AND EJECTOR. WILLIAM G. KENDALL, Newark, N. J. Filed Oct. 7, 1927. Serial No. 224,059. 14 Claims. (Cl. 132—82.)



1. In a vanity case, a compact ejector comprising a catch structure for normally holding a compact in place, a constantly acting spring positioned to urge the compact to an ejected position, and manually actuated means for moving the catch structure to an inoperative position whereby said spring may function.

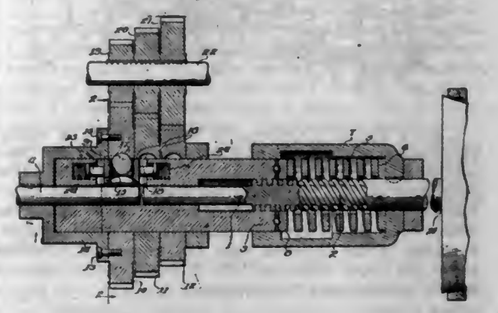
1,664,302. LICENSE-PLATE HOLDER. FRED LEOPOLD, SAMUEL E. CLANEY, and LEWIS K. GARIS, Pittsburgh, Pa. Filed Mar. 7, 1927. Serial No. 173,303. 5 Claims. (Cl. 40—140.)



1. A license plate holder, comprising a transparent body, means associated therewith for holding a plate so that its front face may be viewed through the body, and illuminating means for the plate within the body, such illuminating means being disposed forward of the plane of the front face of the plate.

4. The combination with a license plate of a holder comprising a transparent body having a plate receiving recess therein, a gasket for spacing the plate from the body when contained in the recess, and means pressing the plate against the gasket and toward the body acting on the plate intermediate its edges to maintain the plate sprung toward the body whereby all possibility of rattling of the plate against the body is eliminated.

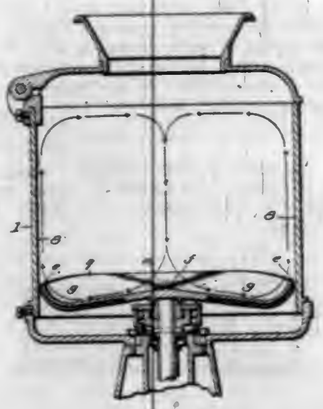
1,664,303. GEAR-RATIO-CHANGING MECHANISM. FRED W. MAYER, Chicago, Ill. Filed Jan. 21, 1927. Serial No. 162,466. 4 Claims. (Cl. 74—59.)



1. In a device of the character described, driving and driven shafts, variable ratio gearing between the driving and driven shafts, a torque-governed sleeve on the driving shaft movable relatively longitudinally therewith, yielding means for resisting said relative longitudinal movement, a slot in said sleeve, and a clutch in said slot yieldingly

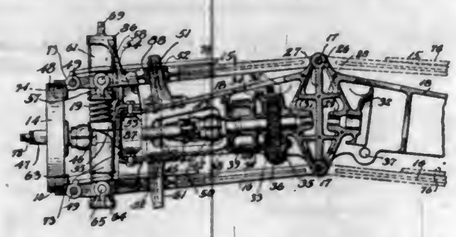
longitudinally movable independent of said relative longitudinal movement but operable by said relative longitudinal movement for automatically determining said ratio.

1,664,304. VEGETABLE-PEELING MACHINE. CLAUDE B. MCCATHRON, Rochester, N. Y., assignor to Josiah Anstice & Co. Inc., Rochester, N. Y. Filed Jan. 26, 1927. Serial No. 163,704. 3 Claims. (Cl. 146—49.)



1. A vegetable peeling machine comprising a container having an inner abrading surface, a revolving disk having an abrading surface, the disk acting as a bottom for the container, said disk having two oppositely arranged relatively large low surfaces and intervening relatively small high surfaces, the high surfaces rising gradually towards the periphery of the disk and low surfaces falling gradually from near the center of the disk to near their periphery and suddenly rising to the periphery for the purpose specified.

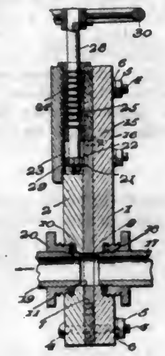
1,664,305. SUPPORTING UNIT FOR VEHICLES. HARRY C. MCCLEARY, Washington, D. C. Filed Apr. 23, 1926. Serial No. 104,156. 16 Claims. (Cl. 180—73.)



1. In a spring suspension, a chassis frame, a casing supported thereon, opposite wheel supports, parallel connectors extending from the casing to said supports, coiled supporting springs carried by the frame at a point intermediate the casing and wheel support and acting on means upon said connectors adjacent the wheel support, a spring carrier mounted upon the frame and extended above the upper connector, and a recoil spring mounted therein to bear upon the connector.

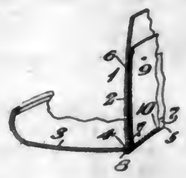
1,664,306. PLATE VALVE. WILLIAM A. MILAM, Austin, Tex. Filed June 10, 1926. Serial No. 115,076. 1 Claim. (Cl. 251—84.)

In a valve, a pair of opposed spaced plates having opposed flat faces and further provided with registering ports, a compressible gasket interposed between the plates having a circular opening, a disc valve rotatable in the opening and movable between the ports with its opposite faces contacting with the plates and having a port normally disposed out of registration with the first mentioned ports, but adapted to be brought into registration with the latter upon rotation of the disc valve in one



direction, the walls of the circular opening defining a guide for the rotatable valve to prevent the latter from bodily shifting edgewise, and adjustable fastenings passing thru the plates and gasket whereby to draw the plates into water tight engagement with the gasket, and into frictional contact with the valve to compensate for wear, and to prevent premature rotation of the valve.

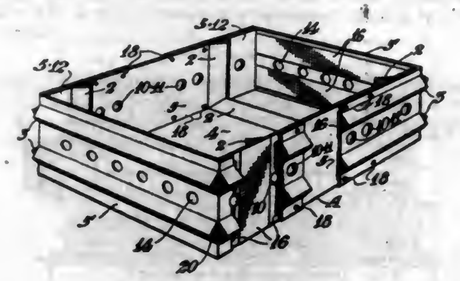
1,664,307. PERSPIRATION-PROOF DEVICE FOR HATS, CAPS, AND THE LIKE. HERBERT J. MILLARD, Philadelphia, Pa., assignor to Frank Schoble & Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 16, 1926. Serial No. 135,716. 1 Claim. (Cl. 2—181.)



In a device of the character stated, the combination of a hat body having a brim, a thin, flat, auxiliary, moisture-proof band arranged to extend entirely around and lie flat against the inner face of the hat body, said band extending below said hat body and being turned inwardly and upwardly for a very short distance to provide an annular, lower peripheral flange, a line of stitches securing the lower, folded portion of said band to the inner apex of the angle formed between said body and brim, and a main sweat band stitched at its lower edge directly to the upturned flange of the auxiliary, moisture-proof band, said main sweat band being of a greater height than said auxiliary, moisture-proof band, the stitches of said moisture-proof band being arranged in a plane below said main sweat band so that insulating means is provided to prevent perspiration from the main sweat band attacking the hat body.

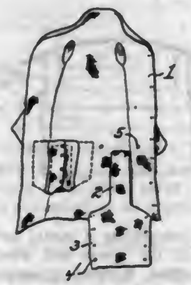
1,664,308. SHIPPING-BOX STRUCTURE. KINNEY I. MILLER, Lancaster, Mo. Filed Dec. 16, 1926. Serial No. 155,177. 6 Claims. (Cl. 229—32.)

1. A strawboard box blank having integrally formed strengthening bosses protruding at one side across the bottom portion and two opposite connected side portions, and having similar bosses protruding at the opposite side



of the blank across the two remaining opposite connected side portions and connected corner portions, all of the said bosses running parallel with one another.

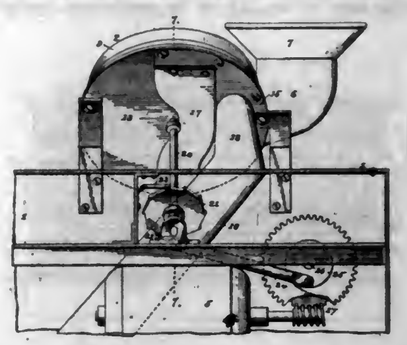
1,664,309. RAINCOAT. GEORGE D. MUELLER, Akron, Ohio. Filed Mar. 22, 1927. Serial No. 177,356. 1 Claim. (Cl. 2—86.)



A garment comprising a coat having pairs of spaced fasteners at the inner face thereof, and strips of waterproof material, each having its upper edge formed with a central reduced extension whose end is secured to the inner face of the garment between the respective pairs of fasteners therein, each of said strips having their edges provided with male and female fasteners designed to cooperate with the strips when folded upon themselves and lapped to afford leggins and when the strips are spread and connected together to provide a depending skirt for the garment and said fastening elements also designed to cooperate with the first mentioned elements when the strips are folded upon themselves and arranged within the garment.

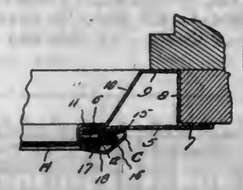
1,664,310. COIN-FEEDING MECHANISM. FRANK G. MURRAY, Chicago, Ill. Filed Aug. 5, 1926. Serial No. 127,209. 6 Claims. (Cl. 133—8.)

1. In a coin and token feeding mechanism of the type described, the combination of a stationary casing formed with a circular receiving chamber arranged in an inclined position and provided with an inlet for coins and tokens, a closure head for the underside of said chamber cut away near the upper end of said chamber to form a shallow recess, a revolvable feeder disc having bearing on said closure and constituting the bottom surface of the aforesaid chamber, the said feeder disc having a circular series of receiving orifices near its margin adapted to register with the aforesaid shallow recess in the closure head, a primary receiving chute connecting with said shallow recess and adapted to receive tokens only of a predetermined thickness or less, a secondary receiving chute connecting with said recess at a further point of travel of the feeder



disk and adapted to receive tokens of a greater thickness than the aforesaid primary chute, and means for imparting rotation to said feeder disc.

1,664,311. WINDOW-SCREEN FRAME. OSCAR VENDAL NELSON, Racine, Wis. Filed Nov. 26, 1926. Serial No. 150,917. 1 Claim. (Cl. 156—14.)

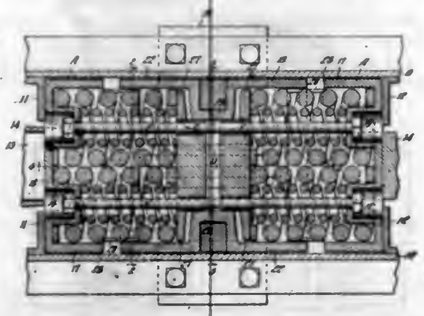


In a window screen frame construction, a rail formed from a single sheet of metal bent along spaced parallel longitudinal dimensions to form an inside plate which merges at one edge into an extension, said extension merging into an overhanging extension, said overhanging extension merging into a plate disposed perpendicularly to the first plate, said second plate merging into a third plate extending perpendicularly therefrom, said third plate merging into a cross plate extending obtusely therefrom and at an acute angle to the first plate and merging into an extension overlying the first plate and bent over upon itself in spaced relation and terminating in a portion forming a pocket with the first mentioned bent over portion, the other edge of the first plate being extended and curved over upon itself to fit in the pocket, and a clamp clip formed from a single sheet of metal bent along parallel spaced longitudinal dimensions to form a plate having one edge merging into an acutely disposed extension, said extension of the clip merging into a second extension acutely disposed to the plate of the clip, said second extension of the clip merging into a third extension disposed parallel with the plate of the clip.

1,664,312. SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Oct. 1, 1924, Serial No. 740,934. Renewed Nov. 28, 1927. 10 Claims. (Cl. 213—24.)

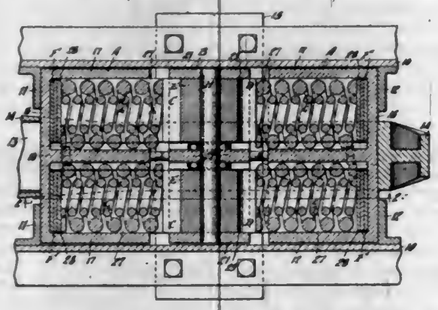
1. In a friction shock absorbing mechanism, the combination with front and rear follower acting elements, relatively movable toward and away from each other; of tandem arranged springs interposed between said follower

elements; a friction shell interposed between said follower elements, said shell having opposed, interior friction surfaces; a plurality of friction shoes cooperating with said friction surfaces, said shoes being arranged in groups on opposite sides of the axis of the mechanism, certain of



the shoes of each group being adapted to be actuated by one of said follower elements and the remaining shoes of said groups being adapted to be actuated by the other follower element; and front and rear wedges cooperating with said shoes, said wedges being interposed between said tandem springs.

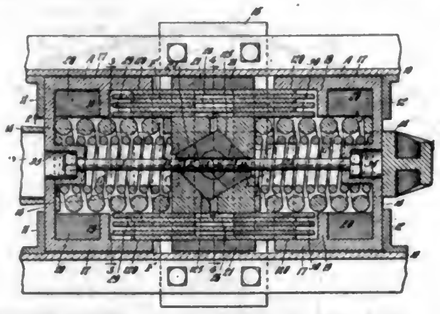
1,664,313. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 4, 1925, Serial No. 54,417. Renewed Nov. 28, 1927. 6 Claims. (Cl. 213—33.)



1. In a friction shock absorbing mechanism, the combination with front and rear movable followers; of a wedge block having wedge faces at the opposite ends thereof; friction shoes at the opposite ends of said wedge, having wedge faces cooperating with the faces of said block; a friction member interposed between said followers; relatively movable friction elements interposed between said shoes and friction member, said elements being engaged by and moved relatively to each other by said followers; and spring resistance means interposed between said followers and shoes and opposing relative movement of said follower and shoes.

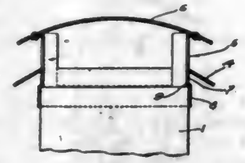
1,664,314. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 9, 1925, Serial No. 61,403. Renewed Nov. 28, 1927. 10 Claims. (Cl. 213—33.)

1. In a friction shock absorbing mechanism, the combination with front and rear, relatively movable follower elements; of a shell interposed between said followers; a set of friction plates, said plates being fixed relatively to the shell; two sets of friction plates adapted to be engaged by said follower elements respectively and moved relatively toward each other thereby, and also relatively



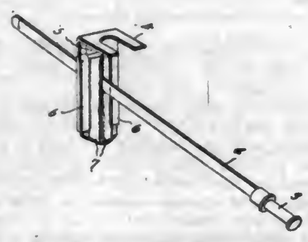
to said first named set of plates; spreading means for placing said plates under lateral pressure; and spring resistance means cooperating with said spreading means.

1,664,315. CHIMNEY CAP. ROBERT P. ORR, Schenectady, N. Y. Filed Oct. 27, 1926. Serial No. 144,594. 1 Claim. (Cl. 98—67.)



A chimney cap, comprising a metal body formed with an offset portion at the lower end adapted to overlap a chimney, said offset portion presenting a shoulder adapted to rest on top of the chimney, part of said body extending upwardly from said offset portion for presenting an enclosing wall, said wall being cut at two places on each side with part forming upstanding corner posts and the remaining part positioned to present an inclined air deflecting portion spaced above the top of the chimney, and a covering plate secured directly to the top of said posts and extending across the chimney on which the device is mounted to a point substantially above the outer edge of said deflecting portion.

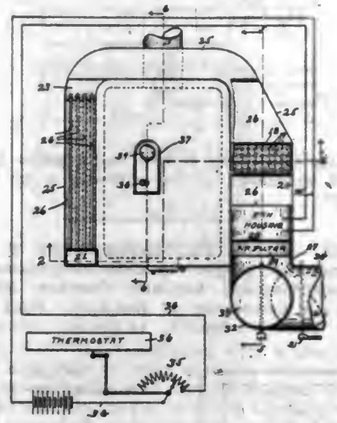
1,664,316. WIPER. FRED OWENS, Mount Vernon, Ky. Filed Oct. 22, 1926, Serial No. 143,448. Renewed Feb. 1, 1928. 1 Claim. (Cl. 15—210.)



A device for the purpose set forth comprising an angle member, one of whose flanges is bifurcated for securing it to a support, the second flange having a central open-

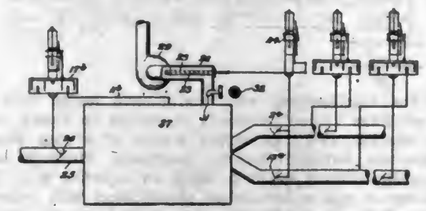
ing extending from the outer end thereof, the outer edges of the last mentioned flange being bent over the body thereof, wiper cloths secured to the body by said bent edges and the free ends of the wiper cloths extending into and passing through the mentioned opening in the member.

1,664,317. HEATING SYSTEM. ROBERT J. PABODIE, Maywood, Ill., assignor of one-half to Brayton G. Richards, Western Springs, Ill. Filed Apr. 21, 1927. Serial No. 185,618. 10 Claims. (Cl. 126—101.)



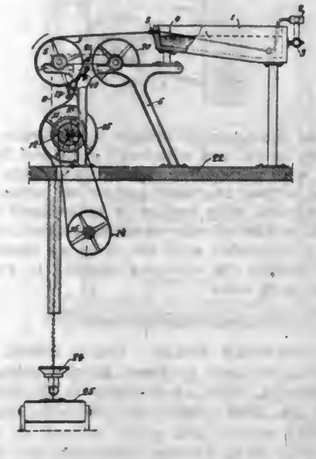
1. A heating system comprising a boiler; a hot air flue; heating elements in said flue and connected to be supplied with steam from said boiler; and heating elements in said flue connected to be supplied with hot water from said boiler.

1,664,318. FUEL-SUPPLY SYSTEM. THOMAS A. PEEBLES, Pittsburgh, Pa., assignor to John M. Hopwood, Dormont, Pa. Filed Apr. 15, 1925. Serial No. 23,397. 5 Claims. (Cl. 236—15.)



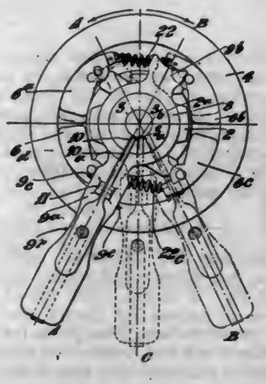
1. In combination with a furnace having a vent for consumed gases, means for delivering fuel to said furnace, a damper for controlling the delivery of consumed gases through said vent, means responsive to pressure within the combustion chamber of said furnace for controlling said damper to maintain a substantially constant pressure of furnace gases within said chamber, a bypass communicating with the combustion chamber of said furnace and having a port therein communicating with the atmosphere, means for maintaining a substantially constant flow of combustion gases from said chamber through said bypass, a thermostat located in said bypass beyond said port, and means controlled by said thermostat for controlling said fuel delivery means.

1,664,319. PROCESS FOR THE MANUFACTURE OF A CELLULOSE PRODUCT HAVING THE APPEARANCE OF WOOL. AUGUSTIN PELLERIN, Trouville, France. Filed Feb. 12, 1926, Serial No. 87,993, and in France Dec. 30, 1925. 4 Claims. (Cl. 18—54.)



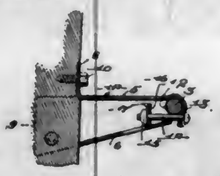
1. Process for the manufacture of a cellulose product having the appearance of wool in starting from cellulose filaments issuing from a coagulating bath by adherence to a moving surface, consisting in subjecting the filaments to a backward turning upon the said moving surface so as to give them an undulated form analogous to that of natural wool.

1,664,320. CLUTCH FOR TRANSMITTING ROTARY MOTION. WALTER CHARLES PITTER, West Dulwich, London, England. Filed Mar. 25, 1927, Serial No. 178,448, and in Great Britain Mar. 1, 1926. 7 Claims. (Cl. 192—43.)



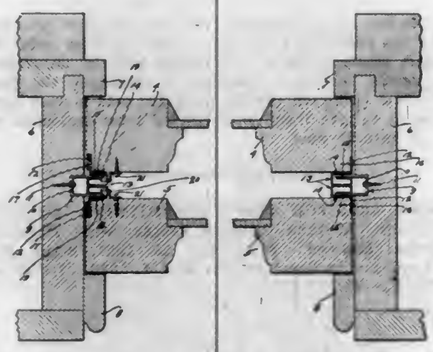
1. A clutch of the kind for transmitting motion from a rotary or reciprocating member to a rotary member, comprising a pair of oppositely disposed one way friction grip pawls, a main driving member associated with a main driven member a connecting link for each pawl, each pawl being pivoted at one end of its connecting link, the other end of the connecting link being pivoted to one of the main members, while the other main member has a concentric groove in which the gripping ends of the pair of pawls operate in oposite directions, and means for moving either of the pawls of the pair into an inoperative position and holding it there.

1,664,321. CABLE GUARD. IRVING E. QUIST, Warren, Minn. Filed Mar. 29, 1926. Serial No. 98,284. 4 Claims. (Cl. 256—1.)



1. A bracket comprising a tubular body portion having walls provided at one end with cable seats and having a wall formed with a clamping member extendable around the cable for holding the same against the seats, an attaching lug on the body portion in spaced and opposed relation to a portion of the clamping member, and fastening means cooperable with the clamping member and the lug for causing the clamping member to force the cable against said seats.

1,664,322. WEATHER STRIP. FRANK REESE, Minneapolis, Minn., assignor to Reese Metal Weather Strip Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 24, 1927. Serial No. 163,126. 3 Claims. (Cl. 20—69.)



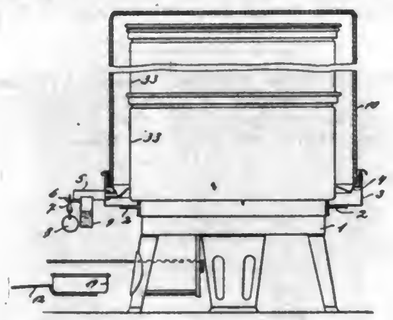
1. The combination with a window frame and sashes slidably mounted therein, of weather strips consisting of a stationary member attached to the frame and sliding members attached to the sashes, said sash member having laterally projecting air-sealing flanges seated in the sashes, and fastening clips at accessible portions of said sashes releasably holding the sliding members for common movement with the sashes.

1,664,323. PROCESS OF MAKING GUT STRINGS. TULLIO SARRA, San Bruno, Calif. Filed Mar. 22, 1926. Serial No. 96,668. 5 Claims. (Cl. 140—1.)

1. The process of making gut strings from the inner layer of bovine intestines which comprises separating the outer layers from the inner layer of such intestines by soaking the same in a solution of a hydroxide of an alkali metal which loosens the layers and then removing the outer layer and thereafter treating the inner layer with a similar solution to strengthen the same and twisting the resulting product into gut strings.

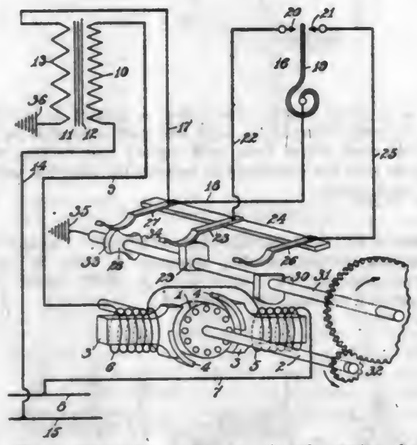
1,664,324. COOKING APPARATUS WITH STEAM HOOD. HERMANN SCHELL, Nuremberg, Germany. Filed July 30, 1926, Serial No. 126,000, and in Germany Mar. 16, 1925. 8 Claims. (Cl. 126—351.)

1. A cooking apparatus comprising in combination with the cooker proper having a source of heat, a steam hood, a trough shaped ring on which said steam hood rests and designed for collecting the water from condensation, an outflow from said ring, a mechanism for



controlling said source of heat, and a means for operating said mechanism by the outflowing water from condensation.

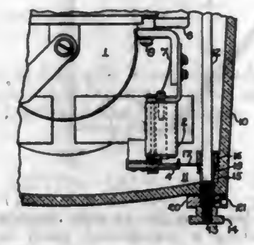
1,664,325. MOTOR REGULATOR. PAUL F. SHIVERS, Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware. Filed Mar. 21, 1924. Serial No. 700,777. 14 Claims. (Cl. 172—278.)



1. The combination, with an electric motor having the windings thereof normally connected in closed circuit relation with the supply mains, of a step down transformer having relatively stationary windings and having its primary winding connected in series with the windings of said motor and so proportioned with respect thereto that when the secondary winding of said transformer is open circuited the counter-electromotive-force set up in said primary windings will prevent the passage of sufficient current to said motor to operate the same, a circuit including the secondary winding of the transformer and a switch in said circuit located at a distant point and adapted to open and close the circuit of the secondary winding.

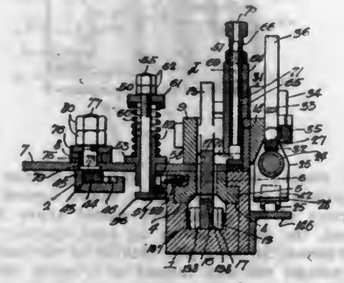
10. The combination with an electric motor having its windings normally in closed circuit relation with respect to the supply mains, of a transformer so constructed that the induced voltage is lower than the applied voltage and having its primary winding connected in series with the windings of said motor and so proportioned with respect thereto that when the secondary winding is open circuited the counter-electromotive force set up in said primary winding will prevent the passage of sufficient current to said motor to operate the same, a thermostatically operated switch for opening and closing the circuit of the secondary winding and additional circuit controlling means for opening the circuit of the secondary winding after the motor has operated for a predetermined period.

1,664,326. RELAY OPERATION INDICATOR. HARVEY P. SLEEPER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 10, 1923, Serial No. 624,299. Renewed Nov. 10, 1927. 11 Claims. (Cl. 177—311.)



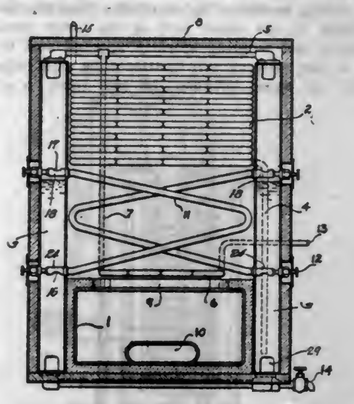
1. In a relay, the combination with a base for the operating mechanism, a cover having a transparent portion and a supporting stud therefor adapted to extend through an aperture in the cover, of an indicator comprising a semaphore visible through said cover and movable to indicating position when the relay mechanism operates and means for resetting the semaphore comprising a sleeve extending through the aperture in the cover and adapted to fit over the supporting stud, a knurled washer and means for securing it to the outer end of the sleeve, a laterally extending arm secured to the inner end of the sleeve and a spring for normally retaining the arm in position out of the path of movement of the semaphore.

1,664,327. PILE-WIRE-CONTROLLING MECHANISM FOR LOOMS. WILLIAM E. SMITH, Milltown, N. J., assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Jan. 27, 1925. Serial No. 5,041. 16 Claims. (Cl. 139—41.)



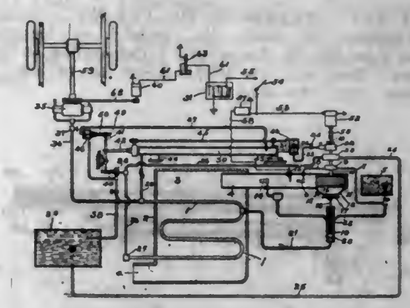
1. The combination in a loom employing pile wires, of a reciprocating pile wire controlling carriage; endless link belts operatively movable in opposite directions for controlling the reciprocation of said carriage; and means on one of said link belts for controlling the operation of the other of said belts.

1,664,328. STEAM AUTOMOTIVE-VEHICLE BOILER. ALLEN C. STALEY, La Fayette, Ind. Filed Mar. 8, 1922. Serial No. 541,974. 1 Claim. (Cl. 122—281.)



In a steam generator of the water level type, a fire-box, a series of tubular headers at each side of the fire box, each series of headers being interconnected and contacting to form a water wall, steam pipes above the fire-box each detachably secured at its ends to a header with one end above water level and the other below water level, an economizer above the steam pipes and within the space enclosed by said water wall, a superheater comprising a horizontal coil below said steam pipes, a passage leading from the bottom of the economizer to the lower end of the header below the fire-box, a blow-off valve adjacent the lower end of said pipe, and a passage leading from the upper ends of the headers to the superheater, substantially as set forth.

1,664,329. AUTOMOTIVE STEAM-POWER PLANT. ALLEN C. STALEY, La Fayette, Ind. Filed Aug. 30, 1922. Serial No. 585,271. 1 Claim. (Cl. 60—105.)

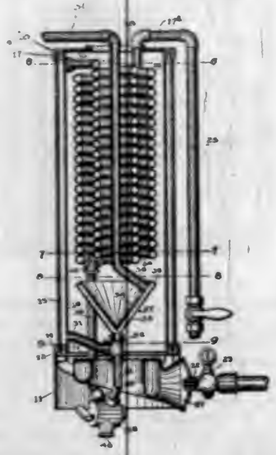


In a steam power plant, a steam generator with burner and fuel supplying means therefor including means for supplying liquid fuel, a blower for causing a variable suction on said means, an air passage leading to the blower, a valve arranged to vary said passage in inverse proportion to the steam pressure, and an ever-open secondary air passage also leading to the blower, substantially as set forth.

1,664,330. WATER HEATER. THOMAS A. M. STEVENSON, Winston-Salem, N. C. Filed Feb. 12, 1926. Serial No. 87,890. 4 Claims. (Cl. 122—169.)

1. In a water heater, two cylindrical tubes of unequal diameters arranged concentrically to provide a space therebetween, means securing said tubes to each other

at their ends and closing said space, a coiled pipe adapted to hold water secured inside of the smaller tube and extending downward in a spiral manner, a coil of piping mounted inside of the first mentioned coil, and joined to the outer coil at its lower portion, the last named coil winding spirally upward and being connected to the wall of the smaller tube and communicating with the space between the two tubes, a pipe communicating with the space between the two tubes near the lowermost portion of said space, said pipe being connected to a hollow funnel-shaped member located beneath the two coils, and a pipe leading from the upper portion of the funnel-shaped member up through the smaller coil and out of the top of the water heater, and heat producing means located beneath the funnel-shaped member.

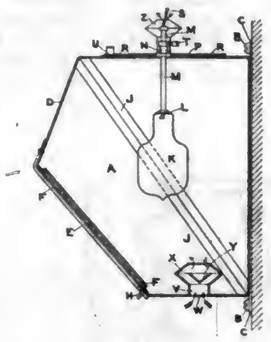


1,664,331. THERMOSTATIC CUT-OFF. ARTHUR STOCKSTROM, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Apr. 12, 1926. Serial No. 101,405. 5 Claims. (Cl. 158—42.4.)



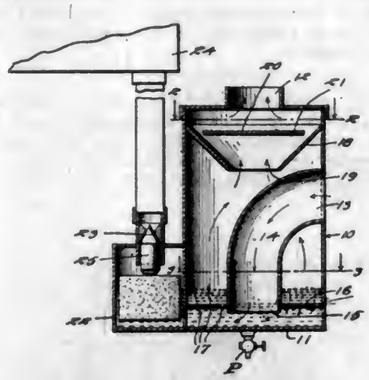
1. The combination with a gasoline burner of a generator tube located adjacent to the burner and adapted to be heated by a flame therefrom, an oil passageway communicating with the inlet to the generator, a hand operating valve adapted to control the flow of vapor from the outlet end of the generator and a thermostatic tube also located adjacent the said burner and adapted to be heated by a flame therefrom, said thermostatic tube located in the oil line, and an inner thermostatically operated member carrying at its end a valve adapted to control the said oil line, said thermostatic member maintaining therein a practically stationary body of oil and the valve of the thermostat adapted to normally close the oil passageway and when heated to open the said passageway.

1,664,332. DAYLIGHT LAMP FOR COLOR MATCHING, PERCHING, AND SIMILAR PURPOSES. LOUIS STOTT, Halifax, England, assignor to Smith, Bulmer and Company, Limited, Halifax, England, a Corporation of Great Britain. Filed Oct. 1, 1925, Serial No. 59,905, and in Great Britain Jan. 19, 1925. 8 Claims. (Cl. 240—1.)



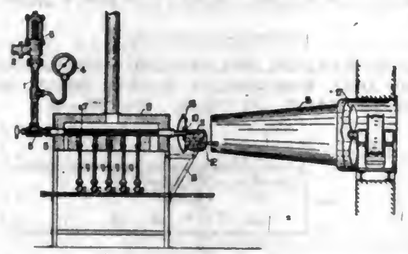
1. A daylight lamp for the purpose described comprising a casing having a transparent panel in its front wall extending at an obtuse angle to the bottom of the casing, the inner faces of the walls of the casing constituting reflecting surfaces, a source of illumination within the casing, and relatively narrow, elongated, reflectors extending diagonally of the inner faces of the side walls of the casing, for the purpose described.

1,664,333. AIR CLEANER. DOC G. TAYLOR, Baytown, Tex. Filed Oct. 26, 1926. Serial No. 144,869. 1 Claim. (Cl. 183—24.)



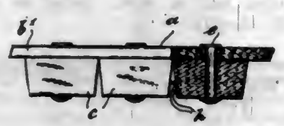
An air cleaner comprising a casing provided at its top side with an outlet opening, a screen located in the lower portion of the casing and spaced above the bottom thereof, the casing having an inlet opening located below the screen, an inlet pipe located in the casing and passing through the side thereof at a point above the screen and having an end portion passing through the intermediate portion of the screen, a frusto-conical baffle plate located in the casing above said pipe and having a bottom opening vertically alined with the lower end of said inlet pipe and a flat plate located in the frusto-conical baffle plate and provided at its edge with notches, the inner edges of which are located beyond the side edges of the outlet opening of the casing and the edges of the bottom opening in the frusto-conical baffle plate.

1,664,334. PROCESS FOR TREATING NUT KERNELS. JOHN ALEXANDER THOMPSON, Heswall, and WILLIAM SAMUEL HOUGH, Hoylake, England. Filed Apr. 8, 1926, Serial No. 100,734, and in Great Britain Sept. 18, 1925. 8 Claims. (Cl. 146—219.)



1. Process of blanching Brazil nut kernels which consists in subjecting them while free to move to the agitating and treating action of a stream of superheated steam.

1,664,335. DRIVING BELT. DAVID TODD, Glasgow, Scotland. Filed Feb. 19, 1925, Serial No. 10,234, and in Great Britain Mar. 22, 1924. 8 Claims. (Cl. 74—64.)



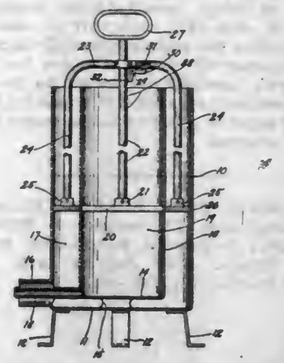
4. A belt comprising a band formed of sheet fabric impregnated with a gum and folded to form a plurality of layers in combination with a series of blocks secured on the inner faces thereof, said blocks being formed by a multiplicity of layers of canvas impregnated with a gum, the opposed faces of adjacent blocks forming V-shaped spaces and meeting at the apex thereof.

1,664,336. INFLATED BALL. IRA IAL TUBBS, Superior, Wis., assignor of one-half to George F. Miller, Menominie, Wis. Original application filed Sept. 22, 1924, Serial No. 739,127. Divided and this application filed Dec. 10, 1927. Serial No. 239,152. 4 Claims. (Cl. 273—65.)



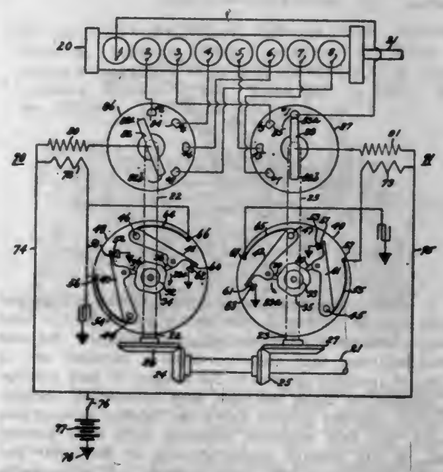
4. A pneumatic ball comprising a flexible cover having an opening formed therein, an inflatable bladder in said cover, and bladder actuated means secured to the inner face of said cover for moving portions of said cover upon opposite sides of said opening toward each other to close said opening when said bladder is inflated, said bladder actuated means comprising flaps upon opposite sides of said opening adjacent thereto and terminating short of said opening, and automatically adjustable means connected with said flaps to draw upon said cover and close said opening when said bladder is inflated.

1,664,337. MEAT-ROLL-FORMING MACHINE. ANTHONY VANDERPUT, Paterson, N. J., assignor of one-half to James C. Hinchliffe, jr. Filed Feb. 11, 1925. Serial No. 8,369. 2 Claims. (Cl. 107—1.)



2. A machine for making meat rolls comprising an upright container having a bottom, an additional smaller container having a bottom, the bottom of the smaller container being raised above that of said upright container, a spout on the larger container, a spout on the smaller container passing axially thru the spout of the larger container, the material passing thru the spout of the larger container being cylindrical in shape, the spout of the smaller container being adapted to fill the opening of the cylindrical material with additional material simultaneously, a plunger and an annular follower slidable in said containers, a U-shaped member secured to the annular follower mounted in the larger container, a rod slidably mounted in the U-shaped member and secured to the plunger of the smaller container, notches cut on said rod, a bell crank pivoted on the U-shaped member adapted to engage any of said members to retain the rod releasably in position.

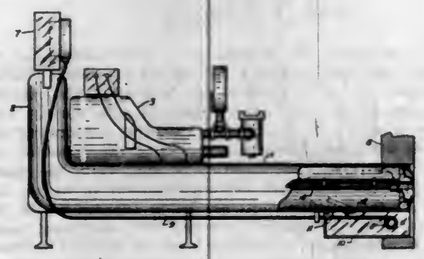
1,664,338. IGNITION SYSTEM. HERBERT C. WALTERS and JOHN T. FITZSIMMONS, Dayton, Ohio, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 24, 1926. Serial No. 118,301. 3 Claims. (Cl. 123—148.)



1. Ignition apparatus for a multicylinder internal combustion engine having N cylinders, comprising in combina-

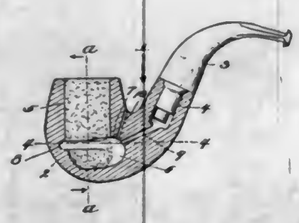
tion, a current source, C ignition coils each for providing the sparking impulses for $\frac{N}{C}$ cylinders, C timer cams each having $\frac{N}{C}$ lobes and operated at one-half cycle speed, and a pair of circuit make-and-break devices operated alternately by each cam, each pair of make-and-break devices controlling the energizing and discharging of one ignition coil, means driven by the engine for causing the cams to operate alternately to effect the discharging of the coils in recurrent sequence, and means for distributing the sparking impulses produced to the engine spark plugs in recurrent sequence.

1,664,339. DOMESTIC OIL BURNER. WALTER W. WILLIAMS, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois. Filed July 24, 1925. Serial No. 45,753. 8 Claims. (Cl. 158—28.)



1. In a fuel burner construction including a fire pot and an electrically operated fuel feed having a thermostatically operated control in circuit therewith actuated by the temperature at the burner nozzle, means subjecting the thermostatic element to the increasing temperature at the nozzle upon ignition of the burner flame, and additional means actuated by said increasing temperature allowing an increasing current of atmospheric air to envelope said thermal element and pass into the fire pot.

1,664,340. TOBACCO PIPE. GEORGE H. WILSON, Louisville, Ky. Filed Feb. 12, 1925. Serial No. 8,781. 2 Claims. (Cl. 131—12.)

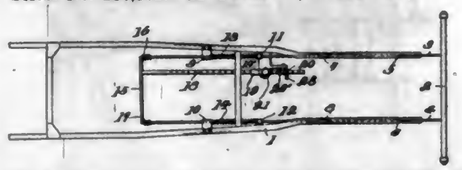


1. A tobacco pipe comprising a stem having a bore and a bowl portion having a combustion chamber, the wall of said combustion chamber being undercut on the side thereof adjacent said stem to form a chamber out of the line of pressure applied to the tobacco in said combustion chamber in filling the pipe, said combustion chamber having an annular groove above the bottom thereof and merging into said undercut chamber, said bowl portion having an air passage communicating at its outer end with the atmosphere, the inner ends of said air passage and said bore communicating with said undercut chamber substantially in the zone of said annular groove.

1,664,341. PAINT. LESLIE MILTON WISE, McKeesport, Pa. Filed June 6, 1925. Serial No. 35,481. 1 Claim. (Cl. 134—39.)

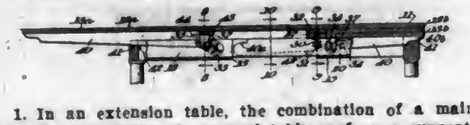
A paint comprising a mixture of approximately six pounds of finely divided carbide sludge, one pint of coloring matter and sufficient linseed oil to form a gallon of paint.

1,664,342. PARKING BUMPER FOR AUTOMOBILES. DAVID APRIL, Washington, D. C. Filed Apr. 2, 1927. Serial No. 180,502. 11 Claims. (Cl. 293—24.)



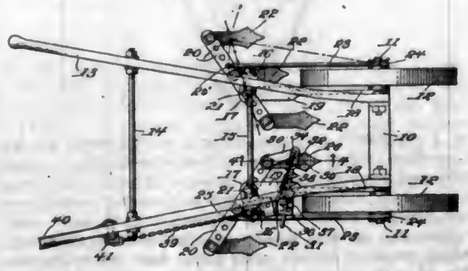
1. The combination with a motor vehicle, of guide bearings carried by the frame of the vehicle, a bumper having supporting bars slidably mounted in said bearings, means for normally holding said bumper in extended position and pawl and ratchet mechanism for withdrawing said bumper after being extended.

1,664,343. EXTENSION TABLE. JOHN BADER, Hampton, Va. Filed July 29, 1925. Serial No. 46,873. 9 Claims. (Cl. 45—113.)



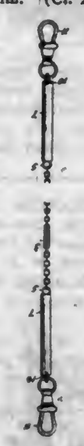
1. In an extension table, the combination of a main table board defining the normal table surface, a supporting frame divided in two section substantially along the transverse center line thereof, means for slidably interconnecting the two sections including a pair of slide guides forming part of one section, a pair of slide guides forming part of the other section, one slide guide on each section being in sliding engagement with one slide guide on the other section, resilient means connecting the main table board to the supporting frame independently of the relative sliding movement of the two sections, a pair of extension leaves normally disposed in superposed relation between the supporting frame and the main table board on one side of the transverse center line thereof, the upper one of said leaves being connected at its inner edge to the pair of slide guides forming part of the supporting frame section, and means permitting limited movement of the said upper leaf in vertical direction away from the frame.

1,664,344. CULTIVATOR. ELAM M. BECKER, Lititz, Pa. Filed Nov. 12, 1926. Serial No. 148,051. 2 Claims. (Cl. 97—59.)



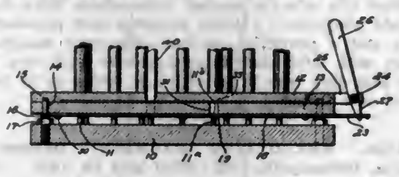
1. A row cultivator comprising a frame, tooth bars and teeth therefor pivotally mounted upon the frame, rods carried by the frame adapted for connection with the tooth bars to alter the pitch thereof, an auxiliary tooth pivotally mounted for independent lateral swinging movement upon the inner end of one of the toothed bars, and an operating means carried by the frame having connection with the auxiliary tooth.

1,664,345. GARMENT SUPPORTER. PAULINE DUNSTAN BELDEN, New York, N. Y. Filed June 16, 1926. Serial No. 116,402. 1 Claim. (Cl. 241—12.)



A garment supporter of the character described including a shoulder strap formed of an inextensible chain, garment attaching means, and elastic connections between the garment attaching means and the chain.

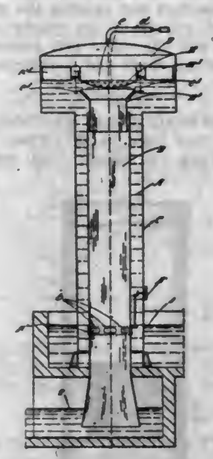
1,664,346. WASHER-SETTING MACHINE. MAGGIORINO G. BERTONE, New York, N. Y. Filed Oct. 29, 1926. Serial No. 145,056. 6 Claims. (Cl. 18—1.)



1. In a washer setting machine a pair of superimposed stationary plates, a slide plate mounted between them, said upper stationary plate having openings therein and open ended tubes adapted to receive a stack of washers communicating with said openings, said lower stationary plate having openings therein offset from the openings in the upper plate, said slide plate having openings therein adapted to register alternately with the openings in the two stationary plates as the slide plate is shifted from one extreme position to the other, a second slide plate mounted under the lower stationary plate and having key-hole slots therein the narrow ends of which normally register with the openings in the lower stationary plate.

1,664,347. APPARATUS FOR RAREFYING GASES. JENS ORTEN BOVING, Westminster, London, England. Filed Feb. 10, 1926, Serial No. 87,369, and in Great Britain Feb. 27, 1925. 4 Claims. (Cl. 230—105.)

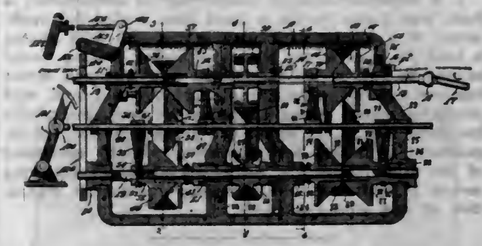
1. Hydraulic apparatus, working on the siphon principle, for rarefying gases, comprising a chamber for connection to a receptacle containing the air or gas to be rarefied, two downwardly extending conduits entering the said chamber and constituting with the latter a siphon serving by the descent of liquid in one of said conduits to draw liquid up the other conduit into said chamber, an induction head arranged at the upper end of the former conduit and provided with conduits communicating with the interior of said chamber, and means for opening and closing at will ports in the wall between said conduits so as to start the apparatus working without the necessity of creating a vacuum by external means.



1,664,348. PROCESS FOR THE PRODUCTION OF HYDROFLUORIC ACID FROM FLUORIC AND SILICIC SUBSTANCES. MAX BUCHNER, Hanover-Kleefeld, Germany, assignor to Albert Fritz Meyerhofer, Zurich, Switzerland. Filed June 18, 1925, Serial No. 38,099, and in Germany June 2, 1924. 5 Claims. (Cl. 23—153.)

2. The art of producing hydrofluoric acid from substances containing fluorine and silicon, which comprises reacting on said substances with a mineral acid and silicon fluoride to produce hydrofluosilicic acid, reacting on the hydrofluosilicic acid with an alkali metal fluoride to produce hydrofluoric acid and alkali metal silico fluoride, and decomposing the resulting alkali metal silico fluoride into alkali metal fluoride and silicon fluoride and returning the latter into the cycle of operations.

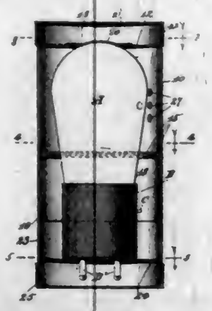
1,664,349. TRANSMISSION FOR SHAFTS. GEORGE A. BURROW, Spokane, Wash., assignor, by direct and mesne assignments, to J. Sutherland and C. H. Conrad, trustees, Spokane, Wash. Filed Mar. 1, 1927. Serial No. 171,875. 8 Claims. (Cl. 74—21.)



1. A device of the character described comprising an engine shaft, a countershaft, a driven shaft adapted to be connected with the differential of an automobile, pulleys mounted on the shafts, a belt connecting a pair of the pulleys on the engine shaft and countershaft, belts connecting pairs of the pulleys on the countershaft and driven shaft, means for alternately tightening the belts

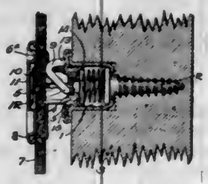
associated with the pulleys on the counter and driven shafts, a plurality of pulleys associated with one of the last mentioned belts, said last mentioned belt being entrained over the pulleys and causing the reverse rotation of the driven shaft relative to the countershaft when said belt is tightened and the other belt associated with the pulleys on the driven shaft and countershaft is relaxed.

1,664,350. NONREFILLABLE CARTON. ALEXANDER R. CAPPIELLO, New York, N. Y. Filed May 11, 1926. Serial No. 108,316. 2 Claims. (Cl. 229—6.)



2. In a carton for radio tubes, a body defining a compartment for housing and protecting the bulb portion, frangible means for sealing and suspending said bulb portion out of contact with the outer walls of the body proper, said body having an open end from which the base portion and contacts of the tube are exposed whereby to permit of and facilitate testing of the tube without disturbing the sealed housed condition thereof, and a removable cover for the open end of the body including an outer wall and means within the cover for engaging and supporting the contact elements in suspended relation and out of contact with the outer wall of the cover.

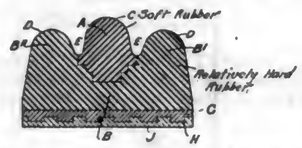
1,664,351. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed June 14, 1924. Serial No. 719,924. 13 Claims. (Cl. 24—211.)



1. A separable fastener comprising, in combination, a flush type socket having a front face, a stud for application to a flexible carrying medium, said stud having a head for engagement with said socket, locking means carried by said socket for locking said stud and socket together and unlocking means carried by said stud, said unlocking means having a portion for engagement with the front face of the socket and another portion for engagement with the locking member whereby movement of the stud toward the socket operates said unlocking means to shift said locking means and permit separation of said stud and socket.

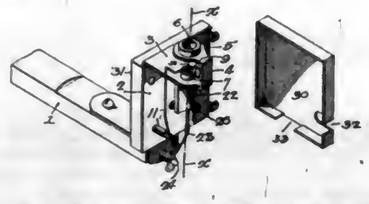
1,664,352. WHEEL TIRE. EDWARD WILLIAM COLEMAN, Southall, England. Filed Jan. 22, 1926, Serial No. 83,040, and in Great Britain Feb. 3, 1925. 3 Claims. (Cl. 152—1.)

1. A resilient wheel tire comprising a combination of individual annular treads of different resilient qualities, namely, a continuous middle tread band constituting an unbroken surface of relatively soft resilient material and continuous side tread bands constituting unbroken surfaces of relatively hard resilient material spaced from said middle band, the latter being of larger overall



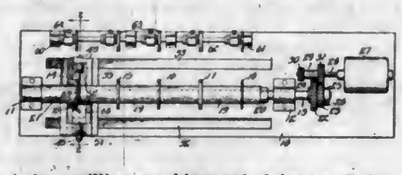
diameter than the side tread bands and having a base formation presenting extended surfaces to the side tread portions and the said tread bands being vulcanized together over the extended area presented by the base formation of said middle tread band.

1,664,353. TRIP MECHANISM FOR KNITTING-MACHINE STOP MOTIONS. FRANK CRAWFORD, Sr., New Brunswick, N. J., assignor to Crawford Manufacturing Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Feb. 18, 1926. Serial No. 89,136. 5 Claims. (Cl. 66—158.)



1. In trip mechanism for knitting machine stop motions, the combination of a pivoted weighted arm adapted to trip said stop motion; a pivoted drop wire of inconsequential weight supported by the knitting thread running in the knitting machine; a projection on said weighted trip arm; a pivoted intermediate lever engaging said projection; a latch engaging said intermediate lever; and a projection on said drop wire adapted to engage said latch and thereby release said trip arm when said drop wire is permitted to rotate as by breakage of said thread.

1,664,354. KEY-MILLING MACHINE. HERBERT A. DAUM, Indianapolis, Ind. Filed May 19, 1923. Serial No. 640,207. 18 Claims. (Cl. 90—13.2.)

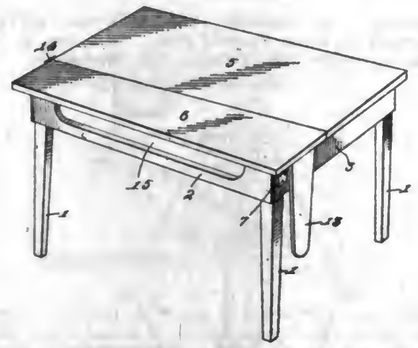


1. A key milling machine embodying a shaft, a plurality of cutters on the shaft, sleeves interposed between the cutters on said shaft for spacing the cutters apart, a work support movable longitudinally with reference to the shaft, a chuck on the work support movable transversely of the shaft, means whereby the chuck may be moved positively toward the shaft, and means for moving it yieldably away from the shaft, substantially as set forth.

1,664,355. IRONING BOARD AND TABLE. JULIE MANSFIELD DAVIS, Memphis, Tenn. Filed Sept. 3, 1924. Serial No. 735,718. 1 Claim. (Cl. 68—10.)

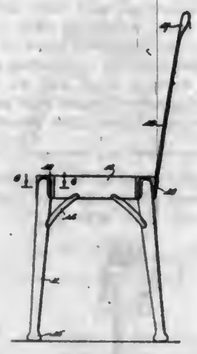
In a device for the purpose set forth, a substantially rectangular frame having its upper portion formed to provide a compartment, a top for the compartment com-

prising two boards of unequal widths which have their confronting edges disposed obliquely and which edges are beveled in opposite directions, a hinge connecting the narrow board at the wide end thereof to one end of the compartment, offset bracket members on the under-



side of the wider top section, at opposite ends thereof, the end walls of the compartment having longitudinally extending grooves to receive therein the ends of the brackets to permit the sliding of the wider top section over the compartment, and latching means at the confronting ends of the top sections.

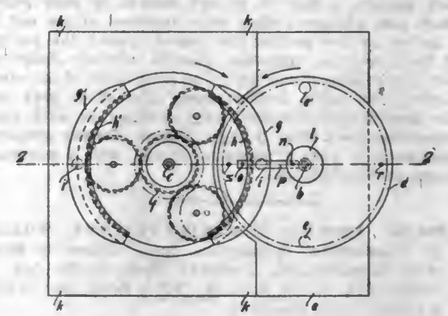
1,664,356. CHAIR. LOUIS DELLERT, Brooklyn, N. Y. Filed Dec. 3, 1925. Serial No. 73,087. 2 Claims. (Cl. 155—2.)



1. As a new article of manufacture, a chair including a seat frame, sheet metal legs connected at their upper ends to the seat frame, said legs being of arcuate cross section with the channelled portions turned inwardly whereby the legs of a number of chairs may be nested, a chair back secured to the rear of the seat frame and inclined away from the frame, said back at its lower end including a rear face bevelled on the same angle at which the chair back is inclined, whereby the backs will not interfere with nesting of the chairs.

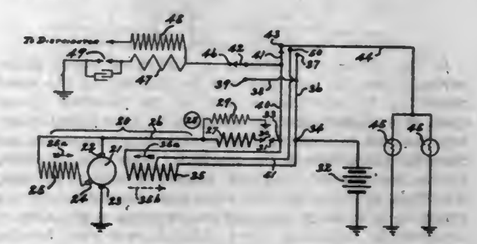
1,664,357. DEVICE FOR THE MANUFACTURE OF TAPE, WEBBING, GIMP, BRAID, AND SIMILAR MATERIALS. CARL ERNESTUS and WILHELM LUSEBRINK, Elberfeld Donberg, Germany. Filed Mar. 12, 1926, Serial No. 94,152, and in Germany Feb. 25, 1925. 6 Claims. (Cl. 96—3.)

1. A device for the manufacture of tape, webbing, gimp, braid and similar materials comprising in combination two independent spool systems distanced apart and adapted for revolution in the same or in opposite directions, means for driving the systems, spool spindles relatively spaced apart on the respective systems which are so arranged that the one system overlaps the other



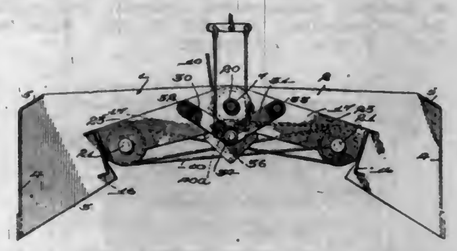
and a binding thread fed to the device so that it is guided upwardly in the centre of the joint circular track provided by the two systems where they intersect.

1,664,358. LIGHTING AND BATTERY-CHARGING SYSTEM. JOHN T. FITZSIMMONS, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation of Dayton, Ohio, a Corporation of Delaware. Filed Nov. 29, 1924. Serial No. 752,872. 4 Claims. (Cl. 290—41.)



2. An electrical system comprising in combination, a variable speed generator including a regulating series field; a storage battery in series connection with said series field; a circuit including work devices; an ignition device; and a switch movable into one position to connect the ignition device with the generator and movable into another position for disconnecting the ignition device and directly connecting the work devices with the battery.

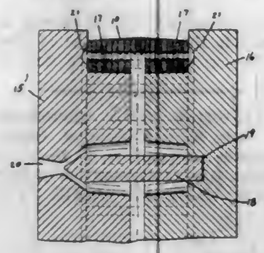
1,664,359. EXCAVATING BUCKET. ALBERT GROUT, Sault Ste. Marie, Mich. Filed Dec. 15, 1925. Serial No. 75,600. 3 Claims. (Cl. 37—184.)



1. In a clam shell bucket, a pair of bucket sections each having extensions in longitudinal alinement with the sides of the sections, a pivot shaft connecting the free ends of the extensions of both sections, a cross member connecting the sides of each section at the base of said extensions, a pair of laterally spaced bracket plates se-

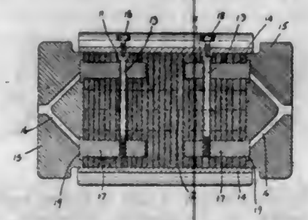
cured to each cross member with their upper ends engaged with said pivot shaft, a pulley shaft mounted between each pair of plates adjacent the cross member of each section, a pair of pulleys carried by each pulley shaft, and a single closing cable anchored at one end to a pulley on one section and reeved around the pulleys of both sections extending directly without deflection from the pulleys of one section to the pulleys of the other section, the bucket sections being adapted to open out into longitudinal alinement and in alinement with their supporting pivot when in open position, thereby adapting the bucket to have a maximum spread with a minimum height in open position.

1,664,360. PROCESS OF MAKING PULLEYS. WILLIAM D. HAMERSTADT, Indianapolis, Ind., assignor to Rockwood Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Nov. 24, 1925. Serial No. 71,180. 2 Claims. (Cl. 22—202.)



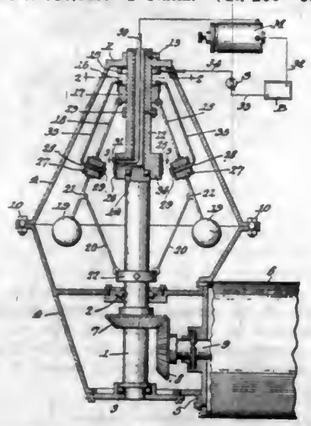
1. The process of forming a laminated paper pulley having a metallic hub and web for supporting the same, consisting in providing a pair of die members spaced apart intermediate their peripheries to form a web therebetween, and to form an annular recess for receiving and clamping therebetween the laminated fibre rim, providing a core on one of said die blocks extending centrally therefrom to the other die block and surrounded with a recess to provide a hub portion, forming a plurality of transversely extending bores through said rim, forming a recess about the inner periphery of said rim in communication with said bores, suitably clamping the same between said die blocks under such pressure as to reduce the width thereof and increase the density of the fibre, and die casting metal between said die blocks under sufficient pressure to force it into said bores through said recesses and into the intervening space between said blocks and the space surrounding said bore for forming transverse pins through said rim in bonded relation with the fibrous surface thereof and forming a hub and web integral therewith.

1,664,361. PROCESS OF MAKING SPLIT PULLEYS. WILLIAM D. HAMERSTADT, Indianapolis, Ind., assignor to Rockwood Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Nov. 24, 1925. Serial No. 71,181. 3 Claims. (Cl. 22—202.)



1. The process of forming a split pulley, comprising two sections consisting in providing a bore in each of said sections extending longitudinally thereof, mounting tie members transversely of said bores so as to extend therein and from one of said sections to the other, and casting metal into said bores as a mold, whereby the metal during the casting operation will engage the tie members and secure them in place for connecting the pulley sections together.

1,664,362. AUTOMATIC CENTRIFUGAL SWITCH. HENRY M. HANS, Fordyce, Nebr. Filed Aug. 6, 1924. Serial No. 730,549. 1 Claim. (Cl. 200—80.)



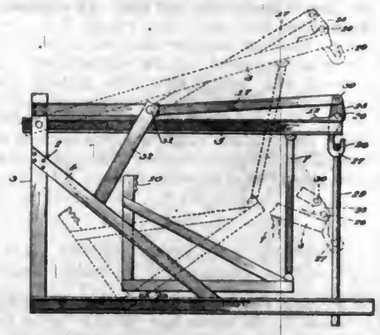
An automatic centrifugal switch comprising a tubular housing, a movable electric contact head slidable on said housing, arms connected to said head, each arm carrying a centrifugal member having interrupter points, a revoluble shaft in alinement with said housing, a collar fixed to said shaft, arms connecting said collar with said centrifugal members, an electrical cable in said housing, a contact disk on said housing completing a circuit when engaged with said movable head and an insulated ring on said housing adapted to make and break a circuit when engaged with said interrupter points.

1,664,363. CASING SPEAR. WILLIAM H. HARVEY, Water Valley, Miss. Filed Apr. 6, 1927. Serial No. 181,550. 10 Claims. (Cl. 294—86.)



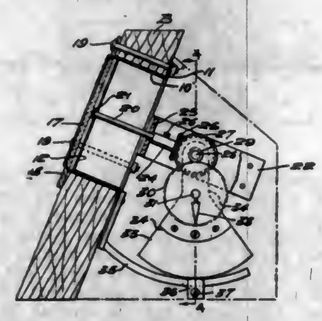
1. A casing spear including a sleeve, slips movable thereon to grip a casing, a barrel movable through the sleeve, and heads on the barrel above and below the sleeve having arms projecting toward one another, said barrel being turnable to shift the said arms into and out of alinement with said slips.

1,664,364. PUMP JACK. WILLIAM GUY JENSEN and KRESTEN RAY JENSEN, Nowata, Okla. Filed Sept. 20, 1926. Serial No. 136,706. 2 Claims. (Cl. 74—5.)



2. In a pumping jack, an L frame, long and short parallel levers mounted on the top of said frame and parallel to the base, said levers being each pivoted to a hooked link engageable with the polish rod of a well, and a rockable right angled bracket and a link connecting the free end of the base member thereof with the longer of the two top levers.

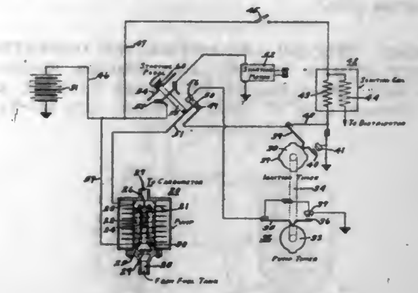
1,664,365. GRADE INDICATOR. RUDOLF F. KATOLIN, Los Angeles, Calif. Filed May 1, 1926. Serial No. 106,169. 4 Claims. (Cl. 33—219.)



1. In a grade indicator, a dial having grade indicia thereon a pointer traversing the grade indicia, a shaft having said pointer fixed thereon, a plumb pendulum, gearing connecting the pendulum and shaft, a pivotally supported tank having a viscous liquid therein into which the pendulum dips, an arc bar concentric to the pivot of the tank and passing below said tank, a split guide on the bottom of the tank embracing the arc bar and a clamp screw passing through the guide to clamp the same in adjusted position on the arc bar.

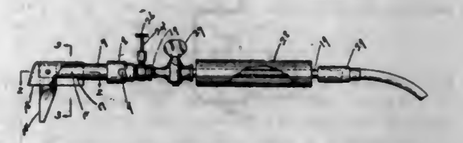
1,664,366. FUEL-SUPPLY SYSTEM. CHARLES F. KETTERING, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 15, 1923. Serial No. 675,020. 6 Claims. (Cl. 123—179.)

1. A fluid supply device for an internal combustion engine provided with a starter; comprising in combination, a control for the engine starter; a magnetically operated pump; circuit interrupters concurrently driven by the engine, one of which operates more often than the other per engine revolution, either one of the interrupters being separately adapted to intermittently connect the pump with a source of current to cause the pump to pulsate; and means associated with the control for the engine starter and the separate interrupters whereby the pump will be connected to the interrupter



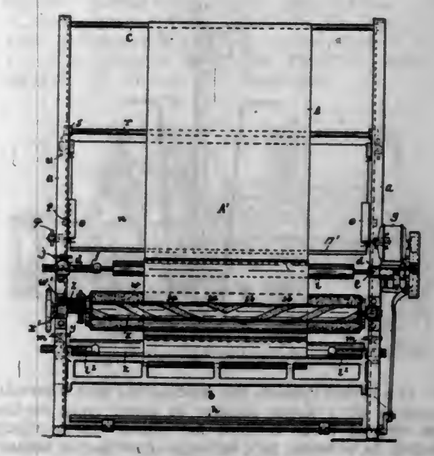
adapted to operate it more often per engine revolution, while the engine starter control is being operated to cause cranking of the engine.

1,664,367. SOLDERING IRON. RAFAEL MAGRISSO, New York, N. Y. Filed Aug. 11, 1925. Serial No. 49,552. 3 Claims. (Cl. 158—26.)



3. A self-heating soldering iron including a Bunsen burner, a combustion chamber at one end thereof and having side walls, a bit supported in said side walls and forming an end wall of said chamber, a shield mounted on said side walls and forming the top of said chamber, and a common mounting means for said bit and said shield.

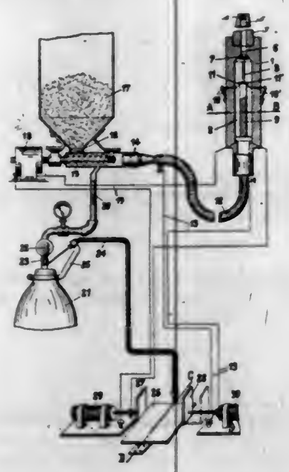
1,664,368. CLOTH-INSPECTING MACHINE. ARTHUR C. MASON, Hawthorne, N. J. Filed Aug. 29, 1925. Serial No. 53,224. 2 Claims. (Cl. 26—70.)



1. An apparatus for use in examining a strip of fabric including a frame, spaced means therein to maintain the fabric stretched and so as to be advanceable length-

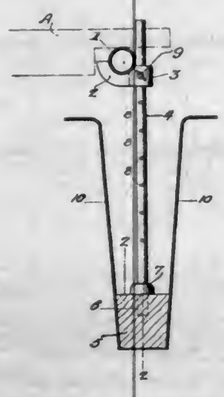
wise of itself, and a table tiltable on an axis extending transversely of and substantially parallel with and opposite to the stretched part of the strip and independently of the same to various angular positions relatively to said part of the strip.

1,664,369. PROCESS AND DEVICE FOR OPERATING UPON HUMAN TEETH. JAKOB MAURER, Konstanz, Germany. Filed Jan. 20, 1925, Serial No. 3,661, and in Germany June 17, 1924. 8 Claims. (Cl. 32—7.)



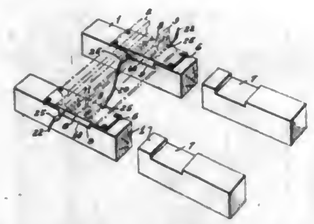
1. The process of operating upon human teeth, consisting in treating the sick tooth or teeth by conducting against the part or parts to be treated an abrasive by means of a fluid under pressure, substantially as set forth.

1,664,370. FLOOR-SCREED-SUPPORT DEVICE. JAMES MARK MILBURN and GEORGE GREEN FILSON, Los Angeles, Calif. Filed Jan. 20, 1926. Serial No. 82,556. 2 Claims. (Cl. 72—128.)



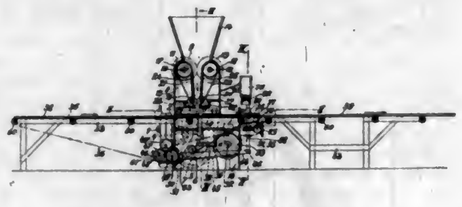
1. In a screed support, the combination with a standard consisting of a single element of small cross sectional area adapted to be inserted for support in an upright position, in a recess in a suitable structure; a collar on said element limiting the extent to which it may enter the said recess; a screed-supporting bracket adjustable longitudinally of the element; and means for securing the bracket in adjusted position.

1,664,371. SWITCH HEATER. CHARLES W. MOFFETT, Flushing, and MARK R. BRINEY, Brook Haven, N. Y., assignors to Brinard Sales and Construction Company, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1927. Serial No. 167,636. 12 Claims. (Cl. 246—428.)



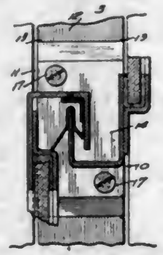
1. In a railway switch, in combination, a railway tie having a recess in its upper face directly below the air space between the stock rail and the switch rail, a tie reinforcing, heat-radiator plate inset in said recess and heat insulated from the walls of said recess, and a heating filament carried by said plate between its upper and lower surfaces.

1,664,372. MACHINE FOR DIVIDING AND WORKING DOUGH. WILHELM MOHR, Dolau, near Halle, Germany. Filed July 30, 1926, Serial No. 125,912, and in Germany Oct. 13, 1921. 6 Claims. (Cl. 107—9.)



2. A machine for dividing and working dough comprising a supply hopper, mechanism for dividing and working the dough, a conveyor adapted to carry dough from said hopper to said mechanism, means for feeding the divided pieces of dough to said working mechanism, a drive for said mechanisms and means, and automatic means for so timing their cooperation that the conveyor is operated continuously and the dividing and working mechanisms are inoperative during the operation of said feeding means.

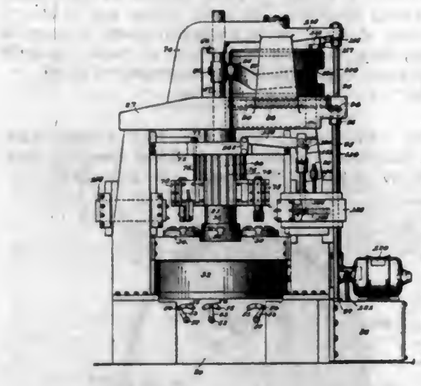
1,664,373. ADJUSTABLE RUBBING PLATE. HARRY E. CAMPBELL, Baltimore, Md., assignor to Campbell Metal Window Corporation, Baltimore, Md., a Corporation of Maryland. Filed Aug. 26, 1925. Serial No. 52,501. 1 Claim. (Cl. 189—72.)



A window-frame and sash construction comprising on each side a parting strip having a substantially continuous face near the centre of the window, sashes having

meeting rails of such length as to leave substantial clearances between the ends thereof and said parting strips, a rubbing plate carried by each of said parting strips in such position as to be opposite the ends of the meeting rails when the window is closed, and having its rear face spaced out from said parting strip and having sides adapted to embrace the sides of the parting strip, a compressible member interposed between the face of each parting strip and one of said plates and substantially in contact with said sides, and means for regulating the position of each of said plates relative to the parting strips, whereby the position of said plates is made adjustable without permitting any substantial amount of air to pass between said plates and the face of the parting strip.

1,664,374. MULTIPLE-SPINDLE MACHINE. LEE G. DANIELS, Rockford, Ill., assignor to The Bullard Machine Tool Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 23, 1924. Serial No. 688,019. 50 Claims. (Cl. 29—38.)

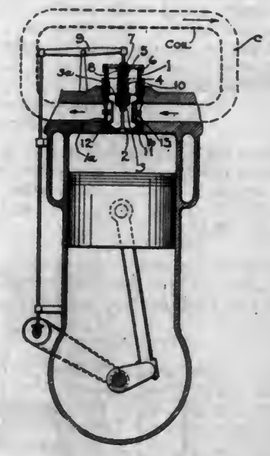


1. In a multiple spindle lathe, a base, a rotatable multiple spindle work carrier a plurality of work spindles carried thereby, a super-structure mounted above said base, a movable tool carrier disposed between said superstructure and said multiple spindle work carrier, a plurality of tool supports on said tool carrier for said spindles, and a single rotary element mounted on said superstructure adapted to move said tool carrier into and out of relation with said multiple spindle work carrier, said rotary element and work carrier being driven from the same source of power, the one intermittently and the other continuously.

20. In a multiple spindle lathe, a revolving work carrier having intermittent movement, a plurality of work supporting spindles mounted therein, each being mounted to revolve on its axis independently of one another, a plurality of rotating spindle driving means, one for each spindle, having stationary axes and adapted to co-operate with said spindles to drive them in the intervals between the intermittent movements of said work carrier, drive means for simultaneously driving said spindle driving means, means adapted to disconnect said driving means during the intermittent movements of said work carrier, and brake means adapted to be applied to said spindle driving means upon disconnection of said drive means.

1,664,375. VALVE FOR INTERNAL-COMBUSTION ENGINES. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Jan. 15, 1925. Serial No. 2,473. 7 Claims. (Cl. 123—188.)

1. In combination with an internal combustion engine having a compression chamber connected therewith, a valve for controlling communication between the compression chamber and a cylinder of the engine, a pressure-responsive member connected to the valve, said member being exposed to the pressure in the compression chamber

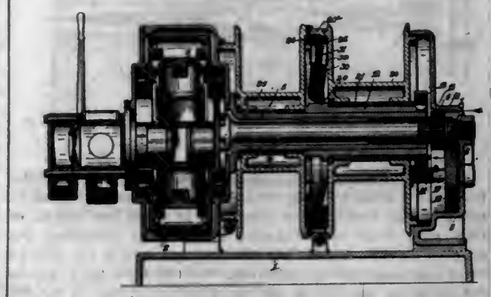


and tending to counteract the effect of such pressure on the valve, and means actuated by the engine for opening the valve on the compression stroke.

1,664,376. SULPHO-ICHTHYOLATE OF AMMONIUM AND PROCESS OF MANUFACTURE. DUDLEY H. ROWLAND, Detroit, Mich., assignor to American Ichthyol Oil Company, San Antonio, Tex., a Corporation of Texas. Filed Feb. 4, 1927. Serial No. 166,018. 4 Claims. (Cl. 260—159.)

1. The process herein described for the production of ammonium ichthyol sulphonate, which comprises sulphonating petroleum, heating the mixture with agitation, withdrawing the heat while maintaining the agitation, diluting with kerosene, adding a salting-out reagent and agitating until frothing ceases, then adding ammonium hydroxide to alkaline reaction, further diluting with kerosene, and recovering the product, substantially as set forth.

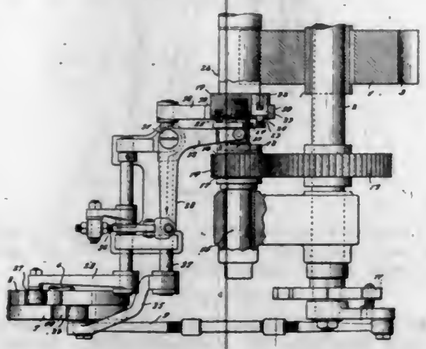
1,664,377. DRUM-OPERATING MECHANISM. OMAR E. CLARK, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Apr. 17, 1922. Serial No. 553,426. 24 Claims. (Cl. 254—185.)



1. In apparatus of the character set forth, the combination with a base, of a reversely rotatable rotator and a supporting shell mounted on the base in spaced relation, a drive shaft operated by the rotator and extending across the space between the rotator and supporting shell, a tubular shaft around the drive shaft, gearing in the sup-

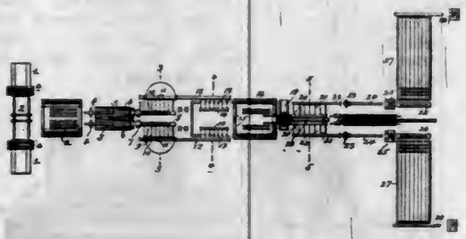
porting shell, connecting the drive and tubular shafts, drums surrounding the drive shaft and located end to end between the rotator and supporting shell, the adjacent ends of the drums having reversely disposed rings of clutch teeth, and a clutch pawl carried by the tubular shaft and shiftable by the clutch teeth from the teeth of one drum to the teeth of the other drum and vice versa accordingly as the direction of rotation of the rotator and drive shaft is reversed.

1,664,378. CAN-MAKING MACHINE. GEORGE C. EULER, Edgewater Heights, N. J., assignor to R. B. Davis Company, Hoboken, N. J., a Corporation of New Jersey. Filed Nov. 2, 1925. Serial No. 66,134. 12 Claims. (Cl. 113—23.)



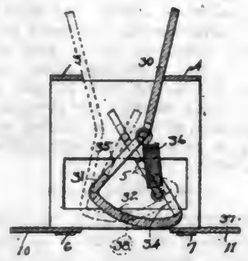
1. In a machine of the character described, the combination of means for feeding cans at intervals, means for rotating and double-seaming the bottoms of the cans, and power-operated means for simultaneously engaging the open ends of the cans to curl the edges thereof.

1,664,379. APPARATUS FOR MAKING LAP-WELDED TUBES. JAMES H. MATHESON, Wyomissing, Pa., assignor to Donald E. Matheson, Edgewood, Pa. Filed July 28, 1926. Serial No. 125,474. 4 Claims. (Cl. 29—33.)



1. The combination in apparatus for making lap welded tubes, of a skelp heating furnace; scarfing rolls located in front of the furnace and arranged to scarf the blanks as they pass from the furnace; a table for receiving the scarfed blanks; a bending die through which the blanks travel; a support for receiving the bent blanks; means for allowing the blanks to move laterally into a pivoted trough; a longitudinal trough in line with the pivoted trough; means for carrying the blanks from said trough to a fixed trough in front of the welding furnace; a pusher for introducing the tubular blank into the furnace and for projecting a tubular blank therefrom; and welding rolls in front of the welding furnace between which the blank is passed and welded.

1,664,380. SNAP SWITCH. SAMUEL A. MEYERS, San Francisco, Calif., assignor to Paramount Electric Mfg. Co., a Corporation of California. Filed July 15, 1926. Serial No. 122,518. 10 Claims. (Cl. 200—67.)



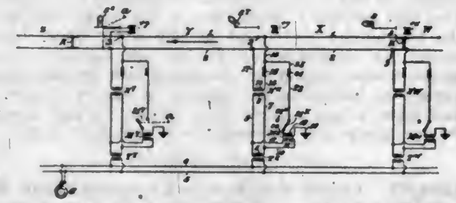
1. In a switch for electric circuits comprising a frame, electric contacts carried thereby, a pivotally mounted knife carrier, a handle pivotally carried by the frame, and a spring connecting the knife carrier and handle to cause both of them to be resiliently held in opposite positions, said handle being shaped to start the knife carrier and to stop it in opposite movements thereof.

1,664,381. NECKBAND FORMER AND STRETCHER. CARL RADITSCH, Camden, N. J. Filed June 30, 1927. Serial No. 202,686. 3 Claims. (Cl. 223—19.)



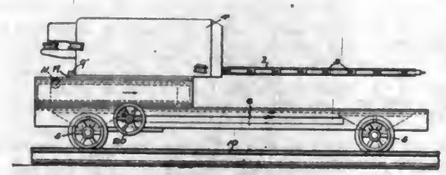
1. A neck band former and stretcher, comprising a body portion, an expansible and contractible band surrounding said body portion and carried by it, and a manually controlled actuating member rotatably carried by said body portion and having a helical member operatively connected with said band to effect its expansion and contraction.

1,664,382. TRACK-CIRCUIT SYSTEM. ARBA G. WILLIAMSON, Carnegie, Pa., assignor to Pittsburgh Train Control Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 5, 1922. Serial No. 549,661. 24 Claims. (Cl. 246—34.)



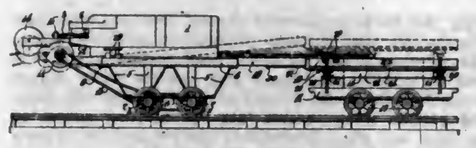
1. A track circuit system comprising: traffic rails divided into blocks, a circuit including both rails in series, a circuit, connected to ground at one side and to at least one of the rails at its other side, for maintaining voltage above ground potential on at least one of said rails, and a circuit breaker included in said second circuit and controlled by the first circuit of a preceding block.

1,664,383. MINING MACHINE. PRESTON UPHAM, Boston, Mass., assignor to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed July 26, 1916. Serial No. 111,523. 30 Claims. (Cl. 26—28.)



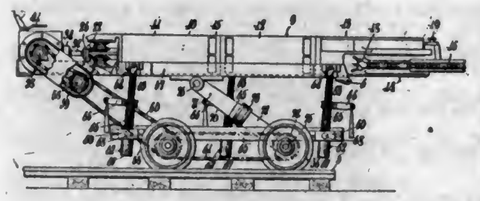
3. The combination with a mining machine adapted to slide upon its bottom upon a mine bottom during cutting and provided with a cutter bar, of means for supporting said machine during cutting in positions wherein said bar will be parallel to a single inclined plane.

1,664,384. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 5, 1920. Serial No. 349,526. 54 Claims. (Cl. 262—28.)



1. In a mining apparatus, a wheeled machine guiding element, a vertically adjustable machine support, and operative connections therebetween for tilting said element as the elevation of said support is varied.

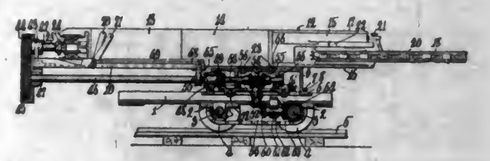
1,664,385. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 3, 1924, Serial No. 723,953. Renewed Dec. 20, 1926. 52 Claims. (Cl. 262—28.)



1. In a mining apparatus, a wheeled truck, a unitary, separably operable mining machine thereon operable to cut in different planes when supported in inverted positions, and means to propel said truck therefrom when disposed in either position.

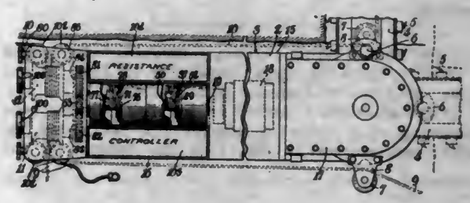
1,664,386. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 5, 1924. Serial No. 736,153. 30 Claims. (Cl. 262—28.)

1. In a mining apparatus, a wheeled truck frame, a mining machine having opposed plane surfaces upon which it is disposable and which are constructed to constitute skid surfaces to support the machine for sliding movement during cutting, said machine being constructed to cut when sliding directly upon a mine bottom on



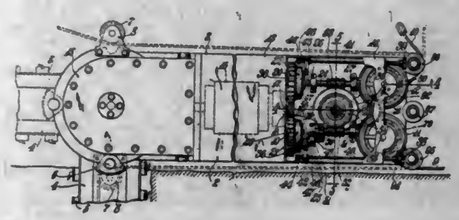
either of such surfaces, and means to swivel such machine relative to said frame from said machine when the latter is disposed in either position on said frame.

1,664,387. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 6, 1925, Serial No. 41,759. Renewed Aug. 25, 1927. 38 Claims. (Cl. 262—30.)



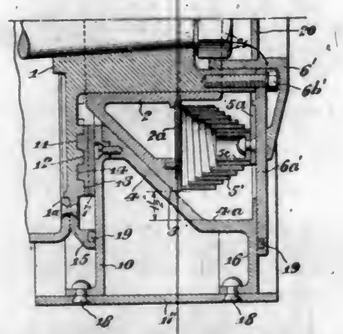
1. In a mining machine, a motor, and feeding means driven by said motor comprising a plurality of feed operating members rotatable on parallel longitudinally extending horizontal axes, and a friction clutch disposed within and coaxial with each of said members.

1,664,388. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 12, 1926. Serial No. 101,438. 51 Claims. (Cl. 262—30.)



1. In a mining machine, a frame slidable on its bottom on the mine bottom during operation of the machine and carrying a motor, and means for feeding the machine bodily laterally during the cutting operation including plural speed transmission gearing driven by said motor, a plurality of relatively rotatable feed operating members each rotating on a vertical axis, and means for connecting said members to said gearing independently.

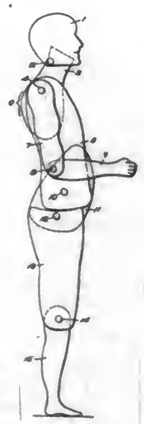
1,664,389. CUSHION WHEEL. ELBERT A. CORBIN, Jr., Swarthmore, Pa., assignor of one-third to William C. Biddle, Lansdowne, Pa., and one-third to William A. Brown, Philadelphia, Pa. Filed July 28, 1927. Serial No. 209,104. 22 Claims. (Cl. 152—45.)



1. A resilient transmission for vehicle wheels, comprising two revoluble members capable of eccentric displacement, an intermediate power transmitting element slidably engaging said members and splined thereto throughout the area of such engagement, and resilient means tending to maintain the axial alignment of such members.

1,664,390. EDUCATIONAL DEVICE. ELIZABETH DWIGHT, Brookline, Mass. Filed May 10, 1926. Serial No. 108,126. 10 Claims. (Cl. 35—16.)

1. An educational device or so-called posture man consisting of a series of substantially flat pieces, together representing in side view the contour of the human form, and pivotally connected together, so that each may be moved relatively to the others, thereby to bring the entire form into perfect posture and also to



bring the form or portions thereof into incorrect posture for purpose of visual comparison and instruction, said pieces including an upper body portion to which a head is secured, said upper body portion being shaped to simulate the upper portion of the back and the chest, said portion when thrown into one position advancing the chest and when thrown into another position causing the chest to recede and rounding the back.

March 6, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abercrombie & Fitch Co., Inc., New York, N. Y. Topcoats, sport dresses, riding habits, etc. 239,578–9; Mar. 6; Serial Nos. 252,075–6; published Dec. 27, 1927. Class 39.

Abercrombie & Fitch Co., Inc., New York, N. Y. Topcoats, sport dresses, riding habits, etc. 239,580; Mar. 6; Serial No. 252,074; published Dec. 27, 1927. Class 39.

Ackerman, Michael, doing business as Cincinnati Ice Pick & Tong Mfg. Co., Cincinnati, Ohio. Handles for tools. 239,372; Mar. 6; Serial No. 256,157; published Dec. 27, 1927. Class 23.

Ajax Rope Company, Inc., New York, N. Y. Fibre rope. 239,394; Mar. 6; Serial No. 257,267; published Dec. 20, 1927. Class 7.

Allied Merke Institutes, Inc., New York, N. Y. Shaving-soap cream. 239,374; Mar. 6; Serial No. 254,224; published Nov. 22, 1927. Class 4.

Almanzo, John J., Brooklyn, N. Y. Music sheets and books. 239,655; Mar. 6; Serial No. 244,809; published Nov. 22, 1927. Class 38.

American Brass Company, The, Waterbury, Conn. Bronze wire, sheets, tubes, etc. 239,610; Mar. 6; Serial No. 255,734; published Dec. 20, 1927. Class 14.

American Brewing Co. of Rochester, N. Y. Inc., Rochester, N. Y. Near beer. 239,575; Mar. 6; Serial No. 252,454; published Dec. 27, 1927. Class 48.

American Car and Foundry Company, New York, N. Y. Cast ingot molds and cast-metal ladles for handling molten metal. 239,536; Mar. 6; Serial No. 256,701; published Dec. 27, 1927. Class 23.

American Fork & Hoe Company, The, Cleveland, Ohio. Fishing rods and handles, etc. 239,511; Mar. 6; Serial No. 218,590; published Dec. 20, 1927. Class 22.

American Lanolin Corporation, Lawrence, Mass. Preparation for lubricating metals. 239,450; Mar. 6; Serial No. 257,268; published Dec. 20, 1927. Class 6.

American Safety Razor Corporation, Brooklyn, N. Y. Shaving brushes. 239,609; Mar. 6; Serial No. 255,785; published Dec. 20, 1927. Class 29.

Amity Leather Products Co., West Bend, Wis. Cigarette cases. 239,622; Mar. 6; Serial No. 257,332; published Dec. 20, 1927. Class 8.

Ancient Arabic Order Nobles of The Mystic Shrine for North America, New York, N. Y. Periodical. 239,437; Mar. 6; Serial No. 256,760; published Dec. 27, 1927. Class 38.

Atlantic Packing Co. (See Consolidated Rendering Company.)

Ayer Company, The, Lowell, Mass. French shampoo. 239,696; Mar. 6; Serial No. 255,956; published Dec. 27, 1927. Class 6.

Baldwin, Roy, doing business as Baldwin's Extract & Flavor Co., Columbus, Ohio. Beverages and extracts or strups for producing the same. 239,494; Mar. 6; Serial No. 256,896; published Dec. 27, 1927. Class 45.

Ballou-Wanzer Inc., Chicago, Ill. Periodical. 239,669; Mar. 6; Serial No. 239,635; published Dec. 27, 1927. Class 38.

Baltimore Gas Engineering Corporation, The, Charleston, W. Va. Petroleum products. 239,479; Mar. 6; Serial No. 254,377; published Dec. 27, 1927. Class 15.

Bancroft Walker Company, Boston and South Boston, Mass. Shoes. 239,465; Mar. 6; Serial No. 256,070; published Dec. 20, 1927. Class 39.

Baskind, Louis, & Co., Inc., New York, N. Y. Shirts and pajamas. 239,694; Mar. 6; Serial No. 253,976; published Dec. 27, 1927. Class 39.

Bausch & Lomb Optical Company, Rochester, N. Y. Measuring rules. 239,513; Mar. 6; Serial No. 221,800; published Dec. 27, 1927. Class 26.

Beacon Coat Mfg. Co. (See Dagilas, William.)

Beckley and Church Inc., Rochester, N. Y. Ray filters for cinema projectors. 239,489; Mar. 6; Serial No. 257,045; published Dec. 27, 1927. Class 26.

Beir, Arthur, & Co. Inc., New York, N. Y. Cotton, silk, silk and cotton mixed, etc., piece goods. 239,670–1; Mar. 6; Serial Nos. 239,562–3; published Dec. 27, 1927. Class 42.

Berglof, Matilda N., doing business as Nellie's Beauty Parlor, Minneapolis, Minn. Medical preparation. 239,590; Mar. 6; Serial No. 254,888; published Dec. 20, 1927. Class 6.

Berland Laboratories, Inc., Los Angeles, Calif. Cream for removing hair from the human skin. 239,457; Mar. 6; Serial No. 256,900; published Dec. 27, 1927. Class 6.

Best Foods, Inc., The, New York, N. Y. Vegetable butter and fat, butter or oil, etc. 239,417; Mar. 6; Serial No. 255,482; published Dec. 20, 1927. Class 46.

Big Store Co., The, Cincinnati, Ohio. Boys' and children's clothes. 239,651; Mar. 6; Serial No. 246,012; published Dec. 27, 1927. Class 39.

Big Time Corporation, The, Miami, Fla. Nonalcoholic, maltless beverages. 239,500; Mar. 6; Serial No. 255,789; published Dec. 27, 1927. Class 45.

Blair, William A., doing business as Queen Cleaner Company, Winston-Salem, N. C. Compositions for cleaning painted woodwork, furniture, walls, etc. 239,685; Mar. 6; Serial No. 255,223; published Dec. 13, 1927. Class 4.

Blatt, M. E., Co., Atlantic City, N. J. Swimming floats, medicine balls, fishing reels, punching bags, etc. 239,649; Mar. 6; Serial No. 240,070; published Dec. 20, 1927. Class 22.

Blatt, M. E., Co., Atlantic City, N. J. Suits, overcoats, coats, etc. 239,650; Mar. 6; Serial No. 246,067; published Dec. 20, 1927. Class 39.

Bocchicchio, Luigi, doing business as Bocchicchio & Son, Philadelphia, Pa. Shaving-cream soap, liquid soap, etc. 239,405; Mar. 6; Serial No. 255,589; published Dec. 6, 1927. Class 4.

Bondshare Corporation, Dover, Del. Negotiable (bondshare) certificates. 239,515; Mar. 6; Serial No. 222,912; published Nov. 29, 1927. Class 38.

Booth Fisheries Company. (See Northwestern Fisheries Company, assignor.)

Boott Mills, Lowell, Mass. Cotton cloth in the piece. 239,661; Mar. 6; Serial No. 242,363; published Dec. 20, 1927. Class 42.

Boschke, Guy, Los Angeles, Calif. Garbanzos and garbanzo flour, meal, bran, etc. 239,652; Mar. 6; Serial No. 245,779; published Dec. 27, 1927. Class 46.

Boschke, Guy, Los Angeles, Calif. Canned garbanzos. 239,653; Mar. 6; Serial No. 245,778; published Dec. 27, 1927. Class 46.

Boyd, J. C., doing business as Rialto Packing Co., Rialto, Calif. Fresh citrus fruits. 239,389; Mar. 6; Serial No. 253,569; published Dec. 27, 1927. Class 46.

Bradshaw, Los Angeles, Calif. Pajamas, dresses, underwear, etc. 239,668; Mar. 6; Serial No. 240,060; published Dec. 27, 1927. Class 39.

Brandenstein, Arthur, Company, New York, N. Y. Ribbons. 239,538; Mar. 6; Serial No. 256,657; published Dec. 27, 1927. Class 42.

Breskin & Charlton Publishing Corporation, New York, N. Y. Publication. 239,690; Mar. 6; Serial No. 253,936; published Dec. 20, 1927. Class 38.

Brewer & Company Inc., Worcester, Mass. Germicide. 239,448; Mar. 6; Serial No. 257,340; published Dec. 20, 1927. Class 6.

Breyer Ice Cream Company, The, Philadelphia, Pa. Ice-cream confection. 239,683; Mar. 6; Serial No. 255,546; published Dec. 20, 1927. Class 46.

Bridgeport Brass Company, Bridgeport, Conn. Insulated wire. 69,085; renewed July 21, 1928.

Bridgeport Brass Company, Bridgeport, Conn. Bare or uncovered composition wire. 69,087–8; renewed July 21, 1928.

British Columbia Fishing & Packing Company, Limited, Vancouver, British Columbia, Canada. Frozen fish. 239,551; Mar. 6; Serial No. 250,434; published Dec. 27, 1927. Class 46.

Brown & Bigelow, St. Paul, Minn. Playing cards. 239,599; Mar. 6; Serial No. 256,447; published Dec. 13, 1927. Class 22.

Brown, Charles H., New York, N. Y. Leather and canvas boots and shoes. 239,510; Mar. 6; Serial No. 216,014; published Dec. 20, 1927. Class 39.

Browne, Bertha E., Detroit, Mich. Hair grower, shampoo, hair tonic, etc. 239,520; Mar. 6; Serial No. 231,718; published Dec. 20, 1927. Class 6.

Bruce, Edward D., doing business as Bruce Laboratories, Swarthmore, Pa. Shaving cream. 239,689; Mar. 6; Serial No. 254,346; published Dec. 20, 1927. Class 4.

Buescher Band Instrument Co., Elkhart, Ind. Publication. 239,420; Mar. 6; Serial No. 255,501; published Dec. 6, 1927. Class 38.

Bullrich, A. W. & C. W. (See Spielhagen, Paul.)

Burdick Corporation, Milton, Wis. Publication. 239,642; Mar. 6; Serial No. 256,658; published Dec. 13, 1927. Class 38.

Burstyn, Libby, doing business as The Ganga Co., Los Angeles, Calif. Nonalcoholic beverages. 239,501; Mar. 6; Serial No. 255,633; published Dec. 27, 1927. Class 45.

Bury Quilting Manufacturing Company Limited, The, Manchester, England. Cotton piece goods. 239,533; Mar. 6; Serial No. 256,763; published Dec. 27, 1927. Class 42.

Butterfield, Fred, & Co. Inc., New York, N. Y. Dress goods. 239,664; Mar. 6; Serial No. 241,132; published Dec. 13, 1927. Class 42.

Buttonless Tire Cover Company, The, Canton, Ohio. Automobile tire covers. 239,665; Mar. 6; Serial No. 240,527; published Dec. 27, 1927. Class 35.

Cadolle Freres (Société à Responsabilité Limitée), Paris, France. Perfume, toilet water, face powder, etc. 239,532; Mar. 6; Serial No. 257,048; published Dec. 20, 1927. Class 6.

Campbell, John, & Co., New York, N. Y. Compound for wetting out, boiling out, bleaching out, etc. 239,452; Mar. 6; Serial No. 257,162; published Dec. 20, 1927. Class 6.
Carnrick, G. W., Co., New York, N. Y. Periodical. 239,429; Mar. 6; Serial No. 256,448; published Dec. 13, 1927. Class 38.
Carter Carburetor Corporation, St. Louis, Mo. Carburetors. 239,618; Mar. 6; Serial No. 257,660; published Dec. 27, 1927. Class 23.
Carter, William S., doing business as Carter Company, New York, N. Y. Depilatory. 239,592; Mar. 6; Serial No. 254,667; published Dec. 20, 1927. Class 6.
Central Ohio Paper Company, The, Columbus, Ohio. Bond papers and writing papers. 239,413; Mar. 6; Serial No. 254,121; published Dec. 27, 1927. Class 37.
Century Chemical Co., Inc., New York, N. Y. Insecticide. 239,459; Mar. 6; Serial No. 256,660; published Dec. 27, 1927. Class 6.
Charlestein, Julius, doing business as The Dental Agency, Philadelphia, Pa. Burrs, mirrors, hand pieces, etc. 239,478; Mar. 6; Serial No. 254,382; published Dec. 20, 1927. Class 44.
Charmozol Chemical Co. (See Smithline, Herman.)
Chase Bag Co., New York, N. Y. Twine. 239,395; Mar. 6; Serial No. 257,222; published Dec. 27, 1927. Class 7.
Chenevert and Company, Detroit, Mich. Cruisers, launches, speed boats, and other power boats. 239,632; Mar. 6; Serial No. 256,808; published Dec. 27, 1927. Class 19.
Cheney Brothers, South Manchester, Conn. Textile and pile fabrics. 239,495–6; Mar. 6; Serial Nos. 256,859–60; published Dec. 13, 1927. Class 42.
Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 239,617; Mar. 6; Serial No. 257,661; published Dec. 27, 1927. Class 42.
Chicago Mail Order Company, Chicago, Ill. Men's hosiery, underwear, and sweaters. 239,447; Mar. 6; Serial No. 256,334; published Dec. 27, 1927. Class 39.
Chipman's, Chas., Sons Co., Inc., New York, N. Y. Hosiery. 239,470; Mar. 6; Serial No. 256,809; published Dec. 20, 1927. Class 39.
Choquet, Alice, Paris, France. Perfumes and toilet waters. 239,596; Mar. 6; Serial No. 254,172; published Dec. 27, 1927. Class 6.
Chummy Chew Company, The. (See Rader, Paul C.)
Cincinnati Ice Pick & Tong Mfg. Co. (See Ackerman, Michael.)
Clark, Charles W., Westfield, Mass. Washing powder. 239,406; Mar. 6; Serial No. 255,434; published Nov. 29, 1927. Class 4.
Cleanerine Company, Nashville, Tenn. Preparation for cleaning furniture, etc. 239,408; Mar. 6; Serial No. 255,161; published Dec. 6, 1927. Class 4.
Cochrane Corporation, Philadelphia, Pa. Granular mineral matter, etc. 239,681; Mar. 6; Serial No. 255,967; published Dec. 27, 1927. Class 31.
Cohn-Hopkins, Inc., San Diego, Calif. Canned tuna fish, canned sardines. 239,710; Mar. 6. Class 46.
Collins, Fred B., Wayland, Mass. Radio transmitting and receiving sets, etc. 239,385; Mar. 6; Serial No. 255,435; published Dec. 27, 1927. Class 21.
Columbian Rope Company, Auburn, N. Y. Rope, twine, and cordage. 239,527; Mar. 6; Serial No. 238,639; published Dec. 27, 1927. Class 7.
Commonwealth Brass Corporation, Detroit, Mich. Metal valves, elbows, T's, and crosses. 239,707; Mar. 6. Class 13.
Conde Nast Publications, Inc., The, New York, N. Y., and Greenwich, Conn. Magazine section. 239,421; Mar. 6; Serial No. 255,594; published Nov. 29, 1927. Class 38.
Conlon, Charles S., doing business as The Wunda Wiper Company, Portsmouth, N. H. Treated dust cloths. 239,573; Mar. 6; Serial No. 252,548; published Dec. 27, 1927. Class 4.
Conselman, William M., Los Angeles, Calif. Cartoon strips. 239,684; Mar. 6; Serial No. 255,295; published Nov. 22, 1927. Class 38.
Consolidated Features, Inc., New York, N. Y. Periodical. 239,422; Mar. 6; Serial No. 255,620; published Nov. 29, 1927. Class 38.
Consolidated Gas Company of New York, New York, N. Y. Periodical bulletin. 239,688; Mar. 6; Serial No. 254,690; published Dec. 20, 1927. Class 38.
Consolidated Millinery Company, Chicago, Ill. Ladies' and misses' hats. 239,572; Mar. 6; Serial No. 252,549; published Dec. 20, 1927. Class 39.
Consolidated Rendering Company, doing business as Atlantic Packing Co., Boston, Mass. Fertilizers and agricultural chemicals. 239,537; Mar. 6; Serial No. 256,662; published Dec. 27, 1927. Class 10.
Constructor, Incorporated, The, Washington, D. C. Magazines. 239,643; Mar. 6; Serial No. 256,607; published Dec. 13, 1927. Class 38.
Continental Electric Co. Inc., Newark, N. J. Dynamo-electric machines, motors, generators, etc. 239,514; Mar. 6; Serial No. 222,012; published Dec. 27, 1927. Class 21.
Convertex Corporation, The, New York, N. Y. Cotton pongee in the piece. 239,648; Mar. 6; Serial No. 246,599; published Dec. 27, 1927. Class 42.
Correct Printing Company, New York, N. Y. Publication. 239,569; Mar. 6; Serial No. 252,689; published Nov. 29, 1927. Class 38.
Coudurier, Fructus & Descher, Lyon, France. Silk piece goods, silks and metal, and velvets and metal in the piece. 239,624–5; Mar. 6; Serial Nos. 257,052–3; published Dec. 13, 1927. Class 42.
Cowen, M., Co., New York, N. Y. Coats, suits, riding habits, etc. 239,477; Mar. 6; Serial No. 256,451; published Dec. 27, 1927. Class 39.
Craftwoven Fabrics, Inc., Taunton, Mass. Dresses. 239,404; Mar. 6; Serial No. 255,641; published Dec. 20, 1927. Class 39.
Crystal Oil Company. (See Jacobs, Wilbert B.)
Daglias, William, doing business as Beacon Coat Mfg. Co., Boston, Mass. Coats. 239,553; Mar. 6; Serial No. 250,490; published Dec. 20, 1927. Class 39.
Darling, Velva G., San Luis Obispo, Calif. Series of articles. 239,674–5; Mar. 6; Serial Nos. 257,226–7; published Dec. 13, 1927. Class 38.
Dean Medicine Company, Milwaukee, Wis. Mentholated cough drops. 69,992; renewed July 21, 1928.
Deleto Company, The, Baltimore, Md. Hand-cleaning preparation. 239,679; Mar. 6; Serial No. 256,766; published Dec. 27, 1927. Class 4.
Delettrez of France, Inc., New York, N. Y. Pyroxylin products. 239,546; Mar. 6; Serial No. 248,882; published Dec. 27, 1927. Class 2.
Dental Agency, The. (See Charlestein, Julius.)
Detectol Manufacturing Company, Inc., The, Carlstadt, N. J. Chemical set for analyzing or detecting wood alcohol. 239,503; Mar. 6; Serial No. 255,438; published Dec. 27, 1927. Class 26.
Di Santo, Joseph, doing business as Di Santo & Co., Duluth, Minn. Cigars. 239,506; Mar. 6; Serial No. 254,578; published Dec. 27, 1927. Class 17.
Dolge, C. B., Co., The, Westport, Conn. Deodorizing blocs. 239,568; Mar. 6; Serial No. 252,693; published Dec. 27, 1927. Class 6.
Domestic Mills Paper Company, New York, N. Y. Paper napkins. 239,445; Mar. 6; Serial No. 256,455; published Dec. 27, 1927. Class 37.
Douglas, John, Co., The, Cincinnati, Ohio. Vitreous-china water-closet bowls and lavatories. 70,009; renewed July 21, 1928.
Dunham, C. A., Company, Chicago, Ill. Steam heating apparatus. 239,547; Mar. 6; Serial No. 248,957; published Dec. 27, 1927. Class 34.
Edmanson, Bates & Company, Limited, Toronto, Ontario, Canada. Mouth washes. 239,542; Mar. 6; Serial No. 248,481; published Dec. 20, 1927. Class 6.
Electric Appliance Co., The, Burlington, Kans. Insoles. 239,558; Mar. 6; Serial No. 251,181; published Dec. 20, 1927. Class 39.
Electric Refrigeration Corporation. (See Kelvinator Corporation, assignor.)
Empire Silk Co., New York, N. Y. Silk piece goods. 239,619; Mar. 6; Serial No. 257,620; published Dec. 27, 1927. Class 42.
England, August O., West Chester, Pa. Candy confection. 239,657; Mar. 6; Serial No. 244,007; published Apr. 12, 1927. Class 46.
Eno Rubber Corporation, Los Angeles, Calif. Rubber inflatable play balls. 239,382; Mar. 6; Serial No. 255,801; published Dec. 20, 1927. Class 22.
Evans Case Company, North Attleboro, Mass. Pyrophoric pocket lighters. 239,485; Mar. 6; Serial No. 253,836; published Dec. 27, 1927. Class 34.
Faichney Instrument Corporation, Watertown, N. Y. Clinical and medical thermometers. 239,481; Mar. 6; Serial No. 253,876; published Dec. 20, 1927. Class 44.
Fargo-Hallowell Shoe Co., Chicago, Ill. Shoes. 239,488; Mar. 6; Serial No. 231,145; published Nov. 30, 1926. Class 39.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 239,492; Mar. 6; Serial No. 256,925; published Dec. 13, 1927. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 239,493; Mar. 6; Serial No. 256,922; published Dec. 13, 1927. Class 42.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper. 239,531; Mar. 6; Serial No. 257,155; published Dec. 27, 1927. Class 37.
Frankl Galleries, New York, N. Y. Tables, chairs, desks, etc. 239,562; Mar. 6; Serial No. 252,953; published Dec. 27, 1927. Class 32.
Freeman, Miller, San Francisco, Calif. Magazine. 239,388; Mar. 6; Serial No. 253,586; published Dec. 27, 1927. Class 38.
Freeman, Miller, San Francisco, Calif. Magazine. 239,399; Mar. 6; Serial No. 253,585; published Dec. 27, 1927. Class 38.
Freeman, Miller, San Francisco, Calif. Magazine. 239,602–3; Mar. 6; Serial Nos. 253,583–4; published Dec. 27, 1927. Class 38.
Fremont Mills, The, Fremont, Nebr. Wheat flour. 239,621; Mar. 6; Serial No. 257,355; published Dec. 20, 1927. Class 46.
Fuller Bros. (See Salk, Benjamin.)
Ganga Co., The. (See Burstyn, Libby.)
Geier, P. A., Company, The, Cleveland, Ohio. Electric suction cleaners. 239,397; Mar. 6; Serial No. 256,522; published Dec. 27, 1927. Class 21.
Gentil, J. J., G. m. b. H., Berlin, Germany. Wearing apparel. 239,658; Mar. 6; Serial No. 243,804; published Dec. 27, 1927. Class 39.
Gentz, Will T., Hollywood, Calif. Newspaper articles. 239,663; Mar. 6; Serial No. 252,901; published Dec. 13, 1927. Class 38.

Gilboa Publishing Corporation, New York, N. Y. Magazine. 239,423; Mar. 6; Serial No. 255,846; published Nov. 29, 1927. Class 38.
Glass, Henry, & Co., New York, N. Y. Cotton piece goods, silk and cotton piece goods, etc. 239,491; Mar. 6; Serial No. 257,009; published Dec. 13, 1927. Class 42.
Goiset et Cie., doing business as R. Goiset et Cie., Paris, France. Neckties. 239,660; Mar. 6; Serial No. 242,532; published Dec. 20, 1927. Class 39.
Gold Hosiery Company, New York, N. Y. Hosiery and underwear. 239,613; Mar. 6; Serial No. 255,061; published Dec. 27, 1927. Class 39.
Golden, William, Oak Park, Ill. Hosiery. 239,557; Mar. 6; Serial No. 251,136; published Dec. 20, 1927. Class 39.
Goldie Maid Garment Company, Los Angeles, Calif. Dresses, aprons, etc. 239,611; Mar. 6; Serial No. 255,508; published Dec. 27, 1927. Class 39.
Gossett Dyeing & Finishing Co., New York, N. Y. Silk and cotton piece goods, etc. 239,620; Mar. 6; Serial No. 257,577; published Dec. 20, 1927. Class 42.
Gould, Doctor A. R., Inc., San Francisco, Calif. Fruits and vegetables. 239,571; Mar. 6; Serial No. 252,598; published Dec. 27, 1927. Class 46.
Gray-Von Allmen Sanitary Milk Company, Inc., Louisville, Ky. Butter, milk, cream, buttermilk, etc. 239,701; Mar. 6. Class 46.
Graywood's Chemical Company, Masontown, Pa. Liniment. 239,698; Mar. 6; Serial No. 255,708; published Dec. 20, 1927. Class 6.
Greenfeld, Isador S., New York, N. Y. Union suits, pajamas, and nightshirts. 239,432; Mar. 6; Serial No. 256,819; published Dec. 20, 1927. Class 39.
Grether, Paul W., St. Louis, Mo. Medicinal pills. 239,552; Mar. 6; Serial No. 239,552; published Dec. 20, 1927. Class 6.
Griffith-Durney Co., San Francisco, Calif. Canned fruits. 69,771; renewed July 7, 1928.
Griffith-Durney Co., San Francisco, Calif. Canned fruits and vegetables. 69,772; renewed July 7, 1928.
Grossman, Isidore, doing business as Grossman Clothing Co., New York, N. Y. Topcoats. 239,471; Mar. 6; Serial No. 256,776; published Dec. 20, 1927. Class 39.
Groves & Rood, Chicago, Ill. Leather shoes. 239,672–3; Mar. 6; Serial Nos. 239,471–2; published Dec. 20, 1927. Class 39.
Grünthal, Julius, Berlin, Germany, assignor to Lingner-Werke Aktiengeselischaft, Dresden, Germany. Remedies for constipation. 67,972; renewed Mar. 3, 1928.
Guerlain Perfumery Corporation of New York, New York, N. Y. Perfume. 239,458; Mar. 6; Serial No. 256,868; published Dec. 27, 1927. Class 6.
Hager, Clark & Co., New York, N. Y. Woolen and worsted piece goods. 239,705; Mar. 6. Class 42.
Halsted, H., and E. Kaufman, Buffalo, N. Y. Confection. 239,570; Mar. 6; Serial No. 252,599; published Dec. 20, 1927. Class 46.
Hamblin & Russell Mfg. Co., Worcester, Mass. Kitchen strainers and fry baskets. 239,380; Mar. 6; Serial No. 255,991; published Dec. 27, 1927. Class 13.
Harper, Thos., & Sons, Ltd., London, to Thomas Harper & Sons, Limited, Redditch, England. Crewel needles for hand sewing. 67,702; renewed Feb. 18, 1928.
Harper, Thomas, & Sons Ltd., London, England, to Thomas Harper & Sons, Limited, Redditch, England. Hand sewing needles and knitting needles. 68,431; renewed Apr. 7, 1928.
Harrington & Waring, New York, N. Y. Hosiery. 239,606; Mar. 6; Serial No. 256,188; published Dec. 20, 1927. Class 39.
Harris, A. W., Oil Company, Providence, R. I. Lubricating oils and greases. 239,483; Mar. 6; Serial No. 253,594; published Nov. 15, 1927. Class 15.
Havens-Blair-Cartlich, Kansas City, Mo. Boys' neckties, suits, overalls, etc. 239,543; Mar. 6; Serial No. 248,635; published Dec. 20, 1927. Class 39.
Healozol Medicine Company. (See Smithline, Herman.)
Hermetite Corporation, New York, N. Y. Boots and shoes. 239,594; Mar. 6; Serial No. 254,490; published Dec. 27, 1927. Class 39.
Hickey, John P., New York, N. Y. Shoe-shining outfit. 239,375; Mar. 6; Serial No. 253,997; published Nov. 22, 1927. Class 4.
Hindes & Gross, New York, N. Y. Clothing. 239,403; Mar. 6; Serial No. 256,083; published Dec. 20, 1927. Class 39.
Home Stretch Publishing Company. (See Meyer, George J.)
Honey Gold Co., The, Akron, Ohio. Cosmetic lotion. 239,525; Mar. 6; Serial No. 238,373; published Dec. 27, 1927. Class 6.
Hooker, Duncan C., doing business as The Hooker Manufacturing Company, Hartford, Conn. Cleaners for firearms. 239,574; Mar. 6; Serial No. 252,509; published Dec. 13, 1927. Class 9.
Hormel, Geo. A., & Company, Austin, Minn. Ham. 239,415; Mar. 6; Serial No. 254,851; published Dec. 20, 1927. Class 46.
Horton Manufacturing Co., The, Bristol, Conn. Steel shafts for golf clubs. 239,544; Mar. 6; Serial No. 248,696; published Dec. 20, 1927. Class 22.
Hosmer, Calvin, Stolte Co., Boston, Mass. Cake and pastry flour. 239,535; Mar. 6; Serial No. 256,728; published Dec. 20, 1927. Class 46.
Hunt, C. W., Company, Inc., New York, N. Y. Fiber rope. 69,699; renewed June 30, 1928.
Hunt-Spiller Manufacturing Corporation, Boston, Mass. Metal castings for clutch parts, brake drums, etc. 239,656; Mar. 6; Serial No. 244,230; published Dec. 20, 1927. Class 14.
Hurd, George B., & Co., assignor to George B. Hurd & Co. Inc., New York, N. Y. Writing paper and envelopes. 69,628; renewed June 23, 1928.
Hurd, George B. & Co., assignor to George B. Hurd & Co. Inc., New York, N. Y. Writing paper and envelopes. 69,663–4; renewed June 30, 1928.
Hvid Ice Machine Corporation, Chicago, Ill. Refrigerating apparatus. 239,555; Mar. 6; Serial No. 250,802; published Dec. 27, 1927. Class 31.
International Feature Service, Inc., New York, N. Y. Newspaper cartoons. 239,435; Mar. 6; Serial No. 256,871; published Dec. 13, 1927. Class 38.
International Milling Company. (See Wells Flour Milling Company, assignor.)
International Shoe Polish, Inc., Lynn, Mass. Shoe polishing and dressing material. 239,390; Mar. 6; Serial No. 253,539; published Dec. 6, 1927. Class 4.
J. and J. Beauty Culture, The, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 239,454; Mar. 6; Serial No. 257,010; published Dec. 27, 1927. Class 6.
Jaciel Perfumers, Inc., New York, N. Y. Powder puffs. 239,607; Mar. 6; Serial No. 256,124; published Dec. 20, 1927. Class 29.
Jacobs, Wilbert B., doing business as Crystal Oil Company, Emlenton, Pa. Top dressings, soaps, and cleaning compounds for metal and wooden surfaces. 239,407; Mar. 6; Serial No. 255,307; published Nov. 29, 1927. Class 4.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Suits, overcoats. 239,453 Mar. 6; Serial No. 257,100; published Dec. 27, 1927. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Overcoats and suits. 239,467; Mar. 6; Serial No. 257,099; published Dec. 20, 1927. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Suits and overcoats. 239,468; Mar. 6; Serial No. 257,069; published Dec. 20, 1927. Class 39.
Jewish Advocate Publishing Co., Boston, Mass. Publication. 235,641; Mar. 6; Serial No. 256,674; published Dec. 13, 1927. Class 38.
Johns Chemical Co. (See Switalski, John A.)
Jonas & Colver, Limited, assignor to Jonas & Colver, Limited, Sheffield, England. Steel and iron. 67,115; renewed Jan. 14, 1928.
Kahn Manufacturing Company, Mobile, Ala. Overalls. 69,371; renewed June 9, 1928.
Kanter, Robert, doing business as Robert Kanter Co., New York, N. Y. Aprons and collar sets. 239,469; Mar. 6; Serial No. 256,940; published Dec. 27, 1927. Class 39.
Kass, A. & B., New York, N. Y. Ladies' fur coats. 239,616; Mar. 6; Serial No. 254,636; published Dec. 27, 1927. Class 39.
Kayser, Julius, & Co., New York, N. Y. Knit silk underwear. 69,817; renewed July 7, 1928.
Kayser, Julius, & Co., New York, N. Y. Knit silk gloves and knit cotton gloves. 69,911; renewed July 14, 1928.
Kelvinator Corporation, assignor to Electric Refrigeration Corporation, Detroit, Mich. Electrically-operated mechanical refrigerators. 239,666–7; Mar. 6; Serial Nos. 240,264–5; published Dec. 20, 1927. Class 31.
Kesbec Sales Company, New York, N. Y. Gasoline and motor oils and greases. 239,663; Mar. 6; Serial No. 241,624; published Dec. 27, 1927. Class 15.
King Features Syndicate, Inc., New York, N. Y. Magazine. 239,433; Mar. 6; Serial No. 256,874; published Dec. 27, 1927. Class 38.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 239,436; Mar. 6; Serial No. 256,873; published Dec. 13, 1927. Class 38.
Kinney Manufacturing Co., Boston and Jamaica Plain, Boston, Mass. Pumps. 239,627; Mar. 6; Serial No. 257,016; published Dec. 27, 1927. Class 23.
Klugman, Morris, Los Angeles, Calif. Ladies' undergarments. 239,595; Mar. 6; Serial No. 254,459; published Dec. 20, 1927. Class 39.
Knox Company, The, Kansas City, Mo. Medicine. 239,462; Mar. 6; Serial No. 256,410; published Dec. 20, 1927. Class 6.
Korn Pop Remedy Company, St. Louis, Mo. Dry-cleaning compound. 239,411; Mar. 6; Serial No. 254,493; published Dec. 13, 1927. Class 4.
Kretschan, Anton, doing business as Snappy Curler Co., Chicago, Ill. Nonelectrical hair curlers. 239,700; Mar. 6; Serial No. 255,516; published Dec. 27, 1927. Class 40.
Kron-Glas Company, New Orleans, La. Soap in liquid form. 239,434; Mar. 6; Serial No. 256,782; published Dec. 13, 1927. Class 4.
Laboratories Deglaude, Paris, France. Remedy for the treatment of affections of the heart. 239,409; Mar. 6; Serial No. 254,780; published Dec. 20, 1927. Class 6.
Lake Chemical Co., New Brunswick, N. J. Foot powder. 69,947 renewed July 21, 1928.

Lascoff, Jacob L., assignor to J. L. Lascoff & Son, New York, N. Y. Certain named medicines. 69,632; renewed June 23, 1928.
La Société Anonyme The Destrooper's Raincoat Company, Brussels and Ixelles-Brussels, Belgium. Clothing. 239,523; Mar. 6; Serial No. 237,444; published Dec. 20, 1927. Class 39.
Lay, Joseph, Company, The, Ridgeville, Ind. Brooms and brushes. 69,552; renewed June 23, 1928.
Lebbe, Fernand, Brussels, Belgium. Gloves. 239,585; Mar. 6; Serial No. 255,310; published Dec. 27, 1927. Class 39.
Lehigh-Whitehall Soap Company, Allentown, Pa. Soap, soap flakes, soap powders, etc. 239,439; Mar. 6; Serial No. 256,676; published Dec. 13, 1927. Class 4.
Lenox, Incorporated, Trenton, N. J. Plates, platters, cover dishes, etc. 239,647; Mar. 6; Serial No. 247,743; published Dec. 27, 1927. Class 30.
Les Etablissements Poulenc Frères, Paris, France. Medicinal preparation. 239,581; Mar. 6; Serial No. 251,915; published Dec. 27, 1927. Class 6.
Libby, McNeill & Libby. (See North Alaska Salmon Co., assignor.)
Lightfoot Schultz Company, doing business as Mordaunt, Hoboken, N. J. Astringents, bleach creams, beauty creams, face powders, etc. 239,586; Mar. 6; Serial No. 255,183; published Dec. 27, 1927. Class 6.
Lincoln, Emma P., Washington, D. C. Advertising copy. 239,427; Mar. 6; Serial No. 256,322; published Dec. 13, 1927. Class 38.
Lingner-Werke Aktiengesellschaft. (See Grünthal, Julius, assignor.)
Livingstone, Matthew H., New York, N. Y. Ointment. 239,587; Mar. 6; Serial No. 255,116; published Dec. 27, 1927. Class 6.
Lock, John H., Co., Inc., The, New York, N. Y. Metal polish, soap, etc. 239,659; Mar. 6; Serial No. 242,902; published Dec. 27, 1927. Class 4.
Lombardo, John L., doing business as J. L. Lombardo Co., Buffalo, N. Y. Perfume. 239,451; Mar. 6; Serial No. 257,173; published Dec. 20, 1927. Class 6.
Los Angeles Chemical Company, Los Angeles, Calif. Chemical preparation. 239,699; Mar. 6; Serial No. 255,520; published Dec. 27, 1927. Class 6.
Lynx Corporation, New York, N. Y. Camel's-hair fabrics. 239,534; Mar. 6; Serial No. 256,733; published Dec. 20, 1927. Class 42.
Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. 239,635; Mar. 6; Serial No. 257,425; published Dec. 27, 1927. Class 46.
Magic Brush, Inc., The, New York, N. Y. Polishing brush. 239,614; Mar. 6; Serial No. 254,970; published Dec. 20, 1927. Class 29.
Mallinckrodt Chemical Works, St. Louis, Mo. Albusol, a solution of egg albumen. 239,593; Mar. 6; Serial No. 254,638; published Dec. 20, 1927. Class 6.
Mallinson, H. R., & Co. Inc. (See Migel, M. C., & Co., assignor.)
Mangels, W. F., Company, New York and Coney Island, N. Y. Car to be used in amusement places. 239,484; Mar. 6; Serial No. 253,706; published Dec. 20, 1927. Class 22.
Martin, Giles W. O., doing business as Giles Martin Company, East Boston, Mass. Saponaceous preparation. 239,373; Mar. 6; Serial No. 254,260; published Dec. 6, 1927. Class 4.
Mason and Carpenter, Los Angeles, Calif. Dresses. 239,615; Mar. 6; Serial No. 254,857; published Dec. 27, 1927. Class 39.
Mast, Jack, doing business as Masto Products Company, New York, N. Y. Washing powders. 239,428; Mar. 6; Serial No. 256,414; published Dec. 13, 1927. Class 4.
Masto Products Company. (See Mast, Jack.)
May Department Stores Company, The, St. Louis, Mo. Sanitary napkins. 239,539; Mar. 6; Serial No. 256,631; published Dec. 20, 1927. Class 44.
May Hosiery Mills, New York, N. Y., and Burlington, N. C. Hosiery. 239,695; Mar. 6; Serial No. 253,851; published Dec. 27, 1927. Class 39.
Mayerle, George, San Francisco, Calif. Eye and lens protectors. 239,387; Mar. 6; Serial No. 255,016; published Dec. 20, 1927. Class 44.
McAtee-Newell Coffee Company, Inc., The, Bloomington, Ill. Spices, seasonings, etc. 239,424; Mar. 6; Serial No. 255,920; published Dec. 20, 1927. Class 46.
McEwen, Irving, Omaha, Nebr. Hand and face lotion, face cream, face powder, etc. 239,456; Mar. 6; Serial No. 256,961; published Dec. 27, 1927. Class 6.
McLaren-Consolidated Cone Corporation, Dayton, Ohio. Glass containers. 239,480; Mar. 6; Serial No. 254,003; published Dec. 13, 1927. Class 33.
Mergott, J. E., Company, Newark, N. J. Bag-frame locks, purse-frame and pocketbook-frame locks. 239,626; Mar. 6; Serial No. 257,018; published Dec. 27, 1927. Class 25.
Merriam, Edward P., doing business as M. H. Merriam & Company, Lexington, Mass. Tape for binding. 239,584; Mar. 6; Serial No. 255,344; published Dec. 20, 1927. Class 40.
Meyer, George J., doing business as Home Stretch Publishing Company, San Francisco, Calif. Publication. 239,419; Mar. 6; Serial No. 255,508; published Nov. 29, 1927. Class 38.
Meyrowitz, E. B., Inc., New York, N. Y. Thermometers and barometers. 239,504; Mar. 6; Serial No. 255,386; published Dec. 27, 1927. Class 26.
Michelin et Cie., Clermont-Ferrand (Puy-de-Dome), France. Tires, inner tubes, and casings. 239,576–7; Mar. 6; Serial Nos. 252,162–3; published Dec. 27, 1927. Class 35.
Michigan Photo Company. (See Momburg, Alfred G.)
Midland Chemical Laboratories, Inc., The, Dubuque, Iowa. Cleansing and scrubbing preparation. 239,444; Mar. 6; Serial No. 256,471; published Dec. 13, 1927. Class 4.
Migel, M. C., & Co., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Broad silks. 67,746; renewed Feb. 18, 1928.
Migel, M. C., & Co., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Broad silks. 67,748; renewed Feb. 18, 1928.
Milk Producers Association of Central California, Modesto and Stockton, Calif. Milk and butter. 239,686; Mar. 6; Serial No. 254,859; published Dec. 20, 1927. Class 46.
Milner, W. L., Company, The, Toledo, Ohio. Dresses, suits, and coats. 239,608; Mar. 6; Serial No. 255,857; published Dec. 20, 1927. Class 39.
Moline Pressed Steel Co., East Moline, Ill. Toy sand loaders, pile drivers, etc. 239,554; Mar. 6; Serial No. 250,703; published Dec. 20, 1927. Class 22.
Momburg, Alfred G., doing business as Michigan Photo Company, Bay City, Mich. Photographic prints. 239,567; Mar. 6; Serial No. 252,781; published Nov. 22, 1927. Class 38.
"Mona Lees" Chemic-Cosmetical Co., New York, and Bronx, N. Y. Face creams. 239,519; Mar. 6; Serial No. 230,945; published Dec. 27, 1927. Class 6.
Montgomery Ward & Co. Incorporated, Chicago, Ill. Tires. 239,497; Mar. 6; Serial No. 256,830; published Dec. 27, 1927. Class 35.
Montgomery Ward & Co. Incorporated, Chicago, Ill. Cream separators. 239,631; Mar. 6; Serial No. 256,829; published Dec. 27, 1927. Class 23.
Monticello Laboratories, Monticello, Ark. Hair color restorer and tonic. 239,709; Mar. 6. Class 6.
Mordaunt. (See Lightfoot Schultz Company.)
Mortgage Security Corporation of America, Norfolk, Va. Real-estate trust deed note. 239,521; Mar. 6; Serial No. 235,745; published Dec. 20, 1927. Class 38.
Mosely & Motley Milling Co., Rochester, N. Y. Wheat flour. 69,791–2; renewed July 7, 1928.
Mox, Incorporated, Los Angeles, Calif. Hardware and plumbing and steam-fitting supplies. 239,702; Mar. 6. Class 13.
Murphy, Frank M., Fairmont, W. Va. Asthma and bronchial tablets. 239,548; Mar. 6; Serial No. 249,981; published Dec. 27, 1927. Class 6.
Naamlooze Vennootschap International Perfumery Company, Amsterdam, Netherlands. Soaps. 239,526; Mar. 6; Serial No. 238,516; published Dec. 13, 1927. Class 4.
National Acme Co., The, Cleveland, Ohio. Filling machines for filling receptacles with fluids and semifluids, etc. 239,507; Mar. 6; Serial No. 254,469; published Dec. 27, 1927. Class 23.
National Gum Co., Inc., The, Newark, N. J. Chewing gum. 239,512; Mar. 6; Serial No. 219,678; published Dec. 27, 1927. Class 46.
National Petroleum Exchange, Knoxville, Iowa. Gasoline, kerosene, oils, and greases. 239,379; Mar. 6; Serial No. 256,050; published Dec. 27, 1927. Class 15.
National Rifle Association, Washington, D. C. Publication. 239,550; Mar. 6; Serial No. 250,092; published Nov. 22, 1927. Class 38.
NEA Service, Inc., Cleveland, Ohio. Comic strip. 239,676; Mar. 6; Serial No. 257,076; published Dec. 13, 1927. Class 38.
Nellie's Beauty Parlor. (See Berglof, Matilda N.)
New Hartford Knitting Company, Utica, N. Y. Knitted underwear. 239,401; Mar. 6; Serial No. 256,203; published Dec. 20, 1927. Class 39.
New Haven Clock Co., The, New Haven, Conn. Clocks. 239,378; Mar. 6; Serial No. 256,051; published Dec. 27, 1927. Class 27.
Newspaper Feature Service, Inc., New York, N. Y. Newspaper cartoons. 239,487; Mar. 6; Serial No. 256,880; published Dec. 27, 1927. Class 38.
Newspaper Feature Service, Inc., New York, N. Y. Newspaper cartoons. 239,677–8; Mar. 6; Serial Nos. 256,881–2; published Dec. 13, 1927. Class 38.
North Alaska Salmon Co., San Francisco, Calif., assignor to Libby, McNeill & Libby, Chicago, Ill. Canned salmon. 69,981; renewed July 21, 1928.
Northwestern Fisheries Company, Seattle, Wash., assignor to Booth Fisheries Company, Chicago, Ill. Canned salmon. 67,482; renewed Feb. 4, 1928.
Numol, Limited, Newcastle-on-Tyne, England. Food for invalids and children. 239,639; Mar. 6; Serial No. 256,740; published Dec 20, 1927. Class 46.
Numsen, Wm., & Sons, Inc., Baltimore, Md. Canned or preserved edibles. 30,728; renewed Oct. 19, 1927.
Numsen, Wm., & Sons, Inc., Baltimore, Md. Oysters, meats, fruits, jellies, etc. 30,887; renewed Nov. 22, 1927.
Nye Company, Chicago, Ill. Artificial-anus apparatus, tourniquets, etc. 239,524; Mar. 6; Serial No. 238,230; published Dec. 20, 1927. Class 44.
Offley, Forrester & Co., London, England, assignor, by mesne assignments, to Offley, Forrester Limitada, Vila Nova de Gaia, Portugal. Port wine. 62,026; renewed Apr. 16, 1927.

Oldman Brothers, New York, N. Y. Magazine. 239,687; Mar. 6; Serial No. 254,764; published Dec. 6, 1927. Class 38.
Osgood Bros., doing business as Osgood's Drug Stores, Oakland, Calif. Medicinal tea. 239,466; Mar. 6; Serial No. 256,054; published Dec. 27, 1927. Class 6.
Packer Manufacturing Company, Inc., The, New York, N. Y. Pine-tar shampoo. 239,498; Mar. 6; Serial No. 256,482; published Dec. 20, 1927. Class 6.
Paris Company, The, Salt Lake City, Utah. Suits and overcoats. 239,486; Mar. 6; Serial No. 256,885; published Dec. 20, 1927. Class 39.
Parker Brothers Inc., Portland, Me., and Salem, Mass. Competitive card game. 239,605; Mar. 6; Serial No. 256,370; published Dec. 20, 1927. Class 22.
Parkhill Manufacturing Company, Fitchburg, Mass. Cotton and rayon piece goods. 239,392; Mar. 6; Serial No. 257,744; published Dec. 27, 1927. Class 42.
Parkley Shirt Co., Inc., New York and Brooklyn, N. Y., and Branford, Conn. Shirts. 239,446; Mar. 6; Serial No. 256,372; published Dec. 27, 1927. Class 39.
Pepperell Manufacturing Co., Biddeford, Me., assignor, by mesne assignments, to Pepperell Manufacturing Company, Boston, Mass. Bleached and unbleached cotton piece goods. 68,576; renewed Apr. 14, 1928.
Pepperell Manufacturing Co., Biddeford, Me., assignor, by mesne assignments, to Pepperell Manufacturing Company, Boston, Mass. Bleached and unbleached cotton piece goods. 68,579; renewed Apr. 14, 1928.
Pepperell Manufacturing Co., Biddeford, Me., assignor, by mesne assignments, to Pepperell Manufacturing Company, Boston, Mass. Bleached and unbleached cotton piece goods. 68,697–9; renewed Apr. 21, 1928.
Perkins Soap Company, Springfield, Mass. Soap. 239,440; Mar. 6; Serial No. 256,636; published Dec. 13, 1927. Class 4.
Personal Arts Company, Scranton, Pa. Periodicals. 239,638; Mar. 6; Serial No. 256,743; published Dec. 20, 1927. Class 38.
Photo Litho Service, New York, N. Y. Photographic prints. 239,412; Mar. 6; Serial No. 253,766; published Dec. 27, 1927. Class 38.
Pioneer Lighting Fixture Company. (See Sable, Joseph.)
Piper, Edward W., Baltimore, Md. Beverages and sirups, extracts, and concentrates and flavors for making the same. 239,396; Mar. 6; Serial No. 257,193; published Dec. 27, 1927. Class 45.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Fungicides. 239,464; Mar. 6; Serial No. 256,302; published Dec. 27, 1927. Class 6.
Portland Cordage Co., The, Portland, Oreg. Hard fibre twine and cordage for wrapping lath and the like. 239,654; Mar. 6; Serial No. 253,659; published Nov. 15, 1927. Class 7.
Pratt, Edward L., Lemoore, Calif. Publication. 239,691; Mar. 6; Serial No. 253,708; published Nov. 22, 1927. Class 38.
Pro-Chemical Laboratories, Chicago, Ill. Hair tonic. 239,463; Mar. 6; Serial No. 256,323; published Dec. 27, 1927. Class 6.
Princeton Knitting Mills, Richmond, Va. Baby set. 239,522; Mar. 6; Serial No. 236,056; published Dec. 27, 1927. Class 39.
Providence Malt Company, Providence, R. I. Malt syrup. 239,426; Mar. 6; Serial No. 256,304; published Dec. 20, 1927. Class 46.
Quartarraro, V., Inc., Brooklyn, N. Y. Olive oil. 239,713; Mar. 6. Class 46.
Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candy. 239,636; Mar. 6; Serial No. 256,967; published Dec. 27, 1927. Class 46.
Queen Cleaner Company. (See Blair, William A.)
Rader, Paul C., doing business as The Chummy Chew Company, Jacksonville, Fla. Fudge. 239,637; Mar. 6; Serial No. 256,745; published Dec. 27, 1927. Class 46.
Read, D. M., Co., The, Bridgeport, Conn. Boots, shoes, slippers, etc. 239,516; Mar. 6; Serial No. 226,683; published Dec. 27, 1927. Class 39.
Read Phosphate Company, The, Nashville, Tenn. Certain phosphate fertilizer. 68,457; renewed Apr. 7, 1928.
Rialto Packing Co. (See Boyd, J. C.)
Rising, B. D., Paper Company, Housatonic, Mass. Index, pasted, and wedding bristols, bond, ledger, and wedding papers. 239,561; Mar. 6; Serial No. 257,318; published Dec. 27, 1927. Class 37.
Rochow, F. & Co. Inc., New York, N. Y., and Houston, Tex. Preparations for washing, polishing, etc., metals, leather, etc. 239,541; Mar. 6; Serial No. 248,060; published Dec. 6, 1927. Class 4.
Rohlfs, Otto D., Seattle, Wash. Certificates of survey. 239,414; Mar. 6; Serial No. 254,476; published Dec. 27, 1927. Class 38.
Romanelis, Polichronis, Manchester, N. H. Hair lotion. 239,449; Mar. 6; Serial No. 257,316; published Dec. 20, 1927. Class 6.
Rosenbaum Company, The, Pittsburgh, Pa. Coats, vests, trousers, and overcoats. 239,642; published Dec. 27, 1927. Class 39.
Rosenbaum Company, The, Pittsburgh, Pa. Coats, vests, trousers, and overcoats. 239,472; Mar. 6; Serial No. 256,642; published Dec. 27, 1927. Class 39.
Rosenbaum Company, The, Pittsburgh, Pa. Topcoats and overcoats. 239,474; Mar. 6; Serial No. 256,580; published Dec. 27, 1927. Class 39.
Rosenbaum Company, The, Pittsburgh, Pa. Coats, vests, trousers, and overcoats. 239,600–2; Mar. 6; Serial Nos. 256,421–3; published Dec. 27, 1927. Class 39.
Rosenheim Co. Inc., Providence, R. I. Bracelets. 239,381; Mar. 6; Serial No. 255,823; published Dec. 27, 1927. Class 28.
Royal Textile Company, Boston, Mass. Cotton piece goods. 239,711; Mar. 6. Class 42.
Rubber and Celluloid Products Company, Newark, N. J. Toothbrushes. 239,475–6; Mar. 6; Serial Nos. 256,485–6; published Dec. 27, 1927. Class 29.
Rucker, Frank L., Detroit, Mich. Malt syrups. 239,703; Mar. 6. Class 46.
Rud-Eli Drug Products Co., The. (See Rudin, Louis H.)
Rudin, Louis H., doing business as Rud-Eli Drug Products Co., The, Buffalo, N. Y. Prophylactic. 239,712; Mar. 6. Class 6.
Russell Manufacturing Company, The, Middletown, Conn. Brake-shoe liners or linings. 239,502; Mar. 6; Serial No. 255,471; published Dec. 27, 1927. Class 35.
Ryan, Lawrence, doing business as Tickler's Manufacturing Company, Seattle, Wash. Asthma medicine. 239,545; Mar. 6; Serial No. 248,931; published Dec. 27, 1927. Class 6.
Sable, Joseph, doing business as Pioneer Lighting Fixture Company, Milwaukee, Wis. Electrical lighting fixtures. 239,482; Mar. 6; Serial No. 253,216; published Dec. 27, 1927. Class 21.
Salk, Benjamin, doing business as Fuller Bros., Pawtucket, R. I. Cotton and linen slip covers for furniture. 239,508; Mar. 6; Serial No. 254,362; published Dec. 20, 1927. Class 42.
Sattler, Gustav, New York, N. Y. Bob cover in the nature of a barrette. 239,597; Mar. 6; Serial No. 253,668; published Dec. 20, 1927. Class 40.
Sauer, Theodor, Co., New York, N. Y. Extension tables. 239,393; Mar. 6; Serial No. 257,563; published Dec. 27, 1927. Class 32.
Sayia, Anthony A., New York, N. Y. Paprika. 239,680; Mar. 6; Serial No. 256,055; published Dec. 20, 1927. Class 46.
Schandein & Lind, assignor to Schandein & Lind Company, Philadelphia, Pa. Breath tablets. 65,573; renewed Oct. 8, 1927.
Schenectady Hygienic Laboratory, Schenectady, N. Y. Medicinal preparations. 239,490; Mar. 6; Serial No. 257,034; published Dec. 20, 1927. Class 6.
Schlorer Delicatessen Co. Inc., Philadelphia, Pa. Canned mincemeat, chowchow, pickles, relishes, etc. 239,708; Mar. 6. Class 46.
Schmidt, George A., Company, assignor to Geo. A. Schmidt & Co., Chicago, Ill. Certain toilet preparations. 68,119; renewed Mar. 10, 1928.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract powder. 239,565–6; Mar. 6; Serial Nos. 252,795–6; published Dec. 20, 1927. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Paper. 239,560; Mar. 6; Serial No. 257,884; published Dec. 27, 1927. Class 37.
Selz, Schwab & Company, Chicago, Ill. Leather and rubber boots and shoes. 69,982; renewed July 21, 1928.
Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis. Writing pens. 239,400; Mar. 6; Serial No. 256,223; published Dec. 27, 1927. Class 37.
Seven Day Coffee Company, New York, N. Y. Coffee. 68,429; renewed Apr. 7, 1928.
Seven Day Coffee Company, New York, N. Y. Coffee. 69,018; renewed May 12, 1928.
Sexton, John, and Company, Chicago, Ill. Toilet paper and paper napkins. 239,518; Mar. 6; Serial No. 230,265; published Dec. 27, 1927. Class 37.
Sherman & Sons Company, New York, N. Y. Batistes, broadcloths, cambrics, etc. 239,582; Mar. 6; Serial No. 251,795; published Dec. 13, 1927. Class 42.
Shirtcraft Company, Inc., The, New York, N. Y. Boys' and men's clothing. 239,603–4; Mar. 6; Serial Nos. 256,379–80; published Dec. 27, 1927. Class 39.
Smith, D. B., & Company, Inc., Utica, N. Y. Sprayers, spray pumps, and powder dusters. 239,564; Mar. 6; Serial No. 252,866; published Dec. 27, 1927. Class 23.
Smith-Ernster Laboratories, Inc., Cambridge, Mass. Dressing preparation for patent-leather shoes. 239,416; Mar. 6; Serial No. 255,207; published Dec. 13, 1927. Class 4.
Smith, L. C, & Corona Typewriters Inc., Syracuse, N. Y. Typewriter ribbons. 239,629; Mar. 6; Serial No. 256,888; published Dec. 27, 1927. Class 11.
Smithline, Herman, doing business as Healozol Medicine Company, New York, N. Y. Soap. 239,430; Mar. 6; Serial No. 256,487; published Dec. 13, 1927. Class 4.
Smithline, Herman, doing business as Charmozol Chemical Co., New York, N. Y. Soap. 239,443; Mar. 6; Serial No. 256,488; published Dec. 13, 1927. Class 4.
Smokadore Manufacturing Co., Inc., New York, N. Y. Ash receivers. 239,628; Mar. 6; Serial No. 256,889; published Dec. 13, 1927. Class 8.
Snappy Curler Co. (See Kretschan, Anton.)
Snodgrass, James B., New York, N. Y. Column of racing articles and comment appearing in newspapers and other periodicals. 239,418; Mar. 6; Serial No. 255,538; published Dec. 6, 1927. Class 83.
Société à Responsabilité Limitée "Rodier," Paris, France. Piece goods. 239,623; Mar. 6; Serial No. 257,083; published Dec. 13, 1927. Class 42.

Spielhagen, Paul, doing business as A. W. & C. W. Bullrich, Berlin, Germany. Salts. 239,591; Mar. 6; Serial No. 254,767; published Dec. 27, 1927. Class 6.
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. 239,530; Mar. 6; Serial No. 257,641; published Dec. 27, 1927. Class 37.
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. 239,434; Mar. 6; Serial No. 257,642; published Dec. 27, 1927. Class 37.
Standard Devices Inc., New York, N. Y. Frictionally-operated pyrophoric cigar lighters. 239,633; Mar. 6; Serial No. 256,795; published Dec. 27, 1927. Class 34.
Standard Insulation Company, Rutherford, N. J. Oil paper. 239,441; Mar. 6; Serial No. 256,494; published Dec. 27, 1927. Class 37.
Standard Oil Co. of New York, New York, N. Y. Oil lamps. 67,342–3; renewed Jan. 28, 1928.
Standard Publishing Company, Chicago, Ill. Syndicated section for publication in newspapers. 239,431; Mar. 6; Serial No. 256,492; published Dec. 13, 1927. Class 38.
Standard Publishing Company, Chicago, Ill. One-column newspaper fashion illustration. 239,438; Mar. 6; Serial No. 256,691; published Dec. 13, 1927. Class 38.
Standard Publishing Company, Chicago, Ill. Fashion magazine. 239,442; Mar. 6; Serial No. 256,491; published Dec. 27, 1927. Class 38.
Standard Publishing Company, Chicago, Ill. Fashion strip and cartoon. 239,446; Mar. 6; Serial No. 256,493; published Dec. 13, 1927. Class 38.
Star Safety Razor Corporation, Brooklyn, N. Y. Shaving cream. 239,682; Mar. 6; Serial No. 255,829; published Dec. 20, 1927. Class 4.
Stehli Fabrics Corporation, New York, N. Y. Silk piece goods. 239,505; Mar. 6; Serial No. 255,080; published Dec. 27, 1927. Class 42.
Stewart Battery Co., Chicago, Ill. Unitary devices for rectifying and transforming commercial power current for radio use, commonly known as battery eliminators. 239,386; Mar. 6; Serial No. 255,405; published Dec. 27, 1927. Class 21.
Steck, George, & Co., New York, N. Y. Pianos and player pianos. 69,094; renewed May 19, 1928.
Sun-Goods Company, Chicago, Ill. Mixture of raisins with shell-less nuts. 239,559. Mar. 6; Serial No. 251,309; published Dec. 13, 1927. Class 46.
Sunland Laboratories, Inc., Los Angeles, Calif. Hair rinse, shampoo. 239,706; Mar. 6. Class 6.
Swarzwald, Eugene, Los Angeles, Calif. Magazine. 239,529; Mar. 6; Serial No. 239,275; published Dec. 27, 1927. Class 38.
Switalski, John A., doing business as Johns Chemical Co., Millvale, Pittsburgh, Pa. Healing ointments. 239,455; Mar. 6; Serial No. 256,982; published Dec. 27, 1927. Class 6.
Taix, Gaston J., doing business as Taix Tamales Co., San Diego, Calif. Canned tamales. 239,640; Mar. 6; Serial No. 256,696; published Dec. 27, 1927. Class 46.
Taylor, Martha, McKeesport, Pa. Blood tonic and liniment. 239,556; Mar. 6; Serial No. 251,086; published Dec. 27, 1927. Class 6.
Textile Publishing Company, New York, N. Y. Magazine. 239,549; Mar. 6; Serial No. 250,004; published Nov. 22, 1927. Class 38.
Thompson Milling Company, Lockport, N. Y. Wheat flour. 239,377; Mar. 6; Serial No. 256,142; published Dec. 20, 1927. Class 46.
Tickler's Manufacturing Company. (See Ryan, Lawrence.)
Toil-Ora Laboratories, The, Rochester, N. Y. Powder for cleaning dentures (artificial teeth). 239,425; Mar. 6; Serial No. 255,945; published Dec. 13, 1927. Class 4.
Townsend Manufacturing Company, Inc., New York, N. Y. Pads for use in the permanent waving of the hair. 239,384; Mar. 6; Serial No. 255,728; published Dec. 20, 1927. Class 44.
Troy Chemical Co., Binghamton, N. Y. Mineral tonic for poultry and domestic animals. 239,461; Mar. 6; Serial No. 256,589; published Dec. 20, 1927. Class 6.
Tru Craft Clothes, Inc., New York, N. Y. Suits and overcoats. 239,612; Mar. 6; Serial No. 255,098; published Dec. 27, 1927. Class 39.
Twitchell-Champlin Company, The, Portland, Me., and Boston, Mass. Canned green peas, soup, consomme, etc. 239,540; Mar. 6; Serial No. 251,310; published Dec. 20, 1927. Class 46.
"2-0" Publishing Company, San Francisco, Calif. Magazines. 239,645; Mar. 6; Serial No. 256,592; published Dec. 13, 1927. Class 38.
Union Bag & Paper Company, The, New York, N. Y., assignor to Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Paper bags. 68,679; renewed Apr. 21, 1928.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Heel ball, finishing wax, and brush polish. 239,517; Mar. 6; Serial No. 230,143; published Dec. 27, 1927. Class 4.
Union Shoe Manufacturing Company, The, Chillicothe, Ohio. Boots and shoes. 239,583; Mar. 6; Serial No. 255,474; published Dec. 27, 1927. Class 39.
United States Graphite Co., The, Saginaw, Mich. Stove polish. 69,125; renewed May 19, 1928.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes. 239,589; Mar. 6; Serial No. 255,081; published Dec. 20, 1927. Class 39.
Veitch, Edward I., doing business as The Vogue Pin Company, Oakland, Calif. Hairpins. 239,598; Mar. 6; Serial No. 253,299; published Dec. 27, 1927. Class 40.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 66,941; renewed Jan. 7, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 68,101; renewed Mar. 10, 1928.
Vogue Pin Company, The. (See Veitch, Edward I.)
Wadsworth, Gerald B., Freeport, N. Y. Publications. 239,528; Mar. 6; Serial No. 238,881; published Dec. 6, 1927. Class 38.
Wuintraub, M. & M., Brooklyn, N. Y. Shoe polish. 239,402; Mar. 6; Serial No. 256,091; published Dec. 6, 1927. Class 4.
Wallerstein Company, Inc., New York, N. Y. Chillproof caramel color. 239,662; Mar. 6; Serial No. 242,328; published Dec. 20, 1927. Class 6.
Walton and Logan Company, Lynn, Mass., to A. G. Walton & Co., Incorporated, successor. Leather boots and shoes. 67,846; renewed Feb. 18, 1928.
Wamsutta Mills, New Bedford, Mass. Cotton piece goods. 239,391; Mar. 6; Serial No. 257,909; published Dec. 27, 1927. Class 42.
Washine-National-Sands, Inc., New York, N. Y. Fabric washing and cleansing compounds, etc. 239,410; Mar. 6; Serial No. 254,523; published Dec. 13, 1927. Class 4.
Weber & Friedrich, Inc., Philadelphia, Pa. Hosiery. 239,376; Mar. 6; Serial No. 253,674; published Dec. 20, 1927. Class 39.
Welco Laboratories, The, Coffeyville, Kans. Preparation for the treatment of liver complaints. 239,697; Mar. 6; Serial No. 255,947; published Dec. 27, 1927. Class 6.
Wells Flour Milling Company, Wells, assignor to International Milling Company, Minneapolis, Minn. Wheat flour. 69,030; renewed May 12, 1928.
Wells Glass Company, Kokomo, Ind. Table and counter tops of glass, etc. 239,398; Mar. 6; Serial No. 256,434; published Dec. 27, 1927. Class 33.
Welt & Sons Paper Co., assignor to Welt & Sons Paper Company, Detroit, Mich. Fiber building and sheathing paper. 69,487; renewed June 16, 1928.
Wesel, F., Manufacturing Company, Scranton, Pa. Sensitizing medium for plates used in the photomechanical industries. 239,460; Mar. 6; Serial No. 256,596; published Dec. 27, 1927. Class 6.
White, S. S., Dental Mfg. Co., The, Philadelphia, Pa.; Chicago, Ill.; New York, Brooklyn, and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; New Orleans, La.; Toronto, Canada; Buenos Ayres, Argentina; Berlin, Germany; and St. Petersburg, Russia, to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Certain dental instruments, machines, and supplies. 68,845; renewed Apr. 28, 1928.
White, S. S., Dental Mfg. Co., The, Philadelphia, Pa.; For Chicago, Ill.; New York, Brooklyn, and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; New Orleans, La.; Toronto, Canada; Buenos Ayres, Argentina; Berlin, Germany; and St. Petersburg, Russia, to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Crystalline gold tooth filling. 68,846; renewed Apr. 28, 1928.
Whitehead & Kales Company, River Rouge, Mich. Vehicle wheels. 239,630; Mar. 6; Serial No. 256,848; published Dec. 27, 1927. Class 19.
Wick Narrow Fabric Company, Philadelphia, Pa. Hatbands. 239,588; Mar. 6; Serial No. 255,083; published Dec. 20, 1927. Class 40.
Wilsdorf, Hans, Bienne, Switzerland. Watches, movements, cases, dials, and other parts of watches. 239,383; Mar. 6; Serial No. 255,783; published Dec. 27, 1927. Class 27.
Wortendyke Manufacturing Company, Richmond, Va. Gummed paper and cloth tape. 239,704; Mar. 6. Class 37.
Wortham, Roy L., Hammond, Ill. Washing powder. 239,509; Mar. 6; Serial No. 204,688; published Dec. 27, 1927. Class 4.
Wunda Wiper Company, The. (See Conlon, Charles S.)
Yonkers Family Laundry Service Corporation, Yonkers, N. Y. Periodical. 239,644; Mar. 6; Serial No. 256,599; published Dec. 13, 1927. Class 38.
Zalewski, Mary A., Detroit, Mich. Salves. 69,755; renewed June 30, 1928.
Zup Chemical Company, New York, N. Y. Preparation for use in digestive disorders. 239,499; Mar. 6; Serial No. 256,435; published Dec. 20, 1927. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Adelanto Cider Mill. (See Richardson, James R.)
Aron, Stanley M., doing business as Stanley Products Co., New York, N. Y. Blue Bird. For Carbon Paper. 33,531; Mar. 6.
Bennett, F. H., Biscuit Co., New York, N. Y. Dog Food. For Food for Dogs. 33,532; Mar. 6.
Bennett, F. H., Biscuit Co., New York, N. Y. Puppy Food. For Food for Puppies. 33,533; Mar. 6.
Chindeman, Morris, New York, N. Y. Egg B Cookies. For Cookies. 33,534; Mar. 6.
Champagne Beverage Corp., New York, N. Y. Fete Champagne. For Nonalcoholic Beverages. 33,535; Mar. 6.
De May, M., & Company, Philadelphia, Pa. Coats, Gowns & Wraps. For Coats, Gowns, and Wraps. 33,536; Mar. 6.
Do Brocky, Benjamin, Tampa, Fla. Sanitary Wrapper. For Milk. 33,537; Mar. 6.
Eagle Brand Malt Hop Company. (See Lewis, Edwin.)
Economics Laboratory, Inc., St. Paul, Minn. Soilax A Little Does a Lot. For Washing and Cleaning Compound and for Laundry Use. 33,538; Mar. 6.
Emery & Kavanagh Co., Los Angeles, Calif. White House. For Fresh Lettuce. 33,539; Mar. 6.
Emery & Kavanagh Co., Los Angeles, Calif. Ekco. For Fresh Tomatoes. 33,540; Mar. 6.
Florida Fruit Canners Inc., Frostproof, Fla. D-G. For Canned Grapefruit. 33,541; Mar. 6.
Hadley Mfg. Co., Bellefontaine, Ohio. Kant Scratch. For Polishing Powders. 33,542; Mar. 6.
Harris Boyer Company, The, Johnstown, Pa. Gobs! They Eat Em Up. For Small Cakes and Pastries. 33,543; Mar. 6.
Heptonstall, M. M., doing business as Muscle Shoals Chemical Co., Sheffield, Ala. Muscle Shoals Killbug Insect Spray. For an Insect Spray. 33,544; Mar. 6.
Kemp, Edward F., doing business as Radio Nut Company, Somerville and Boston, Mass. Seal Skin Peanuts Sealed by Nature Salted by Radio Nut Company. For Peanuts. 33,545; Mar. 6.
Le Saint, William, Evanston Station, Cincinnati, Ohio. L S Fire Proof Dry Cleaner. For Fireproof Dry Cleaner. 33,546; Mar. 6.
Lewis, Edwin, doing business as Eagle Brand Malt Hop Company, Niagara Falls, N. Y. Eagle Brand. For Malt Syrup. 33,547; Mar. 6.
Luseaux Company, Los Angeles, Calif. Luseaux . . . The Great Chick Saver and Poultry Profit Maker. For a Poultry Preparation. 33,548; Mar. 6.
McDermont & Wall, Riverside, Calif. Blue Bow. For Fresh Oranges. 33,549; Mar. 6.
Muscle Shoals Chemical Co. (See Heptonstall, M. M.)
National Tea Co., Chicago, Ill. National's Best Lemon Cookies. For Lemon Cookies. 33,550; Mar. 6.
National Tea Co., Chicago, Ill. National's Best Sugar Cookies. For Sugar Cookies. 33,551; Mar. 6.
National Tea Co., Chicago, Ill. National's Best Cocoanut Cookies. For Coconnut Cookies. 33,552; Mar. 6.
National Tea Co., Chicago, Ill. National's Best Fruit Cookies. For Fruit Cookies. 33,553; Mar. 6.
National Tea Co., Chicago, Ill. National Brand Pure Cream Butter. For Butter. 33,554; Mar. 6.
National Tea Co., Chicago, Ill. National Brand Oleomargarine. For Oleomargarine. 33,555; Mar. 6.
Par-X Service Corporation, Philadelphia, Pa. Par-X. For Coffee. 33,556; Mar. 6.
Radio Nut Company. (See Kemp, Edward F.)
Rasmussen, Geo. C., Chicago, Ill. Hazel Brand Golden Bantam Corn. For Golden Bantam Corn. 33,557; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Sugar Corn. For Sugar Corn. 33,558; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Telephone Peas. For Telephone Peas. 33,559; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Beverage Syrup Raspberry True Fruit Flavor. For Raspberry-Flavor Beverage Syrup, True Fruit Flavor. 33,560; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Red Coloring. For Bed Coloring Strawberry Shade. 33,561; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Fancy Red Salmon. For Salmon. 33,562; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Tea. For Tea. 33,563; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Red Raspberries. For Red Raspberries. 33,564; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Loganberries. For Loganberries. 33,565; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Pitted Red Cherries. For Pitted Red Cherries. 33,566; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Crushed Pineapple. For Crushed Pineapple. 33,567; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Honey. For Pure Strained Honey. 33,568; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Strawberries. For Strawberries. 33,569; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Cocoanut. For Shredded Cocoanut. 33,570; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Orange Marmalade. For Orange Marmalade. 33,571; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand French Dressing. For French Dressing. 33,572; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Tomato Catsup. For Tomato Catsup. 33,573; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Unsweetened Evaporated Milk. For Unsweetened Evaporated Milk. 33,574; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Thousand Island Dressing. For Thousand Island Dressing. 33,575; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Cocoanut Cookies. For Cocoanut Cookies. 33,576; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Fancy Head Rice. For Rice. 33,577; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Sauerkraut. For Sauerkraut. 33,578; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Fancy Red Salmon. For Salmon. 33,579; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Tomatoes. For Tomatoes. 33,580; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Ginger Ale. For Ginger Ale. 33,581; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Root Beer. For Root Beer. 33,582; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Cut Green Beans. For Green Beans. 33,583; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Fancy Green Stringless Beans. For Stringless Beans. 33,584; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Tiny Sifted Early June Peas. For Early June Peas. 33,585; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Extra Sifted Early June Peas. For Early June Peas. 33,586; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Sifted Early June Peas. For Early June Peas. 33,587; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Extra Telephone Peas. For Telephone Peas. 33,588; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Royal Anne Cherries. For Royal Anne Cherries. 33,589; Mar. 6.
Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Apricots. For Apricots. 33,590; Mar. 6.
Redlands Select Groves, Inc., Redlands, Calif. Chief. For Fresh Oranges. 33,591; Mar. 6.
Richardson, James R., doing business as Adelanto Cider Mill, Los Angeles, Calif. Adelanto. For Apple Cider. 33,592; Mar. 6.
Ritchie-Mills Packing Co., Anaheim, Calif. Western. For Fresh Oranges. 33,593; Mar. 6.
Rosedor Cigarette Co., New York, N. Y. Menthorets. For Cigarettes. 33,594; Mar. 6.
Sanford, Stephen, & Sons, Inc., Amsterdam and New York, N. Y. Sanforstan. For Rugs. 33,596; Mar. 6.
Southwestern Broom Mfg. Co., The, Evansville, Ind. Quality Seal. For Brooms. 33,595; Mar. 6.
Stanley Products Co. (See Aron, Stanley M.)

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arguto Oilless Bearing Company. (See Mellor, Norman.)
Baer & Wilde Company, The, Attleboro, Mass. Swank Collar Holder—Looks Like a Pin But Isn't. For Swank Collar Holders. 10,684; Mar. 6.
Batenburg, P. J. F., Racine, Wis. Aladdin Electro Plater. For Portable Electroplaters. 10,685; Mar. 6.
Be Vier and Co., Inc., New York, N. Y. Mark-It Memmo. For Household Commodities. 10,686; Mar. 6.
Brewer-Titchener Corporation, Cortland, N. Y. Water Freezes Here First. For Moto-Gard, an Automobile Shutter. 10,687; Mar. 6.
Brewer-Titchener Corporation, Cortland, N. Y. Extra Protection at The Vital Freezing Point. For Moto-Gard, an Automobile Shutter. 10,688; Mar. 6.
C. G. Spring & Bumper Company, The, Detroit, Mich. Over The Top With Style Bumpers. For Vehicle Bumpers. 10,689; Mar. 6.
Coca-Cola Company, The, Atlanta, Ga. Delicious and Refreshing. For Coca-Cola. 10,690; Mar. 6.
Coca-Cola Company, The, Atlanta, Ga. That 'Taste-Good' Feeling. For Coca-Cola. 10,691; Mar. 6.

Coca-Cola Company, The, Atlanta, Ga. Treat Yourself Right. For Coca-Cola. 10,692; Mar. 6.
Coca-Cola Company, The, Atlanta, Ga. Pause a Minute Refresh Yourself. For Coca-Cola. 10,693; Mar. 6.
Devlr, Joseph P., Philadelphia, Pa. State House Coffee. For Coffee. 10,694; Mar. 6.
Esposito, Ernest, doing business as Remedor Foot Powder Co., New York, N. Y. Remedor World of Ease. For a Treatment for Foot Ailments. 10,695; Mar. 6.
Jackson, Jefferson D., Candler, N. C. Hoo! Hoo!! That Surely Must Be a Firestone, Why It's Tougher Than a Pigs Nose. For Automobile Tires. 10,696; Mar. 6.
McKee, W. C., doing business as The No. 9 Chemical Company, Columbus, Ga. Roach Killer No. 9 Is The Envelope Kind. For a Roach Killer. 10,697; Mar. 6.
Mellor, Norman, doing business as Arguto Oilless Bearing Company, Philadelphia, Pa. Arguto. For Machine Bearings. 10,698; Mar. 6.
Miller, Charles, and Sol Jaffa, doing business under the name of "The Open Door," New York, N. Y. What Are You Doing Tonight? For Food Served in a Restaurant. 10,699; Mar. 6.
No. 9 Chemical Company, The. (See McKee, W. C.)
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Grape-nuts Balanced Nourishment Form 5022. For Grape-Nuts. 10,700; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Post's Bran Flakes Now You'll Like Bran Form 4963. For Post's Bran Flakes. 10,701; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Post's Bran Flakes Ready To Eat Form 4962. For Post's Bran Flakes. 10,702; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Bananas With Post's Bran Flakes Form 4965. For Post's Bran Flakes. 10,703; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Fresh Fruit With Post's Bran Flakes Form 4964. For Post's Bran Flakes. 10,704; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Post's Bran Flakes Bran You'll Like Every Day Form 4966. For Post's Bran Flakes. 10,705; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Post Toasties Stay Crisp In Milk or Cream Form 4981. For Post Toasties. 10,706; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Grape-Nuts Delicious Flavor Form 5021. For Grape-Nuts. 10,707; Mar. 6.
Postum Company, Incorporated, Wilmington, Del., and New York, N. Y. Post Toasties Double Crisp and Double Good Form 4982. For Post Toasties. 10,708; Mar. 6.
Remedor Foot Powder Co. (See Esposito, Ernest.)
Rice, Jerome B., Seed Co., Cambridge, N. Y. Rice's Coreless Carrot. For Seeds. 10,709; Mar. 6.
Taylor-Long Company, Charlotte, N. C. Your Shot—Big Bill. For a Beverage—Namely, a Soft Drink. 10,710; Mar. 6.
"The Open Door." (See Miller, Charles, and Sol Jaffa.)

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A/S Vitanova Ltd., Oslo, Norway. Emulsions of cod-liver oil and cod-liver oil. 258,444; Mar. 6. Class 6.
Abbott Laboratories, North Chicago, Ill. Antirheumatic, antacid, and analgesic. 260,231; Mar. 6. Class 6.
Acme Cotton Products Co., Inc., New York, N. Y. Sanitary napkins. 258,050; Mar. 6. Class 44.
Active Elevator Company. (See Wuest, Adolph G.)
Albermarle Paper Manufacturing Company, The, Richmond, Va. Blotting paper. 259,787; Mar. 6. Class 37.
Alexander, Lewis W., San Antonio, Tex. Beverages and syrups, extracts, and concentrates for making the same. 259,788; Mar. 6. Class 45.
American Drug & Chemical Co., Minneapolis, Minn. Antiseptic, germicidal, and deodorant preparations. 256,389; Mar. 6. Class 6.
Anti Rust Paint Manufacturing Co., New Brunswick, N. J. Canned paint in solution. 258,563; Mar. 6. Class 16.
Arnau, Jose P., San Juan, Argentina. Fresh deciduous fruits and vegetables. 210,642; Mar. 6. Class 46.
Arnold, F. R., & Company, New York, N. Y. Perfume and toilet water. 254,341–2; Mar. 6. Class 6.
Autopoint Company, Chicago, Ill. Mechanical pencils. 243,079; Mar. 6. Class 37.
Baker, Jacob F., doing business as J. F. Baker & Company, Detroit, Mich. Neckties. 257,140; Mar. 6. Class 39.
Baker, O. D., Company, Boston, Mass., and New York, N. Y. Mattresses. 256,441; Mar. 6. Class 32.
Bakers' Equipment Co., St. Louis, Mo. Bakers' hoisting machinery. 258,667; Mar. 6. Class 23.
Baraff, A., & Sons, Philadelphia, Pa. Men's clothing. 259,531; Mar. 6. Class 39.
Barrett Company, The, New York, N. Y. Construction material. 259,755; Mar. 6. Class 12.
Bay Company, The, Bridgeport, Conn. Adhesive plaster. 244,488; Mar. 6. Class 44.
Beautext Company, San Francisco, Calif. Painters' decorating materials. 255,479; Mar. 6. Class 16.
Beck, A., & Co. Inc., New York, N. Y. Lamp shades other than glass and porcelain. 256,899; Mar. 6. Class 34.
Bergmann, Jean, doing business as Continentale Buro-Reform, Berlin, Germany. Circulating machines. 242,980; Mar. 6. Class 26.
Bi So Dol Co. Inc., New York, N. Y. Antacid digestant. 258,108; Mar. 6. Class 6.
Blinderman, Morris, Brooklyn, N. Y. Cookies. 259,672; Mar. 6. Class 46.
Bonomo, Albert, doing business as A. Bonomo, Coney Island, Brooklyn, N. Y. Pop-corn confections. 255,957; Mar. 6. Class 46.
Breck, Joseph, & Sons Corporation, Boston, Mass. Flower bulbs. 258,568; Mar. 6. Class 1.
Breslin Brothers Carpet Company, Gloucester, N. J. Textile rugs. 260,080; Mar. 6. Class 42.
Bronston Bros. and Co., Inc., New York, N. Y. Hats, suits, overcoats, etc. 256,171; Mar. 6. Class 39.
Bronston, Harry E., Plainfield, N. J. Hats. 256,173; Mar. 6. Class 39.
Bronston, Harry E., Plainfield, N. J. Woven straw fabrics. 256,174; Mar. 6. Class 42.
Brooklyn Metal Stamping Corp., Brooklyn, N. Y. Phonograph reproducers. 256,097; Mar. 6. Class 36.
Brooks & Porter, New York, N. Y. Writing pads, calendar pads, and holders for same. 260,256; Mar. 6. Class 37.
Brown, Delane, Inc. (See Purity Cross Model Kitchens, Inc., assignor.)
Bucklen, H. E., & Company, New York, N. Y. Preparation for the treatment of constipation. 259,673; Mar. 6. Class 6.
Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Instrument for examining, testing, measuring, and exercising the eyes. 259,390; Mar. 6. Class 26.
Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Electrically-controlled surgical instrument. 259,391; Mar. 6. Class 44.
Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Eye retractors, nasal mirrors, etc. 259,392; Mar. 6. Class 44.
Campbell, John, & Co., New York, N. Y. Compound for wetting, boiling, and bleaching out, etc. 259,409; Mar. 6. Class 6.
Carew Manufacturing Company, South Hadley Falls, Mass. Cover paper. 260,624; Mar. 6. Class 37.
Carnation Milk Products Company, Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash. Concentrated syrup. 256,330; Mar. 6. Class 46.
Carr Milling Company, The, Hamilton, Ohio. Wheat flour. 258,994; Mar. 6. Class 46.
Casarotti, Romeo A., Oakland, Calif. Toilet-tank ball cocks and trough ball cocks. 254,170; Mar. 6. Class 13.
Celanese Corporation of America, New York, N. Y. Textile fabrics. 260,044; Mar. 6. Class 42.
Chandler, Robert E., doing business as Royal Bakery, Arcadia, Fla. Bread. 259,621; Mar. 6. Class 46.
Charleston Milling & Produce Company, Charleston, W. Va. Stock and poultry feed. 254,106; Mar. 6. Class 46.
Chase & Sanborn, Boston, Mass. Coffee and tea. 255,635; Mar. 6. Class 46.
Children's Vehicle Corporation, East Templeton, Mass. Toy automobiles, etc. 257,726; Mar. 6. Class 22.
Cochran-Truncy-Crispo, Inc., New York, N. Y., and Los Angeles, Calif. Fresh vegetables, deciduous and citrus fruits. 247,005; Mar. 6. Class 46.
Cohen, A., & Sons Corp., New York, N. Y. Clocks, watches, watch movements, etc. 259,794; Mar. 6. Class 27.
Cohen, A., & Sons Corp., New York, N. Y. Clocks, watches, watch movements, etc. 260,100; Mar. 6. Class 27.
Columbia Sanitary Manufacturing Company, Louisville, Ky. Bathtubs, washstands, flush tanks, etc. 259,440; Mar. 6. Class 13.
Continental Bronze Company, Pawtucket, R. I. Votive stands. 259,104; Mar. 6. Class 32.
Continentale Buro-Reform. (See Bergmann, Jean.)
Co-Co-Mac's Company. (See Koenigsman, Alphonse J.)
Cooper, Wells & Co., St. Joseph, Mich. Hosiery. 259,201; Mar. 6. Class 39.
Cosmos Press, Inc., The, Cambridge, Mass. News magazine. 254,230; Mar. 6. Class 38.

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Cream Dove Mfg. Co., Inc., Binghamton, N. Y. Peanut butter and cooking compounds. 259,278; Mar. 6. Class 46.
Creek Chub Bait Co., The, Garrett, Ind. Artificial baits. 259,895; Mar. 6. Class 22.
Cross, George H., Company, doing business as C. H. & Geo. H. Cross, Inc., St. Johnsbury and Montpelier, Vt., assignor to C. H. & George H. Cross, Inc., St. Johnsbury, Vt. Bread and crackers. 259,534; Mar. 6. Class 46.
Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Newspaper articles. 258,071; Mar. 6. Class 38.
Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Daily illustrated fashion articles for newspaper publications. 259,944; Mar. 6. Class 38.
Cutler Fruit Grower's Association, Cutler, Calif. Grapes. 256,100; Mar. 6. Class 46.
Dalang, R., & Co., Basel, Switzerland. Alimentary pastes. 259,763; Mar. 6. Class 46.
Daley's Inc., Los Angeles, Calif. Spices and flavoring extracts. 259,396; Mar. 6. Class 46.
Davies Shoe Manufacturing Company, Racine, Wis. Men's shoes. 259,535; Mar. 6. Class 39.
Dell Publishing Company, New York, N. Y. Magazine published monthly. 260,557; Mar. 6. Class 38.
Delta Chi Fraternity, The, Iowa City, Iowa. Quarterly magazine. 260,630; Mar. 6. Class 38.
Denney, William F., doing business as Denney & Denney, Philadelphia, Pa. Series of booklets, pamphlets, or leaflets published from time to time. 260,558; Mar. 6. Class 38.
Dermay Perfumers Inc., New York, N. Y. Astringents, bleach creams, rouges, etc. 259,628; Mar. 6. Class 6.
Dunhill, Alfred, of London, Inc., New York, N. Y. Cigar and cigarette lighters. 259,715–16; Mar. 6. Class 34.
Eagle Knitting Mills, Milwaukee, Wis. Knit goods. 259,626; Mar. 6. Class 39.
Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Edelman, Morris, doing business as Western Distributors, Los Angeles, Calif. Malt syrup. 257,667; Mar. 6. Class 46.
El Camino Citrus Association, Claremont, Calif. Oranges, lemons, and grapefruit. 260,432; Mar. 6. Class 46.
Electric Refrigeration Corporation, Detroit, Mich. Refrigerators and refrigerator parts. 259,827–8; Mar. 6; Class 31.
Electric Storage Battery Company, The, Philadelphia, Pa. Current-supply power units for radio apparatus. 251,725; Mar. 6. Class 21.
Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. 260,496; Mar. 6. Class 21.
Engle, Daniel, doing business as Daniel Engle Co., New York, N. Y. Dried milk. 258,408; Mar. 6. Class 46.
Eugene Ltd., New York, N. Y. Sachets and wave-setting preparations. 259,301; Mar. 6. Class 6.
Euster, Isaac, doing business as Euster Herb Co., Middlesboro, Ky. Medicinal tonic. 259,545; Mar. 6. Class 6.
Farmers Union Service Association, Des Moines, Iowa. Mineral feed, laying mash, hog feed, etc. 258,860; Mar. 6. Class 46.
Fireking Fire Extinguisher Company Inc., Seattle, Wash. Portable hand type of apparatus for quenching fires. 257,353; Mar. 6. Class 23.
Florin Fruit Grower's Association, Florin, Calif. Grapes. 254,276; Mar. 6. Class 46.
Forsell, John E., doing business as Old Trusty Co., Clay Center, Nebr. Tires and tubes. 256,622; Mar. 6. Class 35.
Freed-Eisemann Radio Corporation, Brooklyn, N. Y. Radio receiving sets. 260,725; Mar. 6. Class 21.
Freeman, Howard, Newark, N. J. Cartoons for daily newspaper publications. 260,265; Mar. 6. Class 38.
French Sardine Company of California, also doing business as French Sardine Co. Inc., Terminal Island, Calif. Canned fish. 252,010; Mar. 6. Class 46.
Fireproofing Chemical Company, Los Angeles, Calif. Chemically-treated wood. 257,229; Mar. 6. Class 12.
Gage Publishing Co., Inc., The, New York, N. Y. Monthly magazine. 260,266; Mar. 6. Class 38.
Gardère, Pierre L., Bordeaux, France. Power-transmitting belts. 258,176; Mar. 6. Class 35.
Gat Gun Lubricating Corporation, Oakland, Calif. Flexible metal conduits for grease guns. 251,496; Mar. 6. Class 13.
Gelfand, Simon, doing business as Gelfand & Co. (Not Inc.), Baltimore, Md. Mayonnaise. 256,337; Mar. 6. Class 46.
Gem Clothing Co., New York, N. Y. Boys' clothing. 253,146; Mar. 6. Class 39.
Gentz, Will T., Hollywood, Calif. Comic strips for newspapers. 256,118; Mar. 6. Class 38.
Glazier Laboratories Inc., Hollywood, Calif. Antiseptic powder. 260,267; Mar. 6. Class 6.
Gordon Beverages Incorporated, Toledo, Ohio. Carbonated, nonalcoholic beverages. 253,275; Mar. 6. Class 45.
Gott, Henry P., doing business as H. P. Gott Mfg. Co., Winfield, Kans. Water coolers. 254,632; Mar. 6; Class 31.
Graybar Electric Company, Inc., New York, N. Y. Telephone residence and burglar-alarm annunciators, etc. 251,734–5; Mar. 6. Class 21.
Graybar Electric Company, Inc., New York, N. Y. Telephone residence and burglar-alarm annunciators, etc. 251,737; Mar. 6. Class 21.
Greene Chicken Feed Company, The, Marblehead, Mass. Poultry feed. 260,502; Mar. 6. Class 46.
Griggs, Cooper & Company, St. Paul, Minn. Fruit preserves, vinegar, etc. 260,116; Mar. 6. Class 46.
Grinnell Company, Inc., Providence, R. I. Radiators for use in steam or hot-water heating systems. 260,224; Mar. 6. Class 34.
Growers Exchange, Inc., Medford, Oreg. Fresh pears. 260,446; Mar. 6. Class 46.
Habig, P. & C., Vienna, Austria. Hats and caps. 256,821; Mar. 6. Class 39.
Hall and Hall Co., New York, N. Y. Hats for men. 245,551; Mar. 6. Class 39.
Hamersley Manufacturing Company, The, Garfield, N. J. Transparent paper. 260,633; Mar. 6. Class 37.
Hanna Manufacturing Company, The, Athens, Ga. Baseball bats. 256,405; Mar. 6. Class 22.
Hatae, M., doing business as M. Hatae & Company, also doing business as Smoca Manufacturing Co., San Francisco, Calif. Tooth powder. 255,377; Mar. 6. Class 6.
Hecker-H-O Company, Inc., Buffalo, N. Y. Farina. 257,542; Mar. 6. Class 46.
Hecker-H-O Company, Inc., Buffalo, N. Y. Bran. 257,544; Mar. 6. Class 46.
Hecker-H-O Company, Inc., Buffalo, N. Y. Oatmeal. 257,546; Mar. 6. Class 46.
Helm, John C. P., doing business as Helm Laboratories, New Orleans, La. Waxes, floor oils, automobile polishes, etc. 258,872; Mar. 6. Class 16.
Highgrove Fruit Association, Highgrove, Calif. Oranges, lemons, and grapefruit. 250,845; Mar. 6. Class 46.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 260,012–16; Mar. 6. Class 42.
Holsten, Young & Co., New York, N. Y. Ladies' and misses' coats. 260,055; Mar. 6. Class 39.
Hoyt, R. B., doing business as Hoyt Bros., Seattle, Wash. Beverages and syrups and extracts used in making the same. 259,446; Mar. 6. Class 45.
Hudnut, Richard, New York, N. Y. Cold cream, bath salts, perfume, etc. 260,018; Mar. 6. Class 6.
Hughes & Bradley Company, Philadelphia, Pa. Neckties and cravats. 260,056; Mar. 6. Class 39.
Hy-Tone Products. (See Robinson, Robert D.)
Independent Fruit Gowers, Inc., New York, N. Y. Fresh vegetables and citrus fruits. 260,125; Mar. 6. Class 46.
Insurance Men's Supply Co. (See Silverman, Emanuel S.)
International Newsreel Corporation, New York, N. Y. Motion-picture films. 259,683; Mar. 6. Class 26.
Irwin, Neisler & Co., Decatur, Ill. Effervescing salts with fruit acids. 260,271; Mar. 6. Class 6.
Kaplan, Nathan, Allentown, Pa. Anæsthetic. 260,020; Mar. 6. Class 6.
Karl, P., Los Angeles, Calif. Shoes. 251,906; Mar. 6. Class 39.
Keek Company, Inc., St. Louis, Mo. Cider. 259,245; Mar. 6. Class 45.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,274; Mar. 6. Class 38.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,276; Mar. 6. Class 38.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,278–9; Mar. 6. Class 38.
Knapp-Bloch Incorporated, New York, N. Y. Bimonthly magazine. 260,509; Mar. 6. Class 38.
Koenigsman, Alphonse J., doing business as Co-Co-Mac's Company, Youngstown, Ohio. Cocoanut macaroons. 258,129; Mar. 6. Class 46.
Kons Laboratories, Omaha, Nebr. Capsulated stomachic gas eliminant. 260,392; Mar. 6. Class 6.
Krauss, Herman, Inc., Toledo, Ohio. Malt syrups. 255,012; Mar. 6. Class 46.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Canned fruit and tomatoes, celery seed, etc. 249,129; Mar. 6. Class 46.
Lahatte, Cicero, Vicksburg, Miss. Coffee. 257,295; Mar. 6. Class 46.
Lahatte, Cicero, Vicksburg, Miss. Canned fruits and vegetables. 258,637; Mar. 6. Class 46.
Laken, David, doing business as the 0 to 9 Pharmacal Co., Philadelphia, Pa. Laxative medicine and pharmaceutical preparations. 254,081; Mar. 6. Class 6.
Levy Bros. & Adler Rochester, Inc., Rochester, N. Y. Men's overcoats. 255,384; Mar. 6. Class 39.
Lewitt, L., & Co., Inc., New York, N. Y. Watchcases. 259,918; Mar. 6. Class 27.

Coca-Cola Company, The, Atlanta, Ga. Treat Yourself Right. For Coca-Cola. 10,692; Mar. 6.
Coca-Cola Company, The, Atlanta, Ga. Pause a Minute Refresh Yourself. For Coca-Cola. 10,693; Mar. 6.
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Baraff, A., & Sons, Philadelphia, Pa. Men's clothing. 259,531; Mar. 6. Class 39.
Barrett Company, The, New York, N. Y. Construction material. 259,755; Mar. 6. Class 12.
Bay Company, The, Bridgeport, Conn. Adhesive plaster. 244,488; Mar. 6. Class 44.
Beantext Company, San Francisco, Calif. Painters' decorating materials. 255,479; Mar. 6. Class 16.
Beck, A., & Co. Inc., New York, N. Y. Lamp shades other than glass and porcelain. 256,899; Mar. 6. Class 34.
Bergmann, Jean, doing business as Continentale Buro-Reform, Berlin, Germany. Circulating machines. 242,980; Mar. 6. Class 26.
Bi So Dol Co. Inc., New York, N. Y. Antacid digestant. 258,108; Mar. 6. Class 6.
Blinderman, Morris, Brooklyn, N. Y. Cookies. 259,672; Mar. 6. Class 46.
Bonomo, Albert, doing business as A. Bonomo, Coney Island, Brooklyn, N. Y. Pop-corn confections. 255,957; Mar. 6. Class 46.
Breck, Joseph, & Sons Corporation, Boston, Mass. Flower bulbs. 258,568; Mar. 6. Class 1.
Breslin Brothers Carpet Company, Gloucester, N. J. Textile rugs. 260,080; Mar. 6. Class 42.
Bronston Bros. and Co., Inc., New York, N. Y. Hats, suits, overcoats, etc. 256,171; Mar. 6. Class 39.
Bronston, Harry E., Plainfield, N. J. Hats. 256,173; Mar. 6. Class 39.
Bronston, Harry E., Plainfield, N. J. Woven straw fabrics. 256,174; Mar. 6. Class 42.
Brooklyn Metal Stamping Corp., Brooklyn, N. Y. Phonograph reproducers. 260,097; Mar. 6. Class 36.
Brooks & Porter, New York, N. Y. Writing pads, calendar pads, and holders for same. 260,256; Mar. 6. Class 37.
Brown, Delane, Inc. (See Purity Cross Model Kitchens, Inc., assignor.)
Buckley, H. E., & Company, New York, N. Y. Preparation for the treatment of constipation. 259,673; Mar. 6. Class 6.
Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Instrument for examining, testing, measuring, and exercising the eyes. 259,390; Mar. 6. Class 26.
Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Electrically-controlled surgical instrument. 259,391; Mar. 6. Class 44.
Cameron, William J., doing business as Cameron's Surgical Specialty Co. (Not Inc.), Chicago, Ill. Eye retractors, nasal mirrors, etc. 259,392; Mar. 6. Class 44.
Campbell, John, & Co., New York, N. Y. Compound for wetting, boiling, and bleaching out, etc. 259,400; Mar. 6. Class 6.
Carew Manufacturing Company, South Hadley Falls, Mass. Cover paper. 260,624; Mar. 6. Class 37.
Carnation Milk Products Company, Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash. Concentrated syrup. 256,330; Mar. 6. Class 46.
Carr Milling Company, The, Hamilton, Ohio. Wheat flour. 258,994; Mar. 6. Class 46.
Casarotti, Romeo A., Oakland, Calif. Toilet-tank ball cocks and trough ball cocks. 254,170; Mar. 6. Class 13.
Celanese Corporation of America, New York, N. Y. Textile fabrics. 260,044; Mar. 6. Class 42.
Chandler, Robert E., doing business as Royal Bakery, Arcadia, Fla. Bread. 259,621; Mar. 6. Class 46.
Charleston Milling & Produce Company, Charleston, W. Va. Stock and poultry feed. 254,106; Mar. 6. Class 46.
Chase & Sanborn, Boston, Mass. Coffee and tea. 255,635; Mar. 6. Class 46.
Children's Vehicle Corporation, East Templeton, Mass. Toy automobiles, etc. 257,726; Mar. 6. Class 22.
Cochran-Truney-Crispo, Inc., New York, N. Y., and Los Angeles, Calif. Fresh vegetables, deciduous and citrus fruits. 247,005; Mar. 6. Class 46.
Cohen, A., & Sons Corp., New York, N. Y. Clocks, watches, watch movements, etc. 259,794; Mar. 6. Class 27.
Cohen, A., & Sons Corp., New York, N. Y. Clocks, watches, watch movements, etc. 260,100; Mar. 6. Class 27.
Columbia Sanitary Manufacturing Company, Louisville, Ky. Bathtubs, washstands, flush tanks, etc. 259,440; Mar. 6. Class 13.
Continental Bronze Company, Pawtucket, R. I. Votive stands. 259,104; Mar. 6. Class 32.
Continentale Buro-Reform. (See Bergmann, Jean.)
Co-Co-Mac's Company. (See Koenigsman, Alphonse J.)
Cooper, Wells & Co., St. Joseph, Mich. Hosiery. 259,201; Mar. 6. Class 39.
Cosmos Press, Inc., The, Cambridge, Mass. News magazine. 254,230; Mar. 6. Class 38.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cream Dove Mfg. Co., Inc., Binghamton, N. Y. Peanut butter and cooking compounds. 259,278; Mar. 6. Class 46.
Creek Chub Bait Co., The, Garrett, Ind. Artificial baits. 259,895; Mar. 6. Class 22.
Cross, George H., Company, doing business as C. H. & Geo. H. Cross, Inc., St. Johnsbury and Montpelier, Vt., assignor to C. H. & George H. Cross, Inc., St. Johnsbury, Vt. Bread and crackers. 259,534; Mar. 6. Class 46.
Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Newspaper articles. 258,071; Mar. 6. Class 38.
Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Daily illustrated fashion articles for newspaper publications. 259,944; Mar. 6. Class 38.
Cutler Fruit Grower's Association, Cutler, Calif. Grapes. 256,100; Mar. 6. Class 46.
Dalang, E., & Co., Basel, Switzerland. Alimentary pastes. 259,763; Mar. 6. Class 46.
Daley's Inc., Los Angeles, Calif. Spices and flavoring extracts. 259,396; Mar. 6. Class 46.
Davies Shoe Manufacturing Company, Racine, Wis. Men's shoes. 259,535; Mar. 6. Class 39.
Dell Publishing Company, New York, N. Y. Magazine published monthly. 260,557; Mar. 6. Class 38.
Delta Chi Fraternity, The, Iowa City, Iowa. Quarterly magazine. 260,630; Mar. 6. Class 38.
Denney, William F., doing business as Denney & Denney, Philadelphia, Pa. Series of booklets, pamphlets, or leaflets published from time to time. 260,558; Mar. 6. Class 38.
Dermay Perfumers Inc., New York, N. Y. Astringents, bleach creams, rouges, etc. 259,628; Mar. 6. Class 6.
Dunhill, Alfred, of London, Inc., New York, N. Y. Cigar and cigarette lighters. 259,715–16; Mar. 6. Class 34.
Eagle Knitting Mills, Milwaukee, Wis. Knit goods. 259,626; Mar. 6. Class 39.
Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Edelman, Morris, doing business as Western Distributors, Los Angeles, Calif. Malt syrup. 257,667; Mar. 6. Class 46.
El Camino Citrus Association, Claremont, Calif. Oranges, lemons, and grapefruit. 260,432; Mar. 6. Class 46.
Electric Refrigeration Corporation, Detroit, Mich. Refrigerators and refrigerator parts. 259,827–8; Mar. 6; Class 31.
Electric Storage Battery Company, The, Philadelphia, Pa. Current-supply power units for radio apparatus. 251,725; Mar. 6. Class 21.
Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. 260,496; Mar. 6. Class 21.
Engle, Daniel, doing business as Daniel Engle Co., New York, N. Y. Dried milk. 258,408; Mar. 6. Class 46.
Eugene Ltd., New York, N. Y. Sachets and wave-setting preparations. 259,301; Mar. 6. Class 6.
Euster, Isaac, doing business as Euster Herb Co., Middlesboro, Ky. Medicinal tonic. 259,545; Mar. 6. Class 6.
Farmers Union Service Association, Des Moines, Iowa. Mineral feed, laying mash, hog feed, etc. 258,860; Mar. 6. Class 46.
Fireking Fire Extinguisher Company Inc., Seattle, Wash. Portable hand type of apparatus for quenching fires. 257,353; Mar. 6. Class 23.
Florin Fruit Grower's Association, Florin, Calif. Grapes. 254,276; Mar. 6. Class 46.
Forsell, John E., doing business as Old Trusty Co., Clay Center, Nebr. Tires and tubes. 256,622; Mar. 6. Class 35.
Freed-Eisemann Radio Corporation, Brooklyn, N. Y. Radio receiving sets. 260,725; Mar. 6. Class 21.
Freeman, Howard, Newark, N. J. Cartoons for daily newspaper publications. 260,265; Mar. 6. Class 38.
French Sardine Company of California, also doing business as French Sardine Co. Inc., Terminal Island, Calif. Canned fish. 252,010; Mar. 6. Class 46.
Fireproofing Chemical Company, Los Angeles, Calif. Chemically-treated wood. 257,229; Mar. 6. Class 12.
Gage Publishing Co., Inc., The, New York, N. Y. Monthly magazine. 260,266; Mar. 6. Class 38.
Gardère, Pierre L., Bordeaux, France. Power-transmitting belts. 258,176; Mar. 6. Class 35.
Gat Gun Lubricating Corporation, Oakland, Calif. Flexible metal conduits for grease guns. 251,496; Mar. 6. Class 13.
Gelfand, Simon, doing business as Gelfand & Co. (Not Inc.), Baltimore, Md. Mayonnaise. 256,337; Mar. 6. Class 46.
Gem Clothing Co., New York, N. Y. Boys' clothing. 253,146; Mar. 6. Class 39.
Genta, Will T., Hollywood, Calif. Comic strips for newspapers. 256,118; Mar. 6. Class 38.
Glazier Laboratories Inc., Hollywood, Calif. Antiseptic powder. 260,267; Mar. 6. Class 6.
Gordon Beverages Incorporated, Toledo, Ohio. Carbonated, nonalcoholic beverages. 253,275; Mar. 6. Class 45.
Gott, Henry P., doing business as H. P. Gott Mfg. Co., Winfield, Kans. Water coolers. 254,632; Mar. 6; Class 31.
Graybar Electric Company, Inc., New York, N. Y. Telephone residence and burglar-alarm annunciators, etc. 251,734–5; Mar. 6. Class 21.
Graybar Electric Company, Inc., New York, N. Y. Telephone residence and burglar-alarm annunciators, etc. 251,737; Mar. 6. Class 21.
Greene Chicken Feed Company, The, Marblehead, Mass. Poultry feed. 260,502; Mar. 6. Class 46.
Griggs, Cooper & Company, St. Paul, Minn. Fruit preserves, vinegar, etc. 260,116; Mar. 6. Class 46.
Grinnell Company, Inc., Providence, R. I. Radiators for use in steam or hot-water heating systems. 260,224; Mar. 6. Class 34.
Growers Exchange, Inc., Medford, Oreg. Fresh pears. 260,446; Mar. 6. Class 46.
Habig, P. & C., Vienna, Austria. Hats and caps. 256,821; Mar. 6. Class 39.
Hall and Hall Co., New York, N. Y. Hats for men. 245,551; Mar. 6. Class 39.
Hamersley Manufacturing Company, The, Garfield, N. J. Transparent paper. 260,633; Mar. 6. Class 37.
Hanna Manufacturing Company, The, Athens, Ga. Baseball bats. 256,405; Mar. 6. Class 22.
Hatae, M., doing business as M. Hatae & Company, also doing business as Smoca Manufacturing Co., San Francisco, Calif. Tooth powder. 255,377; Mar. 6. Class 6.
Hecker-H-O Company, Inc., Buffalo, N. Y. Farina. 257,542; Mar. 6. Class 46.
Hecker-H-O Company, Inc., Buffalo, N. Y. Bran. 257,544; Mar. 6. Class 46.
Hecker-H-O Company, Inc., Buffalo, N. Y. Oatmeal. 257,546; Mar. 6. Class 46.
Helm, John C. P., doing business as Helm Laboratories, New Orleans, La. Waxes, floor oils, automobile polishes, etc. 258,872; Mar. 6. Class 16.
Highgrove Fruit Association, Highgrove, Calif. Oranges, lemons, and grapefruit. 250,845; Mar. 6. Class 46.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 260,012–16; Mar. 6. Class 42.
Holsten, Young & Co., New York, N. Y. Ladies' and misses' coats. 260,055; Mar. 6. Class 39.
Hoyt, R. B., doing business as Hoyt Bros., Seattle, Wash. Beverages and syrups and extracts used in making the same. 259,446; Mar. 6. Class 45.
Hudnut, Richard, New York, N. Y. Cold cream, bath salts, perfume, etc. 260,018; Mar. 6. Class 6.
Hughes & Bradley Company, Philadelphia, Pa. Neckties and cravats. 260,056; Mar. 6. Class 39.
Hy-Tone Products. (See Robinson, Robert D.)
Independent Fruit Gowers, Inc., New York, N. Y. Fresh vegetables and citrus fruits. 260,125; Mar. 6. Class 46.
Insurance Men's Supply Co. (See Silverman, Emanuel S.)
International Newsreel Corporation, New York, N. Y. Motion-picture films. 259,683; Mar. 6. Class 26.
Irwin, Neisler & Co., Decatur, Ill. Effervescing salts with fruit acids. 260,271; Mar. 6. Class 6.
Kaplan, Nathan, Allentown, Pa. Anæsthetic. 260,020; Mar. 6. Class 6.
Karl, P., Los Angeles, Calif. Shoes. 251,906; Mar. 6. Class 39.
Keek Company, Inc., St. Louis, Mo. Cider. 259,245; Mar. 6. Class 45.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,274; Mar. 6. Class 38.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,276; Mar. 6. Class 38.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,278–9; Mar. 6. Class 38.
Knapp-Bloch Incorporated, New York, N. Y. Bimonthly magazine. 260,509; Mar. 6. Class 38.
Koenigsman, Alphonse J., doing business as Co-Co-Mac's Company, Youngstown, Ohio. Cocoanut macaroons. 258,129; Mar. 6. Class 46.
Kons Laboratories, Omaha, Nebr. Capsulated stomachic gas eliminant. 260,392; Mar. 6. Class 6.
Krauss, Herman, Inc., Toledo, Ohio. Malt syrups. 255,012; Mar. 6. Class 46.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Canned fruit and tomatoes, celery seed, etc. 249,129; Mar. 6. Class 46.
Lahatte, Cicero, Vicksburg, Miss. Coffee. 257,295; Mar. 6. Class 46.
Lahatte, Cicero, Vicksburg, Miss. Canned fruits and vegetables. 258,637; Mar. 6. Class 46.
Laken, David, doing business as the 9 to 9 Pharmacal Co., Philadelphia, Pa Laxative medicine and pharmaceutical preparations. 254,081; Mar. 6. Class 6.
Levy Bros. & Adler Rochester, Inc., Rochester, N. Y. Men's overcoats. 255,384; Mar. 6. Class 39.
Lewitt, L., & Co., Inc., New York, N. Y. Watchcases. 259,918; Mar. 6. Class 27.

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Liebovitz, S., & Sons, Inc., New York, N. Y. Dress shirts, pajamas, and blouses for men, youths, and boys. 259,919; Mar. 6. Class 39.

Lipps, Bayard D., New York, N. Y. Thrown silk in the form of bobbins, skeins, etc. 260,740; Mar. 6. Class 43.

Litchfield Creamery Co., Litchfield, Ill. Evaporated milk. 259,814; Mar. 6. Class 46.

Macy, R. H., & Co., Inc., New York, N. Y. Toothbrushes. 260,064; Mar. 6. Class 29.

Mammoth Paints & Color Works. (See Peper Brothers, Inc.)

Martin, Herbert F., Chicago, Ill. Comic newspaper strips. 260,338; Mar. 6. Class 38.

Mascagni, Galileo S., Stockton, Calif. Fresh fruits and vegetables. 250,853; Mar. 6. Class 46.

Maskow, Abe, doing business as Maskow Cord and Trimming Co., New York, N. Y. Picture cords. 259,774; Mar. 6. Class 7.

Matthews, W. N., Corporation, St. Louis, Mo. Earth augers. 250,929; Mar. 6. Class 23.

Maxwell, Earl C., Company, Incorporated, Brooklyn, N. Y. Welded metal tanks. 237,377; Mar. 6. Class 2.

May, George E., Amarillo, Tex. Ointment for neuralgia, rheumatism, insect bites, etc. 259,862; Mar. 6. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Automobile polish. 260,578; Mar. 6. Class 16.

McSherry, George P., doing business as McSherry Drug Co. Preparation for colds, la grippe, neuralgia, and headache. 259,776; Mar. 6. Class 6.

Merchants Ice and Cold Storage Company of Los Angeles, Los Angeles, Calif. Distilled water. 253,602; Mar. 6. Class 45.

Mervis, Samuel, Company, Baltimore, Md. Salad dressing. 260,341; Mar. 6. Class 46.

Minneapolis Milling Company, Minneapolis, Minn. Wheat flour. 260,460; Mar. 6. Class 46.

Minneapolis Milling Company, Minneapolis, Minn. Wheat flour. 260,579; Mar. 6. Class 46.

Mitchell, Allen R., & Son, Philadelphia, Pa. Woolen and worsted goods and combinations thereof in the piece. 245,219; Mar. 6. Class 42.

Morgan Belleek China Company, The, Canton, Ohio. Chinaware, pottery, semivitreous porcelain, etc. 259,780; Mar. 6. Class 30.

Motor Vest Inc., Newark, N. J. Vehicle radiator protectors. 259,249; Mar. 6. Class 19.

Mueller Brass Co., Port Huron, Mich. Ingots, pigs, rods, etc. 246,922; Mar. 6. Class 14.

Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Hygienic hair wash. 242,047; Mar. 6. Class 6.

Mutual Drug Company, The, Cleveland, Ohio. Epsom salt. 260,188; Mar. 6. Class 6.

N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Raw wool, artificial straw, staple fibres, etc. 254,501; Mar. 6. Class 1.

N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Raw wool, artificial straw, staple fibres, etc. 254,505; Mar. 6. Class 1.

N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Raw wool, artificial straw, staple fibres, etc. 254,508; Mar 6. Class 1.

National Geographic Society, Washington, D. C. Periodical publications. 259,014; Mar. 6. Class 38.

National Retail Furniture Association, Chicago, Ill. Monthly publication. 260,840; Mar. 6. Class 38.

National Varnish Company's Chemical Division, Inc., Long Island City, N. Y. Concrete-floor paint and liquid masonry-coating paint. 257,990; Mar. 6. Class 16.

Newman, Ed. J., Grand Island, Nebr. Cutworm and gopher repellent. 260,189; Mar. 6. Class 6.

Nielsen Laboratories, Inc., Elyria, Ohio. Tonic food beverage. 258,482; Mar. 6. Class 46.

9 to 9 Pharmacal Co. (See Laken, David.)

Nu-Ka-Na Remedy Company. (See Rett, William F.)

Ohio Wax Paper Company, The, Columbus, Ohio. Wrapping paper. 260,403; Mar. 6. Class 37.

Old Trusty Co. (See Forsell, John E.)

Osterweis, Rose, doing business as Lewis Osterweis & Sons, New Haven, Conn. Cigars. 257,484; Mar. 6. Class 17.

Pabst Corporation, Milwaukee, Wis. Malt syrup. 260,348; Mar. 6. Class 46.

Parrott Dry Process Street Cleaner Company, New York, N. Y. Street-cleaning machines. 252,273; Mar. 6. Class 23.

Paver, J. M., Company, The, Chicago, Ill. Canned fruits, vegetables, and berries. 257,700; Mar. 6. Class 46.

Peerless Carbon Black Company, The, Pittsburgh, Pa. Carbon black for paints, lacquers, etc. 257,992; Mar. 6. Class 16.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Cotton hosiery. 258,954; Mar. 6. Class 39.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Silver polish. 260,404; Mar. 6. Class 4.

Peper Brothers, Inc., doing business as Mammoth Paints & Color Works, New York, N. Y. Paint. 258,828–30; Mar. 6. Class 16.

Perfection Cap & Hat Co., Seattle, Wash. Hats. 254,472; Mar. 6. Class 39.

Permutit Company, The, New York, N. Y. Water filters, softening apparatus, etc. 258,539; Mar. 6. Class 31.

Philippe, Louis, Inc., New York, N. Y. Face creams, powders, etc. 260,588–9; Mar. 6. Class 6.

Philippe, Louis, Inc., New York, N. Y. Face creams and powders, rouge, and lip sticks. 260,590–1; Mar. 6. Class 6.

Phinney-Walker Company, New York, N. Y. Clocks and watches. 260,140–1; Mar. 6. Class 27.

Pikes Hikes, Inc., Chicago, Ill. Leather shoes. 253,767; Mar. 6. Class 39.

Pikes Hikes, Inc., Chicago, Ill. Glass show cases. 255,026; Mar. 6. Class 32.

Plymouth Press, The, Chicago, Ill. Printed-test folders, cards, charts, etc. 243,616; Mar. 6. Class 38.

Port Pickle Co., Houston, Tex. Pickles. 249,749; Mar. 6. Class 46.

Premier Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,405; Mar. 6. Class 38.

Purity Cross Model Kitchens, Inc., The, Orange, N. J., assignor to Delane Brown, Inc., Baltimore, Md. Canned tomatoes, fruit salad, spaghetti, etc. 224,109–10; Mar. 6. Class 46.

Rabinovitz-Morrow-Lichtenstein, Inc., Philadelphia, Pa. Boys' and men's clothing. 259,578; Mar. 6. Class 39.

Rainyday Club, The, New York, N. Y. Canes, parasols, and umbrellas. 257,936; Mar. 6. Class 41.

Ramsay, Charles A., Chicago, Ill. Ladies' and misses' frocks, suits, and coats. 258,426; Mar. 6. Class 39.

Randall, Ralph B., Seattle, Wash. Insecticide. 243,623; Mar. 6. Class 6.

Red Sun Products Company, Chicago, Ill. Fruit syrups and cordials for flavoring. 254,863; Mar. 6. Class 46.

Reichardt Cocoa & Chocolate Co., Inc., New York, N. Y. Candy. 260,527; Mar. 6. Class 46.

Reliance Manufacturing Company, Chicago, Ill. Shirts and underwear. 258,832; Mar. 6. Class 39.

Rett, William F., doing business as Nu-Ka-Na Remedy Company, Jersey City, N. J. Deodorant insecticide. 259,925; Mar. 6. Class 6.

Richmond Radiator Company, New York, N. Y. Coal-burning steam and water house-heating boilers. 260,468; Mar. 6. Class 34.

Robinson, Robert D., doing business as Hy-Tone Products, Kansas City, Mo. Automoblie cleaner polish. 259,218; Mar. 6. Class 16.

Rosman, Benjamin, New York, N. Y. Shoes. 258,045; Mar. 6. Class 39.

Royal Bakery. (See Chandler, Robert E.)

Sacks, I., & Sons, New York, N. Y. Silk, silk and cotton fabrics. 260,753; Mar. 6. Class 42.

Safety Electric Products Co., Los Angeles, Calif. Switches, box hangers, exit boxes, etc. 235,171; Mar. 6. Class 21.

Safety Mining Company, Chicago, Ill. Explosives. 259,749; Mar. 6. Class 9.

Saint Paul Milling Company, The, St. Paul, Minn. Wheat flour. 260,409; Mar. 6. Class 46.

Salol Chemical Company, Inc., The, Chicago, Ill. Antiseptic and germicide. 259,878; Mar. 6. Class 6.

Schaldach, Marie, Seattle, Wash. Newspaper section. 258,835; Mar. 6. Class 38.

Schmidt, Gerhard F., G. m. b. H., Munich, Germany. Syrup against coughing, preparations for destroying animals and plants, etc. 240,684; Mar. 6. Class 6.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 260,473; Mar. 6. Class 44.

Scriptex Ink and Paste Co., Philadelphia, Pa. Writing inks. 258,978; Mar. 6. Class 11.

Servwell Sales Corporation, Chicago, Ill. Electrical apparatus. 245,032; Mar. 6. Class 21.

Silander, H., & Co., Limited, London, England. Matches. 260,854; Mar. 6. Class 9.

Silverman, Emanuel S., doing business as Insurance Men's Supply Co., Brooklyn, N. Y. Portfolios. 234,162; Mar. 6. Class 3.

Smoca Manufacturing Co. (See Hatae, M.)

Solarine Company, Baltimore, Md. Metal polish. 260,413; Mar. 6. Class 4.

Sparta Ceramic Company, The, East Sparta, Ohio. Decorative floor and wall tiles. 259,289; Mar. 6. Class 12.

Standard Oil Company of New York, New York, N. Y. Monthly publication. 260,659; Mar. 6. Class 38.

Stearns, Frederick, & Co., Detroit, Mich. Preparation useful in the treatment of asthmatic and such other conditions. 260,197; Mar. 6. Class 6.

Stewart Silk Company, Inc., New York, N. Y. Silk piece goods. 258,888; Mar. 6. Class 42.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Tire chains. 259,258; Mar. 6. Class 13.

Superkeen Company, Inc., The, Salisbury, N. C. Razor sharpeners. 259,973; Mar. 6. Class 23.

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Temmler-Werke Vereinigte Chemische Fabriken Hermann Temmler, Berlin-Johannisthal, Germany. Medical preparation for headaches, migraine, neuralgia, etc. 259,974; Mar. 6. Class 6.

Therma Fabrik für Elektrische Heizung A.-G. vormals S. Blumer, Schwanden, Switzerland. Electrical heating and cooking apparatus. 257,455; Mar. 6. Class 21.

Thermolite Products Corporation, Chicago, Ill. Plastic material. 260,076; Mar. 6. Class 44.

Tompkins, A. G., Newark, N. J. Radiator covers. 259,262; Mar. 6. Class 32.

Trid Products Co. (See Williams, Clarence N.)

Tubbs Cordage Co., San Francisco, Calif. Manila rope. 260,599; Mar. 6. Class 7.

Union Metal Manufacturing Company, The, Canton, Ohio. Metal lighting standards or bases for electric lights, metal trolley poles, etc. 259,935; Mar. 6. Class 21.

United Electric Company, The, Canton, Ohio. Electrically-operated vacuum cleaners. 260,077; Mar. 6. Class 21.

U. S. Hame Company, Buffalo, N. Y. Hames. 260,248; Mar. 6. Class 3.

United States Hoffman Machinery Corporation, New York, N. Y. Garment presses. 259,703; Mar. 6. Class 24.

U. S. Manufacturing Corporation, Decatur, Ill. Corn poppers and frying utensils. 241,798; Mar. 6. Class 13.

U. S. Sanitary Specialties Corporation, Chicago, Ill. Compound adapted for use in cleaning and polishing. 259,149; Mar. 6. Class 4.

Universal Cooler Corporation, Detroit, Mich. Mechanical refrigerating units. 234,757; Mar. 6. Class 31.

Upjohn Company, The, Kalamazo, Mich. Pharmaceutical preparation. 260,200; Mar. 6. Class 6.

Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 260,538; Mar. 6. Class 10.

Watte Co., J. E., Chicago, Ill. Bathing suits. 241,646; Mar. 6. Class 39.

Weidlich Bros. M'f'g. Co., The, Bridgeport, Conn. Silverware. 259,266; Mar. 6. Class 28.

Wells-Lamont Manufacturing Co., Minneapolis, Minn. Knitted and woven fabric gloves. 258,665; Mar. 6. Class 39.

Western Distributors. (See Edelman, Morris.)

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 259,606; Mar. 6. Class 46.

Wiedeke, Gustav, Company, Dayton, Ohio. Tube and flue expanders, cutters, and beading tools. 243,835; Mar. 6. Class 23.

Wilbur, H. O., & Sons, Incorporated, Philadelphia, Pa. Sweet milk chocolate. 248,338; Mar. 6. Class 46.

Williams, Clarence N., doing business as Trid Products Co., Fresno, Calif. Cleaning and washing powder. 250,661; Mar. 6. Class 4.

Williams, J. B., Company, The, Glastonbury, Conn. Soap. 260,478; Mar. 6. Class 4.

Wilson Brothers, Chicago, Ill. Monthly publication. 260,367; Mar. 6. Class 38.

Wilson-Spear Co., Inc., Los Angeles, Calif. Boiler composition. 258,157; Mar. 6. Class 6.

Wolverine Tube Company, Detroit, Mich. Copper, brass, and aluminum tubing. 256,851; Mar. 6. Class 13.

Woodward, John G., & Co., doing business as Woodward's, Council Bluffs, Iowa. Candy. 257,828; Mar. 6. Class 46.

Worumbo Manufacturing Company, Bath, Me. Woolen piece goods. 258,609; Mar. 6. Class 42.

Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. 259,608; Mar. 6. Class 46.

Wuest, Adolph G., doing business as Active Elevator Company, Philadelphia, Pa. Electric dumb-waiters and elevators. 255,424; Mar. 6. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Bags, Paper. Union Bag & Paper Company. 68,679; renewed Apr. 21, 1928.

Pyroxylin products. Delettrez of France, Inc. 239,546; Mar. 6; Serial No. 248,882; published Dec. 27, 1927.

CLASS 4.

Cleaning compound, Dry-. Korn Pop Remedy Company. 239,411; Mar. 6; Serial No. 254,493; published Dec. 13, 1927.

Cleansing and scrubbing preparation. Midland Chemical Laboratories, Inc. 239,444; Mar. 6; Serial No. 256,471; published Dec. 13, 1927.

Compositions for cleaning painted woodwork, furniture, walls, carpets, etc. W. A. Blair. 239,685; Mar. 6; Serial No. 255,223; published Dec. 13, 1927.

Cream, Shaving. E. D. Bruce. 239,689; Mar. 6; Serial No. 254,346; published Dec. 20, 1927.

Cream, Shaving. Star Safety Razor Corporation. 239,682; Mar. 6; Serial No. 255,829; published Dec. 20, 1927.

Dressing preparation for patent-leather shoes. Smith-Ernster Laboratories, Inc. 239,416; Mar. 6; Serial No. 255,207; published Dec. 13, 1927.

Dust cloths, Treated. C. S. Conlon. 239,573; Mar. 6; Serial No. 252,548; published Dec. 27, 1927.

Hand-cleaning preparation. Deleto Company. 239,679; Mar. 6; Serial No. 256,766; published Dec. 27, 1927.

Heel ball, finishing wax, and brush polish. United Shoe Machinery Corporation. 239,517; Mar. 6; Serial No. 230,143; published Dec. 27, 1927.

Metal polish, soap, etc. John H. Lock Co. 239,659; Mar. 6; Serial No. 242,002; published Dec. 27, 1927.

Polish, Shoe. M. & M. Waintraub. 239,402; Mar. 6; Serial No. 256,091; published Dec. 6, 1927.

Polish, Stove. The United States Graphite Co. 69,125; renewed May 19, 1928.

Polishing and dressing material, Shoe. International Shoe Polish, Inc. 239,390; Mar. 6; Serial No. 253,539; published Dec. 6, 1927.

Powder for cleaning dentures. Toil-Ora Laboratories. 239,425; Mar. 6; Serial No. 255,945; published Dec. 13, 1927.

Preparation for cleaning furniture, etc. Cleanerine Company. 239,408; Mar. 6; Serial No. 255,161; published Dec. 6, 1927.

Preparations for washing, polishing, etc. F. Rochow & Co. Inc. 239,541; Mar. 6; Serial No. 248,060; published Dec. 6, 1927.

Saponaceous preparation. G. W. O. Martin. 239,373; Mar. 6; Serial No. 254,260; published Dec. 6, 1927.

Shining outfit, Shoe-. J. P. Hickey. 239,375; Mar. 6; Serial No. 253,997; published Nov. 22, 1927.

Soap. L. Bocchicchio. 239,405; Mar. 6; Serial No. 255,589; published Dec. 6, 1927.

Soap. Perkins Soap Company. 239,440; Mar. 6; Serial No. 256,636; published Dec. 13, 1927.

Soap. H. Smithline. 239,430; Mar. 6; Serial No. 256,487; published Dec. 13, 1927.

Soap. H. Smithline. 239,443; Mar. 6; Serial No. 256,488; published Dec. 13, 1927.

Soap and soap powders, and soluble alkali compounds. Washine-National-Sands, Inc. 239,410; Mar. 6; Serial No. 254,523; published Dec. 13, 1927.

Soap cream, Shaving-. Allied Merke Institutes, Inc. 239,374; Mar. 6; Serial No. 254,224; published Nov. 22, 1927.

Soap in liquid form. Kron-Glas Company. 239,434; Mar. 6; Serial No. 256,782; published Dec. 13, 1927.

Soap, soap flakes, soap powders, etc. Lehigh-Whitehall Soap Company. 239,439; Mar. 6; Serial No. 256,676; published Dec. 13, 1927.

Soaps. Naamlooze Vennootschap International Perfumery Company. 239,526; Mar. 6; Serial No. 238,516; published Dec. 13, 1927.

Top dressings, soaps, etc. W. B. Jacobs. 239,407; Mar. 6; Serial No. 255,307; published Nov. 29, 1927.

Washing powder. C. W. Clark. 239,406; Mar. 6; Serial 255,434; published Nov. 29, 1927.

Washing powder. R. L. Wortham. 239,509; Mar. 6; Serial No. 204,688; published Dec. 27, 1927.

Washing powders. J. Mast. 239,428; Mar. 6; Serial No. 256,414; published Dec. 13, 1927.

CLASS 6.

Asthma and bronchial tablets. F. M. Murphy. 239,548; Mar. 6; Serial No. 249,081; published Dec. 27, 1927.

Astringents, astringent cerates, bleach creams, etc. J. and J. Beauty Culture. 239,454; Mar. 6; Serial No. 257,010; published Dec. 27, 1927.

Astringents, bleach creams, beauty creams, face powders, etc. Lightfoot Schultz Company. 239,586; Mar. 6; Serial No. 255,183; published Dec. 27, 1927.

Breath tablets. Schandein & Lind. 65,573; renewed Oct. 1, 1927.

Caramel color, Chillproof. Wallerstein Company. 239,662; Mar. 6; Serial No. 242,323; published Dec. 20, 1927.

Chemical preparation. Los Angeles Chemical Company. 239,699; Mar. 6; Serial No. 255,520; published Dec. 27, 1927.

Compound. John Campbell & Co. 239,452; Mar. 6; Serial No. 257,162; published Dec. 20, 1927.

Cough drops, Mentholated. Dean Medicine Company. 69,992; renewed July 21, 1928.

Cream for removing hair. Berland Laboratories, Inc. 239,457; Mar. 6; Serial No. 256,900; published Dec. 27, 1927.

Creams, Face. "Mona Leea" Chemic-Cosmetical Co. 239,519; Mar. 6; Serial No. 230,945; published Dec. 27, 1927.

Deodorizing blocs. C. B. Dolge Co. 239,568; Mar. 6; Serial No. 252,693; published Dec. 27, 1927.

Depilatory. W. S. Carter. 239,592; Mar. 6; Serial No. 254,667; published Dec. 20, 1927.
Fungicides. Pittsburgh Plate Glass Company. 239,464; Mar. 6; Serial No. 256,302; published Dec. 27, 1927.
Germicide. Brewer & Company Inc. 239,448; Mar. 6; Serial No. 257,340; published Dec. 20, 1927.
Hair color restorer and tonic. Monticello Laboratories. 239,709; Mar. 6.
Hair grower, shampoo, hair tonic, etc. B. E. Browne. 239,520; Mar. 6; Serial No. 231,718; published Dec. 20, 1927.
Hair rinse, shampoo. Sunland Laboratories, Inc. 239,706; Mar. 6.
Insecticide. Century Chemical Co. 239,459; Mar. 6; Serial No. 256,660; published Dec. 27, 1927.
Liniment. Graywood's Chemical Company. 239,698; Mar. 6; Serial No. 255,708; published Dec. 20, 1927.
Lotion, Cosmetic. Honey Gold Co. 239,525; Mar. 6; Serial No. 238,373; published Dec. 27, 1927.
Lotion, face cream, toilet powder, Hand and face. I. McEwen. 239,456; Mar. 6; Serial No. 256,961; published Dec. 27, 1927.
Lotion, Hair. P. Romanelis. 239,449; Mar. 6; Serial No. 257,316; published Dec. 20, 1927.
Medicinal preparation. M. N. Berglof. 239,590; Mar. 6; Serial No. 254,888; published Dec. 20, 1927.
Medicinal preparation. Les Etablissements Poulenc Frères. 239,581; Mar. 6; Serial No. 251,915; published Dec. 27, 1927.
Medicinal preparations. Schenectady Hygienic Laboratory. 239,490; Mar. 6; Serial No. 257,034; published Dec. 20, 1927.
Medicinal tea. Osgood Bros. 239,466; Mar. 6; Serial No. 256,054; published Dec. 27, 1927.
Medicine. Knox Company. 239,462; Mar. 6; Serial No. 256,410; published Dec. 20, 1927.
Medicine, Asthma. L. Ryan. 239,545; Mar. 6; Serial No. 248,931; published Dec. 27, 1927.
Medicines. J. L. Lascoff. 69,632; renewed June 23, 1928.
Mouth washes. Edmanson, Bates & Company. 239,542; Mar. 6; Serial No. 248,481; published Dec. 20, 1927.
Ointment. M. H. Livingstone. 239,587; Mar. 6; Serial No. 255,116; published Dec. 27, 1927.
Ointments, Healing. J. A. Switalski. 239,455; Mar. 6; Serial No. 256,982; published Dec. 27, 1927.
Perfume. Guerlain Perfumery Corporation of New York. 239,458; Mar. 6; Serial No. 256,868; published Dec. 27, 1927.
Perfume. J. L. Lombard. 239,451; Mar. 6; Serial No. 257,173; published Dec. 20, 1927.
Perfume, toilet water, face powder, etc. Cadolle Frères Société à Responsabilité Limitée). 239,532; Mar. 6; Serial No. 257,048; published Dec. 20, 1927.
Perfumes and toilet waters. A. Choquet. 239,596; Mar. 6; Serial No. 254,172; published Dec. 27, 1927.
Pills. P. W. Grether. 239,552; Mar. 6; Serial No. 250,448; published Dec. 20, 1927.
Powder, Foot. Lake Chemical Co. 69,947; renewed July 21, 1928.
Preparation. Zap Chemical Company. 239,499; Mar. 6; Serial No. 256,435; published Dec. 20, 1927.
Preparation for lubricating metals. American Lanolin Corporation. 239,450; Mar. 6; Serial No. 257,268; published Dec. 20, 1927.
Preparation for the treatment of liver complaints. Welco Laboratories. 239,697; Mar. 6; Serial No. 255,947; published Dec. 27, 1927.
Prophylactic. L. H. Rudin. 239,712; Mar. 6.
Remedies for constipation. J. Grünthal 67,972; renewed Mar. 3, 1928.
Remedy for the treatment of affections of the heart. Laboratoires Deglande. 239,409; Mar. 6; Serial No. 254,780; published Dec. 20, 1927.
Salts. P. Spielhagen. 239,591; Mar. 6; Serial No. 254,767; published Dec. 27, 1927.
Salves. M. A. Zalewski. 69,755; renewed June 30, 1928.
Sensitizing medium. F. Wesel Manufacturing Company. 239,460; Mar. 6; Serial No. 256,596; published Dec. 27, 1927.
Shampoo. Ayer Company. 239,696; Mar. 6; Serial No. 255,956; published Dec. 27, 1927.
Shampoo, Pine-tar. Packer Manufacturing Company. 239,498; Mar. 6; Serial No. 256,482; published Dec. 20, 1927.
Solution of egg albumen. Mallinckrodt Chemical Works. 239,593; Mar. 6; Serial No. 254,638; published Dec. 20, 1927.
Toilet preparations. George A. Schmidt Company. 68,119; renewed Mar. 10, 1928.
Tonic and liniment, Blood. M. Taylor. 239,556; Mar. 6; Serial No. 251,086; published Dec. 27, 1927.
Tonic, Hair. Pro-Chemical Laboratories. 239,463; Mar. 6; Serial No. 256,323; published Dec. 27, 1927.
Tonic, Mineral. Troy Chemical Co. 239,461 Mar. 6; Serial No. 256,589; published Dec. 20, 1927.

CLASS 7.

Rope, Fiber. C. W. Hunt Company. 69,699; renewed June 30, 1928.
Rope, Fibre. Ajax Rope Company. 239,394; Mar. 6; Serial No. 257,267; published Dec. 20, 1927.
Rope, twine, and cordage. Columbian Rope Company. 239,527; Mar. 6; Serial No. 238,639; published Dec. 27, 1927.
Twine. Chase Bag Co. 239,395; Mar. 6; Serial No. 257,222; published Dec. 27, 1927.
Twine and cordage for wrapping lath and the like. Portland Cordage Co. 239,654; Mar. 6; Serial No. 253,659; published Nov. 15, 1927.

CLASS 8.

Ash receivers. Smokador Manufacturing Co. 239,628; Mar. 6; Serial No. 256,889; published Dec. 13, 1927.
Cigarette cases. Amity Leather Products Co. 239,622; Mar. 6; Serial No. 257,332; published Dec. 20, 1927.

CLASS 9.

Firearms, Cleaners for. D. C. Hooker. 239,574; Mar. 6; Serial No. 252,509; published Dec. 13, 1927.

CLASS 10.

Fertilizer, Phosphate. Read Phosphate Company. 68,457; renewed Apr. 7, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 66,941; renewed Jan. 7, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 68,101; renewed Mar. 10, 1928.
Fertilizers and agricultural chemicals. Consolidated Rendering Company. 239,537; Mar. 6; Serial No. 256,662; published Dec. 27, 1927.

CLASS 11.

Typewriter ribbons. L C Smith & Corona Typewriters Inc. 239,629; Mar. 6; Serial No. 256,888; published Dec. 27, 1927.

CLASS 12.

Paper, Fiber building and sheathing. Welt & Sons Paper Co. 69,487; renewed June 16, 1928.

CLASS 13.

Hardware and plumbing and steam-fitting supplies. Mox, Incorporated. 239,702; Mar. 6.
Metal valves, elbows, T's, and crosses. Commonwealth Brass Corporation. 239,707; Mar. 6.
Strainers and fry baskets, Kitchen. Hamblin & Russell Mfg. Co. 239,380; Mar. 6; Serial No. 255,991; published Dec. 27, 1927.
Water-closet bowls and lavatories, Vitreous-china. John Douglas Co. 70,009; renewed July 21, 1928.

CLASS 14.

Metal castings for clutch parts, brake drums, etc. Hunt-Spiller Manufacturing Corporation. 239,656; Mar. 6; Serial No. 244,230; published Dec. 20, 1927.
Steel and iron. Jonas & Colver, Limited. 67,115; renewed Jan. 14, 1928.
Wire, Bare or uncovered composition. Bridgeport Brass Company. 69,987–8; renewed July 21, 1928.
Wire, sheets, tubes, etc., Bronze. American Brass Company. 239,610; Mar. 6; Serial No. 255,734; published Dec. 20, 1927.

CLASS 15.

Gasoline, kerosene, oils, and greases. National Petroleum Exchange. 239,379; Mar. 6; Serial No. 256,050; published Dec. 27, 1927.
Gasoline, oils, and greases. Kesbec Sales Company. 239,663; Mar. 6; Serial No. 241,624; published Dec. 27, 1927.
Oils and greases, Lubricating. A. W. Harris Oil Company. 239,483; Mar. 6; Serial No. 253,594; published Nov. 15, 1927.
Petroleum products. Baltimore Gas Engineering Corporation. 239,479; Mar. 6; Serial No. 254,877; published Dec. 27, 1927.

CLASS 17.

Cigars. J. Di Santo. 239,506; Mar. 6; Serial No. 254,578; published Dec. 27, 1927.

CLASS 19.

Cruisers, launches, speed boats, etc. Chenevert and Company. 239,632; Mar. 6; Serial No. 256,808; published Dec. 27, 1927.
Wheels, Vehicle. Whitehead & Kales Company. 239,630; Mar. 6; Serial No. 256,848; published Dec. 27, 1927.

CLASS 21.

Dynamo-electric machines, motors, generators, etc. Continental Electric Co. Inc. 239,514; Mar. 6; Serial No. 222,012; published Dec. 27, 1927.
Electric suction cleaners. P. A. Geier Company. 239,397; Mar. 6; Serial No. 256,522; published Dec. 27, 1927.
Electrical lighting fixtures. J. Sable. 239,482; Mar. 6; Serial No. 253,216; published Dec. 27, 1927.
Insulated wire. Bridgeport Brass Company. 69,985; renewed July 21, 1928.
Radio transmitting and receiving sets, etc. F. B. Collins. 239,385; Mar. 6; Serial No. 255,435; published Dec. 27, 1927.
Unitary devices for rectifying and transforming commercial power current for radio use, commonly known as battery eliminators. Stewart Battery Co. 239,386; Mar. 6; Serial No. 255,405; published Dec. 27, 1927.

CLASS 22.

Balls, Rubber inflatable play. Eno Rubber Corporation. 239,382; Mar. 6; Serial No. 255,801; published Dec. 20, 1927.
Car to be used in amusement places. W. F. Mangels Company. 239,484; Mar. 6; Serial No. 253,706; published Dec. 20, 1927.
Cards, Playing. Brown & Bigelow. 239,599; Mar. 6; Serial No. 256,447; published Dec. 13, 1927.
Fishing rods and handles, etc. American Fork & Hoe Company. 239,511; Mar. 6; Serial No. 218,590; published Dec. 20, 1927.
Game, Card. Parker Brothers Inc. 239,605; Mar. 6; Serial No. 256,870; published Dec. 20, 1927.
Steel shafts for golf clubs. Horton Manufacturing Co. 239,544; Mar. 6; Serial No. 248,696; published Dec. 20, 1927.
Swimming floats, medicine balls, fishing reels, punching bags, etc. M. E. Blatt Co. 239,649; Mar. 6; Serial No. 246,070; published Dec. 20, 1927.
Toy sand loaders, pile drivers, etc. Moline Pressed Steel Co. 239,554; Mar. 6; Serial No. 250,703; published Dec. 20, 1927.

CLASS 23.

Carburetors. Carter Carburetor Corporation. 239,618; Mar. 6; Serial No. 257,660; published Dec. 27, 1927.
Filling machines for filling receptacles with fluids and semifluids, etc. National Co. 239,507; Mar. 6; Serial No. 254,469; published Dec. 27, 1927.
Ingot molds and cast-metal ladles for handling molten metal, Cast. American Car and Foundry Company. 239,536; Mar. 6; Serial No. 256,701; published Dec. 27, 1927.
Pumps. Kinney Manufacturing Co. 239,627; Mar. 6; Serial No. 257,016; published Dec. 27, 1927.
Separators, Cream. Montgomery Ward & Co. Incorporated. 239,631; Mar. 6; Serial No. 256,829; published Dec. 27, 1927.
Sprayers, spray pumps, and powder dusters. D. B. Smith & Company. 239,564; Mar. 6; Serial No. 252,866; published Dec. 27, 1927.
Tools, Handles for. M. Ackerman. 239,372; Mar. 6; Serial No. 256,157; published Dec. 27, 1927.

CLASS 25.

Locks, bag-frame, purse-frame, and pocketbook-frame. J. E. Mergott Company. 239,626; Mar. 6; Serial No. 257,018; published Dec. 27, 1927.

CLASS 26.

Chemical set for analyzing or detecting wood alcohol. Detectol Manufacturing Company. 239,503; Mar. 6; Serial No. 255,438; published Dec. 27, 1927.
Cinema projectors, Ray filters for. Beckley and Church Inc. 239,489; Mar. 6; Serial No. 257,045; published Dec. 27, 1927.
Rules, Measuring. Bausch & Lomb Optical Company. 239,513; Mar. 6; Serial No. 221,800; published Dec. 27, 1927.
Thermometers and barometers. E. B. Meyrowitz, Inc. 239,504; Mar. 6; Serial No. 255,386; published Dec. 27, 1927.

CLASS 27.

Clocks. New Haven Clock Co. 239,378; Mar. 6; Serial No. 256,051; published Dec. 27, 1927.
Watches, movements, cases, dials, and other parts of watches. H. Wilsdorf. 239,383; Mar. 6; Serial No. 255,783; published Dec. 27, 1927.

CLASS 28.

Bracelets. Rosenheim Co. Inc. 239,381; Mar. 6; Serial No. 255,823; published Dec. 27, 1927.

CLASS 29.

Brooms and brushes. Joseph Lay Company. 69,552; renewed June 23, 1928.
Brush. Magic Brush, Inc. 239,614; Mar. 6; Serial No. 254,970; published Dec. 20, 1927.
Brushes, Shaving. American Safety Razor Corporation. 239,609; Mar. 6; Serial No. 255,785; published Dec. 20, 1927.
Puffs, Powder. Jaciel Perfumers, Inc. 239,607; Mar. 6; Serial No. 256,124; published Dec. 20, 1927.
Toothbrushes. Rubber and Celluloid Products Company. 239,475–6; Mar. 6; Serial Nos. 256,485–6; published Dec. 27, 1927.

CLASS 30.

Plates, platters, cover dishes, etc. Lenox, Incorporated. 239,647; Mar. 6; Serial No. 247,748; published Dec. 27, 1927.

CLASS 31.

Mineral matter, Granular, etc. Cochrane Corporation. 239,681; Mar. 6; Serial No. 255,967; published Dec. 27, 1927.
Refrigerating apparatus, Electrical. Hvid Ice Machine Corporation. 239,555; Mar. 6; Serial No. 250,802; published Dec. 27, 1927.
Refrigerators. Kelvinator Corporation. 239,666–7; Mar. 6; Serial Nos. 240,264–5; published Dec. 20, 1927.

CLASS 32.

Tables, chairs, desks, etc. Frankl Galleries. 239,562; Mar. 6; Serial No. 252,,953; published Dec. 27, 1927.
Tables, Extension. Theodor Sauer Co. 239,393; Mar. 6; Serial No. 257,563; published Dec. 27, 1927.

CLASS 33.

Glass containers and glass containers with metal covers, All-. McLaren-Consolidated Cone Corporation. 239,480; Mar. 6; Serial No. 254,003; published Dec. 13, 1927.
Table and counter tops of glas, etc. Wells Glass Company. 239,398; Mar. 6; Serial No. 256,434; published Dec. 27, 1927.

CLASS 34.

Lighters, Cigar. Standard Devices Inc. 239,633; Mar. 6; Serial No. 256,795; published Dec. 27, 1927.
Lighters, Pyrophoric pocket. Evans Case Company. 239,485; Mar. 6; Serial No. 253,836; published Dec. 27, 1927.
Oil lamps. Standard Oil Co. of New York. 67,342–3; renewed Jan. 28, 1928.
Steam heating apparatus. C. A. Dunham Company. 239,547; Mar. 6; Serial No. 248,957; published Dec. 27, 1927.

CLASS 35.

Brake shoe liners or linings. Russell Manufacturing Company. 239,502; Mar. 6; Serial No. 255,471; published Dec. 27, 1927.
Tire covers, Automobile. Buttonless Tire Cover Company. 239,665; Mar. 6; Serial No. 240,527; published Dec. 27, 1927.
Tires. Montgomery Ward & Co. Incorporated. 239,497; Mar. 6; Serial No. 256,830; published Dec. 27, 1927.
Tires, tubes, and casings. Michelin et Cie. 239,576–7; Mar. 6; Serial Nos. 252,162–3; published Dec. 27, 1927.

CLASS 36.

Pianos and player pianos. George Steck & Co. 69,094; renewed May 19, 1928.

CLASS 37.

Bristols and papers. B. D. Rising Paper Company. 239,561; Mar. 6; Serial No. 257,813; published Dec. 27, 1927.
Crayons. Standard Crayon Manufacturing Co. 239,634; Mar. 6; Serial No. 257,642; published Dec. 27, 1927.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. 239,530; Mar. 6; Serial No. 257,641; published Dec. 27 ,1928.
Gummed paper tape and gummed cloth tape. Wortendyke Manufacturing Company. 239,704; Mar. 6.
Paper and envelopes, Writing. George B. Hurd & Co. 69,628; renewed June 23, 1928.
Paper and envelopes, Writing. George B. Hurd & Co. 69,663–4; renewed June 30, 1928.
Paper and paper napkins, Toilet. John Sexton and Company. 239,518; Mar. 6; Serial No. 230,265; published Dec. 27, 1927.
Paper, Crepe. Sears, Roebuck and Co. 239,560; Mar. 6; Serial No. 257,384; published Dec. 27, 1927.
Paper napkins. Domestic Mills Paper Company. 239,445; Mar. 6; Serial No. 256,455; published Dec. 27, 1927.
Paper, Oil. Standard Insulation Company. 239,441; Mar. 6; Serial No. 256,494; published Dec. 27, 1927.
Paper, Toilet. Fort Howard Paper Company. 239,531; Mar. 6; Serial No. 257,155; published Dec. 27, 1927.
Papers. Central Ohio Paper Company. 239,413; Mar. 6; Serial No. 254,121; published Dec. 27, 1927.
Pens. Sengbusch Self-Closing Inkstand Company. 239,400; Mar. 6; Serial No. 256,223; published Dec. 27, 1927.

CLASS 38.

Articles, Series of. V. G. Darling. 239,674–5; Mar. 6; Serial Nos. 257,226–7; published Dec. 13, 1927.
Cartoon strips. W. M. Conselman. 239,684; Mar. 6; Serial No. 255,295; published Nov. 22, 1927.
Cartoons, Newspaper. Newspaper Feature Service, Inc. 239,487; Mar. 6; Serial No. 256,880; published Dec. 27, 1927.
Certificates, Negotiable (bond-share). Bondshare Corporation. 239,515; Mar. 6; Serial No. 222,912; published Nov. 29, 1927.
Certificates of survey. O. D. Robifs. 239,414; Mar. 6; Serial No. 254,476; published Dec. 27, 1927.
Comic strip. NEA Service, Inc. 239,676; Mar. 6; Serial No. 257,076; published Dec. 13, 1927.
Copy, Advertising. E. P. Lincoln. 239,427; Mar. 6; Serial No. 256,322; published Dec. 13, 1927.
Fashion strip and cartoon. Standard Publishing Company. 239,646; Mar. 6; Serial No. 26,493; published Dec. 13, 1927.
Magazine. M. Freeman. 239,388; Mar. 6; Serial No. 253,586; published Dec. 27, 1927.
Magazine. M. Freeman. 239,399; Mar. 6; Serial No. 253,585; published Dec. 27, 1927.
Magazine. M. Freeman. 239,692–3; Mar. 6; Serial Nos. 253,583–4; published Dec. 27, 1927.
Magazine. Gilboe Publishing Corporation. 239,428; Mar. 6; Serial No. 255,846; published Nov. 29, 1927.

Magazine. King Features Syndicate, Inc. 239,433; Mar. 6; Serial No. 256,874; published Dec. 27, 1927.
Magazine. Oldman Brothers. 239,687; Mar. 6; Serial No. 254,764; published Dec. 6, 1927.
Magazine. Standard Publishing Company. 239,442; Mar. 6; Serial No. 256,491; published Dec. 27, 1927.
Magazine. E. Swarzwald. 239,529; Mar. 6; Serial No. 239,275; published Dec. 27, 1927.
Magazine. Textile Publishing Company. 239,549; Mar. 6; Serial No. 250,004; published Nov. 22, 1927.
Magazine section. Conde Nast Publications, Inc. 239,421; Mar. 6; Serial No. 255,594; published Nov. 29, 1927.
Magazines. Constructor, Incorporated. 239,643; Mar. 6; Serial No. 256,607; published Dec. 13, 1927.
Magazines. "2-O" Publishing Company. 239,645; Mar. 6; Serial No. 256,592; published Dec. 13, 1927.
Music sheets and books. J. J. Almanzo. 239,655; Mar. 6; Serial No. 244,809; published Nov. 22, 1927.
Newspaper articles. W. T. Gentz. 239,563; Mar. 6; Serial No. 252,901; published Dec. 13, 1927.
Newspaper cartoons. International Feature Service, Inc. 239,435; Mar. 6; Serial No. 256,871; published Dec. 13, 1927.
Newspaper cartoons. King Features Syndicate, Inc. 239,436; Mar. 6; Serial No. 256,873; published Dec. 13, 1927.
Newspaper cartoons. Newspaper Feature Service, Inc. 239,677–8; Mar. 6; Serial Nos. 256,881–2; published Dec. 13, 1927.
Newspaper fashion illustration, One-column. Standard Publishing Company. 239,438; Mar. 6; Serial No. 256,691; published Dec. 13, 1927.
Newspapers and other periodicals, Column of racing articles and comment appearing in. J. B. Snodgrass. 239,418; Mar. 6; Serial No. 255,538; published Dec. 6, 1927.
Newspapers, Syndicated section for publication in. Standard Publishing Company. 239,431; Mar. 6; Serial No. 256,492; published Dec. 13, 1927.
Periodical. Ancient Arabic Order Nobles of the Mystic Shrine for North America. 239,437; Mar. 6; Serial No. 256,760; published Dec. 27, 1927.
Periodical. Ballou-Wanzer Inc. 239,669; Mar. 6; Serial No. 239,635; published Dec. 27, 1927.
Periodical. G. W. Carnrick Co. 239,429; Mar. 6; Serial No. 256,448; published Dec. 13, 1927.
Periodical. Consolidated Features, Inc. 239,422; Mar. 6; Serial No. 255,620; published Nov. 29, 1927.
Periodical. "Yonkers Family Laundry Service Corporation. 239,644; Mar. 6; Serial No. 256,599; published Dec. 13, 1927.
Periodical bulletin. Consolidated Gas Company of New York. 239,688; Mar. 6; Serial No. 254,690; published Dec. 20, 1927.
Periodicals. Personal Arts Company. 239,638; Mar. 6; Serial No. 256,743; published Dec. 20, 1927.
Prints, Photographic. A. G. Momburg. 239,567; Mar. 6; Serial No. 252,781; published Nov. 22, 1927.
Prints, Photographic. Photo Litho Service. 239,412; Mar. 6; Serial No. 253,766; published Dec. 27, 1927.
Publication. Breskin & Charlton Publishing Corporation. 239,690; Mar. 6; Serial No. 253,936; published Dec. 20, 1927.
Publication. Buescher Band Instrument Co. 239,420; Mar. 6; Serial No. 255,591; published Dec. 6, 1927.
Publication. Burdick Corporation. 239,642; Mar. 6; Serial No. 256,658; published Dec. 13, 1927.
Publication. Correct Printing Company. 239,569; Mar. 6; Serial No. 252,689; published Nov. 29, 1927.
Publication. Jewish Advocate Publishing Co. 235,641; Mar. 6; Serial No. 256,674; published Dec. 13, 1927.
Publication. G. J. Meyer. 239,419; Mar. 6; Serial No. 255,568; published Nov. 29, 1927.
Publication. National Rifle Association. 239,550; Mar. 6; Serial No. 250,092; published Nov. 22, 1927.
Publication. E. L. Pratt. 239,691; Mar. 6; Serial No. 253,708; published Nov. 22, 1927.
Publications. G. B. Wadsworth. 239,528; Mar. 6; Serial No. 238,881; published Dec. 6, 1927.
Real-estate trust deed note. Mortgage Security Corporation of America. 239,521; Mar. 6; Serial No. 235,745; published Dec. 20, 1927.

CLASS 39.

Apparel, Wearing. J. J. Gentil G. m. b. H. 239,658; Mar. 6; Serial No. 243,804; published Dec. 27, 1927.
Aprons and collar sets. R. Kanter. 239,469; Mar. 6; Serial No. 256,940; published Dec. 27, 1927.
Baby set. Princeton Knitting Mills. 239,522; Mar. 6; Serial No. 236,056; published Dec. 27, 1927.
Boots and shoes. Hermetite Corporation. 239,594; Mar. 6; Serial No. 254,490; published Dec. 27, 1927.
Boots and shoes. Seiz, Schwab & Company. 69,982; renewed July 21, 1928.
Boots and shoes. Union Shoe Manufacturing Company. 239,583; Mar. 6; Serial No. 255,474; published Dec. 27, 1927.
Boots and shoes. United States Rubber Company. 239,589; Mar. 6; Serial No. 255,081; published Dec. 20, 1927.
Boots and shoes, Leather. Walton and Logan Company. 67,846; renewed Feb. 18, 1928.
Boots and shoes, Leather and canvas. C. H. Brown. 239,510; Mar. 6; Serial No. 216,014; published Dec. 20, 1927.
Boots, shoes, slippers, etc. D. M. Read Co. 239,516; Mar. 6; Serial No. 226,683; published Dec. 27, 1927.
Clothes, Boys' and children's. Big Store Co. 239,651; Mar. 6; Serial No. 246,012; published Dec. 27, 1927.
Clothing. Hindes & Gross. 239,408; Mar. 6; Serial No. 256,083; published Dec. 20, 1927.
Clothing. La Société Anonyme The Destrooper's Raincoat Company. 239,523; Mar. 6; Serial No. 237,444; published Dec. 20, 1927.
Clothing, Boys' and men's. Shirtcraft Company. 239,603–4; Mar. 6; Serial Nos. 256,879–80; published Dec. 27, 1927.
Coats. W. Daglias. 239,553; Mar. 6; Serial No. 250,490; published Dec. 20, 1927.
Coats, Ladies' fur. A. & B. Kass. 239,616; Mar. 6; Serial No. 254,636; published Dec. 27, 1927.
Coats, suits, riding habits, etc. M. Cowen Co. 239,477; Mar. 6; Serial No. 256,451; published Dec. 27, 1927.
Coats, vests, trousers, and overcoats, Rosenbaum Company. 239,472; Mar. 6; Serial No. 256,642; published Dec. 27, 1927.
Coats, vests, trousers, and overcoats. Rosenbaum Company. 239,473; Mar. 6; Serial No. 256,581; published Dec. 27, 1927.
Coats, vests, trousers, and overcoats. Rosenbaum Company. 239,600–2; Mar. 6; Serial Nos. 256,421–3; published Dec. 27, 1927.
Dresses. Craftwoven Fabrics, Inc. 239,404; Mar. 6; Serial No. 255,641; published Dec. 20, 1927.
Dresses. Mason and Carpenter. 239,615; Mar. 6; Serial No. 254,857; published Dec. 27, 1927.
Dresses, aprons, underwear, etc. Goldie Maid Garment Company. 239,611; Mar. 6; Serial No. 255,508; published Dec. 27, 1927.
Dresses, suits, and coats. W. L. Milner Company. 239,608; Mar. 6; Serial No. 255,857; published Dec. 20, 1927.
Gloves. F. Lebbe. 239,585; Mar. 6; Serial No. 255,310; published Dec. 27, 1927.
Gloves, Knit silk and knit cotton. Julius Kayser & Co. 69,911; renewed July 13, 1928.
Hats, Ladies' and misses'. Consolidated Millinery Company. 239,572; Mar. 6; Serial No. 252,549; published Dec. 20, 1927.
Hosiery. Chas. Chipman's Sons Co. 239,470; Mar. 6; Serial No. 256,809; published Dec. 20, 1927.
Hosiery. W. Golden. 239,557; Mar. 6; Serial No. 251,136; published Dec. 20, 1927.
Hosiery. Harrington & Waring. 239,606; Mar. 6; Serial No. 256,188; published Dec. 20, 1927.
Hosiery. May Hosiery Mills. 239,695; Mar. 6; Serial No. 253,851; published Dec. 27, 1927.
Hosiery. Weber & Friedrich, Inc. 239,376; Mar. 6; Serial No. 253,674; published Dec. 20, 1927.
Hosiery and underwear. Gold Hosiery Company. 239,613; Mar. 6; Serial No. 255,061; published Dec. 27, 1927.
Hosiery, underwear, and sweaters, Men's. Chicago Mail Order Company. 239,447; Mar. 6; Serial No. 256,534; published Dec. 27, 1927.
Insoles. Electric Appliance Co. 239,558; Mar. 6; Serial No. 251,181; published Dec. 20, 1927.
Neckties. Golset et Cie. 239,660; Mar. 6; Serial No. 242,532; published Dec. 20, 1927.
Neckties, suits, overalls, etc., Boys'. Havens-Blair-Cartlich. 239,543; Mar. 6; Serial No. 248,635; published Dec. 20, 1927.
Overalls. Kahn Manufacturing Company. 69,371; renewed June 9, 1928.
Overcoats and suits. L. J. & C. D. Jaffee Inc. 239,467; Mar. 6; Serial No. 257,009; published Dec. 20, 1927.
Pajamas, dresses, underwear, etc. Bradshaw. 239,668; Mar. 6; Serial No. 240,060; published Dec. 27, 1927.
Shirts. Parkley Shirt Co. 239,446; Mar. 6; Serial No. 256,372; published Dec. 27, 1927.
Shirts and pajamas. Louis Baskind & Co. 239,694; Mar. 6; Serial No. 253,976; published Dec. 27, 1927.
Shoes. Bancroft Walker Company. 239,465; Mar. 6; Serial No. 256,070; published Dec. 20, 1927.
Shoes. Fargo-Hallowell Shoe Co. 239,488; Mar. 6; Serial No. 231,145; published Nov. 30, 1926.
Shoes, Leather. Groves & Rood. 239,672–3; Mar. 6; Serial Nos. 239,471–2; published Dec. 20, 1927.
Suits and overcoats. L. J. & C. D. Jaffee Inc. 239,453; Mar. 6; Serial No. 257,100; published Dec. 27, 1927.
Suits and overcoats. L. J. & C. D. Jaffee Inc. 239,468; Mar. 6; Serial No. 257,069; published Dec. 20, 1927.
Suits and overcoats. Paris Company. 239,486; Mar. 6; Serial No. 256,885; published Dec. 20, 1927.
Suits and overcoats. Tru Craft Clothes, Inc. 239,612; Mar. 6; Serial No. 255,098; published Dec. 27, 1927.
Suits, overcoats, coats, etc. M. E. Blatt Co. 239,650; Mar. 6; Serial No. 246,067; published Dec. 20, 1927.
Topcoats. I. Grossman. 239,471; Mar. 6; Serial No. 256,776; published Dec. 20, 1927.
Topcoats and overcoats. Rosenbaum Company. 239,474; Mar. 6; Serial No. 256,580; published Dec. 27, 1927.
Topcoats, sport dresses, riding habits, etc. Abercrombie & Fitch Co. 239,578–9; Mar. 6; Serial Nos. 252,075–6; published Dec. 27, 1927.

Topcoats, sport dresses, riding habits, etc. Abercrombie & Fitch Co. 239,580; Mar. 6; Serial No. 252,074; published Dec. 27, 1927.
Undergarments, Ladies'. M. Klugman. 239,595; Mar. 6; Serial No. 254,459; published Dec. 20, 1927.
Underwear, Knit silk. Julius Kayser & Co. 69,817; renewed July 7, 1928.
Underwear, Knitted. New Hartford Knitting Company. 239,401; Mar. 6; Serial No. 256,203; published Dec. 20, 1927.
Union suits, pajamas, and nightshirts. I. S. Greenfeld. 239,432; Mar. 6; Serial No. 256,819; published Dec. 20, 1927.

CLASS 40.

Bob cover. G. Sattler. 239,597; Mar. 6; Serial No. 253,668; published Dec. 20, 1927.
Hair curlers, Nonelectrical. A. Kretschan. 239,700; Mar. 6; Serial No. 255,516; published Dec. 27, 1927.
Hairpins. E. I. Veitch. 239,598; Mar. 6; Serial No. 253,299; published Dec. 27, 1927.
Hatbands. Wick Narrow Fabric Company. 239,588; Mar. 6; Serial No. 255,083; published Dec. 20, 1927.
Needles and knitting needles, Hand sewing. Thomas Harper & Sons Ltd. 68,431; renewed Apr. 7, 1928.
Needles for hand sewing, Crewel. Thos. Harper & Sons, Ltd. 67,702; renewed Feb. 18, 1928.
Tape. E. P. Merriam. 239,584; Mar. 6; Serial No. 255,344; published Dec. 20, 1927.

CLASS 42.

Batistes, broadcloths, cambrics, gingham, etc. Sherman & Sons Company. 239,582; Mar. 6; Serial No. 251,795; published Dec. 13, 1927.
Cotton and linen slip covers. B. Salk. 239,508; Mar. 6; Serial No. 254,362; published Dec. 20, 1927.
Cotton and rayon piece goods. Parkhill Manufacturing Company. 239,392; Mar. 6; Serial No. 257,744; published Dec. 27, 1927.
Cotton cloth. Boott Mills. 239,661; Mar. 6; Serial No. 242,363; published Dec. 20, 1927.
Cotton piece goods. Bury Quilting Manufacturing Company. 239,533; Mar. 6; Serial No. 256,763; published Dec. 27, 1927.
Cotton piece goods. Pepperell Manufacturing Co. 68,576; renewed Apr. 14, 1928.
Cotton piece goods. Pepperell Manufacturing Co. 68,579; renewed Apr. 14, 1928.
Cotton piece goods. Pepperell Manufacturing Co. 68,697–9; renewed Apr. 21, 1928.
Cotton piece goods. Mamsutta Mills. 239,391; Mar. 6; Serial No. 257,909; published Dec. 27, 1927.
Cotton piece goods. Royal Textile Company. 239,711; Mar. 6.
Cotton pongee in the piece. Convertex Corporation. 239,648; Mar. 6; Serial No. 246,599; published Dec. 27, 1927.
Cotton, silk and cotton, etc., piece goods. Henry Glass & Co. 239,491; Mar. 6; Serial No. 257,009; published Dec. 13, 1927.
Cotton, silk, silk and cotton mixed, etc., piece goods. Arthur Beir & Co. Inc. 239,670–1; Mar. 6; Serial Nos. 239,562–3; published Dec. 27, 1927.
Fabrics, Camel's-hair. Lynx Corporation. 239,534; Mar. 6; Serial No. 256,733; published Dec. 20, 1927.
Fabrics in the piece. Cheney Brothers. 239,495–6; Mar. 6; Serial Nos. 256,859–60; published Dec. 13, 1927.
Fabrics in the piece. Cheney Brothers. 239,617; Mar. 6; Serial No. 257,661; published Dec. 27, 1927.
Goods, Dress. Fred Butterfield & Co. Inc. 239,664; Mar. 6; Serial No. 241,182; published Dec. 13, 1927.
Ribbons. Arthur Brandenstein Company. 239,538; Mar. 6; Serial No. 256,657; published Dec. 27, 1927.
Silk goods, cotton goods, etc. Gossett Dyeing & Finishing Co. 239,620; Mar. 6; Serial No. 257,677; published Dec. 20, 1927.
Silk piece goods. Empire Silk Co. 239,619; Mar. 6; Serial No. 257,620; published Dec. 27, 1927.
Silk piece goods. Stehli Fabrics Corporation. 239,505; Mar. 6; Serial No. 255,080; published Dec. 27, 1927.
Silk piece goods, silks and metal, and velvets and metal in the piece. Coudurier, Fructus & Descher. 239,624–5; Mar. 6; Serial Nos. 257,052–3; published Dec. 13, 1927.
Silks, Broad. M. C. Migel & Co. 67,746; renewed Feb. 18, 1928.
Silks, Broad. M. C. Migel & Co. 67,748; renewed Feb. 18, 1928.
Wool, cotton, and silk piece goods, and mixtures of the same. Société à Responsabilité Limitée "Rodier". 239,623; Mar. 6; Serial No. 257,088; published Dec. 13, 1927.
Woolen and worsted piece goods. Hager, Clark & Co. 239,705; Mar. 6.
Woolen piece goods. Forstmann & Huffmann Company. 239,492; Mar. 6; Serial No. 256,925; published Dec. 13, 1927.
Woolen piece goods. Forstmann & Huffmann Company. 239,493; Mar. 6; Serial No. 256,922; published Dec. 13, 1927.

CLASS 44.

Anus apparatus, tourniquets, etc., Artificial. Nye Company. 239,524; Mar. 6; Serial No. 238,230; published Dec. 20, 1927.
Burrs, mirrors, hand pieces. J. Charlestein. 239,478; Mar. 6; Serial No. 254,382; published Dec. 20, 1927.
Dental instruments, machines, and supplies. S. S. White Dental Mfg. Co. 68,845; renewed Apr. 28, 1928.
Eye and lens protectors. G. Mayerle. 239,387; Mar. 6; Serial No. 255,016; published Dec. 20, 1927.
Pads. Townsend Manufacturing Company. 239,384; Mar. 6; Serial No. 255,728; published Dec. 20, 1927.
Sanitary napkins. May Department Stores Company. 239,539; Mar. 6; Serial No. 256,631; published Dec. 20, 1927.
Thermometers. Faichney Instrument Corporation. 239,481; Mar. 6; Serial No. 253,876; published Dec. 20, 1927.
Tooth filling, Crystalline gold. S. S. White Dental Mfg. Co. 68,846; renewed Apr. 28, 1928.

CLASS 45.

Beverages. Big-Time Corporation. 239,500; Mar. 6; Serial No. 255,789; published Dec. 27, 1927.
Beverages. L. Burstyn. 239,501; Mar. 6; Serial No. 255,633; published Dec. 27, 1927.
Beverages and extracts or sirups for producing the same. R. Baldwin. 239,494; Mar. 6; Serial No. 256,896; published Dec. 27, 1927.
Beverages and sirups, extracts, concentrates, and flavors for making the same. E. W. Piper. 239,396; Mar. 6; Serial No. 257,193; published Dec. 27, 1927.

CLASS 46.

Butter and fat, butter or oil, etc., Vegetable. Best Foods, Inc. 239,417; Mar. 6; Serial No. 255,432; published Dec. 20, 1927.
Butter, milk, cream, etc. Gray-Von Allmen Sanitary Milk Company. 239,701; Mar. 6.
Candy. Robt. F. Mackenzie Co. 239,635; Mar. 6; Serial No. 257,425; published Dec. 27, 1927.
Candy. Quaker City Chocolate & Confectionery Company. 239,636; Mar. 6; Serial No. 256,967; published Dec. 27, 1927.
Candy confection. A. O. England. 239,657; Mar. 6; Serial No. 244,007; published Apr. 12, 1927.
Canned fruits. Griffith-Durney Co. 69,771; renewed July 7, 1928.
Canned fruits and vegetables. Griffith-Durney Co. 69,772; renewed July 7, 1928.
Canned garbanzos. G. Boschke. 239,653; Mar. 6; Serial No. 245,778; published Dec. 27, 1927.
Canned green-pea soup, consomme soup, vegetable, etc. Twitchell-Champlin Company. 239,540; Mar. 6; Serial No. 251,310; published Dec. 20, 1927.
Canned mincemeat, chowchow, pickles, relishes, etc. Schlorer Delicatessen Co. Inc. 239,708; Mar. 6.
Canned or preserved edibles. Wm. Numsen & Sons, Inc. 30,728; renewed Oct. 19, 1927.
Canned salmon. Northwestern Fisheries Company. 67,482; renewed Feb. 4, 1928.
Canned salmon. North Alaska Salmon Co. 69,981; renewed July 21, 1928.
Canned tamales. G. J. Taix. 239,640; Mar. 6; Serial No. 256,696; published Dec. 27, 1927.
Canned tuna fish, canned sardines. Cohn-Hopkins, Inc. 239,710; Mar. 6.
Coffee. Seven Day Coffee Company. 68,429; renewed Apr. 7, 1928.
Coffee. Seven Day Coffee Company. 69,018; renewed May 12, 1928.
Confection. H. Halsted and E. Kaufman. 239,570; Mar. 6; Serial No. 252,599; published Dec. 20, 1927.
Confection, Ice-cream. Breyer Ice Cream Company. 239,683; Mar. 6; Serial No. 255,546; published Dec. 20, 1927.
Extract powders, Malt-. Schreiber Products Corporation. 239,565–6; Mar. 6; Serial Nos. 252,795–6; published Dec. 20, 1927.
Fish, Frozen. British Columbia Fishing & Packing Company. 239,551; Mar. 6; Serial No. 250,434; published Dec. 27, 1927.
Flour, Cake and pastry. Calvin Hosmer, Stolte Co. 239,535; Mar. 6; Serial No. 256,728; published Dec. 20, 1927.
Flour, Wheat. Fremont Mills. 239,621; Mar. 6; Serial No. 257,355; published Dec. 20, 1927.
Flour, Wheat. Mosely & Motley Milling Co. 69,791–2; renewed July 7, 1928.
Flour, Wheat. Thompson Milling Company. 239,377; Mar. 6; Serial No. 256,142; published Dec. 20, 1927.
Flour, Wheat. Wells Flour Milling Company. 69,030; renewed May 12, 1928.
Food for invalids and children. Numol, Limited. 239,639; Mar. 6; Serial No. 256,740; published Dec. 20, 1927.
Fruits. J. C. Boyd. 239,389; Mar. 6; Serial No. 253,569; published Dec. 27, 1927.
Fruits and vegetables. Doctor A. R. Gould, Inc. 239,571; Mar. 6; Serial No. 252,598; published Dec. 27, 1927.
Fudge. P. C. Rader. 239,637; Mar. 6; Serial No. 256,745; published Dec. 27, 1927.
Garbanzos and garbanzo flour, meal, bran, etc. G. Boschke. 239,652; Mar. 6; Serial No. 245,779; published Dec. 27, 1927.

Gum, Chewing. National Gum Co. 239,512; Mar. 6; Serial No. 219,678; published Dec. 27, 1927.
Ham. Geo. A. Hormel & Company. 239,415; Mar. 6; Serial No. 254,851; published Dec. 20, 1927.
Milk and butter. Milk Producers Association of Central California. 239,686; Mar. 6; Serial No. 254,859; published Dec. 20, 1927.
Olive oil. V. Quartararo, Inc. 239,718; Mar. 6.
Oysters, meats, fruits, jellies, etc. Wm. Numsen & Sons, Inc. 30,887; renewed Nov. 23, 1927.
Paprika. A. A. Sayia. 239,680; Mar. 6; Serial No. 256,055; published Dec. 20, 1927.
Raisins with shell-less nuts, Mixture of. Sun-Goods Company. 239,559; Mar. 6; Serial No. 251,309; published Dec. 13, 1927.
Spices, seasonings, etc. McAtee-Newell Coffee Company. 239,424; Mar. 6; Serial No. 255,920; published Dec. 20, 1927.
Syrup, Malt. Providence Malt Company. 239,426; Mar. 6; Serial No. 256,304; published Dec. 20, 1927.
Syrups, Malt. F. L. Rucker. 239,703; Mar. 6.

CLASS 47.

Wine, Port. Offley, Forrester & Co. 62,026; renewed Apr. 16, 1927.

CLASS 48.

Beer, Near. American Brewing Co. of Rochester, N. Y. Inc. 239,575; Mar. 6; Serial No. 252,454; published Dec. 27, 1927.

ALPHABETICAL LIST OF LABELS.

Adelanto. For Apple Cider. J. R. Richardson. 33,592; Mar. 6.
Blue Bird. For Carbon Paper. S. M. Aron. 33,531; Mar. 6.
Blue Bow. For Fresh Oranges. McDermont & Wall. 33,549; Mar. 6.
Chief. For Fresh Oranges. Redlands Select Groves, Inc. 33,591; Mar. 6.
Coats, Gowns & Wraps. For Coats, Gowns, and Wraps. M. De May & Company. 33,536; Mar. 6.
D-G. For Canned Grapefruit. Florida Fruit Canners Inc. 33,541; Mar. 6.
Dog Food. For Food for Dogs. F. H. Bennett Biscuit Co. 33,532; Mar. 6.
Eagle Brand. For Malt Syrup. E. Lewis. 33,547; Mar. 6.
Egg B Cookies. For Cookies. M. Blinderman. 33,534; Mar. 6.
Ekco. For Fresh Tomatoes. Emery & Kavanagh Co. 33,540; Mar. 6.
Fete Champagne. For Nonalcoholic Beverages. Champagne Beverage Corp. 33,533; Mar. 6.
Gobs! They Eat Em Up. For Small Cakes and Pastries. Harris-Boyer Company. 33,543; Mar. 6.
Hazel Brand Beverage Syrup Raspberry True Fruit Flavor. For Raspberry Flavor Beverage Syrup, True Fruit Flavor. Geo. Rasmussen Co. 33,560; Mar. 6.
Hazel Brand Cocoanut. For Shredded Cocoanut. Geo. Rasmussen Co. 33,570; Mar. 6.
Hazel Brand Cocoanut Cookies. For Cocoanut Cookies. Geo. Rasmussen Co. 33,576; Mar. 6.
Hazel Brand Crushed Pineapple. For Crushed Pineapple. Geo. Rasmussen Co. 33,567; Mar. 6.
Hazel Brand Fancy Head Rice. For Rice. Geo. Rasmussen Co. 33,577; Mar. 6.
Hazel Brand Fancy Red Salmon. For Salmon. Geo. Rasmussen Co. 33,562; Mar. 6.
Hazel Brand French Dressing. For French Dressing. Geo. Rasmussen Co. 33,572; Mar. 6.
Hazel Brand Golden Bantam Corn. For Golden Bantam Corn. Geo. Rasmussen Co. 33,557; Mar. 6.
Hazel Brand Honey. For Pure Strained Honey. Geo. Rasmussen Co. 33,568; Mar. 6.
Hazel Brand Loganberries. For Loganberries. Geo. Rasmussen Co. 33,565; Mar. 6.
Hazel Brand Orange Marmalade. For Orange Marmalade. Geo. Rasmussen Co. 33,571; Mar. 6.
Hazel Brand Pitted Red Cherries. For Pitted Red Cherries. Geo. Rasmussen Co. 33,566; Mar. 6.
Hazel Brand Red Coloring. For Red Coloring Strawberry Shade. Geo. Rasmussen Co. 33,561; Mar. 6.
Hazel Brand Red Raspberries. For Red Raspberries. Geo. Rasmussen Co. 33,564; Mar. 6.
Hazel Brand Strawberries. For Strawberries. Geo. Rasmussen Co. 33,569; Mar. 6.
Hazel Brand Sugar Corn. For Sugar Corn. Geo. Rasmussen Co. 33,558; Mar. 6.
Hazel Brand Tea. For Tea. Geo. Rasmussen Co. 33,563; Mar. 6.
Hazel Brand Telephone Peas. For Telephone Peas. Geo. Rasmussen Co. 33,559; Mar. 6.
Hazel Brand Thousand Island Dressing. For Thousand Island Dressing. Geo. Rasmussen Co. 33,575; Mar. 6.
Hazel Brand Tomato Catsup. For Tomato Catsup. Geo. Rasmussen Co. 33,573; Mar. 6.
Hazel Brand Unsweetened Evaporated Milk. For Unsweetened Evaporated Milk. Geo. Rasmussen Co. 33,574; Mar. 6.
Kant Scratch. For Polishing Powders. Hadley Mfg. Co. 33,542; Mar. 6.
L S Fire Proof Dry Cleaner. For Fireproof Dry Cleaner. W. Le Saint. 33,546; Mar. 6.
Luseaux . . . The Great Chick Saver and Poultry Profit Maker. For a Poultry Preparation. Luseaux Company. 33,548; Mar. 6.
Menthorets. For Cigarettes. Rosedor Cigarette Co. 33,594; Mar. 6.
Muscle Shoals Killbug Insect Spray. For an Insect Spray. M. M. Heptonstall. 33,544; Mar. 6.
National Brand Oleomargarine. For Oleomargarine. National Tea Co. 33,555; Mar. 6.
National Brand Pure Cream Butter. For Butter. National Tea Co. 33,554; Mar. 6.
National's Best Cocoanut Cookies. For Cocoanut Cookies. National Tea Co. 33,552; Mar. 6.
National's Best Fruit Cookies. For Fruit Cookies. National Tea Co. 33,553; Mar. 6.
National's Best Lemon Cookies. For Lemon Cookies. National Tea Co. 33,550; Mar. 6.
National's Best Sugar Cookies. For Sugar Cookies. National Tea Co. 33,551; Mar. 6.
Par-X. For Coffee. Par-X Service Corporation. 33,556; Mar. 6.
Puppy Food. For Food for Puppies. F. H. Bennett Biscuit Co. 33,533; Mar. 6.
Quality Seal. For Brooms. Southwestern Broom Mfg. Co. 33,595; Mar. 6.
Sanforstan. For Rugs. Stephen Sanford & Sons, Inc. 33,596; Mar. 6.
Sanitary Wrapper. For Milk. B. Do Brocky. 33,537; Mar. 6.
Seal Skin Peanuts Sealed by Nature Salted by Radio Nut Company. For Peanuts. E. F. Kemp. 33,545; Mar. 6.
Sollax A Little does a Lot. For Washing and Cleaning Compound and for Laundry Use. Economics Laboratory, Inc. 33,538; Mar. 6.
Sweet Girl Brand Apricots. For Apricots. Geo. Rasmussen Co. 33,590; Mar. 6.
Sweet Girl Brand Cut Green Beans. For Green Beans. Geo. Rasmussen Co. 33,583; Mar. 6.
Sweet Girl Brand Extra Sifted Early June Peas. For Early June Peas. Geo. Rasmussen Co. 33,586; Mar. 6.
Sweet Girl Brand Extra Telephone Peas. For Telephone Peas. Geo. Rasmussen Co. 33,588; Mar. 6.
Sweet Girl Brand Fancy Green Stringless Beans. For Stringless Beans. Geo. Rasmussen Co. 33,584; Mar. 6.
Sweet Girl Brand Fancy Red Salmon. For Salmon. Geo. Rasmussen Co. 33,579; Mar. 6.
Sweet Girl Brand Ginger Ale. For Ginger Ale. Geo. Rasmussen Co. 33,581; Mar. 6.
Sweet Girl Brand Root Beer. For Root Beer. Geo. Rasmussen Co. 33,582; Mar. 6.
Sweet Girl Brand Royal Anne Cherries. For Royal Anne Cherries. Geo. Rasmussen Co. 33,589; Mar. 6.
Sweet Girl Brand Sauerkraut. For Sauerkraut. Geo. Rasmussen Co. 33,578; Mar. 6.
Sweet Girl Brand Sifted Early June Peas. For Early June Peas. Geo. Rasmussen Co. 33,587; Mar. 6.
Sweet Girl Brand Tiny Sifted Early June Peas. For Early June Peas. Geo. Rasmussen Co. 33,585; Mar. 6.
Sweet Girl Brand Tomatoes. For Tomatoes. Geo. Rasmussen Co. 33,580; Mar. 6.
Western. For Fresh Oranges. Ritchie-Mills Packing Co. 33,593; Mar. 6.
White House. For Fresh Lettuce. Emery & Kavanagh Co. 33,539; Mar. 6.

ALPHABETICAL LIST OF PRINTS.

Aladdin Electro Plater. For Portable Electro Platers. P. J. F. Batenburg. 10,685; Mar. 6.
Arguto. For Machine Bearings. N. Mellor. 10,698; Mar. 6.
Bananas With Post's Bran Flakes Form 4965. For Post's Bran Flakes. Postum Company. 10,793; Mar. 6.
Delicious and Refreshing. For Coca-Cola. Coca-Cola Company. 10,690; Mar. 6.
Extra Protection at The Vital Freezing Point. For Moto-Gard, an Automobile Shutter. Brewer-Titchener Corporation. 10,688; Mar. 6.
Fresh Fruit With Post's Bran Flakes Form 4964. For Post's Bran Flakes. Postum Company. 10,704; Mar. 6.
Grape-nuts Balanced Nourishment Form 5022. For Grape-nuts. Postum Company. 10,700; Mar. 6.
Grape-nuts Delicious Flavor Form 5021. For Grape-nuts. Postum Company. 10,707; Mar. 6.
Hoo! Hoo!! That Surely Must Be a Firestone, Why It's Tougher Than a Pigs Nose. For Automobile Tires. J. D. Jackson. 10,696; Mar. 6.
Mark-It Memmo. For Household Commodities. Be Vier and Co. 10,686; Mar. 6.
Over The Top With Style Bumpers. For Vehicle Bumpers. C. G. Spring & Bumper Company. 10,689; Mar. 6.
Pause A Minute Refresh Yourself. For Coca-Cola. Coca-Cola Company. 10,693; Mar. 6.
Post Toasties Double Crisp and Double Good. Form 4982. For Post Toasties. Postum Company. 10,708; Mar. 6.
Post Toasties Stay Crisp In Milk ot Cream. Form 4981. For Post Toasties. Postum Company. 10,706; Mar. 6.
Post's Bran Flakes Bran You'll Like Every Day Form 4966. For Post's Bran Flakes. Postum Company. 10,705; Mar. 6.
Post's Bran Flakes Now You'll Like Bran Form 4963. For Post's Bran Flakes. Postum Company. 10,701; Mar. 6.
Post's Bran Flakes Ready To Eat Form 4962. For Post's Bran Flakes. Postum Company. 10,702; Mar. 6.
Remedor World Of Ease. For a Treatment for Foot Ailments. E. Esposito. 10,695; Mar. 6.
Rice's Coreless Carrot. For Seeds. Jerome B. Rice Seed Co. 10,709; Mar. 6.
Roach Killer No. 9 Is The Envelope Kind. For a Roach Killer. W. C. McKee. 10,697; Mar. 6.
State House Coffee. For Coffee. J. P. Devir. 10,694; Mar. 6.
Swank Collar Holder—Looks Like a Pin But Isn't. For Swank Collar Holders. Baer & Wilde Company. 10,684; Mar. 6.
That 'Taste-Good' Feeling. For Coca-Cola. Coca-Cola Company. 10,691; Mar. 6.
Treat Yourself Right. For Coca-Cola. Coca-Cola Company. 10,692; Mar. 6.
Water Freezes Here First. For Moto-Gard, an Automobile Shutter. Brewer-Titchener Corporation. 10,687; Mar. 6.
What Are You Doing Tonight? For Food Served in a Resturant. Charles Miller and Sol Jaffa. 10,699; Mar. 6.
Your Shot—Big Bill. For a Beverage—Namely, a Soft Drink. Taylor-Long Company. 10,710; Mar. 6.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A/S Dansk Pressefabrik. (See Skov, Henry A., assignor.)
Abbamonte, Antistene, Cheyenne, Wyo. Cylinder cock. 1,661,915; Mar. 6.
Abram, Edmund W., London, England, assignor to L. Fondeville, New York, N. Y. Teapot, coffeepot, and the like. 1,662,020; Mar. 6.
Accounting & Tabulating Corporation of Gt. Britain, Limited, The. (See Thomas, Arthur, assignor.)
Airship Guarantee Company. (See Wallis, B. N., and Burney, assignors.)
Albert, August. (See Pfleger, J., and Albert.)
Allen, Andrews, Glencoe, Ill. Draft mechanism. 1,661,317; Mar. 6.
Allen, Samuel, Jonesboro, Ill. Hot-tamale-forming machine. 1,661,916; Mar. 6.
Allegemeine Gesellschaft für Chemische Industrie. (See Edeleanu, Lazar, assignor.)
Althoff, Lawrence A., La Porte, Ind. Range. 1,661,647; Mar. 6.
Altpeter, Ludwig, Trier, Germany. Centrifuge. 1,661,782; Mar. 6.
Aluminum Company of America. (See Taylor, Cyril S., assignor.)
Ambrose, Frank F., Los Angeles, Calif. Screw pump. 1,661,237; Mar. 6.
American Bottle Company, The. (See Ginter, Paul A., assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Solvent Recovery Corporation. (See Barnebey, Oscar L., assignor.)
American Stove Company. (See Nicolaus, Frederic G., assignor.)
American Telephone and Telegraph Company. (See Clark, A. B., and Gannett, assignors.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Valve and Meter Company. (See Gray, Wallace M., assignor.)
Ames, Edgar. (See Ellis, Robert E., assignor.)
Anchor Cap & Closure Corporation. (See Vessy, Clifford W., assignor.)
Anderson, Albert, Marquette, Nebr. Piston. 1,661,917; Mar. 6.
Anderson, Harry P. H. (See McCallum, J., and Anderson.)
Apfel, Philip F., Seattle, Wash. Apparatus for drying laundry. 1,661,551; Mar. 6.
Ariens, George A., Jeffersonville, Ind. Windshield wiper. 1,661,152; Mar. 6.
Armstrong, Alan, Tynemoth, assignor to Pilkington Brothers Limited, Liverpool, England. Production of welded wire fabric and apparatus therefor. 1,661,156; Mar. 6.
Armstrong, Eliot, assignor to Niagara Metal Stamping Corporation, Niagara Falls, N. Y. Tent pin, stake, or the like. 1,661,867; Mar. 6.
Armstrong, John A., and G. O. Benson, assignors to Niagara Metal Stamping Corporation, Niagara Falls, N. Y. Clamping device. 1,661,868; Mar. 6.
Arnao, Peter, Brooklyn, N. Y. Baby crib. Des. 74,587; Mar. 6.
Arnold Print Works. (See de Göncz, Denis, assignor.)
Arnold Print Works. (See de Göncz, D., and Jones, assignors.)
Anopol, Louis M., Chicago, Ill. Table pad. 1,661,987; Mar. 6.
Arnstein, Karl, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Hull structure for rigid airships. 1,662,021; Mar. 6.
Arnstein, Leonard A., New York, N. Y. Bottle-capping machine. 1,661,401; Mar. 6.
Artcraft Metal Stamping Corporation. (See Shapiro, Theodore, assignor.)
Asbestos Shingle, Slate & Sheathing Company. (See Frey, Ralph E., assignor.)
Associated Silver Company. (See Lashar, Thomas B., assignor.)
Astley, James F., Camden, N. J. Wrench. 1,661,402; Mar. 6.
Augenstein, Carl, Cranston, and R. Vogel, Providence, assignors to Automatic Gold Chain Company, Edgewood, R. I. 1,661,869; Mar. 6.
Autocall Company, The. (See Love, F. B., and Smith, assignors.)
Autocall Company, The. (See Smith, Boyd H., assignor.)
Automatic Bobbin Cleaner Co. (See Henderson, J. J., and Deering, assignors.)
Automatic Electric Inc. (See Obergfell, Herbert F., assignor.)
Automatic Electric Inc. (See Steblik, Rudolph F., assignor.)
Automatic Gold Chain Company. (See Augenstein, C., and Vogel, assignors.)
Automotive Valves Co., The. (See Burtnett, Everett R., assignor.)
Ayre, William W., West Englewood, N. J. Antifreeze container. 1,661,354; Mar. 6.
Ayres, Elwood B., Melrose Park, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Spiral gear box. 1,661,088; Mar. 6.
Baar, Louis, Los Angeles, Calif. Vacuum-cleaner attachment. 1,661,553; Mar. 6.
Babbitt, Tillman C., and C. E. Hopfenbeck, Salt Lake City, Utah. Cleaning tool. 1,661,552; Mar. 6.
Bacon, Chester A., assignor to Bowen Products Corporation, Auburn, N. Y. Lubricating system. 1,662,022; Mar. 6.
Bacon, Ross M. (See Groene, W. F., and Bacon.)
Bailey, Leon J. (See Ryder, H. M., and Bailey.)
Baillie, Matthew, Winnipeg, Manitoba, Canada. Fruit-juice extractor. 1,661,522; Mar. 6.
Baker-Raulang Company, The. (See Remde, Edward H., assignor.)
Baker, Russell W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Method and machine for lining an armature core with a flexible strip. 1,661,355; Mar. 6.
Baker, Wedworth V., Detroit, Mich. Washing machine. 1,661,356; Mar. 6.
Ball, Joseph A., Cambridge, E. A. Gallison, Watertown, and E. A. Weaver, Brookline, assignors to Technicolor Motion Picture Corporation, Boston, Mass. Cinematographic apparatus. 1,661,157; Mar. 6.
Ball, Thomas J., Boston, Mass. High-speed traction snowplow. 1,661,158; Mar. 6.
Ballard, Otis, Toledo, Ohio. Pneumatic piano control. 1,661,318; Mar. 6.
Baldwin, Joseph P., assignor to The Kingsville Lumber Company, Kingsville, Tex. Saddle horn. 1,661,989; Mar. 6.
Baldwin, Leon F. N., Edgewood, assignor of one-half to B. S. Clark, Providence, R. I. Street marker. 1,661,870; Mar. 6.
Baldwin, Nathaniel, East Mill Creek, Utah. Acoustic diaphragm and loud speaker combination. 1,661,523; Mar. 6.
Banta, George F., assignor of one-half to L. A. Banta, and one-half to F. B. Kerr, Clearfield, Pa. Door closure. 1,661,554; Mar. 6.
Banta, Len A., et al. (See Banta, George F., assignor.)
Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co. Dish-forming machine. 1,661,248; Mar. 6.
Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Cup dispenser. 1,661,455; Mar. 6.
Barbour, Thomas, Belfast, Ireland. Hackling machine. 1,661,212; Mar. 6.
Barbour, Thomas, Belfast, Ireland. Hackling machine. 1,661,213; Mar. 6.
Barker, Horace E., Brooklyn, N. Y. Dental device. 1,661,713; Mar. 6.
Barnebey, Oscar L., Cleveland, Ohio, assignor to American Solvent Recovery Corporation. Separating liquids. 1,661,403; Mar. 6.
Barnet Leather Company. (See Laemmle, George J., assignor.)
Barnett, James, Baltimore, Md. Radiocondenser. 1,661,159; Mar. 6.
Bartlett, Charles H. (See Varker, N., Kemps, and Bartlett.)
Bartlett, Harry D., Delavan, Wis. Radiolog. 1,661,456; Mar. 6.
Bassett Metal Goods Company. (See Russ, John B., assignor.)
Basick Manufacturing Company, The. (See Hubbell, Benjamin F., assignor.)
Basick Manufacturing Company, The. (See Murphy, Howard J., assignor.)

Bassick Manufacturing Company, The. (See Murphy, H. J., and Carr, assignors.)
Bate, Thomas C., et al. (See Jackson, Maunsell B., assignor.)
Bates, Clarence B., Marshalltown, Iowa. Door opening and closing device. 1,661,648; Mar. 6.
Bates, Mortimer F., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Torpedo director. 1,661,686; Mar. 6.
Baumberger, William J., Davenport, assignor to The Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,662,023; Mar. 6.
Baumberger, William J., Davenport, assignor to Micro Machine Company, Bettendorf, Iowa. Work support. 1,662,024; Mar. 6.
Baumgardner, James F., Stoneboro, Pa. Air cooler. 1,661,160; Mar. 6.
Baumer, Paul, Frauenfeld, Switzerland. Loose-leaf binder. 1,661,524; Mar. 6.
Baus, Richard E., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Shipping device. 1,661,457; Mar. 6.
Baus, Richard E., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Loading automobile bodies in freight cars. 1,661,458; Mar. 6.
Baus, Richard E., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Loading automobile bodies in freight cars. 1,661,459; Mar. 6.
Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Confection-coating machine. 1,661,460; Mar. 6.
Beattie, Kenneth P., Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va. Dish. Des. 74,588; Mar. 6.
Beattie, Kenneth P., Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va. Sugar bowl. Des. 74,589; Mar. 6.
Beattie, Kenneth P., Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va. Teapot. Des. 74,590; Mar. 6.
Beattie, Kenneth P., Hopkins, Mich., assignor to The Taylor, Smith & Taylor Company, Chester, W. Va. Pitcher. Des. 74,591; Mar. 6.
Bechtol, Archie H., Daytona Beach, Fla., and W. A. Tratsch, Chicago, Ill. Billiard table or similar article. Des. 74,592; Mar. 6.
Beck, Adolf, Bitterfeld, assignor to the firm I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Refining light metals such as magnesium or aluminum or their alloys and recovering such metals from scrap. 1,661,526; Mar. 6.
Beede, Herbert G., Pawtucket, R. I. Garment-pressing machine. 1,661,153; Mar. 6.
Bell Telephone Laboratories, Incorporated. (See Jordan, William C., assignor.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Bénit, Henri, Paris, France. Driving mechanism for winders for artificial silk. 1,661,990; Mar. 6.
Bénit, Henri, Paris, France. Reel for cables. 1,661,991; Mar. 6.
Benjamin, Walter R., Granite City, Ill. Toy building element. 1,661,687; Mar. 6.
Beno, Vilma, Astoria, N. Y. Large-pane-window cleaner. 1,661,918; Mar. 6.
Benson, George O. (See Armstrong, J. A., and Benson.)
Beougher, Gael L., Orion, Kans. Folding egg case. 1,661,161; Mar. 6.
Bergmann, Jean. (See Thomas, Lucie, assignor.)
Bergström, Karl, Berthierville, Quebec, Canada. Matchbox-filling machine. 1,661,783; Mar. 6.
Berlin Glove Co. (See Jensen, Peter S. B., assignor.)
Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon soles. 1,661,319; Mar. 6.
Bertschinger, Charles F., Jamaica, N. Y., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J. Tank-sealing means. 1,661,404; Mar. 6.
Best, Clarence L., Elmhurst, assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif. Traction engine. 1,661,649; Mar. 6.
Best, George S., San Diego, Calif. Door signal. Des. 74,593; Mar. 6.
Bilan, John, Flint, Mich. Electric radiator. 1,661,281; Mar. 6.
Billings, Clarence E. (See Fatscher, G. C., and Billings.)
Billings & Spencer Company, The. (See Dowd, John H., assignor.)
Bills, Edward C., Redondo Beach, Calif. Trolling spoon. 1,661,688; Mar. 6.
Binz, Arthur, and C. Räth, Berlin, Germany. Preparation of heterocyclic arsenic compounds. 1,661,871; Mar. 6.
Bird, John C., assignor to Union Steam Pump Company, Battle Creek, Mich. Valve mechanism for steam engines. 1,661,154; Mar. 6.
Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Coating apparatus. 1,662,042; Mar. 6.
Bizzarri, Anthony, assignor, by mesne assignments, to Specialty Patents Holding Co., Inc., New York, N. Y. Automobile body. Des. 74,594; Mar. 6.
Blackburn, Jasper, Webster Groves, Mo. Automatic preselector and shifting device for sliding gear transmissions. 1,661,992; Mar. 6.
Blackledge, John W., Chicago, Ill. Vehicle spring regulator. 1,661,650; Mar. 6.
Blake, George E., Springfield, Mass., and J. H. Bruninga, St. Louis, Mo., assignors, by mesne assignments, to H. Hyman, New York, N. Y. Spotlight. 1,661,784; Mar. 6.
Bliss, Robert H., Syracuse, N. Y. Window. 1,661,162; Mar. 6.
Blomstrom, Lowell C., assignor to Federal Mogul Corporation, Detroit, Mich. Loading block for assembling half bearings for machining. 1,661,163; Mar. 6.
Bodenhofer, Fanny, New York, N. Y. Window cleaner. 1,662,038; Mar. 6.
Bodker, Albert J., Ponchatoula, La. Rotary internal-combustion engine. 1,661,593; Mar. 6.
Bolvin, Napoleon, Berlin, N. H. Paper-towel cabinet. 1,661,357; Mar. 6.
Bonney-Floyd Company, The. (See Floyd, Walter B., assignor.)
Borda, Carlos J., Bogota, Colombia. Leveling device. 1,661,993; Mar. 6.
Born, Alfred, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Extrusion press. 1,661,594; Mar. 6.
Bossart, Paul N., assignor to Union Switch & Signal Company, Swissvale, Pa. Electromagnetic apparatus. 1,661,651; Mar. 6.
Boston Machine Works Company. (See Osgood, Walter P., assignor.)
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Electric candle socket. 1,661,689; Mar. 6.
Bowen, Howard E., Baltimore, Md. Meat-seasoning fork. 1,661,595; Mar. 6.
Bowen Products Corporation. (See Bacon, Chester A., assignor.)
Bradbury, Walter W., St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wood-heel-turning machine 1,661,320; Mar. 6.
Bradley Washfountain Company (See Heine, Herman E., assignor.)
Braff, Albin F., and F. Ottoson, Superior, Wis. Door check and holder. 1,661,164; Mar. 6.
Brake, George U., Fort Wayne, Ind. Window-cleaning device. 1,661,358; Mar. 6.
Branington, Edwin O., assignor of one-half to O. A. Peters, Rochester, N. Y. Water motor. 1,661,872; Mar. 6.
Brauer, Arthur J., Glendale, F. P. Wagner, and W. S. Overton, assignors to Brauer Bros. Shoe Co., St. Louis, Mo. Making boots or shoes. 1,661,321; Mar. 6.
Brauer Bros. Shoe Co. (See Brauer, A. J., Wagner, and Overton, assignors.)
Breakstone Bros. Inc. (See Josephson, Louis, assignor.)
Brennan, Arthur T., Detroit, Mich. Method of and apparatus for manufacturing screen-frame stock. 1,661,714; Mar. 6.
Brennan, John E., and C. C. Loomis, Ilion, N. Y., assignors to Remington Arms Company, Inc. Firearm. 1,662,025; Mar. 6.
Briggs Manufacturing Company. (See Roberts, Ralph S., assignor.)
Britt, Benjamin H. (See Ward, W. S., and Britt.)
Britt, Benjamin H., Bronx, N. Y., assignor, by mesne assignments, to Commercial Truck Company, Philadelphia, Pa. Axle construction. 1,661,815; Mar. 6.
Broluska, Amel B., Detroit, Mich. Spark plug. 1,661,405; Mar. 6.
Broluska, Amel B., Detroit, Mich. Casing for pneumatic tubes. 1,661,461; Mar. 6.
Broluska, Amel B., Detroit, Mich. Tire structure. 1,661,462; Mar. 6.
Brophy, Gerald R., Schenectady, N. Y., assignor to General Electric Company. Metallic gear and making the same. 1,662,026; Mar. 6.
Broslus, Edgar E., Pittsburgh, Pa. Cinder-notch stopper. 1,661,745; Mar. 6.
Brown, George H., Nevada, Mo. Automatic porch light. 1,661,994; Mar. 6.
Brown, Kirk, Montclair, N. J. Gauge for liquids. 1,661,995; Mar. 6.
Bruninga, John H. (See Blake, G. E., and Bruninga.)
Bruninga, John H., and E. P. Evers, St. Louis, Mo., assignors to H. Hyman, New York, N. Y. Battery hand lamp. 1,661,785; Mar. 6.
Bruno, C., & Son, Inc. (See Stark, Theodore H., assignor.)
Brush, Alanson P., Detroit, Mich., assignor to The Simplex Piston Ring Co. of America, Inc., Cleveland, Ohio. Internal-combustion engine. Re16,804; Mar. 6.
Brush Laboratories Company, The. (See Grundman, Fred W., assignor.)
Brush Laboratories Company, The. (See Sawyer, Charles B., assignor.)
Bryce, James W., Binghamton, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Scale. 1,661,555; Mar. 6.
Bryce, James W., Binghamton, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Scale. 1,661,556; Mar. 6.
Buchman, Isidore, assignor to The L. Buchman Co., Inc., Brooklyn, N. Y. Pillow or cushion. 1,661,690; Mar. 6.

Buchman, L., Co., The. (See Buchman, Isidore, assignor.)
Buckeye Steel Castings Company, The. (See Johnson, George T., assignor.)
Buckeye Steel Castings Company, The. (See McPherson, John S., assignor.)
Buckeye Steel Castings Company, The. (See Wolfe, Harry H., assignor.)
Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Automobile bumper. 1,661,786; Mar. 6.
Bullard Machine Tool Company, The. (See Bullard, Edward P., jr., assignor.)
Burdett, James H., Homewood, Ill. Display rack. 1,661,406; Mar. 6.
Burke, John J., Cincinnati, Ohio. Book-casing-in machine. 1,661,596; Mar. 6.
Burney, Charles D. (See Wallis, B. N., and Burney.)
Burtnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,661,557; Mar. 6.
Burtnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,661,558; Mar. 6.
Burtnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,661,559; Mar. 6.
Butler, Alton W., West Bridgewater, Mass. Paving block. 1,661,407; Mar. 6.
Butler Manufacturing Co. (See Norquist, Victor C., assignor.)
Buttolph, Leroy J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Water-cooled lamp. 1,661,597; Mar. 6.
Buxbaum, Berthold, Berlin-Charlottenburg, Germany. Joint for the members of bar structures. 1,661,873; Mar. 6.
Byerlein, Arthur A., Detroit, Mich. Press. 1,661,874; Mar. 6.
Byerlein, Erle J., Wauwatosa, Wis. Molding-machine platen arm. 1,661,598; Mar. 6.
Cahill, Harry A., Newark, and H. H. Dennis, East Liberty, Ohio. Signaling device. 1,661,875; Mar. 6.
Caldwell, Edwin, New York, N. Y. Writing pen. 1,661,746; Mar. 6.
Callery, William S., Dixon, Calif. Traction device. 1,661,996; Mar. 6.
Cameron, James N., Johannesburg, Transvaal, South Africa. Paper fastener or clip. 1,661,165; Mar. 6.
Campbell, Alexander, Tyrrell, Ohio. Toy horse. 1,661,463; Mar. 6.
Campbell, Robert H., London, England. Capsule or container for gases or liquids under pressure. 1,661,997; Mar. 6.
Campbell, William, Detroit, Mich. Heating-element support. 1,661,464; Mar. 6.
Cantley, William I. (See Everett, I., and Cantley.)
Candevila, Frank, New York, N. Y. Hair curler. 1,661,747; Mar. 6.
Carbide and Carbon Chemicals Corporation. (See Ray, Arthur B., assignor.)
Carborundum Company, The. (See Power, Henry R., assignor.)
Carborundum Company, The. (See Tone, Frank J., assignor.)
Carey, John H., Portland, Oreg. Device for bending pipe or the like. 1,661,919; Mar. 6.
Carley, Francis, Reid River, Queensland, Australia. Safety device for railway vehicles. 1,661,920; Mar. 6.
Carlson, Anthony E., Los Angeles, Calif. Rotary bit. 1,661,715; Mar. 6.
Carlson, Gustave A., Detroit, Mich. Lever sash regulator. 1,661,652; Mar. 6.
Carmean, James H. (See Carmean, Samuel M. and J. H.)
Carmean, Samuel M. and J. H., Kansas City, Mo. Electric heater. 1,661,282; Mar. 6.
Carpenter, Grant, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Zero corrector. 1,661,214; Mar. 6.
Carr, Moses F. (See Murphy, H. J., and Carr.)
Carroll, Fred M., assignor to The Tabulating Machine Company, Endicott, N. Y. Machine for photographically printing on cylinders. 1,661,560; Mar. 6.
Carson, Clarence M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Preparing dithiasyl disulphide. 1,661,998; Mar. 6.
Carter-Mayhew Manufacturing Company. (See Pocock, Merton A., assignor.)
Casner, Thaddeus S., Plainfield, N. J., assignor to Radio Electric Clock Corporation, New York, N. Y. Relay. 1,661,166; Mar. 6.
Caterpillar Traction Co. (See Best, Clarence L., assignor.)
Cattell, Gilbert W. (See Miller, J. A., and Cattell.)
Caulfield, Jacob S. (See Smith, F. L., Caulfield, and Peterson.)
Causey, Daniel W., Norfolk, Va. Smoker's appliance. 1,661,215; Mar. 6.
Celanese Corporation of America. (See Newton, Frederick, assignor.)
Cerfvol, Albert, Barking, assignor of one-fifth to J. A. Fisher, one-fifth to F. W. Shears, one-fifth to E. Lumsden, and one-fifth to C. Raymond, London, England. Blade for propellers, ventilating fans, and the like. 1,661,921; Mar. 6.
Chapman Engineering Company. (See Chapman, William B., assignor.)
Chapman, William B., New York, N. Y., assignor to Chapman Engineering Company, Mount Vernon, Ohio. Burning powdered coal. 1,661,408; Mar. 6.
Chauveau, Louis L., Paris, France. Call selector. 1,661,748; Mar. 6.
Chemical Works formerly Sandoz. (See von Neergaard, Karl, assignor.)
Chesnin, Samuel S., New York, N. Y. Garment. 1,661,922; Mar. 6.
Chicago Forging & Manufacturing Company. (See Gilmore, Charles B., assignor.)
Chisholm, Arron R., East Orange, N. J. Spoon tray. 1,661,787; Mar. 6.
Choquette, John A., Ottawa, Ontario, Canada. Fluid turbine. 1,661,716; Mar. 6.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Railway car. 1,661,717; Mar. 6.
Chryst, William A., and H. C. Walters, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Liquid-supply apparatus. 1,661,359; Mar. 6.
Church, Edgar D., assignor to Jackson & Church Co., Saginaw, Mich. Car coupler. 1,661,465; Mar. 6.
Ciccone, Luigi, Maspeth, N. Y. Envelope-feeding apparatus. 1,661,816; Mar. 6.
Cincinnati Butchers' Supply Company. (See Schmidt, Oscar C., assignor.)
Claflin, Charles A., Medford, Mass. Oiling mechanism for air-actuated devices. 1,661,561; Mar. 6.
Clark, Alva B., Brooklyn, and D. K. Gannett, Jackson Heights, N. Y., assignors to American Telephone and Telegraph Company. System of picture transmission. 1,661,167; Mar. 6.
Clark, Benjamin S. (See Baldwin, Leon F. N., assignor.)
Clark, Rheuben M., Joplin, Mo. Pump. 1,661,860; Mar. 6.
Clark Controller Company, The. (See Rippl, Charles H., assignor.)
Clay, Cassius M., Mexico, Mo. Rotary rectifier. 1,661,923; Mar. 6.
Clayton & Lambert Manufacturing Company. (See Groehn, Otto J., assignor.)
Cleaners Equipment Corporation, The. (See Fuqua, C. V., and Richa, assignors.)
Clearfield Machine Company. (See McMurray, Walter E., assignor.)
Cocks, Edgar, assignor to Los Angeles Wall Bed Company, Los Angeles, Calif. Folding bed. 1,661,876; Mar. 6.
Coffee Research Company. (See Gamble, Harry C., assignor.)
Cohen, Benjamin. (See Corbett, James, assignor.)
Colbion, John, Richmond Heights, Mo. Revoluble forming tool. 1,661,788; Mar. 6.
Colbion, John, Richmond Heights, Mo. Revoluble cutter. 1,661,789; Mar. 6.
Collier, Ben F. (See Roberts, C. I., and Collier.)
Collier, James F., et al. (See Roberts, C. I., and Collier, assignors.)
Collier, Thomas A., et al. (See Roberts, C. I., and Collier, assignors.)
Colman, Howard D., Rockford, assignor, by mesne assignments, to E. S. Nethercut, Evanston, Ill. Winder. 1,661,817; Mar. 6.
Colo-Diesel-Motorengesellschaft m. b. H. (See Biermann, Karl, assignor.)
Commercial Truck Company. (See Britt, Benjamin H., assignor.)
Commercial Truck Company. (See Ward, W. S., and Britt, assignors.)
Compagnie Internationale des Freins Automatiques, Societe Anonyme. (See Pieper, Henri, assignor.)
Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
Connors, John L., Chicago, assignor to Morgan-Gardner Electric Company, Harvey, Ill. Motor car. 1,661,409; Mar. 6.
Consolidated Car-Heating Company. (See Miller, Charles H., assignor.)
Construction Machinery Company. (See Rosendahl, Nils M., assignor.)
Construction Machinery Company. (See Westling, Carl J., assignor.)
Conway, George E., Cresskill, N. J. Shingle construction. 1,661,562; Mar. 6.
Cook, Carl B., Haddonfield, assignor to Charles K. Cook Company, Incorporated, Camden, N. J. Manufacture of wallets and pocketbooks. 1,661,924; Mar. 6.
Cook, Charles K., Company. (See Cook, Carl B., assignor.)
Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc. Hypodermic syringe and cartridge therefor. 1,661,818; Mar. 6.
Cook Laboratories, Inc. (See Cook, Harvey S., assignor.)

Cook, William A., assignor to Marion Machine, Foundry & Supply Company, Marion, Ind. Steam-cylinder valve-operating means. 1,661,466; Mar. 6.
Cook, William A., assignor to Marion Machine, Foundry & Supply Co., Marion, Ind. Reversible clutch. 1,661,467; Mar. 6.
Cooley, Edward H., Point Marion, Pa. Combination grave marker and flower holder. 1,661,361; Mar. 6.
Cooper Hewitt Electric Company. (See Buttolph, Leroy J., assignor.)
Cooper Hewitt Electric Company. (See Rollinson, Earl H., assignor.)
Cooper Hewitt Electric Company. (See Transom, Frederick, assignor.)
Cooper Hewitt Electric Company. (See Winninghoff, Wilford J., assignor.)
Cooper, Simon. (See Koppelman, M., and Cooper.)
Copeland Products, Inc. (See Litle, Thomas J., jr., assignor.)
Copeland Products Inc. (See Nelson, Owen F., assignor.)
Copony Auto Loading Company, The, et al. (See Michod, Charles L., assignor.)
Corbett, James, assignor of one-half to B. Cohen, Toronto, Ontario, Canada. Rotary pump. 1,661,468; Mar. 6.
Cormier, Emery, assignor of one-half to F. C. Sasse, Nashua, N. H. Brake-band let-off. 1,661,925; Mar. 6.
Cosby, Eric L. H., Teddington, England. Brush. 1,661,926; Mar. 6.
Costello, John, Providence, R. I. Prayer-bead device. 1,661,877; Mar. 6.
Coston, Herbert E. (See Hamburger, A., and Coston.)
Coughlin, James P., Kansas City, Mo. Logging and indicating device for radio tuning instruments. 1,661,410; Mar. 6.
Cox, Ernest A. (See Ruse, T. W., and Cox.)
Coxon, John B., assignor to Kokomo Sanitary Pottery Company, Kokomo, Ind. Closet bowl. Des. 74,595; Mar. 6.
Coxon, John B., assignor to Kokomo Sanitary Pottery Company, Kokomo, Ind. Closet bowl. Des. 74,596; Mar. 6.
Craig, Ernest A. (See Nicholson, Henry A., assignor.)
Crane, Theodore G., Chicago, Ill. Heater. 1,661,322; Mar. 6.
Crawford, Samuel W., assignor, by mesne assignments, to National Bearing Metals Corporation, St. Louis, Mo. Self-oiling crosshead gib. 1,661,790; Mar. 6.
Cribbes, Robert M., Cockburnspath, Scotland. Driving mechanism of the fans of Ford and like engines. 1,661,600; Mar. 6.
Cromwell, John C., Columbus, Ohio, assignor, by mesne assignments, to The Testite Company. Gasket. 1,661,878; Mar. 6.
Crosley, Powel, jr., Cincinnati, assignor to The Frank F. Taylor Co., Norwood, Ohio. Baby walker. 1,661,411; Mar. 6.
Crosthwait, David N., jr., assignor to C. A. Dunham Company, Marshalltown, Iowa. Method and apparatus for setting thermostats. 1,661,323; Mar. 6.
Crowell, Frank S., assignor to The Edward N. Riddle Company, Toledo, Ohio. Lighting fixture. 1,661,999; Mar. 6.
Crown Cork & Seal Company. (See McManus, Charles E., assignor.)
Culverwell, Frederick E. (See Martinelli, L. A., and Culverwell.)
Cundiff, Charles W., assignor to Owensboro Ditcher & Grader Company, Owensboro, Ky. Ditching and grading machinery. 1,661,927; Mar. 6.
Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)
Cynova, Andrew, Loup City, Nebr. Mechanical striper. 1,661,599; Mar. 6.
Dahlberg, Arthur C., Geneva, N. Y., assignor, by mesne assignments, to the People of the United States of America. Manufacture of soft cheese. 1,661,601; Mar. 6.
Dary, Samuel, Guthrie, Okla. Milk-can-washing machine. 1,661,602; Mar. 6.
Dauvillier, Alexandre, Paris, France. Television process and means of realization. 1,661,603; Mar. 6.
Davis, Augustine, jr., Covington, Ky. Vehicle tank. 1,661,324; Mar. 6.
Davis, Donald C., Williamsville, N. Y. Hardness-testing device. 1,661,718; Mar. 6.
Davis, Francis C., Toronto, Ontario, Canada. Lubricating device. 1,661,749; Mar. 6.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. 1,662,000. Mar. 6.
Davis, Raymond H., J. Milewski, and M. Maloney, Cleveland, Ohio. Paneled wall facing. 1,661,168; Mar. 6.
Dawson, Wilfred, London, England. Electric lamp. 1,661,928; Mar. 6.
Dayton Scale Company. (See Bryce, James W., assignor.)
Dayton Scale Company. (See Gilbert, William N., assignor.)
Deakin, Gerald, Antwerp, Belgium, assignor, by mesne assignments, to Western Electric Company, Incorporated. Timing device. 1,661,249; Mar. 6.
De Boer, John H., Syracuse, N. Y. Collapsible shipping box. 1,661,527; Mar. 6.
De Clairmont, Adolph, Los Angeles, Calif. Apparatus for generating radium water. 1,661,604; Mar. 6.
Deemar, Henry V., St. Louis, Mo., assignor of one-half to H. H. Deeman, Los Angeles, Calif. Blow blast gas burner. 1,661,929; Mar. 6.
Deemar, Herbert H. (See Deemar, Henry V., assignor.
Deerfoot, William, Iowa City, Iowa. Tone modifier. 1,661,525; Mar. 6.
Deering, Howard C. (See Henderson, J. J., and Deering.)
De Gönez, Denis, assignor to Arnold Print Works, North Adams, Mass. Treatment of cellulosic materials. 1,661,879; Mar. 6.
De Gönez, Denis, and A. S. Jones, assignors to Arnold Print Works, North Adams, Mass. Laminated fabric and making it. 1,661,880; Mar. 6.
De Gönez, Denis, and A. S. Jones, assignors to Arnold Print Works, North Adams, Mass. Treatment of cellulosic fabrics. 1,661,881; Mar. 6.
De Graaff, Antonius, Eindhoven, Netherlands, assignor to General Electric Company. Tungsten product and its manufacture. 1,662,027; Mar. 6.
De Laval Separator Company, The. (See Meston, Archibald F., assignor.)
Delco-Remy Corporation. (See Baker, Russell W., assignor.)
Delco-Remy Corporation. (See Chryst, W. A. and Walters, assignors.)
Delco-Remy Corporation. (See Elsey, George W., assignor.)
Delco-Remy Corporation. (See Gomory, Albert B., assignor.)
Delco-Remy Corporation. (See Kroeger, Frederick C., assignor.)
Delco-Remy Corporation. (See Leighton, Everett F., assignor.)
Delco-Remy Corporation. (See Pabst, William E., assignor.)
Delco-Remy Corporation. (See Parker, Leslie O., assignor.)
Delco-Remy Corporation. (See Poole, Lora E., assignor.)
Delco-Remy Corporation. (See Young, Willis G., assignor.)
Dennis, Harry H. (See Cahill, H. A., and Dennis.)
Dennison Manufacturing Company. (See Thompson, Frank H., assignor.)
Deptula, Carl, assignor of one-half to A. Tereba, New Britain, Conn. Electric floor scrubber. 1,661,412; Mar. 6.
Derrick, James W., Philadelphia, Pa. Vehicle jack. 1,661,882; Mar. 6.
Derrick, William I., Davenport, Iowa. Rotary pump. 1,661,325; Mar. 6.
Destefano, Samuel, Monessen, Pa. Basket-ball game. 1,661,216; Mar. 6.
Deutsche Edelstahlwerke Aktiengesellschaft. (See Pakulla, Edmund, assignor.)
De Vries, Louis, Chicago, Ill. Incubator. 1,661,413; Mar. 6.
Diamond State Fibre Company. (See McIntosh, James, assignor.)
Dickinson, Edgar D., Lynn, Mass., assignor to General Electric Company. Electric-ship-propulsion intallation. 1,661,883; Mar. 6.
Dieges, Charles J., Brooklyn, assignor to Dieges & Clust, New York, N. Y. Badge. 1,662,001; Mar. 6.
Dieges & Clust. (See Dieges, Charles J., assignor.)
Dietrich, Cyril L., Lookout Mountain, Tenn. Aerial mast or support. 1,661,930; Mar. 6.
Dingee, George W., Utica, N. Y. Apparatus for forming and handling paper rolls. 1,661,326; Mar. 6.
Doak, Hugh G. (See Hitz, Charles R., assignor.)
Doane, Harry C., Flint, assignor to General Motors Corporation, Detroit, Mich. Vehicle lamp door. Des. 74,597; Mar. 6.
Dolan, John J., Coshocton, Ohio. Portable soot blower. 1,661,931; Mar. 6.
Dominick & Haff, Inc. (See Hebbard, Harrison, assignor.)
Doncheff, Demetre, East St. Louis, Ill. Aircraft. 1,661,327; Mar. 6.
Dowd, John H., assignor to The Billings & Spencer Company, Hartford, Conn. Wrench. 1,662,002; Mar. 6.
Draper, Clare H., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Weft-replenishing loom. 1,661,328; Mar. 6.
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Draper, Clare H., assignor.)
Draper Corporation. (See Northrop, Jonas, assignor.)
Draper Corporation. (See Tebo, William A., assignor.)
Dreyfus, Henry, London, England. Manufacture of compositions or preparations with cellulose derivatives. 1,661,169; Mar. 6.
Driver, John M., Philadelphia, Pa. Container and method of sealing. 1,661,884; Mar. 6.
Drosselmeyer, Frank, Jersey City, N. J. Douche and syringe. 1,661,563; Mar. 6.
Drukker, Jacob, Amsterdam, Netherlands. Electric driving system. 1,661,170; Mar. 6.
Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)

Dunbar, Frank H., Cleveland, Ohio. Ash hopper. 1,661,760; Mar. 6.
Dunham, C. A., Company. (See Crosthwait, David N., jr., assignor.)
Dunlap, Frederick L., assignor to Industrial Appliance Company, Chicago, Ill. Flour-treating process. 1,661,250; Mar. 6.
Dunlap, John W., Maquoketa, Iowa. Metallic fence post. 1,661,528; Mar. 6.
Dunn, Harry E., Holland, Mich. Cement-block rammer. 1,661,414; Mar. 6.
Du Pont, E. I., de Nemours & Company. (See Monroe, Kenneth P., assignor.)
Du Pont, E. I., de Nemours & Company. (See Monroe, K. P., and Williams, assignors.)
Durabilit Steel Locker Co. (See Kaser, Everett D., assignor.)
Duro Company, The. (See Eisenhauer, Charles P., assignor.)
Dutro, Clyde A., Bow, assignor of one-half to H. T. Morton, Bellingham, Wash. Hoisting jack. 1,661,791; Mar. 6.
Eason, Andrew J., assignor of one-half to U. J. W. West, San Bernardino, Calif. Blowpipe gas-flow control. 1,661,691; Mar. 6.
Eastman Kodak Company. (See Jones, Loyd A., assignor.)
Eastman Kodak Company. (See Prachel, Chauncey U., assignor.)
Eastman Kodak Company. (See Tierney, Philip W., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Ebbesen, Alna, New York, N. Y. Toilet article. 1,661,564; Mar. 6.
Eberhard Manufacturing Company, The. (See Hagelin, Alfred B., assignor.)
Eckardt, Herman V., Brooklyn, assignor to Strauss-Eckardt Co., Inc., New York, N. Y. Doll and playpen. 1,661,283; Mar. 6.
Economy Products Corporation. (See Voight, George F., assignor.)
Edeleanu, Lazar, Berlin-Charlottenburg, assignor to Allgemeine Gesellschaft für Chemische Industrie, Berlin, Germany. Conversion of high-boiling hydrocarbons into low-boiling hydrocarbons. 1,661,565; Mar. 6.
Edeleanu, Lazar, Berlin-Charlottenburg, assignor to Allgemeine Gesellschaft für Chemische Industrie, Berlin, Germany. Motor Fuel and refining oils. 1,661,566; Mar. 6.
Edison Electric Appliance Company. (See McCormick, Francis H., assignor.)
Edison Electric Appliance Company. (See Vanatta, Willis N., assignor.)
Edwards, Roy M., and J. P. Poschen, Pittsburgh, Pa. Door mechanism. 1,661,719; Mar. 6.
Edwards, Sherwood E., New Orleans, La. Game apparatus. 1,661,885; Mar. 6.
Eiermann, Karl, assignor to the firm Colo-Diesel-Motorengesellschaft m. b. H., Munich, Germany. Internal-combustion engine. 1,661,171; Mar. 6.
Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Pump. 1,661,886; Mar. 6.
Ekman, Andrew, Grand Rapids, Mich. Adding machine. 1,661,605; Mar. 6.
Eldridge, Walter J., Lenoir, Tenn., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tensioning device for thread-winding machines. 1,662,003; Mar. 6.
Ellio, Rocco. (See Maehren, George, assignor.)
Elliott, Henry, Glasgow, Scotland. Apparatus for storing and displaying linoleum and like materials. 1,661,932; Mar. 6
Ellis, Robert E., assignor to E. Ames, Seattle, Wash. Scow. 1,661,520; Mar. 6.
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,661,362; Mar. 6.
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-assembling apparatus. 1,661,363; Mar. 6.
Elwood, Ward P., assignor to Union Machinery Company, Joliet, Ill. Rounder for plastic material. 1,661,792; Mar. 6.
England, James C., Dilsboro, N. C. Clutch. 1,661,172; Mar. 6.
Erickson, John E. and W. F., St. Paul, Minn. Apparatus for supplying liquid fuel to heating plants. 1,661,415; Mar. 6.
Erickson, Walter F. (See Erickson, John E. and W. F.)
Erie Malleable Iron Company. (See Selah, Howard A., assignor.)
Escaich, Auguste, and J. P. Worms, Paris, France. Dyeing process. 1,661,606; Mar. 6.
Espenschied, Lloyd, Kew Gardens, N. Y. Sound recording and reproducing. 1,661,793; Mar. 6.
Estes, Dana, Brookline, Mass. Stopper for acid bottles and making the same. 1,661,416; Mar. 6.
Evans, Benjamin A., and W. H. Slabaugh, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for mounting inserts in and drilling battery-jar vent caps. 1,661,417; Mar. 6.
Evans, Humphrey, assignor to Holeproof Hosiery Co., Milwaukee, Wis. Knitting machine. 1,661,653; Mar. 6.
Evans, Russell G., Detroit, Mich. Collapsible-tube brush. 1,661,607; Mar. 6.
Everett, Ira, Allentown, and W. I. Cantley, Bethlehem, Pa. Hopper car. 1,661,418; Mar. 6.
Everist, Hubert, Sioux City, Iowa. Rotary cutter. 1,661,692; Mar. 6.
Evers, Edward P. (See Bruninga, J. H., and Evers.)
Ewart, John H., London, England. Electric water heater. 1,661,693; Mar. 6.
Fairchild Aerial Camera Corporation. (See Morton, Edmund R., assignor.)
Fairchild, Sherman M., New York, N. Y. Aerial camera. 1,661,864; Mar. 6.
Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,598; Mar. 6.
Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,599; Mar. 6.
Farrell, Chettie P., Detroit, Mich. Air brake. 1,661,933; Mar. 6.
Farrell, Fred, Sacramento, Calif. Power-driven butcher saw. 1,661,217; Mar. 6.
Fatscher, George C., and C. E. Billings, assignors to The New Haven Sand-Blast Company, New Haven, Conn. Sand-blast machine. 1,661,934; Mar. 6.
Federal Mogul Corporation. (See Blomstrom, Lowell C., assignor.)
Fegley, Thomas J., and G. O. Leopold, assignors to North Bros.' Mfg. Co., Philadelphia, Pa. Chuck for extension bits. 1,661,935; Mar. 6.
Fejes, Jenö, Budapest, Hungary. Brake drum. 1,661,218; Mar. 6.
Feldman, J. M., Co., The. (See Holdeman, Harry R., assignor.)
Ferris, Frank P., Lincoln, Nebr. Auxiliary transmission. 1,661,469; Mar. 6.
Ferstl, Max F., Richmond Hill, N. Y. Belt. 1,661,936; Mar. 6.
Fiedler, Hans W., Leipzig, Germany. Preserving vulcanized rubber. 1,661,887; Mar. 6.
Field, Cyrus W., deceased, Wanscon; C. B. Maxwell, executrix, assignor to C. B. Maxwell, Delta, Ohio. Merry-go-round. 1,661,219; Mar. 6.
Field, Marshall S., assignor of twenty per cent to J. C. Mohl and forty per cent to C. H. Suiter, Davenport, Iowa. Spring suspension for vehicles. 1,661,580; Mar. 6.
Fischer, Gervasius W., and W. F. Sund, Madison, Wis. Foldable chair. 1,661,937; Mar. 6.
Fisher, George F., Roselle, N. J. Continuously vulcanizing rubber stock. 1,661,888; Mar. 6.
Fisher, John A., et al. (See Cerfvol, Albert, assignor.)
Fisher, Lee F., St. Louis, Mo. Toaster. 1,661,819; Mar. 6.
Fisk Rubber Company, The. (See Scherner, John, assignor.)
Flagstad, Cornell, assignor of ninety-five one-hundredths to The Folding Crate & Box Company, Minneapolis, Minn. Collapsible crate. 1,661,419; Mar. 6.
Fletcher, Harvey, assignor to Western Electric Company, Incorporated, New York, N. Y. Accoustical apparatus. 1,661,751; Mar. 6.
Flogaus, Howard A., Toledo, Ohio. Brake mechanism. 1,661,420; Mar. 6.
Floyd, Walter B., assignor to The Bonney-Floyd Company, Columbus, Ohio. Grinding-mill rod. 1,661,567; Mar. 6.
Fogarty, Orville A., Montreal, Quebec, Canada. Oil burner. 1,661,794; Mar. 6.
Fogel, Joseph. (See Gold, M., Most, and Fogel.)
Folding Crate & Box Company, The. (See Flagstad, Cornell, assignor.)
Foley, Charles B., Fort Wayne, Ind., assignor to Charles B. Foley, Inc., New York, N. Y. Electric furnace. 1,661,173; Mar. 6.
Foley, Charles B., Inc. (See Foley, Charles B., assignor.)
Folke, Arthur, Kane, Pa. Safety device for clothes wringers. 1,661,654; Mar. 6.
Follingstad, Henry A., Chicago, Ill. Key-pulling device. 1,661,938; Mar. 6.
Fondeville, Eugene L. (See Abram, Edmund W., assignor.)
Fontaine, Marie A., Manchester, N. H. Abdominal band. 1,661,720; Mar. 6.
Foreign Paper Mills, Inc. (See Taylor, Casper R., assignor.)
Forger, Albert H., Los Angeles, Calif. Glass-sign-letter fastening. 1,661,531; Mar. 6.
Foratner Chain Corporation. (See Keller, Hermann, assignor.)
Fortain, Jenny B., Redondo Beach, Calif. Water and soap saving device. 1,661,532; Mar. 6.
Fox, Ellis L., jr., Jeffersonville, Pa. Picker-stick mechanism. 1,661,470; Mar. 6.
Francis, Harry G., Rushville, Ind. Glue spreader. 1,661,174; Mar. 6.
Frank, Harrison J. L., Detroit, Mich. Double-throw switch. 1,661,795; Mar. 6.
Frank, Harry, Brooklyn, N. Y. Burglar protection. 1,661,752; Mar. 6.
French, Henry G., and E. W. McSheen, Schenectady, N. Y., assignors to General Electric Company. Swivel wheel. 1,661,889; Mar. 6.

French, Ralph W., and W. C. Holmes, assignors to W. F. Keohan, trustee, Washington, D. C. Biological stains, bacteriocidal agents and the like, and preparing the same. 1,661,568; Mar. 6.

Frey, Ralph E., Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company. Fastener. 1,661,251; Mar. 6.

Fricke, Richard, Leipzig-Kleinzschocher, and H. Mross, Pretzsch-on-the-Elbe, Germany. Gas-control apparatus. 1,661,252; Mar. 6.

Fried. Krupp Aktiengesellschaft. (See Fry, Adolf, assignor.)

Fried. Krupp Grusonwerk Aktiengesellschaft. (See Born, Alfred, assignor.)

Fried. Krupp Grusonwerk Aktiengesellschaft. (See Kutschbach, Paul, assignor.)

Fritz, August J., Chicago, Ill. Plaster gauge. 1,661,253; Mar. 6.

Froesch, Charles. (See Masury, A. F., and Froesch.)

Fry, Adolf, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electric resistance furnace adapted for heating by nitrogenization. 1,661,694; Mar. 6.

Fuertinger, Andrew, New York, N. Y., assignor, by mesne assignments, to Voices Incorporated, Wilmington, Del. Voice device. 1,661,155; Mar. 6.

Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Drier. 1,661,655; Mar. 6.

Fuqua, Clarence V., and J. H. Richa, assignors, by mesne assignments, to The Cleaners Equipment Corporation, Kansas City, Mo. Separator. 1,661,284; Mar. 6.

Gage, Fred K., et al. (See Tordsen, Herman C., assignor.)

Gale, Earl F., Los Angeles, Calif. Game device. 1,661,329; Mar. 6.

Gallison, Ernest A. (See Ball, J. A., Gallison, and Weaver.)

Gamble, Harry C., Detroit, Mich., assignor, by mesne assignments, to Coffee Research Company, St. Louis, Mo. Apparatus for treating coffee. 1,661,796; Mar. 6.

Gamewell Company, The. (See Gaskill, Robert J., assignor.)

Gannett, Danforth K. (See Clark, A. B., and Gannett.)

Gantz, Amos F., Cedar Rapids, Iowa. Ice-cream-brick cutter. 1,661,533; Mar. 6.

Gardner, Charles B., Stafford, England. Apparatus for cleaning the fire tubes of multitubular boilers and the like. 1,661,890; Mar. 6.

Gardner, Charles E., Gloucester, England. Apparatus for grinding or comminuting rubber and other materials. 1,661,721; Mar. 6.

Gardner, Edward B., and R. D., and J. Nielsen, Beloit, Wis. Grinding machine. 1,661,330; Mar. 6.

Gardner, Ralph D. (See Gardner, Edward B., and R. D., and Nielsen.

Garrison, Herman, Chicago, Ill. Can opener. 1,661,797; Mar. 6.

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Chuck mechanism. 1,661,656; Mar. 6.

Gaskill, Robert J., Fort Wayne, Ind., assignor to The Gamewell Company, Newton, Mass. Signal lamp. 1,661,421; Mar. 6.

Gast, W. H. (See Stephan, Emil, assignors.)

Gendron, Napoleon J., Seattle, Wash. Pliers. 1,661,365; Mar. 6.

General Electric Company. (See Brophy, Gerald R., assignor.)

General Electric Company. (See De Graaff, Antonius, assignor.)

General Electric Company. (See Dickinson, Edgar D., assignor.)

General Electric Company. (See French, H. G., and McSheen, assignors.)

General Electric Company. (See Hull, Albert W., assignor.)

General Electric Company. (See Ipsen, Carl L., assignor.)

General Electric Company. (See Macloskie, George, assignor.)

General Electric Company. (See McDonald, Gordon R., assignor.)

General Electric Company. (See McFarland, James L., assignor.)

General Electric Company. (See Miller, Howard, assignor.)

General Electric Company. (See Mullaney, Dudley A., assignor.)

General Electric Company. (See Patterson, Frank W., assignor.)

General Electric Company. (See Prince, David C., assignor.)

General Motors Corporation. (See Doane, Harry C., assignor.)

General Motors Research Corporation. (See Lee, Roger K., assignor.)

General Motors Research Corporation. (See Williams, Harry M., assignor.)

Genest, Werner, Berlin-Lichterfelde, Germany, assignor to The Korfund Company, Inc., New York, N. Y. Plate for deadening vibration and sound. 1,661,422; Mar. 6.

George, Harvey, St. Louis, Mo. Brake rigging for railway trucks. 1,661,471; Mar. 6.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Wurst, Walter, assignor.)

Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,661,220; Mar. 6.

Gibson, Guy T., New Rochelle, assignor to Guy T. Gibson Inc., New York, N. Y. Toilet-powder box. Des. 74,600; Mar. 6.

Gibson, Guy T., Inc. (See Gibson, Guy T., assignor.)

Gilbert, George N., Pana, Ill. Tooth-cleaning implement. 1,661,472; Mar. 6.

Gilbert, William N., Hudson Heights, N. J., assignor to Dayton Scale Company, Dayton, Ohio. Pendulum scale. 1,661,534; Mar. 6.

Gill, Martin. (See Szczepczenski, Peter, assignor.)

Gillies, William R., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Pipe covering. 1,661,264; Mar. 6.

Gilmore, Charles B., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Hood latch. 1,661,891; Mar. 6.

Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvile, Pa. Railway-traffic-controlling apparatus. 1,661,175; Mar. 6.

Gink, Hermann, Ansbach, Germany. Steel rail. 1,661,176; Mar. 6.

Ginter, Paul A., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 74,601; Mar. 6.

Gironés, Ignacio V., Barcelona, Spain. Change-speed mechanism. 1,661,892; Mar. 6.

Gittery, Charles, jr., Detroit, Mich. Front-license-plate light. 1,661,798; Mar. 6.

Glenn, Robert. (See Ruse, T. W., and Cox, assignors.)

Goddard, Robert H., and N. A. Riffolt, Worcester, Mass. Accumulator for radiant energy. 1,661,473; Mar. 6.

Going, George G., Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company. Typewriting machine. 1,661,799; Mar. 6.

Gold, Morris, Bronx, A. F. Most, and J. Fogel, Brooklyn, N. Y. Cigarette case. 1,662,028; Mar. 6.

Gomory, Albert B., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Apparatus for winding armatures. 1,661,331; Mar. 6.

Gomory, Albert B., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Manufacture of armatures. 1,661,332; Mar. 6.

Goodrich, B. F., Company, The. (See Evans, B. A., and Slabaugh, assignors.)

Goodrich, B. F., Company, The. (See Tew, James D., assignor.)

Goodyear Tire & Rubber Company, The. (See Carson, Clarence M., assignor.)

Goodyear Tire & Rubber Company, The. (See Eldridge, Walter J., assignor.)

Goodyear Tire & Rubber Company, The. (See Grigg, Joseph P., assignor.)

Goodyear Tire & Rubber Company, The. (See Jenkinson, Ross E., assignor.)

Goodyear Tire & Rubber Company, The. (See Kimmich, Elmer G., assignor.)

Goodyear Tire & Rubber Company, The. (See Sebrell, L. B., and Teppema, assignors.)

Goodyear Tire & Rubber Company, The. (See Shively, Jess A., assignor.)

Goodyear Tire & Rubber Company, The. (See Templeton, Edwin G., assignor.)

Goodyear Tire & Rubber Company, The. (See Van Orman, Ward T., assignor.)

Goodyear Tire & Rubber Company, The. (See Wetmore, Laurence, assignor.)

Goodyear Zeppelin Corporation. (See Arnstein, Karl, assignor.)

Grabill, John D., Woodstock, Va. Grading machine. 1,661,657; Mar. 6.

Grauel, Edwin L., assignor to The Graulock Company, Cincinnati, Ohio. Fuel-reserve device. 1,661,608; Mar. 6.

Graulock Company, The. (See Grauel, Edwin L., assignor.)

Graves, Harry S., assignor to Spiral Piston Ring Company, Detroit, Mich. Making piston rings. 1,661,366; Mar. 6.

Gray, George jr., Philadelphia, assignor to Largman, Gray Company, Croydon, Pa. Machine for making display cards. 1,661,658; Mar. 6.

Gray, Percy, Jefferson, Iowa. Water-storage tank. 1,661,659; Mar. 6.

Gray, Wallace M., assignor to American Valve and Meter Company, Cincinnati, Ohio. Automatic switch stand. 1,661,695; Mar. 6.

Grayson, Annie M., Macon, Ga. Oil stove and heater. 1,661,939; Mar. 6.

Green, Maurice W., Hampton, Va. Impeller. 1,661,940; Mar. 6.

Greener, Harry, Birmingham, England. Shot cartridge. 1,661,609; Mar. 6.

Greenwald, Harold A., assignor to T. C. Whitehead, Detroit, Mich. Compressor. 1,661,661; Mar. 6.

Greve, Edgar E., Bellevue, Pa. Rotary drilling machine. 1,661,285; Mar. 6.

Griesbach, Robert, Ludwigshafen-on-Rhine, and, K. Röhre, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of anhydrous magnesium chloride. 1,661,694; Mar. 6.

Griffith, John T. (See Wentzel, R. E., and Griffith.)

Grigg, Joseph P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Golf-ball-winding machine. 1,661,893; Mar. 6.

Groehn, Otto J., assignor to Slayton & Lambert Manufacturing Company, Detroit, Mich. Fire-pot construction. 1,661,820; Mar. 6.

Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Spindle stop. 1,661,474; Mar. 6.

Groene, William F., and R. M. Bacon, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Machine tool. 1,661,610; Mar. 6.

Gruhler, Charles C., Fort Thomas, Ky. Envelope opener. 1,661,423; Mar. 6.

Grundman, Fred W., assignor to The Brush Laboratories Company, Cleveland, Ohio. Thermostatic control device. 1,661,348; Mar. 6.

Gullion, Elmer E., Kokomo, Ind. Cold-air connection. 1,661,660; Mar. 6.

Gurnett, Arthur R., assignor of one-half to M. Jean-Marie, Toronto, Ontario, Canada. Device for opening and closing fruit jars. 1,661,333; Mar. 6.

Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric shielding. 1,661 535; Mar. 6.

Hadl, Ali, Detroit, Mich. Shoe machine. 1,661,662; Mar. 6.

Hadl, Ali, Springwells, Mich. Roller blotter. 1,661,475; Mar. 6.

Hagelin, Alfred B., assignor to The Eberhard Manufacturing Company, Cleveland, Ohio. Wear plate for straps. 1,661,821; Mar. 6.

Hale Bros., Inc. (See O'Keeffe, Russell L., assignor.)

Halk, Louis, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y. Bottle. Des. 74,602; Mar. 6.

Hall, George F., Erie, Pa. Bedpan washer. 1,661,221; Mar. 6.

Hall, Joseph M., Hamilton, Ontario, Canada, assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Shock absorber. 1,661,822; Mar. 6.

Halvorson, Andrew, Franklin, Minn. Cap tool. 1,661,941; Mar. 6.

Hamburger, Aron, and H. E. Coston, London, England. Camera for color photography. 1,661,611; Mar. 6.

Hamilton, William, Newark, Ohio. Buffer mechanism. 1,661,177; Mar. 6.

Hansen, Theodore N., Seattle, Wash. Attachment for reproducing devices. 1,661,286; Mar. 6.

Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson and C. E. Whitney, executors. Gauge. 1,661,722; Mar. 6.

Hanson, Einar A., et al., executors. (See Hanson, Bengt M. W.)

Hardaway, Sidney M. (See Lawrence, F. P., and Hardaway.)

Harrington, Terence S., Hatton, near Wragby, England. Pump. 1,662,029; Mar. 6.

Hartman, Abe, Brooklyn, N. Y. Temperature-indicating housing. Des. 74,603; Mar. 6.

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,661,753; Mar. 6.

Haswell, Arthur B., Birmingham, Ala. Drying out masonry. 1,661,476; Mar. 6.

Hatfield, Schuyler C., Baltimore, Md. Tire and wheel. 1,661,754; Mar. 6.

Hawkins, Tom, Hollywood, Calif. Moldboard. 1,661,942; Mar. 6.

Hawley, Kent A., New York, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,661,823; Mar. 6.

Hayes, John B., jr., Pegram, Tenn. Air-control device for carburetors. 1,661,943; Mar. 6.

Haywood, Fred H., Cleveland, Ohio. Barrel agitator. 1,661,255; Mar. 6.

Hazard, Theodore C., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for cleaning fibrous material. 1,662,030; Mar. 6.

Hebbard, Harrison, East Orange, assignor to Dominick & Haff, Inc., Newark, N. J. Bowl or similar article. Des. 74,604; Mar. 6.

Hebebrand, George H. (See Neal, B., and Hebebrand.)

Heine, Herman E., assignor to Bradley Washfountain Company, Milwaukee, Wis. Check valve and screen. 1,661,424; Mar. 6.

Heinz, Peter M., Dubuque, Iowa. Universal setting gauge. 1,661,944; Mar. 6.

Helfgott, Samuel H., Brooklyn, N. Y. Game. 1,661,723; Mar. 6.

Helfgott, Solomon, New York, N. Y. Gear-rounding-off lathe attachment. 1,661,334; Mar. 6.

Helminiak, Bernard F., Milwaukee, Wis. Tube-flaring tool. 1,661,367; Mar. 6.

Helmuth, Frank J., Oakland, Calif. Lock. 1,661,477; Mar. 6.

Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Motor-driven sewing machine. 1,661,824; Mar. 6.

Hemphill Company. (See Mair, James, assignor.)

Henderson, Anna I., administratrix. (See Henderson, J. J., and Deering.)

Henderson, John J., deceased, Dracut, and H. C. Deering, Malden; A. I. Henderson, administratrix, assignors to Automatic Bobbin Cleaner Co., Boston, Mass. Bobbin-stripper trap. 1,661,724; Mar. 6.

Hendrickson, Robert O., Racine, Wis. Oil cleaner for internal-combustion engines. 1,661,825; Mar. 6.

Hendry, William F., Ossining, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,661,945; Mar. 6.

Henige, John, Chicago, Ill. Liquid-treatment comb. 1,661,287; Mar. 6.

Henuessy, James J., New York, N. Y. Lubricator. 1,661,800; Mar. 6.

Hercules Powder Company. (See Troxler, Bernhart, assignor.)

Hermann, Clarence C. (See Litchfield, E. C., Hermann, and Speer.)

Herrington, C. E., et al. (See Stovall, James N., assignor.)

Hess, Ezra, Chicago, Ill. Making casts. 1,661,425; Mar. 6.

Hesslé Eric T., Lemot, Ill. Continuous process for the refining of mineral oil. 1,661,826; Mar. 6.

Hesslé, Eric T., and W. Leigemann, Lemont, Ill. Catalytic apparatus. 1,661,827; Mar. 6.

Heynen, Jan J. A., Nijmegen, Netherlands. Container for cravats or necktles. 1,662,039; Mar. 6.

Hill, Laura, Seattle, Wash. Lifeboat. 1,661,801; Mar. 6.

Hillman, Carl J., Houston, Tex. Core drill. 1,661,426; Mar. 6.

Hillyard, Newton S., St. Joseph, Mo. Combination desk calendar. 1,661,288; Mar. 6.

Hilshansky, George, Johnstown, Pa. Cigar and cigarette holder. 1,661,895; Mar. 6.

Hitz, Charles R., assignor of one-half to H. G. Doak, Philadelphia, Pa. Fruit-press support. 1,661,802; Mar. 6.

Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Company, Chicago, Ill. Head of a printing scale. Des. 74,605; Mar. 6.

Hogan, Augustine. (See Lillicrapp, W. J., O'Shea, and Hogan.)

Holdeman, Harry R., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Wall plate for lighting fixtures or similar articles. Des. 74,606; Mar. 6.

Holdeman, Harry R., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Spindle for lighting fixtures or similar articles. Des. 74,607; Mar. 6.

Holder, Will L., Valdosta, Ga. Paddle. 1,661,289; Mar. 6.

Holeproof Hosiery Co. (See Evans, Humphrey, assignor.)

Holmes, Walter C. (See French, R. W., and Holmes.)

Hoover Company, The. (See Hoover, Howard E., assignor.)

Hoover, Howard E., Glencoe, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction cleaner. Re16,893; Mar. 6.

Hopfenbeck, Clarence E. (See Babbitt, T. C., and Hopfenbeck.)

Hopkinson, Ernest, New York, N. Y. Paving material and laying the same. 1,661,828; Mar. 6.

Houseman, Wilbur L., Philadelphia, Pa., assignor to Standard Trump Bros. Machine Company, Wilmington, Del. Machine and process for knitting plaited fabric. 1,661,427; Mar. 6.

Howcott, Harley A. W., New Orleans, La. Brick. 1,661,946; Mar. 6.

Howdon, William R., Anniston, Ala. Air brake. 1,661,947; Mar. 6.

Howells, Thomas H., Salt Lake City, Utah. Dynamo-electrical vibrating unit. 1,661,829; Mar. 6.

Hubbell, Benjamin F., Cambridge, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,661,755; Mar. 6.

Hudson, William W., Salt Lake City, Utah. Hot-water heating system. 1,661,868; Mar. 6.

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,661,830; Mar. 6.

Hulmes, Seth, Beaver Falls, Pa. Gear-shifting mechanism. 1,661,612; Mar. 6.

Hunt, Albert L., and J. L. Naujock, Milwaukee, Wis. Automatic reversing mechanism. 1,661,756; Mar. 6.

Hunt, William C., Toronto, Ontario, Canada. Electric heater. 1,661,222; Mar. 6.

Hunt, William V., North Vancouver, British Columbia, Canada. Perforated-paper-roll holder. 1,661,896; Mar. 6.

Hurst, Alexander. (See Steere, G. R., and Hurst.)

Hyde Engineering Company. (See Hyde, Henry W., assignor.)

Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,661,428; Mar. 6.

Hyman, Henry. (See Blake, G. E., and Bruninga, assignors.)

Hyman, Henry. (See Bruninga, J. H., and Evers, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Beck, Adolf, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Griessbach, R., and Röhre, assignors.)
Industrial Appliance Company. (See Dunlap, Frederick L., assignor.)
Industrial Rayon Corporation, The. (See Niederhauser, F. C., and Kline, assignors.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
Inness, Lawrence, Freehold, N. J. Baseball novelty. 1,661,948; Mar. 6.
International Motor Company. (See Masury, A. F., and Froesch, assignors.)
International Motor Company. (See Midboe, Gabriel, assignor.)
International Patents Development Company. (See Newkirk, William B., assignor.)
Ipsen, Carl L., Schenectady, N. Y., assignor to General Electric Company. Carburiding apparatus. 1,661,831; Mar. 6.
Irgens, Finn T., assignor to Lockwood Ash Motor Company, Jackson, Mich. Swivel motor. 1,661,369; Mar. 6.
Iron King Implement Company, The. (See Leet, Arthur W., assignor.)
Iwanski, Friedrich, Berlin-Copenick, Germany. Paving material and making the same. 1,661,832; Mar. 6.
Jackson & Church Co. (See Church, Edgar D., assignor.)
Jackson, Maunsell B., Toronto, Ontario, assignor of one-third to E. McMahon and one-third to T. C. Bate, Ottawa, Canada. Change-speed gearing. 1,661,613; Mar. 6.
Jade, Hans, San Francisco, Calif. Bascule toy bridge. 1,661,429; Mar. 6.
Jamerson, Gus A., Cincinnati, Ohio. Chassis-lubrication-control device. 1,661,663; Mar. 6.
Jean-Marie, Margaret. (See Gurnett, Arthur R., assignor.)
Jenkins, Nathan, Chicago, Ill. Bathing garment. 1,661,725; Mar. 6.
Jenkinson, Ross E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bead-setting mechanism. 1,662,004; Mar. 6.
Jensen, Peter S. B., assignor to Berlin Glove Co., Berlin, Wis. House slipper. 1,661,726; Mar. 6.
Jewett, Joseph E., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Nutsch filter. 1,661,290; Mar. 6.
Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Stamping or embossing machine. 1,661,178; Mar. 6.
Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Multiple drilling mechanism. 1,661,179; Mar. 6.
Johnson, Charles A., Unionville, assignor to The Stanley Works, New Britain, Conn. Carpenter's plane. 1,662,005; Mar. 6.
Johnson, George T., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Coupler yoke. 1,661,223; Mar. 6.
Johnson, James A., et al. (See Keefer, Sylvester A., assignor.)
Johnson, James P., assignor to Johnson's Purifying Systems, Incorporated, Greensboro, N. C. Apparatus for purifying gasoline. 1,661,478; Mar. 6.
Johnson & Johnson. (See Johnson, Robert W., assignor.)
Johnson, Lawrence, assignor to Johnson & Wentink, Chicago, Ill. Insulated-wire stripper. 1,661,180; Mar. 6.
Johnson, Robert M., Westmoreland, Calif. Ignition-spark tester. 1,661,664; Mar. 6.
Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Toothbrush. Des. 74,608; Mar. 6.
Johnson & Wentink. (See Johnson, Lawrence, assignor.)
Johnson's Purifying Systems, Incorporated. (See Johnson, James P., assignor.)
Joksch, Rudolf, Vienna, Austria. Automatic weighing apparatus. 1,661,291; Mar. 6.
Jones, Albert S. (See de Gönczy, D., and Jones.)
Jones, Loyd A., assignor to Eastman Kodak Company, Rochester, N. Y. Mobile color projector. 1,661,757; Mar. 6.
Jordan, William C., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,661,536; Mar. 6.
Josephson, Louis, assignor to Brookstone Bros. Inc., New York, N. Y. Wrapper for food products. 1,661,479; Mar. 6.
Juhasz, John. (See Overdorff, C., and Juhasz.)
Jungner, Ernst W., Kneippbaden, Sweden. Primary galvanic battery. 1,661,224; Mar. 6.
Junkers, Hugo, Dessau, Germany. Crank shaft. 1,661,181; Mar. 6.
Junkers, Hugo, Dessau, Germany. Shock-absorbing means. 1,661,182; Mar. 6.
Junkers, Hugo, Dessau, Germany. Wall-forming member. 1,661,183; Mar. 6.
Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Cast-steel side frame. 1,661,833; Mar. 6.
Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Journal-box lid. 1,661,834; Mar. 6.
Kaser, Everett D., assignor to Durabilt Steel Locker Co., Aurora, Ill. Locker. 1,661,370; Mar. 6.
Katz, Gus M., New York, N. Y. Refreshment mixer. 1,661,336; Mar. 6.
Kaval, James B., Chicago, Ill. Combination case and package for cigarettes. 1,661,803; Mar. 6.
Keefer, Sylvester A., assignor of one-third to J. A. Johnson and one-third to C. N. Wisdom, Manchester, Ga. Accelerator. 1,661,371; Mar. 6.
Keefer, Walter L., Chambersburg, Pa. Surface-cleaning machine. 1,661,480; Mar. 6.
Keller, Hermann, Hilton, assignor to Forstner Chain Corporation, Irvington, N. J. Forming flexible tubing. 1,661,835; Mar. 6.
Kemps, John T. (See Varker, N., Kemps, and Bartlett.)
Kenrick, Charles H., Onaway, assignor to Lobdell-Emery Manufacturing Company, Alma, Mich. Steering wheel. 1,661,481; Mar. 6.
Keohan, William F., trustee. (See French, R. W., and Holmes, assignors.)
Kernet Laboratories Co. Inc. (See Sarbey, Maurice D., assignor.)
Kerr, Frederick B., et al. (See Banta, George F., assignor.)
Keyser, Johann J., Aarau, Switzerland. Combined coupling and bearing. 1,661,256; Mar. 6.
Kieninger, Rudolf, Chicago, Ill. Canteen box. Des. 74,609; Mar. 6.
Kimmich, Elmer G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Flexible coupling. 1,662,006; Mar. 6.
King, Douglas H., Irvington, N. J. Animated fish toy. 1,661,758; Mar. 6.
King, Frank R., Madison, Wis. Pipe cleaner. 1,661,759; Mar. 6.
Kingsville Lumber Company. (See Baldwin, Joseph P., assignor.)
Kirch, Emma, Wilkes-Barre, Pa. Bicycle carriage. 1,661,257; Mar. 6.
Kirkpatrick, Robert S., Des Moines, Iowa. Washing machine. 1,661,665; Mar. 6.
Kiwanis International. (See Parker, Frederic C. W., assignor.)
Klaus, Stephan, Hawthorne, N. J. Toy. 1,661,292; Mar. 6.
Kline, Hayden B. (See Niederhauser, F. C., and Kline.)
Kline, Henry. (See Shultz, John L., assignor.)
Kmentt, Cornel, Youngstown, Ohio. Making warpless tire fabrics in continuous rolls. 1,661,184; Mar. 6.
Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Fastener. 1,661,537; Mar. 6.
Koch, Jacob P., assignor of one-half to H. P. Nichols, New York, N. Y. Modified multifocal lens. 1,661,760; Mar. 6.
Kodel Radio Corporation, The. (See Ogden, Clarence E., assignor.)
Koehler, Gustave, Philadelphia, Pa. Tile cutter. 1,661,897; Mar. 6.
Kohler Company. (See Witzel, Earl R., assignor.)
Kokomo Sanitary Pottery Company. (See Coxon, John B., assignor.)
Koppelman, Morris, and S. Cooper, Brooklyn, N. Y., assignors to Moulded Pulp Devices, Incorporated. Method and apparatus for making packing for fragile articles. 1,661,727; Mar. 6.
Kops Bros., Inc. (See Kops, Waldemar, assignor.)
Kops, Waldemar, New York, N. Y., assignor to Kops Bros., Inc. Apparel corset. 1,661,761; Mar. 6.
Korfund Company, The. (See Genest, Werner, assignor.)
Kormann, Frederick A., New Rochelle, N. Y., assignor to United Refineries Company, New York, N. Y. Apparatus for treating oil. 1,661,804; Mar. 6.
Kovács, Theodor, Berlin, Germany. Fountain pen. 1,661,225; Mar. 6.
Kranz, Frederick H., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Production of aromatic ketonic compounds. 1,661,293; Mar. 6.
Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company Inc. Wall lighting fixture. Des. 74,610; Mar. 6.
Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Wall lighting fixture. Des. 74,611; Mar. 6.
Krč, John, Wallis, Tex. Animal trap. 1,661,950; Mar. 6.
Kreidel, Hans, Wiesbaden, Germany. Direction indicator for vehicles. 1,661,762; Mar. 6.
Krenek, Louis R., Lagrange, Tex. Interchangeable rifle and shotgun barrel. 1,661,949; Mar. 6.
Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy, Dayton, Ohio. Engine starter. 1,661,372; Mar. 6.
Kuhlke Machine Company, The. (See Kuhlke, Otto J., assignor.)
Kuhlke, Otto J., assignor to The Kuhlke Machine Company, Akron, Ohio. Cushion tire. 1,662,007; Mar. 6.
Kuhne, Heinz E., Houston, Tex. Portable instrument housing. 1,661,482; Mar. 6.
Kurz, Gustave A., Zanesville, Ohio. Glove. 1,661,951; Mar. 6.
Kusper, Albert, Dayton, Ohio, assignor of one-half to W. Stefanowski. Tire. 1,661,373; Mar. 6.

Kutchka, Karl G., Wilkinsburg, and T. H. Swartzlander, Aspinwall, Pa., assignors to Pittsburgh Plate Glass Company. Glass-melting tank. 1,661,836; Mar. 6.
Kutschbach, Paul, Harburg, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Liquid-expressing apparatus. 1,661,614; Mar. 6.
Labisky, Henry S., Seattle, Wash. Washing-machine agitator. 1,661,763; Mar. 6.
Lacey, John S., Columbus, Ohio. Device for expressing juices from fruits. 1,661,374; Mar. 6.
Laemmle, George J., New Rochelle, assignor to Barnet Leather Company, Inc., New York, N. Y. Shearing fur pelts. 1,661,483; Mar. 6.
La Mont Corporation. (See La Mont, Walter D., assignor.)
La Mont, Walter D., Larchmont, assignor, by mesne assignments, to La Mont Corporation, New York, N. Y. Steam generator. Re16,895; Mar. 6.
Lange, Berthold A., St. Louis, Mo. Egg crate. 1,661,764; Mar. 6.
Lange, Pauly H., assignor to The Max Ams Machine Company, Bridgeport, Conn. Body-forming machine. 1,661,569; Mar. 6.
Largman, Gray Company. (See Gray, George, jr., assignor.)
Larsen, Waldemar, Fredriksstad, Norway. Lubricating device for motors and the like. 1,661,615; Mar. 6.
La Rue, William D., Philadelphia, Pa., assignor to Victor Talking Machine Company. Box or receptacle for holding small articles. 1,661,728; Mar. 6.
Lasbar, Thomas B., Fairfield, Conn., assignor to Associated Silver Company, Chicago, Ill. Spoon or similar article. Des. 74,612; Mar. 6.
Lavinder, Philip T., Salem, Va. Machine for making spring bands and like articles. 1,661,696; Mar. 6.
Lawrence, Franklin P., Topeka, Kans., and S. M. Hardaway, Kansas City, Mo. Ticket carrier. 1,661,570; Mar. 6.
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Bacon, assignors.)
Lee, Roger K., assignor to General Motors Research Corporation, Dayton, Ohio. Charge-forming device. 1,662,040; Mar. 6.
Leet, Arthur W., assignor to The Iron King Implement Company, Madison, Ohio. Combined fertilizer distributor and side dresser. 1,661,430; Mar. 6.
Legate, William H., West Hartford, assignor of one-half to E. E. Sage, Hartford, Conn. Coating metals. 1,662,008; Mar. 6.
Legate, William H., West Hartford, assignor of one-half to E. E. Sage, Hartford, Conn. Cigar cutter. 1,662,009; Mar. 6.
Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Mixing valve. 1,661,431; Mar. 6.
Leighton, Everett F., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Conductor clamp. 1,661,375; Mar. 6.
Leighton, Everett F., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Storage-battery terminal clamp. 1,661,376; Mar. 6.
Leiper, John, assignor to New York Mills Corporation, New York Mills, N. Y. Machine for cutting textile fabrics. 1,661,765; Mar. 6.
Leigemann, Willy. (See Hessle, E. T., and Leigemann.)
Lemaster, Charles A., Kansas City, Mo. Toaster. 1,661,294; Mar. 6.
Lengsfield Brothers. (See Lengsfield, Byron H., assignor.)
Lengsfield, Byron H., assignor to Lengsfield Brothers, New Orleans, La. Garment carton. 1,661,484; Mar. 6.
Lentaty, Ambrose, Los Angeles, Calif. Saxophone player's stand. 1,661,805; Mar. 6.
Leonardos, Eleftérios S., Shreveport, La. Gardening implement. 1,661,729; Mar. 6.
Leopold, George O. (See Fegley, T. J., and Leopold.)
Leslie O. Parker, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Vehicle lamp door. Des. 74,623; Mar. 6.
Levy, Joseph, Tulsa, Okla. Speaking tube. 1,661,485;
Libby, Francis O., assignor to The Twitchell-Champlin Company, Portland, Me. Oven for baking beans and the like. 1,661,766; Mar. 6.
Lillicrapp, William J., North Melbourne, D. L. O'Shea, and A. Hogan, East Brunswick, Victoria, Australia. Steering-column locking device for motor vehicles. 1,661,697; Mar. 6.
Lincoln, Robert A., Tonkawa, Okla. Cock. 1,661,432;
Linderman, Bert A., New York, N. Y., assignor to Linderman & Company, Wilmington, Del. Fluid-pressure device. 1,661,295; Mar. 6.
Linderman & Company. (See Linderman, Bert A., assignor.)
Lindsey, Ralph A., Minneapolis, Minn. Chest having removable liner and trays. 1,661,185; Mar. 6.
Line Material Co. (See Van Wagner, Paul, assignor.)
Link, Rolls P., London, England. Printing bed for embossing or imprinting machines. 1,661,898; Mar. 6.
Lion Electric Manufacturing Company. (See Krause, Arthur, assignor.)
Litchfield, Edgar C., et al. (See Litchfield, E. C., Hermann, and Speer, assignors.)
Litchfield, Edgar C., Cedar Falls, C. C. Hermann, Waterloo, and V. Speer, Cedar Falls, assignors to H. L. Litchfield, Waterloo, and E. C. Litchfield, Cedar Falls, Iowa. Converted manure spreader. 1,662,010; Mar. 6.
Litchfield, Henry L., et al. (See Litchfield, E. C., Hermann, and Speer, assignors.)
Litle, Thomas J., jr., assignor to Copeland Products, Inc., Detroit, Mich. Compressor. 1,661,433; Mar. 6.
Little, John W., Hamilton, Ohio. Foldable suspension hook. 1,661,837; Mar. 6.
Livergood, Gerald R., Houston, Tex. Pipe-supporting device. 1,661,838; Mar. 6.
Lobdell-Emery Manufacturing Company. (See Kenrick, Charles H., assignor.)
Locke, Albert R., Chicago, Ill. Electric switch and system. 1,661,434; Mar. 6.
Locke Insulator Corporation. (See Hawley, Kent A., assignor.)
Lockwood Ash Motor Company. (See Irgens, Finn T., assignor.)
Loetscher, Emil C., Dubuque, Iowa. Lumber-returning device for ripsaws. 1,661,767; Mar. 6.
Loomis, Crawford C. (See Brennan, J. E., and Loomis.)
Los Angeles Wall Bed Company. (See Cocks, Edgar, assignor.)
Lösel, Franz, Brunn, Czechoslovakia. Steam-turbine power plant and system. 1,661,296; Mar. 6.
Loughlin, Raymond P., Brooklyn, N. Y. Drifting valve and control mechanism. 1,661,806; Mar. 6.
Love, Francis B., and B. H. Smith, assignors to The Autocall Company, Shelby, Ohio. Case for fire-alarm signaling mechanism and the like. 1,661,258; Mar. 6.
Ludlow, Edward H., Evanston, Ill., assignor to Wire-bounds Patents Company. Sealing means and method for wire-bound boxes. 1,662,011; Mar. 6.
Ludlow, John L., Maplewood, N. J. Electron-tube circuits. 1,661,698; Mar. 6.
Luke, Edwin H. (See Noble, George E., assignor.)
Lumsden, Edward, et al. (See Cerfvol, Albert, assignor.)
Lutz, Adam N., assignor of one-half to E. J. Rosino, Sandusky, Ohio. Corpse-supporting rest. 1,661,377; Mar. 6.
Lynch, James H., jr. (See Patterson, J. C., and Lynch.)
Lyons, George W., Oak Park, Ill. Radioconsole. Des. 74,613; Mar. 6.
Lyons, George W., Oak Park, Ill. Radioconsole. Des. 74,614; Mar. 6.
Lyons, George W., Oak Park, Ill. Sound-reproducing apparatus. Des. 74,615; Mar. 6.
MacDonald, Clifford K., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Folding leather. 1,661,571; Mar. 6.
MacDonald, Clifford K., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Folding. 1,661,572; Mar. 6.
Macioskie, George, Erie, Pa., assignor to General Electric Company. Fluid-pressure brake. 1,661,839; Mar. 6.
Machren, George, New Monterey, assignor of one-half to R. Ello, Monterey, Calif. Striking and boring mechanism. 1,661,666; Mar. 6.
Magnin, Pierre, Paris, France. Siphon. 1,661,699; Mar. 6.
Magnus Fruit Products Co. (See Leibing, William E., assignor.)
Mair, James, Philadelphia, Pa., assignor to Hemphill Company, Central Falls, R. I. Yarn-plaiting tensioning means for knitting machines. 1,662,046; Mar. 6.
Majestic Lamp Works. (See Silberhartz, Philip, assignor.)
Mallach, Lillian, Los Angeles, Calif. Rack cover. 1,661,667; Mar. 6.
Mallouk, Salim N., Brooklyn, N. Y. Lace tray cover or the like. Des. 74,616; Mar. 6.
Malm, Walter R., San Francisco, Calif. Luggage carrier and bumper. 1,661,486; Mar. 6.
Maloney, Michael. (See Davis, R. H., Milewski, and Maloney.)
Mankin, Lynn S. (See Shaffer, J. C., and Mankin.)
Manneschmidt, Jacob, jr., Brooklyn, N. Y. Conduit-cover clamp. 1,661,840; Mar. 6.
Manson, Thomas M., Toronto, Ontario, Canada, assignor to Service Station Equipment Company, Bryan, Ohio. Air-service equipment. 1,661,186; Mar. 6.
Marchant, Guy O., et al. (See Walker, Jay P., assignor.)
Marcus, Charles L., New York, N. Y. Perfume container. Des. 74,617; Mar. 6.
Ma Riojas, José, Eagle Pass, Tex. Wheel and tire therefor. 1,661,502; Mar. 6.
Marion Machine, Foundry & Supply Company. (See Cook, William A., assignor.)
Mark, Florence G., San Diego, Calif. Sanitary garment. 1,661,952; Mar. 6.
Marshall, Edith E., Port Huron, Mich. Wrap. 1,661,768; Mar. 6.
Martens, David A., assignor to S. L. Martens, New York, N. Y. Combined door and mirror support. 1,661,899; Mar. 6.
Martens, Sarah L. (See Martens, David A., assignor.)
Martin, Arthur, Pittsburgh, Pa. Shaft coupling. 1,661,226; Mar. 6.

Martinelli, Lloyd A., and F. E. Culverwell, San Francisco, Calif. Vehicle brake construction. 1,661,435; Mar. 6.

Marsetti, Manlio, Milan, Italy. Universal parallel drafting device. 1,661,538; Mar. 6.

Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Vehicle body. 1,661,187; Mar. 6.

Matchabelli, George, assignor to Prince Matchabelli Perfumery, Inc., New York, N. Y. Bottle or similar container. Des. 74,618; Mar. 6.

Mathews, Fred. (See Strid, Sven J., assignor.)

Matthews, Albert K. Oak Park, Ill. Wall fixture. 1,661,188; Mar. 6.

Matthews, W. N., Corporation. (See Birkenmaier, Theodore, assignor.)

Max Ams Machine Company, The. (See Lange, Paul H., assignor.)

Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Phonograph system. 1,661,839; Mar. 6.

Maxwell, Cora B. (See Field, Cyrus W., assignor.)

Maxwell, Cora B., executrix. (See Field, Cyrus W.)

McAllister, Hugh, Wishaw, Scotland. Utensil for moulding sugar sweetmeats. 1,661,227; Mar. 6.

McCallum, John, Glasgow, and H. P. H. Anderson, Lanarkshire, Scotland. Steam-power installation. 1,661,900; Mar. 6.

McCormick, Francis H., Glen Ellyn, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater. Des. 74,619; Mar. 6.

McCormick, Francis H., Glen Ellyn, assignor to Edison Electric Appliance Company, Inc., Chicago, Ill. Electrically-heated device. 1,662,031; Mar. 6.

McCornack, Herbert, Glen Ridge, N. J. Air washer and carburetor. 1,661,540; Mar. 6.

McCullar, William M., Allenville, Ill. Coupling link. 1,661,487; Mar. 6.

McCullough, Frederick S., Wilkinsburg, Pa. Helium space discharge tube. 1,661,436; Mar. 6.

McCullough, Paul J., assignor to Scullin Steel Co., St. Louis, Mo. Journal-box-securing means. 1,661,669; Mar. 6.

McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,661,841; Mar. 6.

McDowell Manufacturing Company. (See Zabel, Charles, assignor.)

McFarland, James L., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,661,842; Mar. 6.

McGill, Chester T., assignor to Reiter Company, Elgin, Ill. Base-exchange water softener and filter and fill-nozzle salt-pot attachment. 1,661,488; Mar. 6.

McIntosh, James, Norristown, Pa., assignor to Diamond State Fibre Company, Bridgeport, Conn. Veneer and method of manufacturing. 1,661,901; Mar. 6.

McIntosh, James, Norristown, assignor to Diamond State Fibre Company, Bridgeport, Pa. Inductive reactor. 1,661,953; Mar. 6.

McKellar, Harry R., San Francisco, Calif. Photographic developing, fixing, and washing apparatus. 1,661,878; Mar. 6.

McKinney, Edward H., Salina, Kans. Hydraulic brake. 1,661,843; Mar. 6.

McLaughlin, Thomas F., San Francisco, Calif. Shut-off valve. 1,661,437; Mar. 6.

McMahon, Edward, et al. (See Jackson, Maunsell B., assignor.)

McManus, Charles E., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Feeding mechanism for stamp presses. 1,662,012; Mar. 6.

McMurray, Walter E., assignor to Clearfield Machine Company, Clearfield, Pa. Grinding pan. 1,661,297; Mar. 6.

McNeil, Ulrus H., and F. G. Pearce Woods Cross, Utah. Loud speaker. 1,661,541; Mar. 6.

McPherson, John S., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Brake hanger. 1,661,228; Mar. 6.

McSheen, Edward W. (See French, H. G., and McSheen.)

McWhirter, John S., New York, N. Y. Air-brake release. 1,661,730; Mar. 6.

Meacham, Merle R., Elizabeth, N. J., assignor to Standard Oil Development Company. Distillation of hydrocarbons. 1,661,189; Mar. 6.

Mead, William J., Galveston, Tex. Valve. 1,661,190; Mar. 6.

Menter, Lucie, née Thomas. (See Thomas, Lucie.)

Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Channeler. 1,661,630; Mar. 6.

Mergenthaler Linotype Company. (See Rogers, John R., assignor.)

Mertes, August, Lakewood, Ohio. Tuft-deflecting device for brush machines. 1,661,438; Mar. 6.

Mertes, August, Lakewood, Ohio. Device for drilling brush backs longitudinally. 1,661,700; Mar. 6.

Merzinger, Eduard, Dresden, Germany. Press-button fastener. 1,661,616; Mar. 6.

Messmer, Charles A., jr., St. Louis, Mo. Die. 1,661,807; Mar. 6.

Messmer, Charles A., jr., St. Louis, Mo. Die. 1,661,808; Mar. 6.

Meston, Archibald F., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Reclaiming used lubricating and insulating oils. 1,661,731; Mar. 6.

Meynardie, Pierre J. de S. A., Paris, France. Apparatus for concentrating aqueous liquids. 1,661,489; Mar. 6.

Michael, Alfred. (See Schriever, L., and Michael.)

Michaelis, Theodore R., Marinette, Wis. Garden tool. 1,661,954; Mar. 6.

Michaelson, Nelson A., Uniontown, Pa. Feed-wire support. 1,661,902; Mar. 6.

Michler, Robert W., Perris, Calif. Thickness gauge. 1,661,701; Mar. 6.

Michod, Charles L., Chicago, Ill., assignor to The Studebaker Corporation, South Bend, Ind., and The Copony Auto Loading Company, Detroit, Mich. Method and apparatus for loading and supporting vehicle bodies in freight cars and the like. 1,661,439; Mar. 6.

Micro Machine Company, The. (See Baumberger, William J., assignor.)

Midboe, Gabriel, Brooklyn, assignor to International Motor Company, New York, N. Y. Automatic brake-adjusting mechanism. 1,661,191; Mar. 6.

Midwest Refining Company, The. (See Sinclair, Ewart G., assignor.)

Mihallak, Edward, Brookfield, Ill. Street crossing. 1,661,490; Mar. 6.

Milewski, Joseph. (See Davis, R. H., Milewski, and Maloney.)

Miller, Charles H., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Heat deflector. 1,661,769; Mar. 6.

Miller, H. H., Industries Company, The. (See Miller, Harvey H., assignor.)

Miller, Harvey H., assignor to The H. H. Miller Industries Company, Canton, Ohio. Liquid-treating apparatus. 1,661,379; Mar. 6.

Miller, Howard, Fort Wayne, Ind., assignor to General Electric Company. Treating electrical windings. 1,661,844; Mar. 6.

Miller, John A., Glendale, Calif., assignor, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa. System of railway signaling and train control. 1,662,047; Mar. 6.

Miller, John A., and G. W. Cattell, Waukegan, Ill., assignors, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa. Cab-signaling and train-control system for railways. 1,661,670; Mar. 6.

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Minty, Alexander T., Winnipeg, Manitoba, Canada. Operating table. 1,661,491; Mar. 6.

Mitchell, Harry C., London, England. Decoration, ornamentation, or painting. 1,661,573; Mar. 6.

Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Single-package-vending machine. 1,661,440; Mar. 6.

Mitchell Products Company. (See Mitchell, Harry R., assignor.)

Mohl, John C., et al. (See Field, Marshall S., assignor.)

Mohler, Martin J., Wyoming, Del. Governor and water circulator. 1,661,903; Mar. 6.

Monforts, Joseph, Munich-Gladbach, Germany. Shearing machine. 1,661,617; Mar. 6.

Monroe, Kenneth P., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making tetra-alkyl lead. 1,661,809; Mar. 6.

Monroe, Kenneth P., Penns Grove, N. J., and K. Williams, Old Hickory, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing tetra-alkyl lead. 1,661,810; Mar. 6.

Montgomery, Gustavus A., assignor to Titusville Forge Co., Titusville, Pa. Pipe wrench. 1,661,229; Mar. 6.

Moore, Charles A., Edina, Minn. Refrigerator. 1,661,671; Mar. 6.

Moore, Henry A. (See Stuart, T. F., and Moore.)

Morel, Stanislas, Vevey, Switzerland. Teaseling machine. 1,661,492; Mar. 6.

Morgan-Gardner Electric Company. (See Connors, John L., assignor.)

Morgan, Norris G., Galva, Ill. End-gate fastener. 1,661,259; Mar. 6.

Morin, George G., Holyoke, Mass. Semiautomatic trip for power shovels. 1,661,955; Mar. 6.

Morrison, Edgar H., Virginia Beach, Va. Apparatus for hydraulic drilling. 1,661,672; Mar. 6.

Morrison, Frank F., Charlotte, N. C. Crib. 1,661,230; Mar. 6.

Morrison, Frank G. (See Schobert, E. C., and Morrison.)

Morton, Edmund R., assignor to Fairchild Aerial Camera Corporation, New York, N. Y. Variocoupler. 1,661,380; Mar. 6.

Morton, Harold T. (See Dutro, Clyde A., assignor.)

Most, August F. (See Gold, M., Most, and Fogel.)

Moulded Pulp Devices, Incorporated. (See Koppelman, M., and Cooper, assignors.)

Mross, Hans. (See Fricke, R., and Mross.)

Mullaney, Dudley A., Schenectady, N. Y., assignor to General Electric Company. Filament support for vacuum tubes. 1,662,032; Mar. 6.

Müller, Arthur, Lobenstein, Germany. Electroller for sewing machines. 1,661,260; Mar. 6.

Muller, George W., Washington, D. C. Track-bed construction and arrangement. 1,661,702; Mar. 6.

Murphy, Howard J., Reading, and M. F. Carr, Brookline, Mass., assignors, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating system. 1,661,904; Mar. 6.

Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,661,905; Mar. 6.

Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,661,906; Mar. 6.

Murphy, Paul B., Nyack, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Signal-receiving system. 1,661,261; Mar. 6.

Muth, Georg, Nuremberg, Germany. Making aluminum compounds. 1,661,618; Mar. 6.

Myers, Simon, et al. (See Pate, George D., assignor.)

Nacey, Harry M., Chicago, Ill. Alarm valve for automatic sprinkling systems. 1,661,442; Mar. 6.

Nagy, John, Jessup, Pa. Drill support. 1,661,956; Mar. 6.

National Aniline & Chemical Company. (See Jewett, Joseph E., assignor.)

National Aniline & Chemical Co. (See Kranz, Frederick H., assignor.)

National Bearing Metals Corporation. (See Crawford, Samuel W., assignor.)

National Blank Book Company. (See Schade, John, assignor.)

National Carbon Company. (See Hendry, William F., assignor.)

National Equipment Company. (See Bausman, Alonzo L., assignor.)

National Refrigeration Corporation. (See Wishart, William, assignor.)

National Supply Company, The. (See Wright, Clyde S., assignor.)

Naujock, John L., (See Hunt, A. L., and Naujock.)

Neal, Burton, St. Louis, and G. H. Hebebrand, Kinloch, Mo. Driving mechanism for producing gyratory motion of a suspended body. 1,661,673; Mar. 6.

Neal, Dora, et al. (See Pate, George D., assignor.)

Neely, Herbert G., Anderson, Ind. Keyboard mechanism. 1,661,443; Mar. 6.

Nelson, Elmer M., St. Paul, Minn. Portable roofing holder. 1,661,192; Mar. 6.

Nelson, Owen F., assignor to Copeland Products Inc., Detroit, Mich. Refrigeration. 1,661,381; Mar. 6.

Nethercut, Edgar S. (See Colman, Howard D., assignor.)

New Haven Sand-Blast Company. (See Fatscher, G. C., and Billings, assignors.)

Newkirk, William B., Riverside, Ill., assignor, by mesne assignments, to International Patents Development Company. Manufacturing dextrose from starch. 1,661,298; Mar. 6.

Newport, Jesse H., Kenilworth, Ill. Water heater. 1,661,193; Mar. 6.

Newton, Frederick, Derby, England, assignor to Celanese Corporation of America. Spindle for textile-spinning apparatus and means for driving it. 1,661,262; Mar. 6.

New York Brick Handling Corporation. (See Fuller, Claud E., assignor.)

New York Mills Corporation. (See Leiper, John, assignor.)

Niagara Metal Stamping Corporation. (See Armstrong, Eliot, assignor.)

Niagara Metal Stamping Corporation. (See Armstrong, J. A., and Benson, assignors).

Nichols, H. P. (See Koch, Jacob P., assignor.)

Nicholson, Henry A., Arkles Bay, Auckland, assignor to E. A. Craig, Auckland, New Zealand. Steam generator. 1,661,542; Mar. 6.

Nicholson, Henry A., Arkles Bay, Auckland, assignor to E. A. Craig, Auckland, New Zealand. Steam generator. 1,661,543; Mar. 6.

Nicholson, Henry A., Arkles Bay, Auckland, assignor to E. A. Craig, Auckland, New Zealand. Steam generator. 1,661,544; Mar. 6.

Nicholson, Henry A., Arkles Bay, Auckland, assignor to E. A. Craig, Auckland, New Zealand. Steam generator. 1,661,545; Mar. 6.

Nicholson, Henry A., Arkles Bay, Auckland, assignor to E. A. Craig, Auckland, New Zealand. Steam generator. 1,661,546; Mar. 6.

Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-range valve and operating member therefor. 1,661,845; Mar. 6.

Niederhauser, Frederick C., and H. B. Kline, assignors to The Industrial Rayon Corporation, Cleveland, Ohio. Treating cellulosic material. 1,661,493; Mar. 6.

Niederhauser, Frederick C., and H. B. Kline, assignors to The Industrial Rayon Corporation, Cleveland, Ohio. Treating cellulosic material. 1,661,574; Mar. 6.

Nielsen, John. (See Gardner, Edward B. and R. D., and Nielsen.)

Nielsen, Louis A., New York, N. Y. Catheter. 1,661,494; Mar. 6.

Nixon, Moses C., Chicago, Ill. Hub for propeller blades. 1,661,631; Mar. 6.

Nixon, Moses C., Chicago, Ill. Propeller apparatus suitable for use in connection with various vehicles. 1,661,632; Mar. 6.

Nixon, Moses C., Chicago, Ill. Hub for propeller blades. 1,661,633; Mar. 1.

Noble, George E., Chehalis, assignor to E. H. Luke, Seattle, Wash. Split shingle. 1,661,770; Mar. 6.

Noble, Wayne I., Chicago, Ill. Bead holder. 1,661,382; Mar. 6.

Norquist, Victor C., Kansas City, Mo. Water softener. 1,661,675; Mar. 6.

Norquist, Victor C., assignor to Butler Manufacturing Co., Kansas City, Mo. Water-softening system with semiautomatic regeneration. 1,661,676; Mar. 6.

Northam Warren Corporation. (See Halk, Louis, assignor.)

North Bros.' Mfg. Co. (See Fegley, T. J., and Leopold, assignors.)

North East Appliances Inc. (See Thompson, Russell G., assignor.)

Northern Conveyor & Mfg. Co. (See Whitnall, Jesse B., assignor.)

Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Detector mechanism for looms. 1,661,337; Mar. 6.

Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Shuttle-box tension-controlling mechanism. 1,661,338; Mar. 6.

Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom. 1,661,339; Mar. 6.

Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom. 1,661,340; Mar. 6.

Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. 1,662,033; Mar. 6.

Norton Company. (See Saxe, Charles W., assignor.)

Nyquist, Harry, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Regulating the transmission over electric circuits. 1,661,263; Mar. 6.

Nyquist, Harry, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Regulating the transmission over electric circuits. 1,661,264; Mar. 6.

Oakes, Alfred C. (See Oakes, Travis and A. C.)

Oakes, Travis and A. C., Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company. Apparatus for severing glass sheets. 1,661,846; Mar. 6.

Oberbeck, Joseph W., St. Louis, Mo., assignor of one-half to C. A. Winston, Bowden, Okla. Gripping tool for engaging and pulling pump rods. 1,661,231; Mar. 6.

Obergfell, Herbert F., River Forest, assignor to Automatic Electric Inc., Chicago, Ill. Telephone set. Des. 74,620; Mar. 6.

O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,661,335; Mar. 6.

Office Equipment Patents Corporation. (See Wigginton, George P., assignor.)

Officer, Charles B., Chicago, Ill., assignor to Sullivan Machinery Company. Coal cutter and loader. 1,661,628; Mar. 6.

Ogden, Clarence E., Cincinnati, Ohio, assignor to The Kodel Radio Corporation. Electrolytic rectifier. 1,661,703; Mar. 6.

Ohlson, John B., assignor to The Vortex Mfg. Co., Chicago, Ill. Dispensing container. 1,661,441; Mar. 6.

O'Keeffe, Russell L., assignor to Hale Bros., Inc., San Francisco, Calif. Toweling fabric. Des. 74,621; Mar. 6.

Olbricht, Heinrich M., Brunn, Czechoslovakia. Condensing apparatus. 1,661,265; Mar. 6.

Oldson, John A., assignor to Wyman-Gordan Company, Worcester, Mass. Six-throw four-bearing balanced crank shaft. 1,661,841; Mar. 6.

Olson, Edwin N., and P. E. Solberg, Sharon, N. Dak. Windmill. 1,661,847; Mar. 6.

O'Neill, Phillip M., Fort Ethan Allen, Vt. Swivel connection. 1,661,495; Mar. 6.

Osborn, Milton, Wayne City, Ill. Stovepipe attachment. 1,661,674; Mar. 6.

Osborne, Jesse A., Akron, Ohio. Water silencer. 1,661,704; Mar. 6.

Osborne, Raymond S., Cincinnati, Ohio. Riveting apparatus. 1,661,194; Mar. 6.

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,661,629; Mar. 6.

Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Taping machine. 1,661,383; Mar. 6.

O'Shea, Daniel L. (See Lillicrapp, W. J., O'Shea, and Hogan.)

Ottoson, Fritz. (See Braff, A. F., and Ottoson.)

Overdorff, Calvin, and J. Juhasz, Johnstown, Pa. Air compressor. 1,661,958; Mar. 6.

Overton, Walter S. (See Brauer, A. J., Wagner, and Overton.)

Owen, Fred M., New York, N. Y. Detachable spout for fluid receptacles. 1,662,043; Mar. 6.

Owensboro Ditcher & Grader Company. (See Cundiff, Charles W., assignor.)

Oxzyn Company. (See Valentine, Joseph E., assignor.)

Pabst, William E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Apparatus for aligning armature-core laminæ. 1,661,342; Mar. 6.

Packard Motor Car Company. (See Knapp, Archer L., assignor.)

Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Paddack, Truman G., Wyoming, assignor to The Stearns & Foster Company, Lockland, Ohio. Cutting device. 1,661,619; Mar. 6.

Pahl, Karl, Heidelberg, Germany. Metal sheet piling. 1,661,496; Mar. 6.

Pakulla, Edmund, Remscheid, assignor, by mesne assignments, to Deutsche Edelstahlwerke Aktiengesellschaft, Bochum, Germany. Steel alloy and making the same. 1,661,907; Mar. 6.

Palmer, Frederick, assignor to Triangle Conduit Co., Brooklyn, N. Y. Machine for flattening tubular materials. 1,661,908; Mar. 6.

Parcq, Jacques, Paris, France. Signaling apparatus for vehicles, more particularly motor cars. 1,661,343; Mar. 6.

Pardee, Frank, Hazleton, Pa. Feeder for breakers. 1,661,732; Mar. 6.

Parker, Adelbert F., deceased, Ogden, Utah; W. M. Parker, administrator. Balanced pump. 1,661,195; Mar. 6.

Parker Brothers, Inc. (See Richardson, Albert P., assignor.)

Parker, Frederic C. W., Oak Park, assignor to Kiwanis International, Chicago, Ill. Badge. Des. 74,622; Mar. 6.

Parker, Wynne M., administrator. (See Parker, Adelbert F.)

Parr, Clarence J., Hannibal, Mo. Automobile jack. 1,661,444; Mar. 6.

Parshall, Dallas D., Detroit, Mich. Compressor pump. 1,661,266; Mar. 6.

Pate, George D., Akron, assignor of thirty four-hundredths to D. Neal, Kenmore, and one-fourth to S. Myers, Akron, Ohio. Battery terminal. 1,661,497; Mar. 6.

Patterson, Frank W., Arlington, N. J., assignor to General Electric Company. Lamp-making machine. 1,662,045; Mar. 6.

Patterson, James C., East Orange, and J. H. Lynch jr., Jersey City, N. J. Switch-point protector. 1,661,733; Mar. 6.

Payne, Erle V., Oakland, Calif. Feeding water into washing machines. 1,661,445; Mar. 6.

Payne, Walter B., assignor to The Todd Company, Inc., Rochester, N. Y. Check writer. 1,661,384; Mar. 6.

Pearce, Francis G. (See McNeil, U. H., and Pearce.)

Pearce, Peter D., Grand Rapids, Mich. Ice-cream dispenser. 1,661,734; Mar. 6.

Peck, Lawrence W., Chicago, Ill. Dispensing device. 1,661,498; Mar. 6.

Pekar, Frank, Bridgeport, Conn. Sash latch. 1,661,634; Mar. 6.

People of the United States of America, The. (See Dahlberg, Arthur C., assignor.)

Peron, Anthony, New York, N. Y. Machine for grading ground coffee. 1,661,299; Mar. 6.

Perpall, Harold, Philadelphia, Pa. Transmission belt. 1,661,300; Mar. 6.

Perret, Georges, La Chaux-de-Fonds, assignor to H. Wilsdorf, Bienne, Switzerland. Keyless watch. 1,661,232; Mar. 6.

Pershing, Royal S., Fort Worth, Tex. Apparatus for cracking oil. 1,661,196; Mar. 6.

Personett, Cyrus C., deceased, Muncie, Ind.; N. Personett, administratrix. Road machine. 1,661,735; Mar. 6.

Personett, Nelle, Administratrix. (See Personett, Cyrus C.)

Peters, Oscar A. (See Branington, Edwin O., assignor.)

Peterson, Charles J. (See Smith, F. L., Caufield, and Peterson.)

Petroff, Grigori, Moscow, Russia, and P. Shestakoff, Paris, France. Production of washing agents. 1,661,620; Mar. 6.

Petroleum Reclamation Corporation. (See Ryder, H. M., and Bailey, assignors.)

Pfleger, Johannes, Frankfort-on-the-Main, and A. Albert, Munich, Germany. Manufacture of new organic arsenic compounds. 1,661,301; Mar. 6.

Phillips, Stephen W., Prompton, Pa. Automobile jack. 1,661,575; Mar. 6.

Phillips, Thomas H., jr., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Distance responsive controller. 1,661,677; Mar. 6.

Pieper, Henri, Brussels, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Brake mechanism. 1,661,621; Mar. 6.

Pieper, Henri, Brussels, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Brake system for vehicles running on rails. 1,661,622; Mar. 6.

Pieper, Henri, Brussels, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Braking device for vehicles. 1,661,623; Mar. 6.

Pieper, Henri, Brussels, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Servo-brake. 1,661,624; Mar. 6.

Pieper, Henri, Brussels, assignor to Compagnie Internationale des Freins Automatiques, Societe Anonyme, Liege, Belgium. Brake device. 1,661,625; Mar. 6.

Pilkington Brothers Limited. (See Armstrong, Alan, assignor.)

Pilkington Brothers, Limited. (See Taylor, Robert F., assignor.)

Pine-Waste Products, Inc. (See Waern, Adolph W., assignor.)

Pittsburgh Plate Glass Company. (See Kutchka, K. G., and Swartzlander, assignors.)

Pittsburgh Plate Glass Company. (See Oakes, Travis and A. C., assignors.)

Plass, Robert H., Upper Montclair, N. J., assignor to Poloris Company, Inc., New York, N. Y. Packaging machine. 1,661,848; Mar. 6.

Pocock, Merton A., assignor to Carter-Mayhew Manufacturing Company, Minneapolis, Minn. Water-cooling device. 1,661,385; Mar. 6.

Polar Electric Refrigerator Corporation. (See Williams, Frank E., assignor.)

Poloris Company. (See Plass, Robert H., assignor.)

Pomeroy, Timothy C., Minneapolis, Minn. Lifting jack. 1,661,705; Mar. 6.

Poole, Lora E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-assembling apparatus. 1,661,344; Mar. 6.

Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-conducting mechanism. 1,661,302; Mar. 6.

Poschen, Julius P. (See Edwards, R. M., and Poschen.)

Powell, Fred J., Jerome, Ariz. Steam engine. 1,661,957; Mar. 6.

Power, Henry R., Niagara Falls, assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive composition. 1,661,849; Mar. 6.

Prachel, Chauncey U., assignor to Eastman Kodak Company, Rochester, N. Y. Reducing the viscosity of nitrocelluiosic materials. 1,661,736; Mar. 6.

Price, Herbert T., Burwood, Sydney, New South Wales, Australia. Apparatus for pulp-board making. 1,661,678; Mar. 6.

Price, Herman G., and B. K. Smith, Houston, Tex. Electrode rack. 1,661,303; Mar. 6.

Price, William F., Glastonbury, Conn. Display stand. 1,661,304; Mar. 6.

Prince, Charles E., Burchett Green, England. Electric clock. 1,661,909; Mar. 6.

Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Electrical system. 1,661,850; Mar. 6.

Prince Matchabelli Perfumery, Inc. (See Matchabelli, George, assignor.)

Privett, Hollis F., Long Beach, Calif. Metal tire cover. 1,661,679; Mar. 6.

Proctor & Schwartz, Incorporated. (See Ayres, Elwood B., assignor.)

Proteau, Elizabeth, Kamloops, British Columbia, Canada. Aquatic device. 1,661,499; Mar. 6.

Purllant, Samuel F., Winchester, Ky. Clamp. 1,661,576; Mar. 6.

Quisling, Sverre, Madison, Wis. Antiskid device. 1,661,910; Mar. 6.

Radio Electric Clock Corporation. (See Casner, Thaddeus S., assignor.)

Raimer, Philip, Maple Heights, Ohio. Tractor trailer connection. 1,661,737; Mar. 6.

Rank, Henry W. (See Rank, John and H. W.)

Rank, John and H. W., Minneapolis, Minn. Traffic signal. 1,661,446; Mar. 6.

Räth, Curt. (See Binz, A., and Räth.)

Ray, Arthur B., Bayside, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Bonding activated carbon. Re16,896; Mar. 6.

Raymond, Charles, et al. (See Cerfvol, Albert, assignor.)

Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club press. 1,661,500; Mar. 6.

Redmond, Vincent J., New York, N. Y. Antenna. 1,661,771; Mar. 6.

Reefer, Eugene J., assignor to Reefer's No-Moth, Inc., Philadelphia, Pa. Deodorizing device. 1,661,547; Mar. 6.

Reefer's No-Moth, Inc. (See Reefer, Eugene J., assignor.)

Reek, Earl, Oakland, Calif. Toy. 1,661,959; Mar. 6.

Reichel, John, Philadelphia, Pa. Product killed-hog-cholera virus and producing it. 1,661,233; Mar. 6.

Reiter Company. (See McGill, Chester T., assignor.)

Reiter, Daniel L., New York, N. Y. Fastening device. 1,661,911; Mar. 6.

Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,661,386; Mar. 6.

Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,661,387; Mar. 6.

Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,661,626; Mar. 6.

Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,661,851; Mar. 6.

Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,661,852; Mar. 6.

Remington Arms Company. (See Brennan, J. E., and Loomis, assignors.)

Remington Typewriter Company. (See Going, George G., assignor.)

Renner, Herbert and J., Chicago, Ill. Composition for tree treatment. 1,661,577; Mar. 6.

Renner, Johannes. (See Renner, Herbert and J.)

Repp, Grover M., New York, N. Y. Stereotype-matrix-making machine. 1,661,267; Mar. 6.

Rhodes, Ernest, Herkimer, N. Y. Table. 1,661,853; Mar. 6.

Rhodes-Hochriem Manufacturing Company. (See Hochriem, Gustav F., assignor.)

Richa, John H. (See Fuqua, C. V., and Richa.)

Richardson, Albert P., assignor to Parker Brothers, Inc., Salem, Mass. Game. 1,661,197; Mar. 6.

Richter, Charles H., Trinidad, Colo. Receipt recorder. 1,662,034; Mar. 6.

Riddell, William A., Frederick, Md. Separating or classifying machine. 1,661,501; Mar. 6.

Riddle, Edward N., Company, The. (See Crowell, Frank S., assignor.)

Ridgely, Florence C., Detroit, Mich. Storage-battery device. 1,661,854; Mar. 6.

Riehl, Henri V., Versailles, France. Injector or aspirator. 1,661,960; Mar. 6.

Riess, Frank, Indianapolis, assignor to Riess Manufacturing Company, Kokomo, Ind. Combined metal-working machine. 1,662,013; Mar. 6.

Riess, Frank, Indianapolis, assignor to Riess Manufacturing Company, Kokomo, Ind. Combined metal-working machine. 1,662,014; Mar. 6.

Riess Manufacturing Company. (See Riess, Frank, assignor.)

Riffolt, Nils A. (See Goddard, R. H., and Riffolt.)

Rippl, Charles H., East Cleveland, assignor to The Clark Controller Company, Cleveland, Ohio. Alternating-current magnet. 1,661,345; Mar. 6.

Ritson, Cuthbert, Blyth, England. Cargo vessel. 1,661,855; Mar. 6.

Rittenhouse, Arthur E., Honeoye Falls, N. Y. Combined transformer and conduit-box cover. 1,661,268; Mar. 6.

Rivard, Joseph F., Detroit, Mich. Combined rear and side view mirror for automobiles. Des. 74,625; Mar. 6.

Roberti, Dario, Springfield, Mass. Combination lock. 1,661,680; Mar. 6.

Roberts, Clement I., and B. F. Collier, Albion, said Collier assignor of one-eighth to T. A. Collier, Rockford, and one-eighth to J. F. Collier, Spokane, Wash. Subsoil cultivator. 1,661,305; Mar. 6.

Roberts, Ralph S., assignor to Briggs Manufacturing Company, Detroit, Mich. Door handle. Des. 74,624; Mar. 6.

Robichaud, Michael W., Seattle, Wash. Ornamental toy doll. 1,661,856; Mar. 6.

Robinson, Alba B., Herkimer, N. Y. Check. 1,661,961; Mar. 6.

Robinson, Nils A., New York N. Y. Signaling system. 1,661,962; Mar. 6.

Robinson, Ulysses G., Oelrichs, S. Dak. Calculating machine. 1,661,234; Mar. 6.

Rodhe, Olof, New York, N. Y., assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analyzing apparatus. 1,661,627; Mar. 6.

Rogers, Jabin V., Cashmere, Wash. Fruit-sizing machine. 1,661,503; Mar. 6.

Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing and distributing machine. 1,661,504; Mar. 6.

Rogers, Robert W., Framingham, Mass., assignor to Sterling Range and Furnace Corporation, Rochester, N. Y. Stove. 1,661,306; Mar. 6.

Röhre, Kurt. (See Griessbach, R., and Röhre.)

Rollason, Charles H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Sheet-metal drum. 1,661,578; Mar. 6.

Rollinson, Earl H., Lyons Farms, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Bulb rectifier. 1,661,579; Mar. 6.

Rolls-Royce Limited. (See Royce, Frederick H., assignor.)

Rood, Fletcher C., Walla Walla, Wash. Mixer. 1,661,681; Mar. 6.

Rorke, Thomas H., Brooklyn, N. Y. Automobile water gauge. 1,661,269; Mar. 6.

Rosendahl, Nils M., Waterloo, Iowa, assignor to Construction Machinery Company. Hoist. 1,661,807; Mar. 6.

Rosino, Edward J. (See Lutz, Adam N., assignor.)

Rottler, Clarence T., Seattle, Wash. Grinding and finishing machine. 1,661,505; Mar. 6.

Royce, Frederick H., Elmstead, West Wittering, near Chichester, assignor to Rolls-Royce Limited, Nightingale Road, Derby, England. Brake system for vehicles. 1,661,963; Mar. 6.

Rubin, Milton H., New York, N. Y. Shuttle. 1,661,308; Mar. 6.

Rubottom, Clyde E. (See Wagner, C. R., and Rubottom.)

Rudic, Mary, Philadelphia, Pa. Gas-range closure casing. 1,661,964; Mar. 6.

Rundgren, Edward M., assignor to Western Architectural Iron Company, Chicago, Ill. Window framing. 1,661,198; Mar. 6.

Russ, John B., Shelton, assignor to The Bassett Metal Goods Company, Inc., Derby, Conn. Lock or similar article. Des. 74,626; Mar. 6.

Ruse, Thomas W., and E. A. Cox, Perth, Western Australia, assignors of one-third to R. Glenn, Mount Hawthorn, near Perth, Australia. Convertible dining and billiard table. 1,661,965; Mar. 6.

Russell Manufacturing Company, The. (See Zimmerer, Frederick J., jr., assignor.)

Ruziska, Joseph A., and D. L. Tapp, Morgantown, W. Va. Billiard-cue tip. 1,661,966; Mar. 6.

Ryder, Harry M., and L. J. Bailey, Bradford, Pa., assignors to Petroleum Reclamation Corporation, New York, N. Y. Plugging or packing off strata in wells. 1,661,270; Mar. 6.

Rymer, John A., Alameda, Calif. Internal-combustion engine. 1,661,738; Mar. 6.

Sage, Edwin E. (See Legate, William H., assignor.)

Salterini, John B., New York, N. Y. Bridge lamp. Des. 74,627; Mar. 6.

Salterini, John B., New York, N. Y. Bridge lamp. Des. 74,628; Mar. 6.

Salterini, John B., New York, N. Y. Bridge lamp. Des. 74,629; Mar. 6.

Sanborn, George O., Los Angeles, Calif. Packing baked fruits and vegetables. 1,662,044; Mar. 6.

Sanders, Henry R., North Beach, Md. Combined signal and trouble lamp for automobiles. 1,661,506; Mar. 6.

Sanford, Hugh W., Knoxville, Tenn. Journal box and axle. 1,661,968; Mar. 6.

Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-applying means. 1,661,772; Mar. 6.

Sarbey, Maurice D., Cleveland, Ohio, assignor to Kemet Laboratories Co. Inc. Treating electronic emission devices. 1,661,235; Mar. 6.

Sasnett, Edward C., Washington, D. C. Railway signaling. 1,661,507; Mar. 6.

Sasnett, Edward C., Washington, D. C. Railway signaling. 1,661,508; Mar. 6.

Sasse, Frederick C. (See Cormier, Emery, assignor.)

Sather, Edmund O., Alameda, Calif. Automatic windshield wiper. 1,661,388; Mar. 6.

Savage, Morris, Philadelphia, Pa. Candy box. Des. 74,630; Mar. 6.

Savoie, Joseph, Central Falls, R. I. Auxiliary lens attachment for spectacles. 1,661,967; Mar. 6.

Sawyer, Charles B., assignor to The Brush Laboratories Company, Cleveland, Ohio. Thermostatic controlling mechanism. 1,661,346; Mar. 6.

Sawyer, Charles B., assignor to The Brush Laboratories Company, Cleveland, Ohio. Thermostatic controlling mechanism. 1,661,347; Mar. 6.

Sawyer, Charles B., assignor to The Brush Laboratories Company, Cleveland, Ohio. Thermostatic controlling device. 1,661,349; Mar. 6.

Saxe, Charles W., assignor to Norton Company, Worcester, Mass. Refractory muffle. 1,661,309; Mar. 6.

Sebell, Harry, Boston, Mass. Window-washing device. 1,661,236; Mar. 6.

Sebrell, Lorin B., and J. Teppema, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Preparing thiazoles. 1,662,015; Mar. 6.

Seiple, Torrence R. (See Stevens, W. E., and Seiple.)

Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Container cover. 1,661,199; Mar. 6.

Semashko, John J., Morrisville, Pa. Tile-receiving machine. 1,661,969; Mar. 6.

Semet-Solvay Engineering Corporation. (See Steere, G. R., and Hurst, assignors.)

Seng, Wendelin P., Wilmette, Ill. Steering wheel and ignition lock. 1,661,447; Mar. 6.

Sentrop, Johannes T., Grand Rapids, Mich. Building block. 1,661,739; Mar. 6.

Service Station Equipment Company. (See Manson, Thomas M., assignor.)

Sessions, Frank L., Lakewood, Ohio. Electric welding machine. 1,661,970; Mar. 6.

Setzefant, Charles, Modesto, Calif. Electric heating system for oil pipe lines. 1,661,683; Mar. 6.

Seymour, Burton W., ar., Jamestown, N. Y. Steamer for oil wells. 1,661,971; Mar. 6.

Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Sheet-retaining post for loose-leaf ledgers. 1,661,811; Mar. 6.

Schen, Charles J., Detroit, Mich. Universal thread gauge. 1,661,857; Mar. 6.

Scherner, John, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Wrench mechanism. 1,661,682; Mar. 6.

Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Valve mechanism. 1,661,310; Mar. 6.

Schmutzler, Katherine, Glenside, Pa. Lady's combination undergarment. 1,661,350; Mar. 6.

Scholl, Louis A., Crafton, Pa. Automobile bed. 1,661,580; Mar. 6.

Schobert, Earl C., and F. G. Morrison, Akron, Ohio. Door-check. 1,661,706; Mar. 6.

Schoneberg, Leo, et al. (See Weaver, Samuel L., assignor.)

Schriever, Lüder, Danzig-Langfuhr, Free State of Dansig, and A. Michael, Bremen, Germany. Ship's side scuttle. 1,661,581; Mar. 6.

Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,661,271; Mar. 6.

Schwarber, Henry, Weehawken, N. J. Embroidered edging. Des. 74,631; Mar. 6.

Scullin Steel Co. (See McCullough, Paul J., assignor.)

Sczepczenski, Peter, assignor of one-half to M. Gill, Niagara Falls, N. Y. Padlock. 1,661,777; Mar. 6.

Shadid, Elias A., Mangum, Okla. Oil drainer and cleaner. 1,661,972; Mar. 6.
Shaffer, John C., Tulsa, and L. S. Mankin, Duncan, Okla. Gauge cock. 1,661,973; Mar. 6.
Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting-fixture wall bracket. Des. 74,633; Mar. 6.
Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Bracket back. Des. 74,634; Mar. 6.
Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Bracket back. Des. 74,635; Mar. 6.
Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Bracket back. Des. 74,636; Mar. 6.
Shaw, Stanley W., Galesburg, Kans. Gauge wheel for agricultural implements. 1,661,237; Mar. 6.
Shears, Frederick W., et al. (See Cerfvol, Albert, assignor.)
Shestakoff, Peter. (See Petroff, G., and Shestakoff.)
Shively, Jess A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-building machine. 1,662,016; Mar. 6.
Shultz, John L., assignor of one-third to H. Kline, Bellefonte, Pa. Air-hose-coupling safety device. 1,661,635; Mar. 6.
Silberhartz, Philip, Brooklyn, assignor to Majestic Lamp Works, New York, N. Y. Lamp base or analogous article. Des. 74,632; Mar. 6.
Silvers, Harry, et al. (See Weaver, Samuel L., assignor.)
Silverstein, Oscar. (See Van Valkenberg, Eber H., assignor.)
Simon, George J., St. Louis, Mo. Culinary utensil. 1,661,974; Mar. 6.
Simplex Piston Ring Co. of America, Inc., The. (See Brush, Alanson P., assignor.)
Simpson, Kenneth M., New York, N. Y. Treating flue dust. 1,661,636; Mar. 6.
Sinclair, Ewart G., Maracaibo, Venezuela, assignor to The Midwest Refining Company, Denver, Colo. Mining oil and the like. 1,661,389; Mar. 6.
Sinclair, Ewart G., Maracaibo, Venezuela, assignor to The Midwest Refining Company, Denver, Colo. Mining oil sands. 1,661,390; Mar. 6.
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Skinner, Harry A., Waterloo, Mich. Milling-machine attachment. 1,661,509; Mar. 6.
Skov, Henry A., assignor to A/S Dansk Pressefabrik, Copenhagen, Denmark. Machine for manufacturing bottle caps, so-called crown caps. 1,661,912; Mar. 6.
Slabaugh William H. (See Evans, B. A., and Slabaugh.)
Sloan, John, Johannesburg, Transvaal, South Africa, Rock pack, pillar, or like support for use in mine workings. 1,661,238; Mar. 6.
Small, Bertram A., Chicago, Ill. Clip for tire chains. 1,661,707; Mar. 6.
Smith, Albert A., Berkley, Mich. Sighting device for trench diggers. 1,661,812; Mar. 6.
Smith, Benjamin K. (See Price, H. G., and Smith.)
Smith, Boyd H. (See Love, F. B., and Smith.)
Smith, Boyd H., assignor to The Autocall Company, Shelby, Ohio. Safety locking device for casings. 1,661,272; Mar. 6.
Smith, Carl A., Defiance, Ohio. Cowl light for automobiles. 1,661,975; Mar. 6.
Smith, Frank A., Naugatuck, Conn. Fuel vaporizer and mixer. 1,661,773; Mar. 6.
Smith, Frank L., J. S. Caufield, and C. J. Peterson, Sacramento, Calif. Retread mold for tires. 1,662,035; Mar. 6.
Smith, Hannah M., administratrix. (See Smith, Owen P.)
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,661,311; Mar. 6.
Smith, Joseph A., Collingswood, N. J. Rotary saw. 1,661,774; Mar. 6.
Smith, Owen P., deceased, Miami, Fla., H. M. Smith, administratrix. Door-closing mechanism. 1,661,273; Mar. 6.
Smithey, Marvin, Lawrenceville, Va. Lubrication indicator. 1,661,312; Mar. 6.
Solberg, Philip E. (See Olson, E. N., and Solberg.)
Sorensen, Andrew J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Decoding apparatus. 1,661,637; Mar. 6.
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Spang, Ferdinand J., Butler, Pa. Fishing tool. 1,661,638; Mar. 6.
Specialty Patents Holding Co. (See Bizzarri, Anthony, assignor.)
Speer, Victor. (See Litchfield, E. C., Hermann, and Speer.)
Sperry Gyroscope Company, The. (See Bates, Mortimer F., assignor.)
Sperry Gyroscope Company, The. (See Phillips, Thomas H., jr., assignor.)
Spiral Piston Ring Company. (See Graves, Harry S., assignor.)
Spitz, Samuel, New York, N. Y. Toilet article. 1,661,200; Mar. 6.
Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Approach-indication apparatus. 1,661,639; Mar. 6.
Spronston, Edmund, Winnipeg, Manitoba, Canada. Floor-treating machine. 1,661,510; Mar. 6.
Standard Oil Development Company. (See Meacham, Merle R., assignor.)
Standard Steel Car Company. (See Christianson, Andrew, assignor.)
Standard Trump Bros. Machine Company. (See Houseman, Wilbur L., assignor.)
Stanley Works, The. (See Johnson, Charles A., assignor.)
Stark, Theodore H., assignor to C. Bruno & Son, Inc., New York, N. Y. Tuning key for string instruments. 1,661,708; Mar. 6.
Stearns & Foster Company, The. (See Paddack, Truman G., assignor.)
Steere, George R., and A. Hurst, Owosso, Mich., assignors, by mesne assignments, to Semet-Solvay Engineering Corporation, New York, N. Y. Pipe-cutting machine. 1,661,274; Mar. 6.
Stefanowski, Walter. (See Kusper, Albert, assignor.)
Steffler, Frank J., Teeswater, Ontario, Canada. Automobile sleigh. 1,661,511; Mar. 6.
Stehli, Henry J., Cedar Grove, N. J. Sintering zinc ores. 1,661,813; Mar. 6.
Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Switch-controlling device. 1,662,041; Mar. 6.
Steiner, J. Howard, et al. (See Weaver, Samuel L., assignor.)
Stephan, Emil, assignor to W. H. Gast, Bridgman, Mich. Spray gun and operating the same. 1,661,239; Mar. 6.
Stensland, Iver N., Ketchikan, Alaska. Anchor hoist. 1,661,275; Mar. 6.
Sterling Range & Furnace Corporation. (See Rogers, Robert W., assignor.)
Stern, Ernst, Charlottenburg, Germany. Making starch products. 1,661,201; Mar. 6.
Stevens, Walter E., and T. R. Selple, Ashley, Pa. Automobile trouble lamp. 1,661,318; Mar. 6.
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,661,391; Mar. 6.
Stickney, Burnham C., Elizabeth, N. J. Typewriter cabinet. 1,661,392; Mar. 6.
Stickney, Burnham C., Elizabeth, N. J. Paper corrugating and crinkling. 1,661,393; Mar. 6.
Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for effecting energization control of an electric circuit. 1,661,740; Mar. 6.
Stokoe, Ashley M., St. Paul, Minn. Classifying apparatus. 1,661,858; Mar. 6.
Stoltenberg, Adolph, New York, N. Y. Vegetable cutter. 1,662,036; Mar. 6.
Stotereau, E. J., et al. (See Tordsen, Herman C., assignor.)
Stovall, James N., assignor of one-fourth to I. C. Underwood and one-fourth to C. E. Herrington, Gorman, Tex. Harvesting machine. 1,661,976; Mar. 6.
Straues-Eckardt Co. (See Eckardt, Herman V., assignor.)
Streich, Frank, assignor to Union Machinery Company, Joliet, Ill. Bun and bread rounder. 1,661,775; Mar. 6.
Strid, Sven J., assignor to F. Mathews, Chicago, Ill. Double-end control. 1,661,276; Mar. 6.
Strouse, Thomas J., Pottstown, Pa. Storage-battery charge indicator. 1,661,776; Mar. 6.
Stuart, Thomas F., and H. A. Moore, Los Angeles, Calif. Door latch. 1,661,548; Mar. 6.
Studebaker Corporation, The. (See Baus, Richard E., assignor.)
Studebaker Corporation, The, et al. (See Michod, Charles L., assignor.)
Suiter, Charles H., et al. (See Field, Marshall S., assignor.)
Sullivan, Francis D., Memphis, Tenn. Oil-well-cleaning composition. 1,661,512; Mar. 6.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
Sullivan Machinery Company. (See Officer, Charles B., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan, William T., Cincinnati, Ohio. Binding post for calendar pads and the like. 1,661,315; Mar. 6.
Sund, Walter F. (See Fischer, G. W., and Sund.)
Suppes, George P., Johnstown, Pa. Making furnace lining. 1,661,859; Mar. 6.
Sutcliffe, John W., London, England. Sealing jars and the like containers and improved sealing capsule therefor. 1,661,977; Mar. 6.
Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
Swartzlander, Thomas H. (See Kutchka, K. G., and Swartzlander.)
Swett, Erman N., South Sioux City, Nebr. Tee-forming blank. 1,661,513; Mar. 6.
Symington Company, The. (See Kadel, Byers W., assignor.)

Szydlowski, Josef, Baden, Germany. Piston engine. 1,661,582; Mar. 6.
Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)
Talbott, Raymond J., Tulsa, Okla. Armored pneumatic tire. 1,661,978; Mar. 6.
Tallman, Albert R., Nashville, Tenn. Stamp holder. 1,661,394; Mar. 6.
Tallman, Albert R., Nashville, Tenn. Stamp carrier. 1,661,395; Mar. 6.
Tancill, Grace, St. Louis, Mo. Dress. Des. 74,637; Mar. 6.
Tapp, Davis L. (See Ruziska, J. A., and Tapp.)
Tate, William J., Flint, Mich. Ventilating sunshade. 1,661,709; Mar. 6.
Taylor, Casper R., Washington, D. C., assignor to Foreign Paper Mills, Inc. Paper-testing machine. 1,661,549; Mar. 6.
Taylor, Cyril S., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Nonseizing article of aluminum and producing the same. 1,661,448; Mar. 6.
Taylor, Frank F., Co., The. (See Crosley, Powel, jr., assignor.)
Taylor Instrument Companies. (See Hazard, Theodore C., assignor.)
Taylor, John, Chicago, Ill. Battery tester. 1,661,913; Mar. 6.
Taylor, Robert F., St. Helens, assignor to Pilkington Brothers, Limited, Liverpool, Lancaster, England. Apparatus for the continuous grinding and polishing of glass in the form of strips or plates. 1,661,914; Mar. 6.
Taylor, Smith & Taylor Company, The. (See Beattie, Kenneth P., assignor.)
Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Shuttle. 1,662,017; Mar. 6.
Technicolor Motion Picture Corporation. (See Ball, J. A., Gallison, and Weaver, assignors.)
Templeton, Edwin G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Control mechanism for golf-ball-winding machines. 1,661,860; Mar. 6.
Teppema, Jan. (See Sebrell, L. B., and Teppema.)
Tereba, Albert. (See Deptuin, Carl, assignor.)
Testite Company, The. (See Cromwell, John C., assignor.)
Tew, James D., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for building pneumatic tires. 1,661,449; Mar. 6.
Tide Water Oil Company. (See Bertschinger, Charles F., assignor.)
Tierney, Philip W., assignor to Eastman Kodak Company, Rochester, N. Y. Speed control for motion-picture apparatus. 1,661,741; Mar. 6.
Titusville Forge Co. (See Montgomery, Gustavus A., assignor.)
Thayer, Edwin S., Oakdale, Pa. Tank-car siphon valve. 1,661,202; Mar. 6.
Thiessen, John F., Los Angeles, Calif. Combined ash tray and butt extinguisher. Des. 74,638; Mar. 6.
Thomas, Arthur, Thornton Heath, assignor to The Accounting & Tabulating Corporation of Gt. Britain, Limited, London, England. Statistical, calculating, and like machine controlled by mechanical records. 1,661,684; Mar. 6.
Thomas, Lucie, Nowawes, by Potsdam, L. Menter, née Thomas, assignor to J. Bergmann, Berlin, Germany. Computing machine. 1,661,277; Mar. 6.
Thommen, William H., Plymouth, Wis. Sound-reproducing machine. 1,661,396; Mar. 6.
Thommen, William H., Plymouth, Wis. Sound-reproducing machine. 1,661,397; Mar. 6.
Thompson, Frank H., assignor to Dennison Manufacturing Company, Framingham, Mass. Pin ticket. 1,661,583; Mar. 6.
Thompson, Russell G., Rochester, N. Y., assignor, by mesne assignments, to North East Appliances Inc. Power mechanism. 1,661,710; Mar. 6.
Todd, Charles W., Schenectady, N. Y. Controlling the swiveling action of railway trucks. 1,661,814; Mar. 6.
Todd Company. (See Payne, Walter B., assignor.)
Toledo Automatic Brush Machine Company, The. (See Jobst, Conrad, assignor.)
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Grinding wheel and holder therefor. 1,661,861; Mar. 6.
Toniolo, Carlo, Milan, Italy. Rapid evaporation to dryness of ammonium nitrate solutions. 1,661,203; Mar. 6.
Tordsen, Herman C., assignor of one-half to E. J. Stotereau and F. K. Gage, Lakefield, Minn. Grain-car door. 1,661,514; Mar. 6.
Tozer, Alfred J., Wellington, New Zealand. Bolt for use in conjunction with existing door locks. 1,661,584; Mar. 6.
Transom, Frederick, Washington, D. C., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. System of rectification. 1,661,585; Mar. 6.
Tratsch, Walter A. (See Bechtol, A. H., and Tratsch.)
Treichel, Otto, Berlin, Germany. Printing in greasy inks with gelatin printing surfaces. 1,661,515; Mar. 6.
Triangle Conduit Co. (See Palmer, Frederick, assignor.)
Tribune Company, The. (See Wolf, Otto R., assignor.)
Trimbach, Frank C., Dayton, Ohio. Doorstop. 1,661,240; Mar. 6.
Trinler, Adam W., Parry Sound, Ontario, Canada. Sectional boat. 1,661,314; Mar. 6.
Trott, Frank, assignor to H. V. Trott, Harvey, Ill. Weighing scale. 1,661,241; Mar. 6.
Trott, Harriett V. (See Trott, Frank, assignor.)
Troxler, Bernhart, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Preparing progressive-burning smokeless powder. 1,661,278; Mar. 6.
Truxal, James R., Greensburg, Pa. Highway marker. 1,661,242; Mar. 6.
Tschida, Adolph J. and T. T., St. Paul, Minn. Cable-support bracket. 1,661,398; Mar. 6.
Tschida, Theodore T. (See Tschida, Adolph J. and T. T.)
Twitchwell-Champlin Company, The. (See Libby, Francis O., assignor.)
Ugolini, Alexander, Youngstown, Ohio. Electrical scrubbing and drying machine. 1,661,979; Mar. 6.
Underwood, I. C., et al. (See Stovall, James N., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Union Asbestos & Rubber Company. (See Gillies, William R., assignor.)
Union Machinery Company. (See Elwood, Ward P., assignor.)
Union Machinery Company. (See Streich, Frank, assignor.)
Union Steam Pump Company. (See Bird, John C., assignor.)
Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company. (See Miller, John A., assignor.)
Union Switch & Signal Company. (See Miller, J. A., and Cattell, assignors.)
Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
Union Switch & Signal Company, The. (See Spray, Lester E., assignor.)
United Refineries Company. (See Kormann, Frederick A., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Bradbury, Walter W., assignor.)
United Shoe Machinery Corporation. (See MacDonald, Clifford K., assignor.)
United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
Universal Draft Gear Attachment Co. (See Hall, Joseph M., assignor.)
Valentine, Joseph E., Plainfield, N. J., assignor to Oxzyn Company, New York, N. Y. Powder puff and making the same. 1,661,778; Mar. 6.
Vanatta, Willis N., Ontario, Calif., assignor to Edison Electric Appliance Company, Inc., Chicago, Ill. Electric heater. 1,661,862; Mar. 6.
Van Allen, Kenneth, New York, N. Y. Powder adapted to liberate iodine. 1,661,640; Mar. 6.
Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,661,351; Mar. 6.
Van Maercke, Joseph. (See Van Steenkiste, J., and Van Maercke.)
Van Orman, Ward T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Leakproof tank cover. 1,662,018; Mar. 6.
Van Saut, Leport R., Peoria, Ill. Fuel-burning system. 1,661,450; Mar. 6.
Van Steenkiste, Joseph, and J. Van Maercke, Wevelghem, Belgium. Scutching machine. 1,661,316; Mar. 6.
Van Valkenberg, Eber H., McKeesport, Pa., assignor of one-half to O. Silverstein, Spokane, Wash. Control mechanism. 1,661,586; Mar. 6.
Van Wagner, Paul, New York, N. Y., assignor to Line Material Co., South Milwaukee, Wis. Electrical appliance. 1,661,712; Mar. 6.
Varker, Newton, J. T. Kemps, and C. H. Bartlett, Cuba City, Wis. Stepladder. 1,661,587; Mar. 6.
Vaughan, Howard A., Chicago, Ill. Game. 1,661,711; Mar. 6.
Vecchi, Emilio E., Des Moines, Iowa. Emergency device for automobiles. 1,661,641; Mar. 6.
Versare Corporation. (See Warbus, Oliver F., assignor.)
Vessy, Clifford W., Cleveland, Ohio, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Package and closure means. 1,661,243; Mar. 6.
Victor, Alexander F., New York, N. Y. Camera casing. Des. 74,639; Mar. 6.
Victor Talking Machine Company. (See La Rue, William D., assignor.)
Victorsohn, Morris, Brooklyn, assignor to Victorson Manufacturing Corporation, New York, N. Y. Cabinet-door hanger. 1,662,048; Mar. 6.
Victorson Manufacturing Corporation. (See Victorsohn, Morris, assignor.)

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,661,550; Mar. 6.
Vineberg, Samuel S., Winnipeg, Manitoba, Canada. Safety hanger. 1,661,516; Mar. 6.
Vogel, Robert. (See Augenstein, C., and Vogel.)
Voices Incorporated. (See Fuertinger, Andrew, assignor.)
Voigt, Albert P. J., Galveston, Tex. Whirlpool muffler. 1,661,980; Mar. 6.
Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Metal lath. 1,661,642; Mar. 6.
Voith, Walther, St. Polten, near Vienna, Austria. Writing device. 1,661,204; Mar. 6.
Von Bosse, Julius, Leipzig, Germany. Metallizing process. 1,661,517; Mar. 6.
Von Neergaard, Karl, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Therapeutic bougies. 1,661,588; Mar. 6.
Vortex Mfg. Co., The. (See Barbieri, Cesare, assignor.)
Vortex Mfg. Co., The. (See Ohlson, John B., assignor.)
Waddell, Otto, Radersburg, Mont. Resilient wheel. 1,661,643; Mar. 6.
Waern, Adolph W., Ontonagon, Mich., assignor to Pine-Waste Products, Inc., New York, N. Y. Reducing and smelting furnace. 1,661,742; Mar. 6.
Wagner, Carl R., and C. E. Rubottom, Peoria, Ill. Arctic applier and remover. 1,661,205; Mar. 6.
Wagner, Frederick P. (See Brauer, A. J., Wagner, and Overton.)
Walker, Jay P., assignor of forty percent to G. O. Marchant and six percent to C. G. Wells, Tulsa, Okla. Oil and gas separator. 1,661,635; Mar. 6.
Wall, Merl M. (See Zimmerman, Henry A., assignor.)
Wallis, Barnes N., and C. D. Burney, Westminster, London, assignors to Airship Guarantee Company, Limited, Westminster, England. Lighter-than-air aircraft. 1,661,206; Mar. 6.
Walters, Herbert C. (See Chryst, W. A., and Walters.)
Wanat, Walenty, South Milwaukee, Wis. Garage or barn door lock. 1,661,982; Mar. 6.
Wandersleb, Ernst, assignor to the firm Carl Zeiss, Jena, Germany. Mount for photographic objectives. 1,661,279; Mar. 6.
Ward, Walter S., and B. H. Britt, New York, N. Y., assignors, by mesne assignments, to Commercial Truck Company, Philadelphia, Pa. Battery cradle for electric trucks. 1,661,779; Mar. 6.
Warhus, Oliver F., Albany, N. Y., assignor to Versare Corporation. Propelling and transmission mechanism for vehicles. 1,661,780; Mar. 6.
Warren, David, Roxbury, Mass. Garment bag. 1,661,644; Mar. 6.
Warren, David, Roxbury, Mass. Garment bag. 1,661,645; Mar. 6.
Waskewicz, Waclaw, Ludlow, Vt. Bottle-cap remover. 1,661,981; Mar. 6.
Weaver, Eastman A. (See Ball, J. A., Gallison, and Weaver.)
Weaver, Samuel L., assignor to J. H. Steiner, L. Schoneberg, and H. Silvers, Chicago, Ill. Display rack. 1,661,207; Mar. 6.
Wehli, Morris, Basel, Switzerland. Grid bar for fiber-treating machines. 1,661,518; Mar. 6.
Wells, C. G., et al. (See Walker, Jay P., assignor.)
Wells, Frank O., Greenfield, Mass. Nonskid device. 1,661,280; Mar. 6.
Wentzel, Ralph E., and J. T. Griffith, Wilkes-Barre, Pa. Refuse collector. 1,661,983; Mar. 6.
West, Ulah J. W. (See Eason, Andrew J., assignor.)
Western Architectural Iron Company. (See Rundgren, Edward M., assignor.)
Western Electric Company. (See Deakin, Gerald, assignor.)
Western Electric Company. (See Fletcher, Harvey, assignor.)
Western Electric Company. (See Haddock, Arthur, assignor.)
Western Electric Company. (See Maxfield, Joseph P., assignor.)
Western Electric Company. (See Murphy, Paul B., assignor.)
Westling, Carl J., assignor to Construction Machinery Company, Waterloo, Iowa. Loader for cement mixers. 1,661,244; Mar. 6.
Weston Electrical Instrument Corporation. (See Carpenter, Grant, assignor.)
Wetmore, Laurence, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Distributing washers to the pins of heel molds. 1,662,019; Mar. 6.
Wheeling Steel Corporation. (See Rollason, Charles H., assignor.)
Whitehead, Thomas C. (See Greenwald, Harold A., assignor.)
Whitehouse, John N., New York, N. Y. Method of and apparatus for making celluloid tubes. 1,661,451; Mar. 6.
Whitehurst Printing & Binding Company. (See Zepf, William G., assignor.)
Whitnall, Jesse B., assignor to Northern Conveyor & Mfg. Co., Milwaukee, Wis. Combined shaker screen and conveyer. 1,661,781; Mar. 6.
Whitney, Clarence E., et al., executors. (See Hanson, Bengt M. W.)
Wichtendahl, Rudolf, Hanover, Germany. Variable chain drive. 1,662,037; Mar. 6.
Wigginton, George P., Kalamazoo, Mich., assignor to Office Equipment Patents Corporation, New York, N. Y. Sheet or card holder. 1,661,519; Mar. 6.
Wiley, William, Galveston, Tex. Tire heater. 1,661,984; Mar. 6.
Wilhelm, Fred C., Minneapolis, Minn. Laundry machine. 1,661,646; Mar. 6.
Wilkes, Frederic, Wilkinsburg, Pa. Method of and apparatus for separating oil from water. 1,661,453; Mar. 6.
Williams, Frank E., assignor to Polar Electric Refrigerator Corporation, St. Louis, Mo. Refrigerating apparatus. 1,661,452; Mar. 6.
Williams, Harry M., assignor to General Motors Research Corporation, Dayton, Ohio. Bearing composition. 1,661,245; Mar. 6.
Williams, Ki. (See Monroe, K. P., and Williams.)
Wilsdorf, Hans. (See Perret, Georges, assignor.)
Wilson, Carl, Chillicothe, Ohio. Cultivator attachment. 1,661,985; Mar. 6.
Wilson, Ellis L., San Anselmo, Calif. Adjustable lock. 1,661,454; Mar. 6.
Wine Railway Appliance Company. (See Wine, William E., assignor.)
Wine, William E., assignor to Wine Railway Appliance Company, Toledo, Ohio. Freight car. 1,661,863; Mar. 6.
Winninghoff, Wilford J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Anode spacer. 1,661,589; Mar. 6.
Winston, Charles A. (See Oberbeck, Joseph W., assignor.)
Wirebounds Patents Company. (See Ludlow, Edward H., assignor.)
Wisdom, Clarence N., et al. (See Keefer, Sylvester A., assignor.)
Wishart, William, Clinton, Iowa, assignor to National Refrigeration Corporation, Beloit, Wis. Fluid compressor. 1,661,399; Mar. 6.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,661,743; Mar. 6.
Witzel, Earl R., assignor to Kohler Company, Kohler, Wis. Battery cradle for electric trucks. 1,661,779; Mar. 6.
Wolf, Otto R., River Forest, assignor to The Tribune Company, Chicago, Ill. Printing press. 1,661,209; Mar. 6.
Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Transition car coupling. 1,661,246; Mar. 6.
Wood, Harrie P., Leonia, N. J. Wrapper-pasting device. 1,661,210; Mar. 6.
Woods, Leonard, St. Louis, Mo. Garment supporter. 1,661,590; Mar. 6.
Worms, Jean P. (See Escalch, A., and Worms.)
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Mast-elevating mechanism for portable pulling machines. 1,661,591; Mar. 6.
Wright, Kirk K., Buffalo, N. Y. Motor support for bottle-washing machines. 1,661,592; Mar. 6.
Wullum, Gerhard, Chicago, Ill. Cuff button. 1,661,520; Mar. 6.
Wurst, Walter, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Method and arrangement for transferring signals between moving vehicles and roadbeds. 1,661,744; Mar. 6.
Wussow, Reinhard, Charlottenburg, near Berlin, Germany. Dry cooling of coke. 1,661,211; Mar. 6.
Wyman-Gordan Company. (See Oldson, John A., assignor.)
Yehle, William E., New York, N. Y. Water bag. 1,661,400; Mar. 6.
Yetter, Aaron E., Knoxville, Iowa. Pump. 1,661,986; Mar. 6.
Young, Willis G., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,661,352; Mar. 6.
Zabel, Charles, Coraopolis, assignor, by mesne assignments, to McDowell Manufacturing Company, Millvale, Pa. Mechanical toy or amusement device. 1,661,864; Mar. 6.
Zabel, Charles, Coraopolis, assignor to McDowell Manufacturing Company, Millvale, Pa. Mechanical racing toy. 1,661,865; Mar. 6.
Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Apparatus for cutting wire into lengths. 1,661,866; Mar. 6.
Zallas, James, Detroit, Mich. Vehicle radiator cover. Des. 74,641; Mar. 6.
Zeiss, Firm Carl. (See Wandersleb, Ernst, assignor.)
Zepf, William G., assignor to Whitehurst Printing and Binding Company, Troy, N. Y. Gumming machine. 1,661,353; Mar. 6.
Zimmerer, Frederick J., jr., assignor to The Russell Manufacturing Company, Middletown, Conn. Elastic garter webbing. Des. 74,640; Mar. 6.
Zimmerman, Henry A., assignor of one-half to M. M. Wall, Logansport, Ind. High-pressure grease gun. 1,661,521; Mar. 6.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abdominal band. M. A. Fontaine. 1,661,720; Mar. 6.
Abrasive composition. H. R. Power. 1,661,849; Mar. 6.
Accelerator. S. A. Keefer. 1,661,371; Mar. 6.
Acoustic diaphragm and loud-speaker combination. N. Baldwin. 1,661,523; Mar. 6.
Acoustical apparatus. H. Fletcher. 1,661,751; Mar. 6.
Adding machine. A. Ekman. 1,661,605; Mar. 6.
Adjustable lock. E. L. Wilson. 1,661,454; Mar. 6.
Aerial mast or support. C. L. Dietrich. 1,661,930; Mar. 6.
Air brake. C. P. Farrell. 1,661,933; Mar. 6.
Air brake. W. R. Howdon. 1,661,947; Mar. 6.
Air cooler. J. F. Baumgardner. 1,661,160; Mar. 6.
Air compressor. C. Overdorff and J. Juhasz. 1,661,958; Mar. 6.
Aircraft. D. Doncheff. 1,661,327; Mar. 6.
Aircraft, Lighter-than-air. B. N. Wallis and C. D. Burney. 1,661,206; Mar. 6.
Air-hose-coupling safety device. J. L. Shultz. 1,661,635; Mar. 6.
Air-service equipment. T. M. Manson. 1,661,186; Mar. 6.
Airships, Hull structure for rigid. K. Arnstein. 1,662,021; Mar. 6.
Air washer and carburetor. H. McCornack. 1,661,540; Mar. 6.
Alloy and making the same, Steel. E. Pakulla. 1,661,907; Mar. 6.
Aluminum and producing the same, Nonseizing article of. C. S. Taylor. 1,661,448; Mar. 6.
Aluminum compounds, Making. G. Muth. 1,661,618; Mar. 6.
Ammonium-nitrate solutions, Rapid evaporation to dryness of. C. Toniolo. 1,661,203; Mar. 6.
Animal trap. J. Krč. 1,661,950; Mar. 6.
Anode spacer. W. J. Winninghoff. 1,661,589; Mar. 6.
Antenna. V. J. Redmond. 1,661,771; Mar. 6.
Antiskid device. S. Quisling. 1,661,910; Mar. 6.
Approach-indication apparatus. L. E. Spray. 1,661,639; Mar. 6.
Aquatic device. E. Proteau. 1,661,499; Mar. 6.
Arctic applier and remover. C. R. Wagner and C. E. Rubottom. 1,661,205; Mar. 6.
Armature-assembling apparatus. G. W. Elsey. 1,661,363; Mar. 6.
Armature-assembling apparatus. L. E. Poole. 1,661,344; Mar. 6.
Armature-core laminæ, Apparatus for aligning. W. E. Pabst. 1,661,842; Mar. 6.
Armature core with a flexible strip, Method and machine for lining an. R. W. Baker. 1,661,355; Mar. 6.
Armatures, Apparatus for winding. A. B. Gomory. 1,661,331; Mar. 6.
Armatures, Manufacture of. A. B. Gomory. 1,661,332; Mar. 6.
Arsenic compounds, Manufacture of new organic. J. Pfleger and A. Albert. 1,661,301; Mar. 6.
Arsenic compounds, Preparation of heterocyclic. A. Binz and C. Räth. 1,661,871; Mar. 6.
Ash hopper. F. H. Dunbar. 1,661,750; Mar. 6.
Ash tray and butt extinguisher, Combined. J. F. Thiessen. Des. 74,638; Mar. 6.
Automobile body. A. Bizzarri. Des. 74,594; Mar. 6.
Automobile jack. C. J. Parr. 1,661,444; Mar. 6.
Automobile jack. S. W. Phillips. 1,661,575; Mar. 6.
Automobiles, Cowl light for. C. A. Smith. 1,661,975; Mar. 6.
Automobiles, Emergency device for. E. E. Vecchi. 1,661,641; Mar. 6.
Axle construction. B. H. Britt. 1,661,815; Mar. 6.
Baby walker. P. Crosley, jr. 1,661,411; Mar. 6.
Badge. C. J. Dieges. 1,662,001; Mar. 6.
Badge. F. C. W. Parker. Des. 74,622; Mar. 6.
Bag: *See*—
Garment bag. Water bag.
Baked fruits and vegetables, Packing. G. O. Sanborn. 1,662,044; Mar. 6.
Barrel agitator. F. H. Haywood. 1,661,255; Mar. 6.
Baseball novelty. L. Inness. 1,661,948; Mar. 6.
Bathing garment. N. Jenkins. 1,661,725; Mar. 6.
Battery: *See*—
Galvanic battery.
Battery charge indicator, Storage-. T. J. Strouse. 1,661,776; Mar. 6.
Battery terminal. G. D. Pate. 1,661,497; Mar. 6.
Battery terminal clamp, Storage-. E. F. Leighton. 1,661,376; Mar. 6.
Battery tester. J. Taylor. 1,661,913; Mar. 6.
Bead holder. W. I. Noble. 1,661,382; Mar. 6.
Bead-setting mechanism. R. E. Jenkinson. 1,662,004; Mar. 6.
Bearing, Antifriction. J. F. O'Connor. 1,661,335; Mar. 6.
Bearing composition. H. M. Williams. 1,661,245; Mar. 6.
Bed, Automobile. L. A. Scholl. 1,661,580; Mar. 6.
Bed, Folding. E. Cocks. 1,661,876; Mar. 6.
Bedpan washer. G. F. Hall. 1,661,221; Mar. 6.
Belt. M. F. Fersti. 1,661,936; Mar. 6.
Bending pipe or the like, Device for. J. H. Carey. 1,661,919; Mar. 6.
Bicycle carriage. E. Kirch. 1,661,257; Mar. 6.
Billiard-cue tip. J. A. Ruziska and D. L. Tapp. 1,661,966; Mar. 6.
Binder, Loose-leaf. P. Baumer. 1,661,524; Mar. 6.
Biological stains, bacteriocidal agents and the like, and preparing the same. R. W. French and W. C. Holmes. 1,661,568; Mar. 6.
Bit: *See*—
Rotary bit.
Block: *See*—
Building block. Paving block.
Blotter, Roller. A. Hadi. 1,661,475; Mar. 6.
Board: *See*—
Moldboard.
Board making, Apparatus for pulp-. H. T. Price. 1,661,678; Mar. 6.
Boat, Sectional. A. W. Trinler. 1,661,814; Mar. 6.
Bobbin-stripper trap. J. J. Henderson and H. C. Deering. 1,661,724; Mar. 6.
Body-forming machine. P. H. Lange. 1,661,569; Mar. 6.
Bolt for use in conjunction with existing door locks. A. J. Tozer. 1,661,584; Mar. 6.
Book-casing-in machine. J. J. Burke. 1,661,596; Mar. 6.
Boots or shoes, Making. A. J. Brauer, F. P. Wagner, and W. S. Overton. 1,661,321; Mar. 6.
Bottle. P. A. Ginter. Des. 74,601; Mar. 6.
Bottle. L. Halk. Des. 74,602; Mar. 6.
Bottle-cap remover. W. Waskewicz. 1,661,981; Mar. 6.
Bottle-capping machine. L. A. Arnstein. 1,661,401; Mar. 6.
Bottle or similar container. G. Matchabelli. Des. 74,618; Mar. 6.
Bottle-washing machines, Motor support for. K. K. Wright. 1,661,592; Mar. 6.
Bowl, Closet. J. B. Coxon. Des. 74,595–6; Mar. 6.
Bowl or similar article. H. Hebbard. Des. 74,604; Mar. 6.
Bowl, Sugar. K. P. Beattie. Des. 74,589; Mar. 6.
Box: *See*—
Gear box. Shipping box.
Box or receptacle for holding small articles. W. D. La Rue. 1,661,728; Mar. 6.
Boxes, Sealing means and method for wire-bound. E. H. Ludlow. 1,662,011; Mar. 6.
Bracket: *See*—
Cable-support bracket.
Bracket back. T. Shapiro. Des. 74,634–6; Mar. 6.
Brake: *See*—
Air brake. Hydraulic brake.
Fluid-pressure brake. Servo-brake.
Brake-adjusting mechanism, Automatic. G. Midboe. 1,661,191; Mar. 6.
Brake-applying means. R. S. Sanford. 1,661,772; Mar. 6.
Brake-band let-off. E. Cormier. 1,661,925; Mar. 6.
Brake device. H. Pieper. 1,661,625; Mar. 6.
Brake drum. J. Fejes. 1,661,218; Mar. 6.
Brake hanger. J. S. McPherson. 1,661,228; Mar. 6.
Brake mechanism. H. A. Flegaus. 1,661,420; Mar. 6.
Brake mechanism. H. Pieper. 1,661,621; Mar. 6.
Brake release, Air-. J. S. McWhirter. 1,661,730; Mar. 6.
Brick. H. O. W. Howcott. 1,661,946; Mar. 6.
Brush. E. L. H. Cosby. 1,661,926; Mar. 6.
Brush, Collapsible-tube. R. G. Evans. 1,661,607; Mar. 6.
Brush machines, Tuft-deflecting device for. A. Mertes. 1,661,438; Mar. 6.
Buffer mechanism. W. Hamilton. 1,661,177; Mar. 6.
Building block. J. T. Sentrop. 1,661,739; Mar. 6.
Bulb rectifier. E. H. Rollinson. 1,661,579; Mar. 6.
Bumper, Automobile. E. P. Bullard, jr. 1,661,786; Mar. 6.
Bun and bread rounder. F. Streich. 1,661,775; Mar. 6.
Burglar protection. H. Frank. 1,661,752; Mar. 6.

Burner: *See*—
Gas burner. Oil burner.
Burning powdered coal. W. B. Chapman. 1,661,408; Mar 6.
Button, Cuff. G. Wullum. 1,661,520; Mar. 6.
Cabinet, Paper-towel. N. Bolvin. 1,661,357; Mar. 6.
Cabinet, Typewriter. B. C. Stickney. 1,661,392; Mar. 6.
Cable reel. H. Bénit. 1,661,991; Mar. 6.
Cable-support bracket. A. J. and T. T. Tachida. 1,661,398; Mar. 6.
Calculating machine. U. G. Robinson. 1,661,234; Mar. 6.
Calendar, Combination desk. N. S. Hillyard. 1,661,288; Mar 6.
Calendar pads and the like, Binding post for. W. T. Sullivan. 1,661,315; Mar. 6.
Call selector. L. L. Chauveau. 1,661,748; Mar. 6.
Camera, Aerial. S. M. Fairchild. 1,661,364; Mar. 6.
Camera casing. A. F. Victor. Des. 74,639; Mar. 6.
Camera for color photography. A. Hamburger and H. E. Coston. 1,661,611; Mar. 6.
Can opener. N. Garrison. 1,661,797; Mar. 6.
Candy box. M. Savage. Des. 74,630; Mar. 6.
Canteen box. R. Kleninger. Des. 74,609; Mar. 6.
Capsule or contniner for gases or liquids under pressure. R. H. Campbell. 1,661,997; Mar. 6.
Car coupler. E. D. Church. 1,661,465; Mar. 6.
Car coupling, Transition. H. H. Wolfe. 1,661,246; Mar. 6.
Car, Freight. W. E. Wine. 1,661,863; Mar. 6.
Car, Hopper. I. Everett and W. I. Cantley. 1,661,418; Mar. 6.
Car, Motor. J. L. Connors. 1,661,409; Mar. 6.
Car, Railway. A. Christianson. 1,661,717; Mar. 6.
Carbon, Bonding activated. A. P. Ray. Re 16,896; Mar. 6.
Carburetors, Air-control device for. J. B. Hayes, jr. 1,661,943; Mar. 6.
Carburizing apparatus. C. I. Ipsen. 1,661,831; Mar. 6.
Cargo vessel. C. Ritson. 1,661,855; Mar. 6.
Carrier: *See*—
Stamp carrier. Ticket carrier.
Carton, Garment. B. H. Lengsfield. 1,661,484; Mar. 6.
Case: *See*—
Cigarette case. Egg case.
Case and package for cigarettes, Combintion. J. B. Kaval. 1,661,803; Mar. 6.
Casts, Making. E. Hess. 1,661,423; Mar. 6.
Catalytic apparatus. E. T. Hessle and W. Leigemnn. 1,661,827; Mar 6.
Catheter. L. A. Nielsen. 1,661,494; Mar. 6.
Celluloid tubes, Method of and apparatus for making. J. N. Whitehouse. 1,661,451; Mar. 6.
Cellulosic material, Treating. F. C. Niederhauser and H. B. Kline. 1,661,493; Mar. 6.
Cellulosic materials, Treating. F. C. Niederhauser and H. B. Kline. 1,661,574; Mar. 6
Cellulosic materials, Treatment of. D. de Göncz. 1,661,879; Mar. 6.
Cement-block rammer. H. E. Dunn. 1,661,414; Mar. 6.
Cement mixers, Loader for. C. J. Westling. 1,661,244; Mar. 6.
Centrifuge. L. Altpeter. 1,661,782; Mar. 6.
Chain. C. Augenstein and R. Vogel. 1,661,869; Mar. 6.
Chain drive, Variable. R. Wichtendahl. 1,662,037; Mar. 6.
Chair: *See*—
Foldable chair.
Channeler. H. H. Mercer. 1,661,630; Mar. 6.
Charge-forming device. R. K. Lee. 1,662,040; Mar. 6.
Chassis-lubrication-control device. G. A. Jamerson. 1,661,663; Mar. 6.
Check. A. B. Robinson. 1,661,961; Mar. 6.
Check writer. W. B. Payne. 1,661,384; Mar. 6.
Cheese, Manufacture of soft. A. C. Dahlberg. 1,661,601; Mar. 6.
Chest having removable liner and trays. R. A. Lindsey. 1,661,185; Mar. 6.
Chuck for extension bits. T. J. Fegley and G. O. Leopold. 1,661,935; Mar. 6.
Chuck mechanism. E. G. Gartin. 1,661,656; Mar. 6.
Cigar and cigarette holder. G. Hilsbansky. 1,661,895; Mar. 6.
Cigar cutter. W. H. Legate. 1,662,009; Mar. 6.
Cigarette case. M. Gold, A. F. Most, and J. Fogel. 1,662,028; Mar. 6.
Cinder-notch stopper. E. E. Brosius. 1,661,745; Mar. 6.
Cinematographic apparatus. J. A. Ball, E. A. Gallison, and E. A. Weaver. 1,661,157; Mar. 6.
Circuit, Apparatus for effecting energization control of an electric. E. R. Stoekle. 1,661,740; Mar 6.
Clamp: *See*—
Battery terminal clamp. Conduit-cover clamp.
Conductor clamp.
Clamp. S. F. Purliant. 1,661,576; Mar. 6.
Clamping device. J. A. Armstrong and G. O. Benson. 1,661,868; Mar. 6.
Classifying apparatus. A. M. Stokee. 1,661,858; Mar. 6.
Cleaner: *See*—
Pipe cleaner. Window cleaner.
Suction cleaner.
Cleaning composition, Oil-well. F. D. Sullivan. 1,661,512; Mar. 6.
Cleaning machine, Surface. W. L. Keefer. 1,661,480; Mar. 6.
Cleaning the fire tubes of multitubular boilers and the like, Apparatus for. C. B. Gardner. 1,661,890; Mar. 6.
Clip for tire chains. B. A. Small. 1,661,707; Mar. 6.
Clock, Electric. C. E. Prince. 1,661,909; Mar. 6.
Clutch. J. C. England. 1,661,172; Mar. 6.
Clutch, Reversible. W. A. Cook. 1,661,467; Mar. 6.
Coal cutter and loader. C. B. Officer. 1,661,628; Mar. 6.
Coating apparatus. T. Birkenmaier. 1,662,042; Mar. 6.
Coating metals. W. H. Legate. 1,662,008; Mar. 6.
Cock. R. A. Lincoln. 1,661,432; Mar. 6.
Cock, Cylinder. A. Abbamonte. 1,661,915; Mar. 6.
Cock, Gauge. J. C. Shaffer. 1,661,973; Mar. 6.
Coffee, Apparatus for treating. H. C. Gamble. 1,661,796; Mar. 6.
Coke, Dry cooling of. R. Wussow. 1,661,211; Mar. 6.
Cold-air connection. E. Gullion. 1,661,660; Mar. 6.
Color projector, Mobile. L. A. Jones. 1,661,757; Mar. 6.
Comb: *See*—
Liquid-treatment comb.
Combination lock. D. Roberti. 1,661,680; Mar. 6.
Composition for tree treatment. H. and J. Renner. 1,661,577; Mar. 6.
Compositions or preparations with cellulose derivatives, Manufacture of. H. Dreyfus. 1,661,169; Mar. 6.
Compressor. H. A. Greenwald. 1,661,661; Mar. 6.
Compressor. T. J. Litle, jr. 1,661,433; Mar. 6.
Computing machine. L. Thomas. 1,661,277; Mar. 6.
Condensing apparatus. H. M. Olbricht. 1,661,265; Mar. 6.
Conductor clamp. E. F. Leighton. 1,661,375; Mar. 6.
Conduit-cover clamp. J. Manneschmidt, jr. 1,661,840; Mar. 6.
Confection-coating machine. A. L. Bausman. 1,661,460; Mar. 6.
Container and method of sealing. J. M. Driver. 1,661,884; Mar. 6.
Container, Antifreeze. W. W. Ayre. 1,661,354; Mar. 6.
Container cover. H. A. Selah. 1,661,199; Mar. 6.
Container, Dispensing. J. B. Ohlson. 1,661,441; Mar. 6.
Control mechanism. E. H. Van Valkenberg. 1,661,586; Mar. 6.
Cooler: *See*—
Air cooler.
Core drill. C. J. Hillman. 1,661,426; Mar. 6.
Corpse-supporting rest. A. N. Lutz. 1,661,377; Mar. 6.
Corset, Apparel. W. Kops. 1,661,761; Mar. 6.
Coupler yoke. G. T. Johnson. 1,661,223; Mar. 6.
Coupling: *See*—
Car coupling. Shaft coupling.
Flexible coupling.
Coupling and bearing, Combined. J. J. Keyser. 1,661,256; Mar. 6.
Coupling link. W. M. McCullar. 1,661,487; Mar. 6.
Crank shaft. H. Junkers. 1,661,181; Mar. 6.
Crank shaft, Six-throw four-bearing balance. J. A. Oldson. 1,661,341; Mar. 6.
Crate, Collapsible. C. Flagstad. 1,661,419; Mar. 6.
Crate, Egg. B. A. Lange. 1,661,704; Mar. 6.
Cravats or necktics, Container for. J. J. A. Heymen. 1,662,039; Mar; 6.
Crib. F. F. Morrison. 1,661,230; Mar. 6.
Crib, Baby. P. Arnao. Des. 74,587; Mar. 6.
Crosshead gib, Self-oiling S. W. Crawford. 1,661,790; Mar. 6.
Cultivator attachment. C. Wilson. 1,661,985; Mar. 6.
Cultivator, Subsoil. C. I. Roberts and B. F. Collier. 1,661,305; Mar. 6.
Cup dispenser. C. Barbieri. 1,661,455; Mar. 6.
Curler, Hair. F. Capdevila. 1,661,747; Mar. 6.
Current magnet, Alternating. C. H. Rippl. 1,661,345; Mar. 6.
Cutter: *See*—
Cigar cutter. Rotary cutter.
Ice-cream-brick cutter. Tile cutter.
Revoluble cutter. Vegetable cutter.
Cutting device. T. G. Paddack. 1,661,619; Mar. 6.
Decoding apparatus. A. J. Sorensen. 1,661,637, Mar. 6.
Decoration, ornamentation, or painting. H. C. Mitchell. 1,661,573; Mar. 6.
Dental device. H. E. Barker. 1,661,713; Mar. 6.
Deodorizing device. E. J. Reefer. 1,661,547; Mar. 6.
Dextrose from starch, Manufacturing. W. B. Newkirk. 1,661,298; Mar. 6.
Die. C. A. Messmer, jr. 1,661,807–8; Mar. 6.
Dining and billiard table, Convertible. T. W. Ruse and E. A. Cox. 1,661,965; Mar. 6.
Discharge tube, Helium space. F. S. McCullough. 1,661,436; Mar. 6.
Dish. K. P. Beattie. Des. 74,588; Mar. 6.
Dish-forming machine. C. Barbieri. 1,661,248; Mar. 6.
Dispensing device. L. W. Peck. 1,661,498; Mar. 6.
Display rack. J. H. Burdett. 1,661,406; Mar. 6.
Display rack. S. L. Weaver. 1,661,207; Mar. 6.
Display stand. W. F. Price. 1,661,304; Mar. 6.
Distance responsive controller. T. H. Phillips, jr. 1,661,677; Mar. 6.
Dithiazyl disulphide, Preparing. C. M. Carson. 1,661,998; Mar. 6.
Doll and playpen. H. V. Eckardt. 1,661,288; Mar. 6.
Door and mirror support, Combined. D. A. Martens. 1,661,899; Mar. 6.
Doorcheck. E. C. Schobert and F. G. Morrison. 1,661,706; Mar. 6.

Door check and holder. A. F. Braff and F. Ottoson. 1,661,164; Mar. 6.
Door-closing mechanism. O. P. Smith. 1,661,273; Mar. 6.
Door closure. G. F. Banta. 1,661,554; Mar. 6.
Door, Grain-car. H. C. Tordsen. 1,661,514; Mar. 6.
Door handle. R. S. Roberts. Des. 74,624; Mar. 6.
Door hanger, Cabinet. M. Victorsohn. 1,662,048; Mar. 6.
Door mechanism. R. M. Edwards and J. P. Poschen. 1,661,719; Mar. 6.
Door opening and closing device. C. B. Bates. 1,661,648; Mar. 6.
Door signal. G. S. Best. Des. 74,593; Mar. 6.
Doorstop. F. C. Trimbach. 1,661,240; Mar. 6.
Double-throw switch. H. J. L. Frank. 1,661,795; Mar. 6.
Douche and syringe. F. Drosselmeyer. 1,661,563; Mar. 6.
Draft mechanism. A. Allen. 1,661,317; Mar. 6.
Dress. G. Tancill. Des. 74,637; Mar. 6.
Drier. C. E. Fuller. 1,661,655; Mar. 6.
Drill: *See*—
Core drill.
Drill support. J. Nagy. 1,661,956; Mar. 6.
Drilling, Apparatus for hydraulic. E. H. Morrison. 1,661,672; Mar. 6.
Drilling brush backs longitudinally, Device for. A. Mertes. 1,661,700; Mar. 6.
Drilling machine, Rotary. E. E. Greve. 1,661,285; Mar. 6.
Drilling mechanism, Multiple. C. Jobst. 1,661,179; Mar. 6.
Driving mechanism for producing gyratory motion of a suspended body. B. Neal and G. H. Hebebrand. 1,661,673; Mar. 6.
Dry cell. W. F. Hendry. 1,661,945; Mar. 6.
Drying laundry, Apparatus for. P. F. Apfel. 1,661,551; Mar. 6.
Dyeing process. A. Escaich and J. P. Worms. 1,661,606; Mar. 6.
Edging, Embroidered. H. Schwarber. Des. 74,631; Mar. 6.
Egg case, Folding. G. L. Beougher. 1,661,161; Mar. 6.
Elastic garter webbing. F. J. Zimmerer, jr. Des. 74,640; Mar. 6.
Electric driving system. J. Drukker. 1,661,170; Mar. 6.
Electric furnace. C. B. Foley. 1,661,173; Mar. 6.
Electric furnace. J. L. McFarland. 1,661,842; Mar. 6.
Electric heater. S. M. and J. H. Carmean. 1,661,282; Mar. 6.
Electric heater. W. C. Hunt. 1,661,222; Mar. 6.
Electric heater. F. H. McCormick. Des. 74,619; Mar. 6.
Electric heater. W. N. Vanatta. 1,661,862; Mar. 6.
Electric shielding. A. Haddock. 1,661,535; Mar. 6.
Electric switch. W. G. Young. 1,661,352; Mar. 6.
Electric switch and system. A. R. Locke. 1,661,434; Mar. 6.
Electrical appliance. P. Van Wagner. 1,661,712; Mar. 6.
Electrical condenser. H. R. Van Deventer. 1,661,351; Mar. 6.
Electrical system. D. C. Prince. 1,661,850; Mar. 6.
Electrical vibrating unit, Dynamo-. T. H. Howells. 1,661,829; Mar. 6.
Electrical windings, Treating. H. Miller. 1,661,844; Mar. 6.
Electrically-heated device. F. H. McCormick. 1,662,031; Mar. 6.
Electrolytic rectifier. C. E. Ogden. 1,661,703; Mar. 6.
Electrode rack. H. G. Price and B. K. Smith. 1,661,303; Mar. 6.
Electromagnetic apparatus. P. N. Bossart. 1,661,651; Mar. 6.
Electron-discharge device. A. W. Hull. 1,661,830; Mar. 6.
Electron-tube circuits. J. L. Ludlow. 1,661,698; Mar. 6.
Electronic emission devices, Treating. M. D. Sarbey. 1,661,235; Mar. 6.
End control. Double-. S. J. Strid. 1,661,276; Mar. 6.
Engine: *See*—
Internal-combustion engine. Steam engine.
Piston engine. Traction engine.
Engine starter. F. C. Kroeger. 1,661,372; Mar. 6.
Engine-starting apparatus. G. W. Elsey. 1,661,362; Mar. 6.
Engines, Driving mechanism for the fans of Ford and like. R. M. Cribbes. 1,661,600; Mar. 6.
Engines, Oil cleaner for internal-combustion. R. O. Hendrickson. 1,661,825; Mar. 6.
Engines, Valve mechanism for steam. J. C. Bird. 1,661,154; Mar. 6.
Envelope-feeding apparatus. L. Ciccone. 1,661,816; Mar. 6.
Envelope opener. C. C. Gruhler. 1,661,423; Mar. 6.
Extractor: *See*—
Juice extractor.
Extrusion press. A. Born. 1,661,594; Mar. 6.
Fabric and making it, Laminated. D. de Göncz and A. S. Jones. 1,661,880; Mar. 6.
Fabrics, Treatment of cellulosic. D. de Göncz and A. S. Jones. 1,661,881; Mar. 6.
Fans and the like, Blade for propellers, ventilating. A. Cerfvol. 1,661,921; Mar. 6.
Fastener. R. E. Frey. 1,661,251; Mar. 6.
Fastener. A. L. Knapp. 1,661,587; Mar. 6.
Fastener-conducting mechanism. E. R. Pope. 1,661,302; Mar. 6.
Fastener, End-gate. N. G. Morgan. 1,661,259; Mar. 6.
Fastener or clip, Paper. J. N. Cameron. 1,661,165; Mar. 6.
Fastener, Press-button. E. Nerzinger. 1,661,616; Mar. 6.
Fastening device. D. I. Reiter. 1,661,911; Mar. 6.
Feeder for brenkers. F. Pardee. 1,661,732; Mar. 6.
Fence post, Metallic. J. W. Dunlap. 1,661,528; Mar. 6.
Fertilizer, distributor, and side dresser, Combined. A. W. Leet. 1,661,430; Mar. 6.
Fiber-treating machines, Grid bar for. M. Wehli. 1,661,518; Mar. 6.
Fibrous material, Apparatus for cleaning. T. C. Hazard. 1,662,080; Mar. 6.
Filter, Nutsch. J. E. Jewett. 1,661,290; Mar. 6.
Fire-alarm signaling mechanism and the like, Case for. F. B. Love and B. H. Smith. 1,661,258; Mar. 6.
Firearm. J. E. Brennan and C. C. Loomis. 1,662,025; Mar 6.
Fire-pot construction. O. J. Groehn. 1,661,820; Mar. 6.
Flexible coupling. E. G. Kimmich. 1,662,006; Mar. 6.
Floor scrubber, Electric. C. Deptula. 1,661,412; Mar. 6.
Floor-treating machine. E. Sproston. 1,661,510; Mar. 6.
Flue dust, Treating. K. M. Simpson. 1,661,636; Mar. 6.
Fluid compressor. W. Wishart. 1,661,399; Mar. 6.
Fluid-pressure brake. G. Macloskie. 1,661,839; Mar. 6.
Fluid-pressure device. B. A. Linderman. 1,661,295; Mar. 6.
Fluid receptacles, Detachable spout for. F. M. Owen. 1,662,043; Mar. 6.
Flour-treating process. F. L. Dunlap. 1,661,250; Mar. 6.
Foldable chair. G. W. Fischer and W. F. Sund. 1,661,937; Mar. 6.
Folding. C. K. MacDonald. 1,661,572; Mar. 6.
Folding leather. C. K. MacDonald. 1,661,571; Mar. 6.
Fork: *See*—
Meat-seasoning fork.
Frame: *See*—
Side frame.
Fruit-press support. C. R. Hitz. 1,661,802; Mar. 6.
Fruit-sizing machine. J. V. Rogers. 1,661,503; Mar. 6.
Fuel-burning system. L. R. Van Sant. 1,661,450; Mar. 6.
Fuel reserve device. E. L. Grauel. 1,661,608; Mar. 6.
Furnace: *See*—
Electric furnace.
Reducing and smelting furnace.
Furnace adapted for healing by nitrogenization, Electric resistance. A. Fry. 1,661,694; Mar. 6.
Furnace lining, Making. G. P. Suppes. 1,661,859; Mar. 6.
Galvanic battery, Primary. E. W. Jungner. 1,661,224; Mar. 6.
Game. S. A. Helfgott. 1,661,723; Mar. 6.
Game. A. P. Richardson. 1,661,197; Mar. 6.
Game. H. A. Vaughan. 1,661,711; Mar. 6.
Game apparatus. S. E. Edwards. 1,661,885; Mar. 6.
Game, Basket-ball. S. Destefano. 1,661,216; Mar. 6.
Game device. E. F. Gale. 1,661,329; Mar. 6.
Garage or barn door lock. W. Wanat. 1,661,982; Mar. 6.
Gardening implement. E. S. Leonardos. 1,661,729; Mar. 6.
Garment. S. S. Chesnin. 1,661,922; Mar. 6.
Garment bag. D. Warren. 1,661,644–5; Mar. 6.
Garment, Sanitary. F. G. Mark. 1,661,952; Mar. 6.
Garment supporter. L. Woods. 1,661,590; Mar. 6.
Gas-analyzing apparatus. O. Rodhe. 1,661,627; Mar. 6.
Gas burner, Blow-blast. N. V. Deemar. 1,661,920; Mar. 6.
Gas-control apparatus. R. Fricke. 1,661,252; Mar. 6.
Gas-flow control, Blowpipe. A. J. Eason. 1,661,691; Mar. 6.
Gasket. J. C. Cromwell. 1,661,878; Mar. 6.
Gasoline, Apparatus for purifying. J. P. Johnson. 1,661,478; Mar. 6.
Gauge: *See*—
Liquid gauge. Thickness gauge.
Plaster gauge. Thread gauge.
Setting gauge. Water gauge.
Gauge. B. M. W. Hanson. 1,661,722; Mar. 6.
Gauge wheel for agricultural implements. S. W. Shaw. 1,661,237; Mar. 6.
Gear and making the same, Metallic. G. R. Brophy. 1,662,026; Mar. 6.
Gear box, Spiral. E. B. Ayres. 1,661,988; Mar. 6.
Gear-shifting mechanism. S. Hulmes. 1,661,612; Mar. 6.
Gear transmissions, Automatic preselector and shifting device for sliding-. J. Blackburn. 1,661,992; Mar. 6.
Gearing, Change-speed. M. B. Jackson. 1,661,613; Mar. 6.
Generating plant, Large automatic. E. R. Witzel. 1,661,208; Mar. 6.
Generating radium water, Apparatus for. A. de Clairmont. 1,661,604; Mar. 6.
Generator: *See*—
Steam generator.
Glass-melting tank. K. G. Kutchka. 1,661,836; Mar. 6.

Glass sheets, Apparatus for severing. T. and A. C. Oakes. 1,661,846; Mar. 6.
Glove. G. A. Kurz. 1,661,951; Mar. 6.
Glue spreader. H. G. Francis. 1,661,174; Mar. 6.
Golf-ball-winding machine. J. P. Griggs. 1,661,893; Mar. 6.
Golf-ball-winding machines, Control mechanism for. E. G. Templeton. 1,661,860; Mar. 6.
Golf-club press. W. F. Reach. 1,661,500; Mar. 6.
Governor and water circulator. M. J. Mohler. 1,661,903; Mar. 6.
Grading ground coffee, Machine for. A. Peron. 1,661,299; Mar. 6.
Grading machine. J. D. Grabill. 1,661,657; Mar. 6.
Grave marker and flower holder, Combination. E. H. Cooley. 1,661,361; Mar. 6.
Grease gun, High-pressure. H. A. Zimmerman. 1,661,521; Mar. 6.
Grinding and finishing machine. C. T. Rottler. 1,661,505; Mar. 6.
Grinding and polishing of glass in the form of strips or plates, Apparatus for the continuous. R. F. Taylor. 1,661,914; Mar. 6.
Grinding machine. W. J. Baumberger. 1,662,023; Mar. 6.
Grinding machine. E. B. and R. D. Gardner and J. Nielsen. 1,661,330; Mar. 6.
Grinding-mill rod. W. B. Floyd. 1,661,567; Mar. 6.
Grinding or comminuting rubber and other materials, Apparatus for. C. E. Gardner. 1,661,721; Mar. 6.
Grinding pan. W. E. McMurray. 1,661,297; Mar. 6.
Grinding wheel and holder therefor. F. J. Tone. 1,661,861; Mar. 6.
Gumming machine. W. G. Zepf. 1,661,353; Mar. 6.
Hackling machine. T. Barbour. 1,661,212–13; Mar. 6.
Hanger: *See*—
Brake hanger. Safety hanger.
Door hanger.
Hardness-testing device. D. C. Davis. 1,661,718; Mar. 6.
Harvesting machine. J. N. Stovall. 1,661,976; Mar. 6.
Heat deflector. C. H. Miller. 1,661,769; Mar. 6.
Heater: *See*—
Electric heater. Water heater.
Tire heater.
Heater. T. G. Crane. 1,661,322; Mar. 6.
Heating-element support. W. Campbell. 1,661,464; Mar. 6.
Heating system for oil pipe lines, Electric. C. Setzefant. 1,661,683; Mar. 6.
Heating system, Hot-water. W. W. Hudson. 1,661,368; Mar. 6.
Heel-seat-fitting machine. W. C. Stewart. 1,661,391; Mar. 6.
Heel-turning machine, Wood. W. W. Bradbury. 1,661,320; Mar. 6.
Highway marker. J. R. Truxal. 1,661,242; Mar. 6.
Hoist. N. M. Rosendahl. 1,661,307; Mar. 6.
Hoist, Anchor. I. N. Stensland. 1,661,275; Mar. 6.
Hoisting jack. C. A. Dutro. 1,661,791; Mar. 6.
Holder for glasses. S. W. Farber. Des. 74,598–9; Mar. 6.
Hook: *See*—
Suspension hook.
Hot-tamale-forming machine. S. Allen. 1,661,916; Mar. 6.
Housing, Portable instrument. H. E. Kuhne. 1,661,482; Mar. 6.
Hub for propeller blades. M. C. Nixon. 1,661,631; Mar. 6.
Hub for propeller blades. M. C. Nixon. 1,661,633; Mar. 6.
Hydraulic brake. E. H. McKinney. 1,661,843; Mar. 6.
Hydrocarbons, Distillation of. H. R. Meacham. 1,661,189; Mar. 6.
Hydrocarbons into low-boiling hydrocarbons, Conversion of high-boiling. L. Edeleanu. 1,661,565; Mar. 6.
Ice-cream-brick cutter. A. F. Gantz. 1,661,533; Mar. 6.
Ice-cream dispenser. P. D. Pearce. 1,661,734; Mar. 6.
Ignition-spark tester R. M. Johnson. 1,661,664; Mar. 6.
Impeller. M. W. Green. 1,661,940; Mar. 6.
Incubator. L. De Vries. 1,661,413; Mar. 6.
Indicator: *See*—
Battery-charge indicator. Lubrication indicator.
Inductive reactor. J. McIntosh 1,661,953; Mar 6.
Injector or aspirator. H. V. Riehl. 1,661,960; Mar. 6.
Insulated-wire stripper. L. Johnson. 1,661,180; Mar. 6.
Insulator. K. A. Hawley. 1,661,823; Mar. 6.
Internal-combustion engine. A. P. Brush. Re16,894; Mar. 6.
Internal-combustion engine. E. R. Burtnett. 1,661,557–9; Mar. 6.
Internal-combustion engine. K. Elermann. 1,661,171; Mar. 6.
Internal-combustion engine. J. A. Rymer. 1,661,738; Mar. 6.
Internal-combustion engine. J. G. Vincent. 1,661,550; Mar. 6.
Internal-combustion engine, Rotary. A. J. Bodker. 1,661,593; Mar. 6.
Iodine, Powder adapted to liberate. K. Van Allen. 1,661,640; Mar. 6.
Jack: *See*—
Automobile jack. Lifting jack.
Hoisting jack. Vehicle jack.
Jars, Device for opening and closing fruit. A. R. Gurnett. 1,661,333; Mar. 6.
Joint for the members of bar structures. B. Buxbaum. 1,661,873; Mar. 6.
Journal box and axle. H. W. Sanford. 1,661,968; Mar. 6.
Journal-box lid. B. W. Kadel. 1,661,834; Mar. 6.
Journal-box-securing means. P. McCullough. 1,661,669; Mar. 6.
Juice extractor, Fruit. M. Baillie. 1,661,522; Mar. 6.
Juices from fruits, Device for expressing. J. S. Lacey. 1,661,374; Mar. 6.
Ketonic compounds, Production of aromatic. F. H. Kranz. 1,661,293; Mar. 6.
Keyboard mechanism. H. G. Neely. 1,661,443; Mar. 6.
Key-pulling device. H. A. Follingstad. 1,661,938; Mar. 6.
Knitting machine. H. Evans. 1,661,653; Mar. 6.
Knitting machines, Yarn-plating tensioning means for. J. Mair. 1,662,046; Mar. 6.
Lamp, Automobile trouble. W. E. Stevens and T. R. Seiple. 1,661,313; Mar. 6.
Lamp base or analogous article. P. Silberhautz. Des. 74,632; Mar. 6.
Lamp, Battery hand. J. H. Bruninga and E. P. Evers. 1,661,785; Mar. 6.
Lamp, Bridge. J. B. Salterini. Des. 74,627–9; Mar. 6.
Lamp, Electric. W. Dawson. 1,661,928; Mar. 6.
Lamp for automobiles, Combined signal and trouble. H. R. Sanders. 1,661,506; Mar. 6.
Lamp-making machine. F. W. Patterson. 1,662,045; Mar. 6.
Lamp, Signal. R. J. Gaskill. 1,661,421; Mar. 6.
Lamp, Water-cooled. L. J. Buttolph. 1,661,597; Mar. 6.
Latch, Door. T. F. Stuart and H. A. Moore. 1,661,548; Mar. 6.
Latch, Hood. C. B. Gilmore. 1,661,801; Mar. 6.
Latch, Sash. F. Pekar. 1,661,634; Mar. 6.
Lath, Metal. G. F. Voight. 1,661,642; Mar. 6.
Lathe attachment. Gear-rounding-off. S. Helfgott. 1,661,334; Mar. 6
Laundry machine. F. C. Wilhelm. 1,661,646; Mar. 6.
Lead, Making tetra-alkyl. K. P. Monroe. 1,661,809; Mar. 6.
Lead, Producing tetra-alkyl. K. P. Monroe and K. Williams. 1,661,810; Mar. 6.
Ledgers, Sheet-retaining post for loose-leaf. J. Schade. 1,661,811; Mar. 6.
Lens, Modified multifocal. J. P. Koch. 1,661,760; Mar. 6.
Leveling device. C. J. Borda. 1,661,993; Mar. 6.
License-plate light, Front-. C. Gittery, jr. 1,661,798; Mar. 6.
Lifeboat. L. Hill. 1,661,801; Mar. 6.
Lifting jack. T. C. Pomeroy. 1,661,705; Mar. 6.
Light: *See*—
License-plate light. Porch light.
Lighting fixture. F. S. Crowell. 1,661,999; Mar. 6.
Lighting fixture, Wall. A. Krause. Des. 74,610–11; Mar. 6.
Lighting fixtures or similar articles, Spindle for. H. R. Holdeman. Des. 74,607; Mar. 6.
Lighting fixtures or similar articles, Wall plate for. H. R. Holdeman. Des. 74,606; Mar. 6.
Linoleum and like materials, Apparatus for storing and displaying. H. Elliott. 1,661,932; Mar. 6.
Liquid-expressing apparatus. P. Kutschbach. 1,661,614; Mar. 6.
Liquid fuel to heating plants, Apparatus for supplying. J. E. and W. F. Erickson. 1,661,415; Mar. 6.
Liquid gauge. K. Brown. 1,661,995; Mar. 6.
Liquid-supply apparatus. W. A. Chryst and H. C. Walters. 1,661,359; Mar. 6.
Liquid-treating apparatus. H. H. Miller. 1,661,379; Mar. 6.
Liquid-treatment comb. J. Henige. 1,661,22[illegible]; Mar. 6.
Liquids, Apparatus for concentrating aqueous. P. J. de S. A. Meynardie. 1,661,489; Mar. 6.
Liquids, Separating. O. L. Barnebey. 1,661,403; Mar. 6.
Loading and supporting vehicle bodies in freight cars and the like, Method and apparatus for. C. L. Michod. 1,661,439; Mar. 6.
Loading automobile bodies in freight cars. R. E. Baus. 1,661,458–9; Mar. 6.
Loading block for assembling half bearings for machining. L. C. Blomstrom. 1,661,163; Mar. 6.
Lock: *See*—
Adjustable lock. Garage or barn door lock.
Combination lock.
Lock. F. J. Helmuth. 1,661,477; Mar. 6.
Lock or similar article. J. B. Russ. Des. 74,626; Mar. 6.
Locker. E. D. Kaser. 1,661,870; Mar. 6.
Locking device for casings. Safety. B. H. Smith. 1,661,272; Mar. 6.
Loom. J. Northrop. 1,661,339–40; Mar. 6.
Loom, Filling-replenishing. H. A. Davis. 1,662,000; Mar. 6.
Loom, Weft-replenishing. C. H. Draper. 1,661,328; Mar. 6.
Looms, Detector mechanism for. J. Northrop. 1,661,337; Mar. 6.
Looms, Shuttle-box tension-controlling mechanism for. J. Northrop. 1,661,338; Mar. 6.
Looms, Warp stop motion for. J. Northrop. 1,662,033; Mar. 6.

Loud speaker. U. H. McNeil and F. G. Pearce. 1,661,541; Mar. 6.
Lubricating apparatus. B. F. Hubbell. 1,661,755; Mar. 6.
Lubricating apparatus. H. J. Murphy. 1,661,905–6; Mar. 6.
Lubricating device. F. C. Davis. 1,661,749; Mar. 6.
Lubricating device for motors and the like. W. Larsen. 1,661,615; Mar. 6.
Lubricating system. C. A. Bacon. 1,662,022; Mar. 6.
Lubricating system. H. J. Murphy and M. F. Carr. 1,661,904; Mar. 6.
Lubrication indicator. M. Smithey. 1,661,312; Mar. 6.
Lubricator. J. J. Hennessy. 1,661,800; Mar. 6.
Luggage carrier and bumper. W. R. Malm. 1,661,486; Mar. 6.
Machine and process for knitting plaited. W. L. Housemman. 1,661,427; Mar. 6.
Machine for cutting textile fabrics. J. Leiper. 1,661,765; Mar. 6.
Machine for flattening tubular materials. F. Palmer. 1,661,908; Mar. 6.
Machine for making display cards. G. Gray, jr. 1,661,658; Mar. 6.
Machine for making spring bands and like articles. P. T. Lavinder. 1,661,696; Mar. 6.
Machine for manufacturing bottle caps, so-called crown caps. H. A. Skov. 1,661,912; Mar. 6.
Machine for operating upon soles. F. E. Bertrand. 1,661,319; Mar. 6.
Machine for photographically printing on cylinders. F. M. Carroll. 1,661,560; Mar. 6.
Machinery, Ditching and grading. C. W. Cundiff. 1,661,927; Mar. 6.
Magnesium chloride, Manufacture of anhydrous. R. Griessbach and K. Röhre. 1,661,894; Mar. 6.
Manure spreader, Converted. E. C. Litchfield, C. Hermann, and V. Speer. 1,662,010; Mar. 6.
Masonry, Drying out. A. B. Haswell. 1,661,476; Mar. 6.
Match-box-filling machine. K. Bergström. 1,661,783; Mar. 6.
Matrix-making machine, Stereotype. G. M. Repp. 1,661,267; Mar. 6.
Meat-seasoning fork. H. E. Bowen. 1,661,585; Mar. 6.
Merry-go-round. C. W. Field. 1,661,219; Mar. 6.
Metal sheet piling. K. Pahl. 1,661,496; Mar. 6.
Metal-working machine, Combined. F. Riess. 1,662,013; Mar. 6.
Metal-working machine, Combined. F. Riess. 1,662,014; Mar. 6.
Metals, such as magnesium or aluminum or their alloys and recovering such metals from scrap, Refining light. A. Beck. 1,661,526; Mar. 6.
Metallizing process. J. Von Bosse. 1,661,517; Mar. 6.
Milking-machine attachment. H. A. Skinner. 1,661,509; Mar. 6.
Mining apparatus. C. F. Osgood. 1,661,629; Mar. 6.
Mining oil and the like. E. G. Sinclair. 1,661,389; Mar. 6.
Mining oil sands. E. G. Sinclair. 1,661,390; Mar. 6.
Mirror for automobiles, Combined rear and side view. J. F. Rivard. Des. 74,625; Mar. 6.
Mixer: *See*—
Refreshment mixer.
Mixer. F. C. Rood. 1,661,681; Mar. 6.
Moldboard. T. Hawkins. 1,661,942; Mar. 6.
Molding-machine platen arm. E. J. Byerlein. 1,661,598; Mar. 6.
Motor: *See*—
Swivel motor. Water motor.
Motor fuel and process of refining oils. L. Edeleanu. 1,661,566; Mar. 6.
Mounting inserts in and drilling battery-jar vent caps, Apparatus for. B. A. Evans and W. H. Slabaugh. 1,661,417; Mar. 6.
Muffle, Refractory. C. W. Saxe. 1,661,309; Mar. 6.
Muffler, Whirlpool. A. P. J. Voigt. 1,661,980; Mar. 6.
Nitrocellulosic materials, Reducing the viscosity of. C. U. Prachel. 1,661,736; Mar. 6.
Nonskid device. F. O. Wells. 1,661,280; Mar. 6.
Oil and gas separator. J. P. Walker. 1,661,685; Mar. 6.
Oil, Apparatus for cracking. R. S. Pershing. 1,661,196; Mar. 6.
Oil, Apparatus for treating. F. A. Kormann. 1,661,804; Mar. 6.
Oil burner. O. A. Fogarty. 1,661,794; Mar. 6.
Oil drainer and cleaner. E. A. Shadid. 1,661,972; Mar. 6.
Oil from water, Method of and apparatus for separating. F. Wilkes. 1,661,453; Mar. 6.
Oil wells, Steamer for. B. W. Seymour, sr. 1,661,971; Mar. 6.
Oiling mechanism for air-actuated devices. C. A. Claflin. 1,661,561; Mar. 6.
Oils, Continuous process for the refining of mineral. E. T. Hessle. 1,661,826; Mar. 6.
Oils, Reclaiming used lubricating and insulating. A. F. Meston. 1,661,731; Mar. 6.
Operating table. A. T. Minty. 1,661,491; Mar. 6.
Ophthalmic mounting. E. L. Schumacher. 1,661,271; Mar. 6.
Ores, Sintering zinc. H. J. Stehli. 1,661,813; Mar. 6.
Oven for baking beans and the like. F. O. Libby. 1,661,766; Mar. 6.
Package and closure means. C. W. Vessy. 1,661,243; Mar. 6.
Packaging machine. R. H. Plass. 1,661,848; Mar. 6.
Packing for fragile articles, Method and apparatus for making. M. Koppelman and S. Cooper. 1,661,727; Mar. 6.
Pad: *See*—
Table pad.
Paddle. W. L. Holder. 1,661,289; Mar. 6.
Padlock. P. Sczepczenski. 1,661,777; Mar. 6.
Pan: *See*—
Grinding pan.
Paper corrugating and crinkling. B. C. Stickney. 1,661,393; Mar. 6.
Paper-roll holder, Perforated-. W. V. Hunt. 1,661,896; Mar. 6.
Paper rolls, Apparatus for forming and handling. G. W. Dingee. 1,661,826; Mar. 6.
Paper-testing machine. C. R. Taylor. 1,661,549; Mar. 6.
Parallel drafting device, Universal. M. Marzetti. 1,661,538; Mar. 6.
Paving block. A. W. Butler. 1,661,407; Mar. 6.
Paving material and laying the same. E. Hopkinson. 1,661,828; Mar. 6.
Paving material and making the same. F. Iwanski. 1,661,832; Mar. 6.
Pen, Fountain. T. Kovács. 1,661,225; Mar. 6.
Pen, Writing. E. Caldwell. 1,661,746; Mar. 6.
Perfume container. C. L. Marcus. Des. 74,617; Mar. 6.
Phonograph system. J. P. Maxfield. 1,661,539; Mar. 6.
Photographic developing, fixing, and washing apparatus. H. R. McKellar. 1,661,378; Mar. 6.
Photographic objectives, Mount for. E. Wandersleb. 1,661,279; Mar. 6.
Piano control, Pneumatic. O. Ballard. 1,661,318; Mar. 6.
Picker-stick mechanism. E. L. Fox, jr. 1,661,470; Mar. 6.
Picture apparatus, Speed control for motion. P. W. Tierney. 1,661,741; Mar. 6.
Picture projector, Motion-. O. Wittel. 1,661,743; Mar. 6.
Picture transmission, System of. A. B. Clark and D. K. Gannett. 1,661,167; Mar. 6.
Pillow or cushion. I. Buchman. 1,661,690; Mar. 6.
Pipe cleaner. F. R. King. 1,661,759; Mar. 6.
Pipe covering. W. R. Gillies. 1,661,254; Mar. 6.
Pipe-cutting machine. G. R. Steere and A. Hurst. 1,661,274; Mar. 6.
Pipe-supporting device. G. R. Livergood. 1,661,838; Mar. 6.
Pipe wrench. G. A. Montgomery. 1,661,229; Mar. 6.
Piston. A. Anderson. 1,661,917; Mar. 6.
Piston engine. J. Szydlowski. 1,661,582; Mar. 6.
Piston rings, Making. H. S. Graves. 1,661,366; Mar. 6.
Pitcher. K. P. Beattie. Des. 74,591; Mar. 6.
Plane, Carpenter's. C. A. Johnson. 1,662,005; Mar. 6.
Plaster gauge. A. J. Fritz. 1,661,253; Mar. 6.
Plastic material, Rounder for. W. P. Elwood. 1,661,792; Mar. 6.
Pliers. N. J. Gendron. 1,661,365; Mar. 6.
Porch light, Automatic. G. H. Brown. 1,661,994; Mar. 6.
Post: *See*—
Fence post.
Powder, Preparing progressive-burning smokeless. B. Troxler. 1,661,278; Mar. 6.
Powder puff and making the same. J. E. Valentine. 1,661,778; Mar. 6.
Power installation, Steam-. J. McCallum and H. P. H. Anderson. 1,661,900; Mar. 6.
Power mechanism. R. G. Thompson. 1,661,710; Mar. 6.
Prayer-bead device. J. Costello. 1,661,877; Mar. 6.
Press: *See*—
Extrusion press. Printing press.
Golf-club press.
Press. A. A. Byerlein. 1,661,874; Mar. 6.
Pressing machine, Garment. H. G. Beede. 1,661,153; Mar. 6.
Printing bed for embossing or imprinting machines. R. P. Link. 1,661,898; Mar. 6.
Printing in greasy inks with gelatin printing surfaces. O. Treichel. 1,661,515; Mar. 6.
Printing press. O. R. Wolf. 1,661,209; Mar. 6.
Printing scale, Head of a. G. F. Hochriem. Des. 74,605; Mar. 6.
Propeller apparatus suitable for use in connection with various vehicles. M. C. Nixon. 1,661,632; Mar. 6.
Pulling machines, Mast-elevating mechanism for portable. C. S. Wright. 1,661,591; Mar. 6.
Pump. R. M. Clark. 1,661,360; Mar. 6.
Pump. C. P. Eisenbauer. 1,661,886; Mar. 6.
Pump. T. S. Harrington. 1,662,029; Mar. 6.
Pump. A. E. Yetter. 1,661,986; Mar. 6.
Pump, Balanced. A. F. Parker. 1,661,195; Mar. 6.
Pump, Compressor. D. D. Parshall. 1,661,266; Mar. 6.
Pump, Rotary. J. Corbett. 1,661,468; Mar. 6.
Pump, Rotary. W. I. Derrick. 1,661,325; Mar. 6.
Pump, Screw. F. F. Ambrose. 1,661,247; Mar. 6.

Rack: *See*—
Display rack. Electrode rack.
Rack cover. L. Mallach. 1,661,667; Mar. 6.
Radiant energy, Accumulator for. R. H. Goddard and N. A. Riffolt. 1,661,473; Mar. 6.
Radiator cover, Vehicle. J. Zallas. Des. 74,641; Mar. 6.
Radiator, Electric. J. Bilan. 1,661,281; Mar. 6.
Radiocondenser. J. Barnett. 1,661,159; Mar. 6.
Radioconsole. G. W. Lyons. Des. 74,613–4; Mar. 6.
Radiolog. H. D. Bartlett. 1,661,456; Mar. 6.
Radio tuning instruments, Logging and indicating device for. J. P. Coughlin. 1,661,410; Mar. 6.
Railway signaling. E. C. Sassett. 1,661,507–8; Mar. 6.
Railway signaling and train control, System of. J. A. Miller. 1,662,047; Mar. 6.
Railways, Cab-signaling and train-control system for. J. A. Miller and G. W. Cattell. 1,661,670; Mar. 6.
Range. L. A. Althoff. 1,661,647; Mar. 6.
Range closure casing, Gas-. M. Rudic. 1,661,964; Mar. 6.
Range valve and operating member therefor, Gas. F. G. Nicolaus. 1,661,845; Mar. 6.
Receipt recorder. C. H. Richter. 1,662,034; Mar. 6.
Rectification, System for. F. Transom. 1,661,585; Mar. 6.
Rectifier, Rotary. C. M. Clay. 1,661,923; Mar. 6.
Reducing and smelting furnace. A. W. Waern. 1,661,742; Mar. 6.
Reel: *See*—
Cable reel.
Refreshment mixer. G. M. Katz. 1,661,336; Mar. 6.
Refrigerating apparatus. F. E. Williams. 1,661,452; Mar. 6.
Refrigeration. O. F. Nelson. 1,661,381; Mar. 6.
Refrigerator. C. A. Moore. 1,661,671; Mar. 6.
Refuse collector. R. E. Wentzel and J. T. Griffith. 1,661,983; Mar. 6.
Regulating system. G. R. McDonald. 1,661,841; Mar. 6.
Regulator: *See*—
Sash regulator. Vehicle spring regulator.
Relay. T. S. Casner. 1,661,166; Mar. 6.
Reproducing devices, Attachment for. T. N. Hansen. 1,661,286; Mar. 6.
Resilient wheel. O. Waddell. 1,661,643; Mar. 6.
Reversing mechanism, Automatic. A. L. Hunt and J. L. Naujock. 1,661,756; Mar. 6.
Revoluble cutter. J. Colbion. 1,661,789; Mar. 6.
Rifle and shotgun barrel, Interchangeable. L. R. Krenek. 1,661,949; Mar. 6.
Riveting apparatus. R. S. Osborne. 1,661,194; Mar. 6.
Road machine. C. C. Personett. 1,661,735; Mar. 6.
Rock pack, pillar, or like support for use in mine workings. J. Sloan. 1,661,238; Mar. 6.
Rod: *See*—
Grinding-mill rod.
Roofing holder, Portable. E. M. Nelson. 1,661,192; Mar. 6.
Rotary bit. A. E. Carlson. 1,661,715; Mar. 6.
Rotary cutter. H. Everist. 1,661,692; Mar. 6.
Rubber, Preserving vulcanized. H. W. Fiedler. 1,661,887; Mar. 6.
Rubber stock, Continuously vulcanizing. G. F. Fisher. 1,661,888; Mar. 6.
Saddle horn. J. P. Baldwin. 1,661,989; Mar. 6.
Safety hanger. S. S. Vineberg. 1,661,516; Mar. 6.
Sand-blast machine. G. C. Fatscher and C. E. Billings. 1,661,934; Mar. 6.
Sash regulator, Lever. G. A. Carlson. 1,661,652; Mar. 6.
Saw, Power-driven butcher. F. Farrell. 1,661,217; Mar. 6.
Saw, Rotary. J. A. Smith. 1,661,774; Mar. 6.
Saws, Lumber-returning device for rip. E. C. Loetscher. 1,661,767; Mar. 6.
Saxophone-player's stand. A. Lentaty. 1,661,805; Mar. 6.
Scale. J. W. Bryce. 1,661,535–6; Mar. 6.
Scale, Pendulum. W. N. Gilbert. 1,661,534; Mar. 6.
Scale, Weighing. F. Trott. 1,661,241; Mar. 6.
Scow. R. E. Ellis. 1,661,529; Mar. 6.
Screen and conveyer, Combined shaker. J. B. Whitnall. 1,661,781; Mar. 6.
Screen-frame stock, Method of and apparatus for manufacturing. A. T. Brennan. 1,661,714; Mar. 6.
Scrubbing and drying machine, Electrical. A. Ugolini. 1,661,979; Mar. 6.
Scutching machine. J. Van Steenkiste and J. Van Maercke. 1,661,316; Mar. 6.
Sealing jars and the like containers and improved sealing capsule therefor. J. W. Sutcliffe. 1,661,977; Mar. 6.
Separating or classifying machine. W. A. Riddell. 1,661,501; Mar. 6.
Separator: *See*—
Oil and gas separator.
Separator. C. V. Fuqua and J. H. Richa. 1,661,284; Mar. 6.
Servo-brake. H. Pieper. 1,661,624; Mar. 6.
Setting gauge, Universal. P. M. Heinz. 1,661,944; Mar. 6.
Sewing machines, Electroller for. A. Müeller. 1,661,200; Mar. 6.
Sewing machine, Motor-driven. M. Hemleb. 1,661,824; Mar. 6.
Shade, Ventilating sun. W. J. Tate. 1,661,709; Mar. 6.
Shaft coupling. A. Martin. 1,661,226; Mar. 6.
Shearing fur pelts. G. J. Laemmle. 1,661,483; Mar. 6.
Shearing machine. J. Monforts. 1,661,617; Mar. 6.
Sheet-metal drum. C. H. Rollason. 1,661,578; Mar. 6.
Sheet or card holder. G. P. Wigginton. 1,661,519; Mar. 6.
Shingle construction. G. E. Conway. 1,661,562; Mar. 6.
Shingle, Split. G. E. Noble. 1,661,770; Mar. 6.
Ship-propulsion installation, Electric. E. D. Dickinson. 1,661,583; Mar. 6.
Ship's side scuttle. L. Schriever. 1,661,581; Mar. 6.
Shipping box, Collapsible. J. H. De Boer. 1,661,527; Mar. 6.
Shipping device. R. E. Baus. 1,661,457; Mar. 6.
Shock absorber. J. M. Hall. 1,661,822; Mar. 6.
Shock-absorbing means. H. Junkers. 1,661,182; Mar. 6.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,661,753; Mar. 6.
Shoe machine. A. Hadl. 1,661,662; Mar. 6.
Shot cartridge. H. Greener. 1,661,609; Mar. 6.
Shovels, Semiautomatic trip for power. G. G. Morin. 1,661,955; Mar. 6.
Shuttle. M. H. Rubin. 1,661,308; Mar. 6.
Shuttle. W. A. Tebo. 1,662,017; Mar. 6.
Side frame, Cast-steel. B. W. Kadel. 1,661,833; Mar. 6.
Sign-letter fastening, Glass-. A. H. Forger. 1,661,531; Mar. 6.
Signal: *See*—
Traffic signal.
Signal-receiving system. P. B. Murphy. 1,661,261; Mar. 6.
Signals between moving vehicles and roadbeds, Method and arrangement for transferring. W. Wurst. 1,661,744; Mar. 6.
Signaling apparatus for vehicles, more particularly motor cars. J. Parcq. 1,661,343; Mar. 6.
Signaling device. H. A. Cahill and H. H. Dennis. 1,661,875; Mar. 6.
Signaling system. N. A. Robinson. 1,661,962; Mar. 6.
Siphon. P. Magnin. 1,661,699; Mar. 6.
Sleigh, Automobile. F. J. Steffer. 1,661,511; Mar. 6.
Slipper, House. P. S. B. Jensen. 1,661,726; Mar. 6.
Smoker's appliance. D. W. Causey. 1,661,215; Mar. 6.
Snowplow, High-speed traction. T. J. Ball. 1,661,158; Mar. 6.
Socket, Electric candle. T. A. Both. 1,661,089; Mar. 6.
Soot blower, Portable. J. J. Dolan. 1,661,931; Mar. 6.
Sound recording and reproducing. L. Espenschied. 1,661,793; Mar. 6.
Sound-reproducing apparatus. G. W. Lyons. Des. 74,615; Mar. 6.
Sound-reproducing machine. W. H. Thommen. 1,661,396–7; Mar. 6.
Spark plug. A. B. Broluska. 1,661,405; Mar. 6.
Speaking tube. J. Levy. 1,661,485; Mar. 6.
Spectacles, Auxiliary lens attachment for. J. Savoie. 1,661,967; Mar. 6.
Speed mechanism, Change-. I. V. Gironés. 1,661,892; Mar. 6.
Spindle for textile-spinning apparatus and driving it. F. Newton. 1,661,262; Mar. 6.
Spindle stop. W. F. Groene. 1,661,474; Mar. 6.
Spoon or similar article. T. B. Lashar. Des. 74,612; Mar. 6.
Spotlight. G. E. Blake and J. H. Bruninga. 1,661,784; Mar. 6.
Spray gun and operating the same. E. Stephan. 1,661,239; Mar. 6.
Spring shackle. H. D. Geyer. 1,661,220; Mar. 6.
Sprinkling systems, Alarm valve for automatic. H. M. Nacey. 1,661,442; Mar. 6.
Stamp carrier. A. R. Tallman. 1,661,395; Mar. 6.
Stamp holder. A. R. Tallman. 1,661,394; Mar. 6.
Stamp presses, Feeding mechanism for. C. E. McManus. 1,662,012; Mar. 6.
Stamping or embossing machine. C. Jobst. 1,661,178; Mar. 6.
Stand: *See*—
Display stand. Saxophone-player's stand.
Switch stand.
Starch products, Making. E. Stern. 1,661,201; Mar. 6.
Statistical, calculating, and like machine controlled by mechanical records. A. Thomas. 1,661,684; Mar. 6.
Steam engine. F. J. Powell. 1,661,957; Mar. 6.
Steam generator. W. D. La Mont. Re16,895; Mar. 6.
Steam generator. H. A. Nicholson. 1,661,542–6; Mar. 6.
Steel rail. H. Glink. 1,661,176; Mar. 6.
Steering wheel. C. H. Kenrick. 1,661,481; Mar. 6.
Steering wheel and ignition lock. W. P. Seng. 1,661,447; Mar. 6.
Stepladder. N. Varker, J. T. Kemps, and C. H. Bartlett. 1,661,587; Mar. 6.
Stopper: *See*—
Cinder-notch stopper.
Stopper for acid bottles and making the same. D. Estes. 1,661,416; Mar. 6.
Storage-battery device. F. C. Ridgely. 1,661,854; Mar. 6.
Storage tank, Water-. P. Gray. 1,661,659; Mar. 6.
Stove. R. W. Rogers. 1,661,306; Mar. 6.
Stove and heater, Oil. A. M. Grayson. 1,661,939; Mar. 6.
Stovepipe attachment. M. Osborn. 1,661,674; Mar. 6.

Strata in wells, Plugging or packing off. H. M. Ryder and L. J. Bailey. 1,661,270; Mar. 6.
Street crossing. E. Mihaliak. 1,661,490; Mar. 6.
Street marker. L. F. N. Baldwin. 1,661,870; Mar. 6.
Striking and boring mechanism. G. Machren. 1,661,666; Mar. 6.
Striper, Mechanical. A. Cynova. 1,661,599; Mar. 6.
Suction cleaner. H. E. Hoover. Re16,893; Mar. 6.
Support, Work. W. J. Baumberger. 1,662,024; Mar. 6.
Suspension hook, Foldable. J. W. Little. 1,661,837; Mar. 6.
Switch: *See*—
Double-throw switch. Electric switch.
Switch-controlling device. R. F. Stehlik. 1,662,041; Mar. 6.
Switch-point protector. J. C. Patterson and J. H. Lynch, jr. 1,661,733; Mar. 6.
Switch stand, Automatic. W. M. Gray. 1,661,695; Mar. 6.
Swivel connection. P. M. O'Neill. 1,661,405; Mar. 6.
Swivel motor. F. T. Irgens. 1,661,369; Mar. 6.
Swivel wheel. H. G. French and E. W. McSheen. 1,661,889; Mar. 6.
Syringe and cartridge therefor, Hypodermic. H. S. Cook. 1,661,818; Mar. 6.
Table: *See*—
Dining and billiard table. Operating table.
Table. E. Rhodes. 1,661,853; Mar. 6.
Table or similar article, Billiard. A. H. Bechtol. Des. 74,592; Mar. 6.
Table pad. L. M. Arnopol. 1,661,987; Mar. 6.
Tank: *See*—
Glass-melting tank. Vehicle tank.
Storage tank.
Tank cover, Leakproof. W. T. Van Orman. 1,662,018; Mar. 6.
Tank-sealing means. C. F. Bertschinger. 1,661,404; Mar. 6.
Taping machine. W. P. Osgood. 1,661,383; Mar. 6.
Teapot. K. P. Beattie. Des. 74,590; Mar. 6.
Teapot, coffeepot, and the like. E. W. Abram. 1,662,020; Mar. 6.
Teaseling machine. S. Morel. 1,661,402; Mar. 6.
Tee-forming blank. E. N. Swett. 1,661,513; Mar. 6.
Telephone-exchange system. W. C. Jordan. 1,661,536; Mar. 6.
Telephone set. H. F. Obergfell. Des. 74,620; Mar. 6.
Television process and means of realization. A. Dauvillier. 1,661,603; Mar. 6.
Temperature-indicating housing. A. Hartman. Des. 74,603; Mar. 6.
Tent pin, stake, or the like. E. Armstrong. 1,661,867; Mar. 6.
Therapeutic bougies. K. von Neergaard. 1,661,588; Mar. 6.
Thermostatic control device. F. W. Grundman. 1,661,348; Mar. 6.
Thermostatic controlling device. C. B. Sawyer. 1,661,349; Mar. 6.
Thermostatic controlling mechanism. C. B. Sawyer. 1,661,346–7; Mar. 6.
Thermostats, Method and apparatus for setting. D. N. Crosthwait, jr. 1,661,323; Mar. 6.
Thiazoles, Preparing. L. B. Sebrell and J. Teppema. 1,662,015; Mar. 6.
Thickness gauge. R. W. Michler. 1,661,701; Mar. 6.
Thread gauge, Universal. C. J. Schen. 1,661,857; Mar. 6.
Thread-winding machines, Tensioning device for. W. J. Eldridge. 1,662,003; Mar. 6.
Ticket carrier. F. P. Lawrence and S. M. Hardaway. 1,661,570; Mar. 6.
Ticket, Pin. F. H. Thompson. 1,661,583; Mar. 6.
Tile cutter. G. Koebler. 1,661,897; Mar. 6.
Tile-receiving machine. J. J. Semashko. 1,661,969; Mar. 6.
Timing device. G. Deakin. 1,661,249; Mar. 6.
Tire. A. Kusper. 1,661,373; Mar. 6.
Tire and wheel. S. C. Hatfield. 1,661,754; Mar. 6.
Tire, Armored pneumatic. R. J. Talbott. 1,661,978; Mar. 6.
Tire-building machine. J. A. Shively. 1,662,016; Mar. 6.
Tire cover, Metal. H. F. Privett. 1,661,679; Mar. 6.
Tire, Cushion. O. J. Kuhlke. 1,662,007; Mar. 6.
Tire fabrics in continuous rolls, Making warpless. C. Kmentt. 1,661,184; Mar. 6.
Tire heater. W. Wiley. 1,661,984; Mar. 6.
Tire structure. A. B. Broluska. 1,661,462; Mar. 6.
Tires, Method and apparatus for building pneumatic. J. D. Tew. 1,661,449; Mar. 6.
Tires, Retread mold for. F. L. Smith, J. S. Caulfeld, and C. J. Peterson. 1,662,035; Mar. 6.
Toaster. L. F. Fisher. 1,661,819; Mar. 6.
Toaster. C. A. Lemaster. 1,661,294; Mar. 6.
Toilet article. A. Ebbesen. 1,661,564; Mar. 6.
Toilet article. S. Spitz. 1,661,200; Mar. 6.
Toilet-powder box. G. T. Gibson. Des. 74,600; Mar. 6.
Tone modifier. W. Deerfoot. 1,661,525; Mar. 6.
Tool cap. A. Halvorson. 1,661,941; Mar. 6.
Tool, Cleaning. T. C. Babbitt and C. E. Hopfenbeck. 1,661,552; Mar. 6.
Tool, Fishing. F. J. Spang. 1,661,638; Mar. 6.
Tool for engaging and pulling pump rods, Gripping. J. W. Oberbeck. 1,661,281; Mar. 6.
Tool, Garden. T. R. Michaelis. 1,661,954; Mar. 6.
Tool, Machine. W. F. Greene and R. M. Bacon. 1,661,610; Mar. 6.
Tool, Revoluble forming. J. Colbion. 1,661,788; Mar. 6.
Tool, Tube-flaring. B. F. Helminiak. 1,661,367; Mar. 6.
Toothbrush. R. W. Johnson. Des. 74,608; Mar. 6.
Tooth-cleaning implement. G. N. Gilbert. 1,661,472; Mar. 6.
Torpedo director. M. F. Bates. 1,661,686; Mar. 6.
Toweling fabric. R. L. O'Keeffe. Des. 74,621; Mar. 6.
Toy. S. Klaus. 1,661,292; Mar. 6.
Toy. E. Reek. 1,661,959; Mar. 6.
Toy, Animated fish. D. H. King. 1,661,758; Mar. 6.
Toy bridge, Bascule. H. Jade. 1,661,429; Mar. 6.
Toy building element. W. R. Benjamin. 1,661,687; Mar. 6.
Toy doll, Ornamental. M. W. Robichaud. 1,661,856; Mar. 6.
Toy horse. A. Campbell. 1,661,463; Mar. 6.
Toy, Mechanical racing. C. Zabel. 1,661,865; Mar. 6.
Toy or amusement device, Mechanical. C. Zabel. 1,661,864; Mar. 6.
Track-bed construction and arrangement. G. W. Muller. 1,661,702; Mar. 6.
Traction device. W. S. Callery. 1,661,996; Mar. 6.
Traction engine. C. L. Best. 1,661,649; Mar. 6.
Tractor trailer connection. P. Raimer. 1,661,787; Mar. 6.
Traffic-controlling apparatus, Railway-. R. M. Gilson. 1,661,175; Mar. 6.
Traffic signal. J. and H. W. Rank. 1,661,446; Mar. 6.
Transformer and conduit-box cover, Combined. A. E. Rittenhouse. 1,661,268; Mar. 6.
Transmission, Auxiliary. F. P. Ferris. 1,661,469; Mar. 6.
Transmission belt. H. Perpall. 1,661,300; Mar. 6.
Transmission over electric circuits, Regulating the. H. Nyquist. 1,661,263–4; Mar. 6.
Trap: *See*—
Animal trap. Bobbin-stripper trap.
Tray cover or the like; Lace. S. N. Mallouk. Des. 74,616; Mar. 6.
Tray, Spoon. A. R. Chisholm. 1,661,787; Mar. 6.
Trench diggers, Sighting device for. A. A. Smith. 1,661,812; Mar. 6.
Trolling spoon. E. C. Bills. 1,661,688; Mar. 6.
Truck, Industrial. E. H. Remde. 1,661,386–7; Mar. 6.
Truck, Industrial. E. H. Remde. 1,661,626; Mar. 6.
Truck, Industrial. E. H. Remde. 1,661,851–2; Mar. 6.
Trucks, Battery cradle for electric. W. S. Ward and B. H. Britt. 1,661,779; Mar. 6.
Trucks, Brake rigging for railway. H. George. 1,661,471; Mar. 6.
Trucks, Controlling the swiveling action of railway. C. W. Todd. 1,661,814; Mar. 6.
Tube: *See*—
Discharge tube. Speaking tube.
Tubes, Casing for pneumatic. A. B. Broluska. 1,661,461; Mar. 6.
Tubing, Forming flexible. H. Keller. 1,661,835; Mar. 6.
Tungsten product and its manufacture. A. de Graaff. 1,662,027; Mar. 6.
Tuning key for string instruments. T. H. Stark. 1,661,708; Mar. 6.
Turbine, Fluid. J. A. Choquette. 1,661,716; Mar. 6.
Turbine power plant and system, Steam-. F. Lösel. 1,661,296; Mar. 6.
Typewriting machine. G. G. Going. 1,661,799; Mar. 6.
Typewriting machine. J. A. B. Smith. 1,661,311; Mar. 6.
Typographical composing and distributing machine. J. R. Rogers. 1,661,504; Mar. 6.
Undergarment, Lady's combination. K. Schmutzler. 1,661,350; Mar. 6.
Utensil, Culinary. G. J. Simon. 1,661,974; Mar. 6.
Utensil for molding sugar sweetmeats. H. McAllister. 1,661,227; Mar. 6.
Vacuum-cleaner attachment. L. Baar. 1,661,553; Mar. 6.
Vacuum tubes, Filament support for. D. A. Mullaney. 1,662,032; Mar. 6.
Valve, W. J. Mead. 1,661,190; Mar. 6.
Valve and control mechanism, Drifting. R. P. Loughlin. 1,661,806; Mar. 6.
Valve and screen, Check. H. E. Heine. 1,661,424; Mar. 6.
Valve mechanism. O. C. Schmidt. 1,661,310; Mar. 6.
Valve, Mixing. W. E. Leibing. 1,661,431; Mar. 6.
Valve-operating means, Steam-cylinder. W. A. Cook. 1,661,466; Mar. 6.
Valve, Shut-off. T. F. McLaughlin. 1,661,437; Mar. 6.
Valve, Tank-car siphon. E. S. Thayer. 1,661,202; Mar. 6.
Vaporizer and mixer, Fuel. F. A. Smith. 1,661,773; Mar. 6.
Variocoupler. E. R. Morton. 1,661,380; Mar. 6.
Vegetable cutter. A. Stoltenberg. 1,662,036; Mar. 6.
Vehicle body. A. F. Masury and C. Froesch. 1,661,187; Mar. 6.
Vehicle brake construction. L. A. Martinelli and F. E. Culverwell. 1,661,435; Mar. 6.
Vehicle jack. J. W. Derrick. 1,661,882; Mar. 6.
Vehicle lamp door. H. C. Doane. Des. 74,597; Mar. 6.
Vehicle lamp door. L. O. Parker. Des. 74,623; Mar. 6.
Vehicle spring regulator. J. W. Blackledge. 1,661,650; Mar. 6.
Vehicle tank. A. Davis, jr. 1,661,824; Mar. 6.

Vehicles, Brake system for. F. H. Royce. 1,661,963; Mar. 6.
Vehicles, Braking device for. H. Pieper. 1,661,623; Mar. 6.
Vehicles, Direction indicator for. H. Kreidel. 1,661,762; Mar. 6.
Vehicles, Propelling and transmission mechanism for. O. F. Warhus. 1,661,780; Mar. 6.
Vehicles running on rails, Brake system for. H. Pieper. 1,661,622; Mar. 6.
Vehicles, Safety device for railway. F. Carley. 1,661,920; Mar. 6.
Vehicles, Spring suspension for. M. S. Field. 1,661,530; Mar. 6.
Vehicles, Spring suspension for. H. W. Hyde. 1,661,428; Mar. 6.
Vehicles, Steering-column-locking device for motor. W. J. Lillicrapp. 1,661,697; Mar. 6.
Vending machine, Single-package-. H. R. Mitchell. 1,661,440; Mar. 6.
Veneer and method of manufacturing. J. McIntosh. 1,661,901; Mar. 6.
Vibration and sound. Plate for deadening. W. Genest. 1,661,422; Mar. 6.
Virus and producing it, Product killed-hog-cholera. J. Reichel. 1,661,233; Mar. 6.
Voice device. A. Fuertinger. 1,661,155; Mar. 6.
Wall bracket, Lighting-fixture. T. Shapiro. Des. 74,633; Mar. 6.
Wall facing, Paneled. R. H. Davis, J. Milewski, and M. Maloney. 1,661,168; Mar. 6.
Wall fixture. A. K. Matthews. 1,661,188; Mar. 6.
Wall-forming member. H. Junkers. 1,661,183; Mar. 6.
Wallets and pocketbooks, Manufacture of. C. B. Cook. 1,661,924; Mar. 6.
Washer: *See*—
Bedpan washer.
Washers to the pins of heel molds, Distributing. L. Wetmore. 1,662,019; Mar. 6.
Washing agents, Production of. G. Petroff and P. Shestakoff. 1,661,620; Mar. 6.
Washing machine. W. V. Baker. 1,661,356; Mar. 6.
Washing machine. R. S. Kirkpatrick. 1,661,665; Mar. 6.
Washing-machine agitator. H. S. Labisky. 1,661,763; Mar. 6.
Washing machine, Milk-can. S. Dary. 1,661,602; Mar. 6.
Washing machines, Feeding water into. E. V. Payne. 1,661,445; Mar. 6.
Watch, Keyless. G. Perret. 1,661,232; Mar. 6.
Water and soap saving device. J. B. Fortain. 1,661,532; Mar. 6.
Water bag. W. E. Yehle. 1,661,400; Mar. 6.
Water-cooling device. M. A. Pocock. 1,661,385; Mar. 6.
Water gauge, Automobile. T. H. Rorke. 1,661,269; Mar. 6.
Water heater. J. H. Newport. 1,661,193; Mar. 6.
Water heater, Electric. J. H. Ewart. 1,661,693; Mar. 6.
Water motor. E. O. Branington. 1,661,872; Mar. 6.
Water silencer. J. A. Osborne. 1,661,704; Mar. 6.
Water softener. V. C. Norquist. 1,661,675; Mar. 6.
Water softener and filter and fill-nozzle salt-pot attachment, Base exchange. C. T. McGill. 1,661,488; Mar. 6.
Water softening system with semiautomatic regeneration. V. C. Norquist. 1,661,676; Mar. 6.
Wear plate for straps. A. B. Hagelin. 1,661,821; Mar. 6.
Weighing apparatus, Automatic. R. Joksch. 1,661,291; Mar. 6.
Welding machine, Electric. F. L. Sessions. 1,661,970; Mar. 6.
Wheel: *See*—
Resilient wheel. Swivel wheel.
Steering wheel.
Wheel and tire therefor. J. Ma Riojas. 1,661,502; Mar. 6.
Winder. H. D. Colman. 1,661,817; Mar. 6.
Winders for artificial silk, Driving mechanism for. H. Bénit. 1,661,990; Mar. 6.
Windmill. E. N. Olson and P. E. Solberg. 1,661,847; Mar. 6.
Window. R. H. Bliss. 1,661,162; Mar. 6.
Window cleaner. F. Bodenhofer. 1,662,038; Mar. 6.
Window cleaner, Large-pane-. V. Beno. 1,661,918; Mar. 6.
Window-cleaning device. G. U. Brake. 1,661,358; Mar. 6.
Window framing. E. M. Rundgren. 1,661,198; Mar. 6.
Window-washing device. H. Sebell. 1,661,236; Mar. 6.
Windshield wiper. G. A. Ariens. 1,661,152; Mar. 6.
Windshield wiper, Automatic. E. O. Sather. 1,661,388; Mar. 6.
Wire fabric and apparatus therefor, Production of welded. A. Armstrong. 1,661,156; Mar. 6.
Wire into lengths, Apparatus for cutting. W. P. Zabel. 1,661,866; Mar. 6.
Wire support, Feed-. N. A. Michaelson. 1,661,902; Mar. 6.
Wrap. E. E. Marshall. 1,661,768; Mar. 6.
Wrapper for food products. L. Josephson. 1,661,479; Mar. 6.
Wrapper-pasting device. H. P. Wood. 1,661,210; Mar. 6.
Wrench: *See*—
Pipe wrench.
Wrench. J. F. Astley. 1,661,402; Mar. 6.
Wrench. J. H. Dowd. 1,662,002; Mar. 6.
Wrench mechanism. J. Scherner. 1,661,682; Mar. 6.
Wringers, Safety device for clothes. A. Folke. 1,661,654; Mar. 6.
Writing device. W. Voith. 1,661,204; Mar. 6.
Zero corrector. G. Carpenter. 1,661,214; Mar. 6.

CLASSIFICATION OF PATENTS

ISSUED MARCH 6, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Brick Company, Fort Worth, Tex. Brick. 239,743; Mar. 13; Serial No. 256,506; published Dec. 27, 1927. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 239,744; Mar. 13; Serial No. 256,505; published Dec. 20, 1927. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 239,836; Mar. 13; Serial No. 256,507; published Dec. 13, 1927. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 239,837; Mar. 13; Serial No. 256,504; published Dec. 20, 1927. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 239,838; Mar. 13; Serial No. 256,503; published Dec. 13, 1927. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 239,879; Mar. 13; Serial No. 256,508; published Dec. 13, 1927. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 239,966–74; Mar. 13. Class 12.

Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Photographic developers. 31,337; renewed Mar. 1, 1928.

Agnus, Felix, trustee, to The Baltimore Publishing Company, Baltimore, Md., successor. Newspaper. 69,299; renewed June 2, 1928.

Ajax Rope Company, Inc., New York, N. Y. Rope. 239,904; Mar. 13; Serial No. 257,266; published Jan. 3, 1928. Class 7.

Aladdin Publishers, The, Rodgers Forge and Baltimore, Md. Publication. 239,780; Mar. 13; Serial No. 254,339; published Jan. 3, 1928. Class 38.

Albert Publishing Company, New York, N. Y. Magazine. 239,885; Mar. 13; Serial No. 257,263; published Jan. 3, 1928. Class 38.

Alesi, John, Exterminating Company, Chicago, Ill. Preparation used as automobile polish. 239,961; Mar. 13. Class 16.

Ament, Lucy A., New York, N. Y. Shopping bags of paper, fabric, or leather. 239,866; Mar. 13; Serial No. 257,088; published Jan. 3, 1928. Class 3.

American Ammone Company, New York, N. Y. Stove and nickel polish. 240,000; Mar. 13. Class 4.

American Chile Hot Dog Company, Cleveland, Ohio. Packaged solid-form food products composed essentially of chili con carne in solid form. 239,872; Mar. 13; Serial No. 256,804; published Jan. 3, 1928. Class 46.

American Export Door Corporation, Tacoma, Wash. Plywood. 239,854; Mar. 13; Serial No. 255,477; published Dec. 20, 1927. Class 12.

American Export Door Corporation, Tacoma, Wash. Doors. 239,956; Mar. 13; Serial No. 252,805; published Dec. 13, 1927. Class 12.

American Lanolin Corporation, Lawrence, Mass. Rust-proofing material. 239,905; Mar. 13; Serial No. 257,269; published Dec. 27, 1927. Class 6.

American Lead Pencil Company, New York, N. Y. Eraser holders for application to the ends of lead pencils. 66,976; renewed Jan. 7, 1928.

American Seed and Food Products, Chicago, Ill. Bird and aquariam supplies. 239,868; Mar. 13; Serial No. 256,988; published Jan. 3, 1928. Class 46.

American Tarso Company, Boston, Mass. Plywood, steel, and pyroxylin veneers. 239,849; Mar. 13; Serial No. 253,786; published Dec. 20, 1927. Class 12.

American Type Founders Company, Jersey City, N. J. Ink knives. 239,990; Mar. 13. Class 23.

Anchor Cap & Closure Corporation, Long Island City, N. Y. Closure caps. 239,742; Mar. 13; Serial No. 256,558; published Dec. 20, 1927. Class 50.

Apt I'en Co. (See Rosenberg, Abraham.)

Art Wire and Stamping Company, Arlington, N. J. Cuff buttons. 239,820; Mar. 13; Serial No. 191,250; published Apr. 21, 1925. Class 28.

Athey Truss Wheel Co., Chicago, Ill. Trailer-type vehicles and parts thereof. 240,001; Mar. 13. Class 19.

Atlantic Commission Co., Inc., New York, N. Y. Seed potatoes in their natural state. 239,964; Mar. 13. Class 46.

Atlantic Paint Company, The, assignor to The Atlantic Paint Company, New York, N. Y. Mixed paints. 68,055; renewed Mar. 3, 1928.

Atlas Powder Company. (See Potts Powder Company, The, assignor.)

Baltimore Publishing Company, The. (See Agnus, Felix, Trustee.)

Barnes, William G., Seattle, Wash. Sandwiches. 240,011; Mar. 13. Class 46.

Bay Company, The, Bridgeport, Conn. Surgical dressings, gauze products, etc. 239,968; Mar. 13. Class 44.

Bechtold, Adolph G., Brooklyn, N. Y. Lens cleaner. 239,828; Mar. 13; Serial No. 236,981; published Jan. 3, 1928. Class 4.

Beebe, Lucius, and Sons, Inc., Boston, Mass. Leather. 239,810; Mar. 13; Serial No. 223,571; published Dec. 13, 1927. Class 1.

Beech-Nut Packing Company, Canajoharie, N. Y. Malt extracts for food purposes. 239,789; Mar. 13; Serial No. 255,697; published Dec. 27, 1927. Class 46.

Beech-Nut Packing Company, Canajoharie, N. Y. Butter. 239,795; Mar. 13; Serial No. 257,853; published Jan. 3, 1928. Class 46.

Berger Manufacturing Company, The, Canton, Ohio. Metal lath, sheet lath, picture mold, etc. 239,846; Mar. 13; Serial No. 254,226; published Dec. 13, 1927. Class 12.

Bernhardt, M. E., Company, Inc., New York, N. Y. Pocket friction cigar lighters. 239,783; Mar. 13; Serial No. 253,734; published Jan. 3, 1928. Class 34.

Bico Distributing Company. (See Garneau & De Bruyn, Inc.)

Blatz, Valentin, Brewing Company, Milwaukee, Wis. Cereal beverages. 239,920; Mar. 13; Serial No. 236,982; published Nov. 8, 1927. Class 48.

Bliss Steel Products Corporation, East Syracuse, N. Y. Windows, sashes, and window frames. 239,843; Mar. 13; Serial No. 256,278; published Dec. 27, 1927. Class 12.

Bollinger-Hancock Coffee Co., Inc., Louisville, Ky. Coffee. 239,852–3; Mar. 13; Serial No. 253,353–4; published Jan. 3, 1928. Class 46.

Bone Dry Fertilizer Company, Richmond, Va. Fertilizers. 239,934; Mar. 13; Serial No. 256,329; published Jan. 3, 1928. Class 10.

Boott Mills, Lowell, Mass. Scrims and marquisettes, curtains and draperies. 239,959; Mar. 13. Class 42.

Borden Company, The. (See New York Condensed Milk Company, assignor.)

Bosisto, J. & Co., Richmond, Victoria, to J. Bosisto & Co. Proprietary Limited, Melbourne, Victoria, Australia, successor. Oil of eucalyptus or rheumatic oil. 29,261; renewed Dec. 8, 1926.

Boston Brass Company, Waltham, Mass. Boiler relief valves. 239,823–4; Mar. 13; Serial Nos. 218,099–100; published Oct. 20, 1925. Class 13.

Bowens, Julia A., doing business as The Bowens Manufacturing Company, St. Petersburg, Fla. Soft soap. 240,008; Mar. 13. Class 4.

Bowers, Sarah E. (See Woolley Salve Company, The.)

Braithwaite, Herbert F., doing business as Sanlo Manufacturing Company, Brooklyn, N. Y. Cleaning compound. 239,894; Mar. 13; Serial No. 256,168; published Jan. 3, 1928. Class 4.

Bretty & Beckher, New York, N. Y. Electric hair driers, vibrators, massage apparatus, and violet-ray apparatus. 239,855; Mar. 13; Serial No. 256,169; published Dec. 27, 1927. Class 44.

Brown & Sharpe Mfg. Co., Providence, R. I. Milling machines, gear-cutting, etc. machines and parts thereof. 239,751; Mar. 13; Serial No. 255,052; published Jan. 3, 1928. Class 23.

Brown, Herbert H., Philadelphia, Pa. Butter. 68,132; renewed Mar. 10, 1928.

Brown, James H., doing business as Michigan Automobile Tours, Battle Creek, Mich. Magazine. 239,777; Mar. 13; Serial No. 257,915; published Jan. 3, 1928. Class 38.

Bruce, Owen C., Kelsey City, Fla. Salve. 239,721; Mar. 13; Serial No. 257,615; published Dec. 27, 1927. Class 6.

Bryant, E. H., doing business as E. H. Bryant Tool Company, Cleveland, Ohio. Milling cutters. 239,979; Mar. 13. Class 23.

Burnham Chemical Company, Westend, Calif. Double salt sodium carbonate sulphate. 239,834; Mar. 13; Serial No. 256,857; published Dec. 27, 1927. Class 6.

Cadilac Radio Mfg. Co. (See Kitto, William H.)

California Condiment Company, Los Angeles, Calif. Salad dressings, salad oil, condiments, and sweet relish. 240,006; Mar. 13. Class 46.

California Orchard Products Co., San Francisco, Calif. Fresh deciduous fruits. 239,851; Mar. 13; Serial No. 253,571; published Dec. 27, 1927. Class 46.

California Sea Food Co. (See Rex, M. A.)

Campbell, John & Co., New York, N. Y. Compound for wetting out, bleaching, scouring, etc., all fibers, yarns, and fabrics. 239,722; Mar. 13; Serial No. 257,583; published Dec. 27, 1927. Class 6.

Campbell, John, & Co., New York, N. Y. Compound for wetting out, boiling out, bleaching, scouring, etc. 239,737; Mar. 13; Serial No. 257,161; published Dec. 13, 1927. Class 6.

Capilano Timber Co. Limited, North Vancouver, British Columbia, Canada. Sawmill products. 239,944; Mar. 13; Serial No. 250,974; published Dec. 27, 1927. Class 12.

Carnation Milk Products Company, Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash. Evaporated and condensed milk. 239,791; Mar. 13; Serial No. 255,960; published Dec. 27, 1927. Class 46.

Cassino, Nicholas, doing business as Cassino Coffee Company, Vicksburg, Miss. Coffee. 239,812; Mar. 13; Serial No. 225,504; published Dec. 27, 1927. Class 46.

Castelli Bros., Inc., New York, N. Y. Textile rugs. 239,718; Mar. 13; Serial No. 258,065; published Jan. 3, 1928. Class 42.
Catskill Paint & Varnish Co. (See Solberg, Arthur.)
Cauvigny Brush Co., New York, N. Y. Toilet brushes. 67,252; renewed Jan. 28, 1928.
Chambers, John G., M. D., doing business as Dr. J. G. Chambers & Sons, Birmingham, Ala. Vitellum compound. 239,883; Mar. 13; Serial No. 257,344; published Jan. 3, 1928. Class 6.
Champion, C. V., & Company, Danville, Ill. Toasted sandwiches. 239,796; Mar. 13; Serial No. 257,967; published Jan. 3, 1928. Class 46.
Chemical Foundation, Incorporated, The. (See Actien-Gesellschaft für Anilin-Fabrikation, assignor.)
Chemical Foundation, Incorporated, The. (See Farbenfabriken, Vormals Friedr. Bayer & Co., assignor.)
Chemical Foundation, Incorporated, The. (See Waldberg & Co., G. m. b. H., assignor.)
Cheney Brothers, South Manchester, Mass. Fabrics in the piece. 239,717; Mar. 13; Serial No. 258,066; published Jan. 3, 1928. Class 42.
Chicago Paint Works, Chicago, Ill. Asbestos roof cement. 239,808; Mar. 13; Serial No. 229,157; published May 24, 1927. Class 12.
Chrysler Sales Corporation, Detroit, Mich. Automobiles and their structural parts. 239,858; Mar. 13; Serial No. 256,075; published Jan. 3, 1928. Class 19.
Chula Vista Mutual Lemon Association, Inc., Chula Vista, Calif. Fresh lemons. 239,792; Mar. 13; Serial No. 257,785; published Jan. 3, 1928. Class 46.
Cino Chemical Products Co., The, doing business as Vani-Shine Manufacturing Co., Cincinnati, Ohio. Chemical preparations. 239,933; Mar. 13; Serial No. 256,397; published Dec. 27, 1927. Class 6.
Cleveland Varnish Company, The, assignor to The Cleveland Varnish Company, Cleveland, Ohio. Painters' materials. 67,884–6; renewed Feb. 25, 1928.
Cleveland Varnish Company, The, assignor to The Cleveland Varnish Company, Cleveland, Ohio. Painters' materials. 68,185; renewed Mar. 10, 1928.
Coast Envelope Company, Los Angeles, Calif. Correspondence envelopes. 239,890; Mar. 13; Serial No. 255,966; published Jan. 3, 1928. Class 37.
Collins, Thos. E., & Co., St. Louis, Mo. Safety signals. 239,950; Mar. 13; Serial No. 252,089; published Dec. 13, 1927. Class 50.
Colman, J. & J., Limited, Norwich and London, England. Washing blue. 81,009; renewed Dec. 21, 1927.
Colonial Steel Company, Pittsburgh, Pa. Steel bars, sheets, and plates. 68,969; renewed May 12, 1928.
Colonial Steel Company, Pittsburgh, Pa. Steel bars, sheets, and plates. 69,880; renewed July 14, 1928.
Coun, Robert, Dunedin, Otago, New Zealand. Medicine. 239,998; Mar. 13.
Continental Baking Company, Wilmington, Del., and New York, N. Y. Bread. 239,797; Mar. 13; Serial No. 258,019; published Jan. 3, 1928. Class 46.
Continental Products Corporation, Los Angeles, Calif. Deodorant, disinfectant, and bleach. 239,913; Mar. 13; Serial No. 257,528; published Dec. 27, 1927. Class 6.
Corral, Wodiska y Ca., Tampa, Fla. Cigars. 239,749; Mar. 13; Serial No. 255,485; published Jan. 3, 1928. Class 17.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes and lip sticks. 239,833; Mar. 13; Serial No. 256,862. Published Dec. 27, 1927. Class 6.
Coune, Felix, Chicago, Ill. Hair curlers. 239,994; Mar. 13.. Class 44.
Cox, J. & G., Limited, Edinburgh, Scotland, assignor to The Cox Gelatine Company, New York, N. Y. Gelatin for use as food. 68,407; renewed Apr. 7, 1928.
Daboin, M. R., Caracas, Venezuela, and Courbevoie, Paris, France. Tonic for the nervous system. 239,953; Mar. 13; Serial No. 252,552; published Jan. 3, 1928. Class 6.
Daggett & Ramsdell, New York, N. Y. Cold cream. 239,772; Mar. 13; Serial No. 249,950; published Dec. 27, 1927. Class 6.
De Bernardi, D. F., & Co., San Francisco, Calif. Vegetable salad oil. 239,788; Mar. 13; Serial No. 255,488; published Dec. 27, 1927. Class 46.
Delbon, Frank G., Brooklyn, N. Y. Metal shanks for shoes. 239,983; Mar. 13. Class 13.
Delco-Remy Corporation, Anderson, Ind., and Dayton, Ohio. Shock absorbers. 239,947; Mar. 13; Serial No. 251,656; published Jan. 3, 1928. Class 19.
De Nederlandsche Gist- & Spiritusfabriek to Nederlandsche Gist- Spiritus fabriek, doing business as E. Kiderlen, and as Netherlands Distilleries, and as Netherlands Steam Distillery Cy. Ld., Delft, Netherlands. Geneva. 66,575; renewed Dec. 10, 1927.
Denver Fire Clay Company, The, Denver, Colo. Clay. 239,739; Mar. 13; Serial No. 256,768; published Dec. 20, 1927. Class 1.
Denver Fire Clay Company, The, Denver, Colo. Refractory cement or mortar. 239,740; Mar. 13; Serial No. 256,767; published Dec. 27, 1927. Class 12.
Detroit Brass & Malleable Works, Detroit, Mich. Brass and malleable-metal valves and cocks. 239,765; Mar. 13; Serial No. 248,287; published Jan. 3, 1928. Class 13.
Dixie Battery Manufacturing Co. Bessemer, Ala. Storage batteries. 239,752; Mar. 13; Serial No. 254,656; published Dec. 27, 1927. Class 21.
Dorschler, Leonard L., Chicago, Ill. Soaps, soap powders, and metal polishes. 239,827; Mar. 13; Serial No. 234,826; published Jan. 3, 1928. Class 4.
Dowd, R. J., Knife Works, Beloit, Wis. Machine knives. 239,738; Mar. 13; Serial No. 257,153; published Jan. 3. 1928. Class 23.
Duarte-Monrovia Citrus Association, Duarte, Calif. Fresh citrus fruits. 239,793; Mar. 13; Serial No. 257,790; published Jan. 3, 1928. Class 46.
Dunlop Milling Company, The Clarksville, Tenn. Self-rising wheat flour. 239,876; Mar. 13; Serial No. 256,567; published Dec. 27, 1927. Class 46.
Dunlop Milling Company, The, Clarksville, Tenn. Wheat flour. 239,877; Mar. 13; Serial No. 256,566; published Dec. 27, 1927. Class 46.
Eagle Pencil Company, assignor to Eagle Pencil Company, New York, N. Y. Lead pencils. 69,248; renewed June 2, 1928.
Eagle Pencil Company, assignor to Eagle Pencil Company, New York, N. Y. Lead pencils. 69,625; renewed June 23, 1928.
Eastman Kodak Company, Rochester, N. Y. Photographic supplies. 67,012; renewed Jan. 14, 1928.
Eastman Kodak Company, Rochester, N. Y. Photograph apparatus, appliances, and instruments. 67,137; renewed Jan. 21, 1928.
Eatmor Chocolate Company. (See Pennsylvania Chocolate Company.)
Eaudemort Laboratories. (See Rugien, Rufus J.)
Edgett-Burnham Company. (See Wayne County Preserving Company, assignor.)
Elbs, John G. (See Star Egg Carrier & Tray Mfg. Co., assignor.)
Elco Paint Products, Inc., New York, N. Y. Paints, stains, primers, etc. 239,859; Mar. 13; Serial No. 255,974; published Dec. 27, 1927. Class 16.
Electro-Motive Engineering Corporation, New York, N. Y. Resistance units and grid leaks. 239,975; Mar. 13. Class 21.
Engleated, Knud, New York, N. Y. Tool steel. 239,941; Mar. 13; Serial No. 250,304; published Dec. 27, 1927. Class 14.
Esterly, Sarah A., doing business as Reading Biscuit Co., Reading, Pa. Pretzels and biscuits. 239,763; Mar. 13; Serial No. 247,753; published Dec. 27, 1927. Class 46.
Esterly, Sarah A., doing business as Reading Biscuit Co., Reading, Pa. Pretzels. 239,764; Mar. 13; Serial No. 247,754; published Dec. 27, 1927. Class 46.
Eugene Fruit Growers Association, Eugene, Oreg. Dried-prune candy bars. 239,900 Mar. 13; Serial No. 255,440; published Dec. 27, 1927. Class 46.
Everhot Heater Company, Detroit, Mich. Water heaters using oil or gas. 239,835; Mar. 13; Serial No. 256,814; published Jan. 3, 1928. Class 34.
Fairfield Engineering Company, The, Marion, Ohio. Conveyor apparatus for unloading, elevating, and conveying material such as coal, broken stone, cinders, etc. 239,976; Mar. 13. Class 23.
Farbenfabriken, Vormals Friedr. Bayer & Co., Elberfeld, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Scientific food and weak astringent. 31,388; renewed Mar. 8, 1928.
Farbenfabriken, Vormals Friedr. Bayer & Co., Elberfeld, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Artificial fertilizer. 31,409; renewed Mar. 8, 1928.
Farmstead, Stock & Home Company, Minneapolis, Minn. Periodical. 239,952; Mar. 13; Serial No. 252,463; published Nov. 22, 1927. Class 38.
Fate Products Co. (See Fries & Fries Co., The.)
Fawcett Publications, Inc., Robbinsdale, Minn. Publication. 239,881; Mar. 13; Serial No. 257,575; published Jan. 3, 1928. Class 38.
Felton Chemical Company, Inc., Brooklyn, N. Y. Natural vanilla, artificial vanilla, and compounds of the same. 239,928; Mar. 13; Serial No. 256,665; published Dec. 27, 1927. Class 46.
Field, Ser-Att B., doing business as the Field Laboratories, Erie, Pa. Washing powder and cleaner. 239,957; Mar. 13. Class 4.
Fiore, Giovani, New York, N. Y. Chemical preparation. 239,927; Mar. 13; Serial No. 256,607; published Dec. 27, 1927. Class 6.
Fishback Company, The, Indianapolis, Ind. Pancake flour, oats prepared for human food, syrup, and coffee. 239,825; Mar. 13; Serial No. 221,101; published Dec. 27, 1927. Class 46.
Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 239,799; Mar. 13; Serial No. 258,074; published Jan. 3, 1928. Class 46.
Flintkote Company, The, Boston, Mass. Shingles. 239,842; Mar. 13; Serial No. 256,291; published Dec. 13, 1927. Class 12.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 239,832; Mar. 13; Serial No. 256,923; published Dec. 13, 1927. Class 42.
Fox River Paper Company, Appleton, Wis. Writing paper. 239,884; Mar. 13; Serial No. 257,284; published Jan. 3, 1928. Class 37.

Frances Citrus Association, Tustin, Calif. Fresh grapes, fruits, and melons. 239,943; Mar. 13; Serial No. 250,232; published Jan. 3, 1928. Class 46.
Frankel, B., Co. Inc., The, New York, N. Y. Hair nets. 239,813; Mar. 13; Serial No. 222,282; published Dec. 8, 1925. Class 42.
Freedman Cut-Outs, Inc., New York, N. Y. Easels. 239,897; Mar. 13; Serial No. 255,911; published Jan. 3, 1928. Class 37.
French-Lustre Company, The. (See Holtz, Aaron.)
Fresno Vineyards Company, St. Louis, Mo. Grapejuice. 240,007; Mar. 13. Class 45.
Friedley-Voshardt Co., Chicago, Ill. Soaps and washing compounds. 239,769; Mar. 13; Serial No. 249,056; published Jan. 3, 1928. Class 4.
Friend & Beumer, Vici, Okla. Hair tonic. 239,883; Mar. 13; Serial No. 257,007; published Jan. 3, 1928. Class 6.
Fries & Fries Co., The, doing business as Fate Products Co., Cincinnati, Ohio. Astringents, astringent cerates, beauty creams, etc. 239,720; Mar. 13; Serial No. 257,623; published Dec. 27, 1927. Class 6.
Frisch Brothers, Wilmington, Del. Horn or other loud-speaking units for radio receiving sets. 239,826; Mar. 13;. Serial No. 221,605; published Sept. 20, 1927. Class 21.
Fuller Brush Company, The, Hartford, Conn. Metal polish. 239,898; Mar. 13; Serial No. 255,656; published Nov. 22, 1927. Class 4.
Garneau & De Bruyn, Inc., doing business as Bico Distributing Company, New York, N. Y. Canned vegetables. 239,768; Mar. 13; Serial No. 248,830; published Jan. 3, 1928. Class 46.
Grand Rapids Plaster Company, Grand Rapids, Mich. Plaster. 239,942; Mar. 13; Serial No. 250,341; published Dec. 27, 1927. Class 12.
Grigsby, Louis S., Washington, D. C. Newspaper columns. 239,889; Mar. 13; Serial No. 256,930; published Jan. 3, 1928. Class 38.
Guardent Laboratories. (See Johnson, Kenneth M.)
H. & J. Laboratories, Parkersburg, W. Va. Powder for the relief of headache or other aches or pains. 239,906; Mar. 13; Serial No. 257,360; published Dec. 27, 1927. Class 6.
Hall, Gardiner, Jr. Company, The, South Willington, Conn., and New York, N. Y. Thread. 239,715; Mar. 13; Serial No. 258,122; published Jan. 3, 1928. Class 43.
Hall, Gardiner, Jr. Company, The, South Willington, Conn., and New York, N. Y. Thread. 239,716; Mar. 13; Serial No. 258,120; published Jan. 3, 1928. Class 43.
Hanna, Mark C., doing business as Hanna Publishing Company, Milwaukee, Wis. Periodicals. 239,774; Mar. 13; Serial No. 257,728; published Jan. 3, 1928. Class 38.
Hannah's Style Smock. (See Lewis, Hannah.)
Hardtmuth, L. & C., Vienna, Austria; Budweis, Hungary; and London, England, assignor to Koh-I-Noor Bleistiftfabrik L. & C. Hardtmuth, Budweis, Czechoslovakia. Tracing cloth. 67,436; renewed Feb. 4, 1928.
Hendey Machine Company, The, Torrington, Conn. Lathes, shapers, milling machines, and centering machines. 239,987; Mar. 13. Class 23.
Hi Ski Medicine Co. (See Hobbs, W. H.)
Hills Brothers Company, The, New York, N. Y. Canned cranberry sauce. 239,865; Mar. 13; Serial No. 257,234; published Jan. 3, 1928. Class 46.
Hillyard Chemical Company, St. Joseph, Mo. Deodorant and disinfectant. 239,926; Mar. 13; Serial No. 256,726; published Dec. 27, 1927. Class 6.
Hobbs, W. H., doing business as Hi Ski Medicine Co., Atlanta, Ga. Liquid medicine. 239,911; Mar. 13; Serial No. 257,415; published Dec. 27, 1927. Class 6.
Hofer, E., & Sons, Salem, Oreg. Periodical. 239,729; Mar. 13; Serial No. 254,633; published Nov. 29, 1927. Class 38.
Holtz, Aaron, doing business as The French-Lustre Company, Portland, Oreg. Cleaning and polishing compound. 239,986; Mar. 13. Class 16.
Hood Rubber Company, Boston, to Hood Rubber Company, Watertown, Mass. India-rubber products. 31,616; renewed May 31, 1928.
Hoyle, Joshua, & Sons, Ltd., New York, N. Y. Cotton piece goods. 240,009; Mar. 13. Class 42.
Indiana Lamp Corporation, Connersville, Ind. Lenses for vehicle lamps. 239,754; Mar. 13; Serial No. 245,095; published Jan. 3, 1928. Class 33.
Industrial Gasket and Packing Co., The. (See Werfelman, George H.)
International Trade Papers, Inc., New York, N. Y. Pharmaceutical publication. 239,880; Mar. 13; Serial No. 257,629; published Jan. 3, 1928. Class 38.
Iowa Can Company, Keokuk, Iowa. Cardboard cans. 239,903; Mar. 13; Serial No. 257,239; published Jan. 3, 1928. Class 2.
Isaacs, Joel, Shirt Co., Inc., New York, N. Y. Men's negligee shirts. 239,829; Mar. 13; Serial No. 236,647; published Jan. 4, 1927. Class 39.
Jambor Tool & Stamping Company, Milwaukee, Wis. Automobile accessories. 239,770; Mar. 13; Serial No. 249,226; published Jan. 3, 1928. Class 23.
Jayne, Basil J., Vancouver, British Columbia, Canada. Shingles. 239,845; Mar. 13; Serial No. 264,289; published Dec. 13, 1927. Class 12.
Jobbing Association-Farmers Educational and Cooperative Union of America—Kansas Branch, The, Kansas City, Mo. Eggs. 239,949; Mar. 13; Serial No. 252,047; published Jan. 3, 1928. Class 46.
Johnson Canning Company, Biloxi, Miss. Canned shrimp and oysters. 239,875; Mar. 13; Serial No. 256,628; published Jan. 3, 1928. Class 46.
Johnson, Kenneth M., doing business as Guardent Laboratories, Winnipeg, Manitoba, Canada. Pyorrhea treatment and preventive and dentifrices. 239,954; Mar. 13; Serial No. 252,556; published Jan. 3, 1928. Class 6.
Karasick, Harry, Chicago, Ill. Medicine. 239,757; Mar. 13; Serial No. 246,689; published June 21, 1927. Class 6.
Kasser, Samuel, Philadelphia, Pa. Caps for bottles and bottle stoppers. 239,946; Mar. 13; Serial No. 251,397; published Nov. 29, 1927. Class 50.
Kathex Company, The. (See Levin, Philip.)
Kats & Ogush, Inc., New York, N. Y. Watches, watch-cases, and watch movements. 239,962; Mar. 13. Class 27.
Keebler Weyl Baking Company, Philadelphia, Pa. Crackers, wafers, biscuits, and jumbles. 239,847; Mar. 13; Serial No. 254,109; published Dec. 27, 1927. Class 46.
Kehlmann, L., Co., New York, N. Y. Flat-folding paper containers for merchandise. 239,935; Mar. 13; Serial No. 256,297; published Jan. 3, 1928. Class 2.
Keystone Leather Co., Philadelphia, Pa. Leather. 239,874; Mar. 13; Serial No. 256,629; published Dec. 27, 1927. Class 1.
Kiderlen, E. (See De Nederlandsche Gist- & Spiritusfabriek.)
Kip Corporation, The, Los Angeles, Calif. Salves. 239,899; Mar. 13; Serial No. 255,561; published Jan. 3, 1928. Class 6.
Kitto, William H., doing business as Cadillac Radio Mfg. Co., Detroit, Mich. Radio battery consoles and cabinets. 239,814; Mar. 13; Serial No. 222,075; published Jan. 18, 1927. Class 32.
Kleinert, I. B., Rubber Company, New York, N. Y. Combination brassière and dress shields. 239,924; Mar. 13; Serial No. 239,886; published Jan. 11, 1927. Class 39.
Koh-I-Noor Bleistiftfabrik L. & C. Hardtmuth. (See Hardtmuth, L. & C., assignor.)
Kraft, Dr. Ernst, vorm. Boxberger's Hofapotheke, Bad Kissingen, Germany. Alteratives, antacids, antirheumatics, etc. 239,815–16; Mar. 13; Serial Nos. 222,035–6; published Jan. 3, 1928. Class 6.
Kress, S. H., & Co., New York, N. Y. Sanitary napkins. 239,907–10; Mar. 13; Serial Nos. 257,367–70; published Dec. 27, 1927. Class 44.
Kunin, Samuel, & Sons, doing business as The Pilzenbrau Co., Chicago, Ill. Malt extract. 239,787; Mar. 13; Serial No. 255,449; published Dec. 27, 1927. Class 46.
Lambert Pharmacal Company, Wilmington, Del. Saponaceous paste commonly known as shaving cream. 239,895; Mar. 13; Serial No. 256,126; published Nov. 29, 1927. Class 4.
Larabee Flour Mills Company, The, Kansas City, Mo. Wheat flour. 239,965; Mar. 13. Class 46.
La Ray Pharmacal Laboratory. (See Pinkinson, Jacob.)
Lasco Shellac and Lacquer Company, Baltimore, Md. Spirit varnish. 239,807; Mar. 13; Serial No. 230,455; published Dec. 27, 1927. Class 16.
Laves, Ernst, Dr., Hanover, Germany. Remedy. 239,755–6; Mar. 13; Serial Nos. 246,165–6; published Dec. 27, 1927. Class 6.
Lederer, Alvin, doing business as Lederer Supply and Equipment Co., Scranton, Pa. Throwsters' dyes and throwsters' tints. 240,004; Mar. 13. Class 6.
Leibman and Hurwitz, New York, N. Y. Misses' and women's coats. 239,996; Mar. 13. Class 39.
Lentheric, Inc., New York, N. Y. Soap. 239,882; Mar. 13; Serial No. 257,481; published Jan. 3, 1928. Class 4.
Levin, Philip, doing business as The Kathex Company, New York, N. Y. Antiseptic toilet powders. 239,931; Mar. 13; Serial No. 256,467; published Dec. 27, 1927. Class 6.
Lewis, Hannah, doing business as Hannah's Style Smock, New York, N. Y. Smocks. 240,013; Mar. 13. Class 39.
Liquo-Gas Company, Erie, Pa. Oil-burning systems. 239,932; Mar. 13; Serial No. 256,412; published Jan. 3, 1928. Class 34.
Lobl Manufacturing Company, The, Middleboro, Mass. Hot-water bottles, ice bags, and fountain syringes. 239,822; Mar. 13; Serial No. 206,674; published Feb. 10, 1926. Class 44.
Loewe, Maurice, Paris, France. Perfumes. 239,915; Mar. 13; Serial No. 242,731; published May 31, 1927. Class 6.
Long, Chas. R., jr., Co., Louisville, Ky. Paint. 70,006; renewed July 21, 1928.
Lowe, Joe, Co. Inc., Brooklyn, N. Y. Milk and chocolate beverage. 239,921; Mar. 13; Serial No. 239,256; published Dec. 27, 1927. Class 46.
Luckey Lime & Supply Co., The, Luckey, Ohio. Agricultural lime. 240,005; Mar. 13. Class 10.

Lucky Life Distributing Co., Philadelphia, Pa. Malt sirup. 239,784; Mar. 13; Serial No. 254,464; published Dec. 27, 1927. Class 46.
Lyons, I. L., & Company, Limited, New Orleans, La. Writing tablets. 239,893; Mar. 13; Serial No. 256,257; published Jan. 3, 1928. Class 37.
M-&-W Chemical Company, Chicago, Ill. Hair preparation. 239,922; Mar. 13; Serial No. 239,308; published Jan. 4, 1927. Class 6.
Malted Cereals Company, The, Burlington, Vt. Cereal breakfast foods and wheat flour. 239,861; Mar. 13; Serial No. 257,688; published Jan. 3, 1928. Class 46.
Mason City Brick & Tile Company, to Mason City Brick & Tile Company, Mason City, Iowa, successor. Building materials. 67,116; renewed Jan. 14, 1928.
Mason Fibre Company, Laurel, Miss. Fibre board, thermal insulating board, composite board, construction board, synthetic lumber or artificial lumber, and hard board. 239,977; Mar. 13. Class 12.
Masteller Coal Company, The, Keyser, W. Va. Coal. 239,850; Mar. 13; Serial No. 253,680; published Nov. 1, 1927. Class 1.
Matchless Metal Polish Co., The, New York, N. Y., and Chicago, Ill., to The Matchless Metal Polish Co., Chicago, Ill., and Glen Ridge, N. J., Abrasive material. 69,831; renewed July 7, 1928.
Mathieu, Grace E., New York, N. Y. Glass globes for lighting fixtures. 239,811; Mar. 10; Serial No. 222,625; published Mar. 23, 1926. Class 33.
Maxcy, L., Inc., Frostproof, Fla. Fruits. 239,871; Mar. 13; Serial No. 256,959; published Jan. 3, 1928. Class 46.
McCullough's, J. M., Sons Co., The, Cincinnati, Ohio. Seeds, plants, and bulbs. 239,916; Mar. 13; Serial No. 243,008; published Apr. 5, 1927. Class 1.
McGrath, William J., Little Rock, Ark. Candy. 239,773; Mar. 13; Serial No. 249,979; published Jan. 3, 1928. Class 46.
Meador and Young, Incorporated, Nashville, Tenn. Coal. 239,917; Mar. 13; Serial No. 243,101; published Apr. 5, 1927. Class 1.
Meyrowitz, E. B., Inc., New York, N. Y. Device used as an aid to hearing. 239,786; Mar. 13; Serial No. 255,387; published Dec. 27, 1927. Class 44.
Michigan Automobile Tours. (See Brown, James H.)
Miller, I., & Sons, Inc., Long Island City, N. Y. Traveling bags, hand bags, trunks, etc. 239,840; Mar. 13; Serial No. 256,362; published Dec. 27, 1927. Class 3.
Miller's, Jacob, Sons Co., Inc., Philadelphia, Pa. Cotton goods, silk goods and linen goods and mixtures of cotton and silk and linen and silk in the piece goods. 239,988; Mar. 13. Class 42.
Mina Company, The. (See Notovitz, J., Inc.)
Mohawk Conduit Co., Inc., Cohoes, N. Y. Rigid electrical conduit. 239,802–4; Mar. 13; Serial Nos. 233,889–91; published Aug. 3, 1926. Class 21.
Mohn, Albert, Bergen, Norway. Cod-liver oil. 239,761; Mar. 13; Serial No. 247,555; published June 14, 1927. Class 6.
Montana Flour Mills Company, Lewistown, Mont. Wheat flour. 239,794; Mar. 13; Serial No. 257,844; published Jan. 3, 1928. Class 46.
Moore & Handley Hardware Company, assignor to Moore-Handley Hardware Company, Birmingham, Ala. Tools and tool handles. 68,728; renewed Apr. 28, 1928.
Moore & Handley Hardware Company, assignor to Moore-Handley Hardware Company, Birmingham, Ala. Tools. 68,729; renewed Apr. 28, 1928.
Moore & Handley Hardware Company, assignor to Moore-Handley Hardware Company, Birmingham, Ala. Cutlery. 68,730; renewed Apr. 28, 1928.
Morgan Company, The, Peoria, Ill. Paint filler and sealer. 239,995; Mar. 13. Class 16.
Morris and Company, Incorporated, Baltimore, Md. Union suits. 239,991; Mar. 13. Class 39.
Mount Zircon Spring Company, Boston, Mass., assignor to Mt. Zircon Spring Water Co., Rumford, Me., Spring water. 30,629; renewed Oct. 6, 1927.
Murray, Lou, New York, N. Y. Ladies', women's, and children's wearing apparel. 239,997; Mar. 13. Class 39.
Mutual Orange Distributors, Redlands, Calif. Fresh deciduous fruits, fresh grapes, etc. 239,869–70; Mar. 13; Serial Nos. 256,962–3; published Jan. 3. 1928. Class 46.
Myers, Gus, Fargo, N. Dak. Sandwiches. 239,781; Mar. 13; Serial No. 257,759; published Jan. 3. 1928. Class 46.
Naef, M., & Co., Geneva, Switzerland. Perfumes and essential oils. 239,733; Mar. 13; Serial No. 253,476; published Jan. 3, 1928. Class 6.
National Auto Varnispar Co., Inc., Louisville, Ky. Varnishes, paint enamels, etc. 239,919; Mar. 13; Serial No. 244,363; published May 3, 1927. Class 16.
National Biscuit Company, New York, N. Y. Biscuit, cake, and crackers. 239,839; Mar. 13; Serial No. 256,416; published Dec. 27, 1927. Class 46.
National Employment Exchange, New York, N. Y. Magazine. 239,779; Mar. 13; Serial No. 257,989; published Jan. 3, 1928. Class 38.
Netherlands Distilleries. (See De Nederlandsche Gist- & Spiritusfabriek.)
New England Road Builders Association, Boston, Mass. Publications. 239,886; Mar. 13; Serial No. 257,077; published Jan. 3, 1928. Class 38.
Newichawanick Company, South Berwick, Me. Textile goods. 239,762; Mar. 13; Serial No. 247,700; published Jan. 3, 1928. Class 42.
New Method Book Bindery, Inc., Jacksonville, Ill. Printed books. 240,012; Mar. 13. Class 38.
New York Canners Inc., Rochester, N. Y. Canned fruits, vegetables, fruit preserves, etc. 239,766; Mar. 13; Serial No. 248,340; published Dec. 27, 1927. Class 46.
New York Canners Inc., Rochester, N. Y. Cannd vegetables, canned fruits, etc. 239,771; Mar. 13; Serial No. 249,370; published Dec. 27, 1927. Class 46.
New York Coal Company, Columbus, Ohio. Coal. 239,745; Mar. 13; Serial No. 256,478; published Dec. 13, 1927. Class 1.
New York Condensed Milk Company, assignor, by mesne assignments, to The Borden Company, New York, N. Y. Condensed milk, coffee, cocoa, and coffee extract. 31,752; renewed June 28, 1928.
No Klank Chain Company, Providence, R. I. Tire chains. 239,989; Mar. 13. Class 13.
Norris, Arthur J., Greenwich, Conn. Cotton, silk, artificial silk, and wool curtains, portières, and draperies. 239,978; Mar. 13. Class 42.
Norwich Pharmacal Company, The, Norwich, N. Y. Talcum powder. 239,726; Mar. 13; Serial No. 254,929; published Jan. 3, 1928. Class 6.
Notovitz, J., Inc., doing business as The Mina Company, Chicago, Ill. Face cream and powder, toilet water, hair dye, etc. 239,901; Mar. 13; Serial No. 257,079; published Dec. 27, 1927. Class 6.
Nuform Corporation, Newton, Iowa. Sanitary napkins. 239,992; Mar. 13. Class 44
Nutrine Candy Company, Chicago, Ill. Candy. 239,878; Mar. 13; Serial No. 256,536; published Jan. 3, 1928. Class 46.
Oakland Chemical Company, The, New York, N. Y. Antiseptic and disinfectant. 239,727; Mar. 13; Serial No. 254,815; published Jan. 3, 1928. Class 6.
Ohio Hydrate & Supply Company, The, Woodville, Ohio. Lime in powdered form. 239,746–8; Mar. 13; Serial Nos. 255,863–5; published Dec. 27, 1927. Class 12.
Oneida Community, Limited, Oneida, N. Y. Traylike receptacles. 239,925; Mar. 13; Serial No. 241,895; published Jan. 3, 1928. Class 2.
Oneida County Canning Co. Ltd., Verona, N. Y. Canned fruits and vegetables. 69,028–9; renewed May 12, 1928.
Orange Crush Company, Chicago, Ill. Nonalcoholic, noncereal, maltless beverages and compounds for making the same. 239,981; Mar. 13. Class 45.
Pacific Marine Products Co. (See Rex, M. A.)
Palmolive-Peet Company, The, Chicago, Ill. Soap. 239,724–5; Mar. 13; Serial Nos. 255,071–2; published Jan. 3, 1928. Class 4.
Palmolive-Peet Company, The, Chicago, Ill. Soap. 239,731; Mar. 13; Serial No. 253,908; published Jan. 3, 1928. Class 4.
Parfums Emilienne Manassé, Société à Responsabilité Limitée, Paris, France. Perfumes, toilet water, face creams, etc. 239,719; Mar. 13; Serial No. 257,633; published Dec. 27, 1927. Class 6.
Parfums Emilienne Manassé, Société à Responsabilité Limitée, Paris, France. Perfumed and toilet soaps. 239,734; Mar. 13; Serial No. 257,634; published Jan. 3, 1928. Class 4.
Parke, Davis & Company, Detroit, Mich. Extract of gland tissue. 239,782; Mar. 13; Serial No. 253,439; published Nov. 22, 1927. Class 6.
Paver, J. M., Company, The, Chicago, Ill. Canned vegetables. 239,873; Mar. 13; Serial No. 256,742; published Jan. 3, 1928. Class 46.
Pennsylvania Chocolate Company, Pittsburgh, to Eatmor Chocolate Company, Reading, Pa., successor. Chocolate and candy. 69,015; renewed May 12, 1928.
Peoria Malt Food Products Company, Peoria, Ill. Malt sirup and malt extracts for food purposes. 239,809; Mar. 13; Serial No. 226,737; published June 29, 1926. Class 46.
Phillips, Morris G. P., London, England. Tobacco-leaf-stripping machines and machinery used in connection with the manufacture of tobacco. 239,736; Mar. 13; Serial No. 257,511; published Jan. 3, 1928. Class 23.
Phoenix Portland Cement Company, Nazareth, Pa. Portland cement. 239,848; Mar. 13; Serial No. 253,954; published Dec. 20, 1927. Class 12.
Pickens Mill, Pickens, S. C. Sheetings and drillings. 69,526; renewed June 16, 1928.
Piedmont-Mt. Airy Guano Co., Baltimore, Md. Fertilizer. 239,817; Mar. 13; Serial No. 235,751; published Jan. 3, 1928. Class 10.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 239,864; Mar. 13; Serial No. 257,439; published Dec. 27, 1927. Class 46.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 239,958; Mar. 13. Class 46.
Pilzenbrau Co., The. (See Kunin, Samuel, & Sons.)
Pine-O-Pine Company, Houston, Tex. Detergent for laundries and dry-cleaning plants. 239,818; Mar. 13; Serial No. 236,092; published Nov. 30, 1926. Class 4.
Pinkinson, Jacob, doing business as La Ray Pharmacal Laboratory, Los Angeles, Calif. Medicinal wine. 239,856; Mar. 13; Serial No. 256,139; published Dec. 27, 1927. Class 6.

Porcelain Enamel and Manufacturing Company of Baltimore, The, Baltimore, Md. Furniture. 239,758; Mar. 13; Serial No. 246,706; published Jan. 8, 1928. Class 32.
Posner, Dr. A., Shoes, Inc., New York, N. Y. Shoes made of leather, rubber, fabric, or combinations thereof. 239,903; Mar. 13. Class 39.
Potts Powder Company, The, Reynolds, Pa., and New York, N. Y., assignor to Atlas Powder Company, Wilmington, Del. Gelatin dynamite. 68,556; renewed Apr. 14, 1928.
Potts Powder Company, The, Reynolds, Pa., and New York, N. Y., assignor to Atlas Powder Company, Wilmington, Del. Nitroglycerin dynamite. 68,557; renewed Apr. 14, 1928.
Prina, Frank R., Corporation, The, New York, N. Y. Semolina, a product made from wheat. 239,860; Mar. 13; Serial No. 257,703; published Jan. 3, 1928. Class 46.
Prince, H. G., & Co., Fruitvale, Calif. Tomato chili sauce. 239,930; Mar. 13; Serial No. 256,484; published Dec. 27, 1927. Class 46.
Racing Intelligence Corporation, New York, N. Y. Periodical. 239,775–6; Mar. 13; Serial Nos. 257,814–15; published Jan. 3, 1928. Class 38.
Reading Biscuit Co. (See Esterly, Sarah A.)
Reid, Murdoch & Co., Chicago, Ill. Pop corn. 239,867; Mar. 13; Serial No. 257,081; published Jan. 3, 1928. Class 46.
Rex, M. A., doing business as California Sea Food Co., also doing business as Pacific Marine Products Co., Los Angeles and East San Pedro, Calif. Canned fish. 239,821; Mar. 13; Serial No. 205,622; published Jan. 3, 1928. Class 46.
Richards Company, Inc., Boston, Mass. Solder. 239,902; Mar. 13; Serial No. 257,197; published Dec. 27, 1927. Class 14.
Richardson, Mary E., Washington, D. C. Hair refiner. 239,923; Mar. 13; Serial No. 239,593; published Feb. 8, 1927. Class 6.
Ridenour-Baker Grocery Co., Kansas City, Mo. Canned fruits and vegetables. 67,194; renewed Jan. 21, 1928.
Robinson & Golluber, New York, N. Y. Cotton piece goods. 239,980; Mar. 13. Class 42.
Rockwood & Co., New York, N. Y. Chocolates. 239,863; Mar. 13; Serial No. 257,600; published Jan. 3, 1928. Class 46.
Rosenberg, Abraham, doing business as Apt Pen Co., Brooklyn, N. Y. Self-filling fountain pens, pencils, writing paper, etc. 239,728; Mar. 13; Serial No. 254,650; published Jan. 3, 1928. Class 37.
Royal Electrotype Company, Philadelphia, Pa. Electrotypes. 239,760; Mar. 13; Serial No. 247,391; published Dec. 27, 1927. Class 50.
Royal Food Company, Berkeley, Calif. Mayonnaise. 239,918; Mar. 13; Serial No. 244,109; published Dec. 27, 1927. Class 46.
Rugien, Rufus J., doing business as Eaudemort Laboratories, Detroit, Mich. Deodorant, disinfectant, and moth exterminator. 240,003; Mar. 13. Class 6.
Sager Pen Corporation, The, Chicago, Ill., and New York, N. Y. Pens and pen points. 239,890–2; Mar. 13; Serial Nos. 256,424–6; published Jan. 3, 1928. Class 37.
St. Louis Crystal Water and Soda Co., St. Louis, Mo. Nonalcoholic, noncereal, maltless beverages and concentrates for making the same. 239,985; Mar. 13. Class 45.
Saline Products, Inc., Los Angeles, Calif. Calcium chloride. 239,914; Mar. 13; Serial No. 257,561; published Dec. 27, 1927. Class 6.
Sanford, S. T. W., & Sons, to Sanford Soles Corp., Long Island City, N. Y., successor. Remedy for diseases of the liver. 68,249; renewed Mar. 17, 1928.
Sanlo Manufacturing Company. (See Braithwaite, Herbert F.)
Schicht, Georg, A. G., Aussig, Czechoslovakia. Cold cream, vanishing cream, perfumes, toilet water, etc. 239,723; Mar. 13; Serial No. 255,205; published Jan. 3, 1928. Class 6.
Schultz, Baujan & Company, Beardstown, Ill. Wheat flour. 239,862; Mar. 13; Serial No. 257,637; published Dec. 27, 1927. Class 46.
Schwabacher Bros. & Co. Inc., Seattle, Wash. Table salt. 239,805; Mar. 13; Serial No. 232,521; published July 13, 1926. Class 6.
Schwarz, Firm of F. A. O., The, to F. A. O. Schwarz, New York, N. Y. successof. Toys, dolls, and games. 31,840; renewed Aug. 2, 1928.
Sears, Roebuck and Co., Chicago, Ill. Scissors. 239,984; Mar. 13; Class 23.
Shapiro Manufacturing Company, Philadelphia, Pa. Tire spreaders. 239,750; Mar. 13; Serial No. 255,087; published Jan. 3, 1928. Class 23.
Silvergio Lamps, Inc., Baltimore, Md. Billiard-table reflectors. 239,785; Mar. 13; Serial No. 255,356; published Jan. 3, 1928. Class 34.
Simmons Hardware Company, St. Louis, Mo., to Simmons Hardware Company, New Haven, Conn. Tools. 70,084; renewed July 28, 1928.
Simon, Alfred L., & Company, New York, N. Y. Boxes, baskets, etc. 239,790; Mar. 13; Serial No. 255,939; published Jan. 3, 1928. Class 2.
Singer Manufacturing Company, The, New York, N. Y., to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machines and attachments. 69,900–1; renewed July 14, 1928.
Smith Bros. Mfg. Co., Carthage, Mo. Men's and boys' suits. 239,955; Mar. 13; Serial No. 252,739; published Nov. 15, 1927. Class 39.
Smith, Valentine H., & Co., Incorporated, Philadelphia, Pa. Liquid expectorant and sedative for coughs, colds, etc. 239,912; Mar. 13; Serial No. 257,514; published Dec. 27, 1927. Class 6.
Société des Etablissements Louis Rigal, Roquefort, France. Roquefort cheese. 239,844; Mar. 13; Serial No. 256,269; published Dec. 27, 1927. Class 46.
Societe En Nom Collectif M. & L. Biette Freres, Nantes, France. Soaps. 239,735; Mar. 13; Serial No. 257,001; published Jan. 3, 1928. Class 4.
Solberg, Arthur, doing business as Catskill Paint & Varnish Co., Chicago, Ill. Paints, enamels, and varnishes. 239,831; Mar. 13; Serial No. 256,970; published Dec. 27, 1927. Class 16.
Solo-Horton Brush Company, Incorporated, New York, N. Y. Artist and sign-writers' brushes, paintbrushes, etc. 239,982; Mar. 13. Class 29.
Standard Electric Products, Inc., Philadelphia, Pa. Electric meat choppers and coffee mills. 240,010; Mar. 13. Class 21.
Star Egg Carrier & Tray Mfg. Co., assignor to John G. Elbs, Rochester, N. Y. Egg carriers and trays. 68,678; renewed Apr. 21, 1928.
Statesville Flour Mills Co., Statesville, N. C. Flour. 239,951; Mar. 13; Serial No. 252,253; published Dec. 27, 1927. Class 46.
Stuart, Jean, Cosmetics, Inc., New Haven, Conn. Astringents, bath salts, bleaching lotion, etc. 239,857; Mar. 13; Serial No. 256,125; published Dec. 27, 1927. Class 6.
Summit Thread Company, East Hampton, Conn., and Boston, Mass. Sewing-machine threads. 239,714; Mar. 13; Serial No. 258,145; published Jan. 3, 1928. Class 43.
Suncrest Packers, Inc., Berkeley, Calif. Table beverage made from prunes and cereals. 239,999; Mar. 13. Class 46.
Switzer, Frederick M., doing business as Switzer's Yellow Jacket Company, St. Louis, Mo. Candy. 70,061; renewed July 28, 1928.
Tannenbaum, Isidor, doing business as I. Tannenbaum Co., New York, N. Y. Watches, watchcases, watch movements, and parts thereof. 239,960; Mar. 13. Class 27.
Tanqueray Gordon & Co. Limited, assignor, by mesne assignments, to Tanqueray Gordon & Co., Limited, London, England. Gin. 68,640; renewed Apr. 21, 1928.
Todaro, Paul, & Co., New York, N. Y. Olive oil, tunny fish, canned sardines, macaroni, etc. 239,940; Mar. 13; Serial No. 253,227; published Dec. 27, 1927. Class 46.
Trang Corporation, New York, N. Y. Doughnuts. 239,819; Mar. 13; Serial No. 235,440; published Jan. 3. 1928. Class 46.
Trimette Company, New York, N. Y. Hair-trimming attachment for razors. 239,741; Mar. 13; Serial No. 256,643; published Jan. 3, 1928. Class 23.
Twitchell-Champlin Company, The, Portland, Me., and Boston, Mass. Canned green-pea soup, consomme soup, vegetable soup, etc. 239,945; Mar. 13; Serial No. 251,311; published Dec. 27, 1927. Class 46.
Underwood Typewriter Company, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machines and parts. 68,628; renewed Apr. 21, 1928.
Ungarische Gummiwaarenfabriks Actiengesellschaft, Budapest, Hungary. Rubber and asbestos packing. 68,839; renewed Apr. 28, 1928.
United States Bunting Co., to U. S. Bunting Co., Lowell, Mass., successor. Bunting. 69,653; renewed June 23, 1928.
Van Goodsnover, Leo, doing business as Van Goodsnover Bros. & Co., Chicago, Ill. Soap. 239,887; Mar. 13; Serial No. 257,041; published Jan. 3, 1928. Class 4.
Vani-Shine Manufacturing Co. (See Cino Chemical Products Co., The.)
Vee-Bee Products Company, Newark, N. J. Medicated chewing gum. 239,948; Mar. 13; Serial No. 251,697; published Dec. 27, 1927. Class 6.
Vietmeyer Bros., Inc., Jersey City, N. J. Bread. 239,798; Mar. 13; Serial No. 258,050; published Jan. 3, 1928. Class 46.
Vietmeyer Bros., Inc., Jersey City, N. J. Bread. 239,800; Mar. 13; Serial No. 258,051; published Jan. 3, 1926. Class 46.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 68,322; renewed Mar. 31, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 69,051; renewed May 19, 1928.

Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 69,764; renewed July 7, 1928.

Von Lengerke & Detmold, assignor to Von Lengerke & Detmold, Inc., New York, N. Y. Paper shot shells. 69,556; renewed June 23, 1928.

Waldberg & Co., G. m. b. H., Berlin, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Chemical nickel salt. 67,986; renewed Mar. 3, 1928.

Wallerstein Company, Inc., New York, N. Y. Caramel-sugar color. 239,780; Mar. 13; Serial No. 258,005; published Jan. 3, 1928. Class 6.

Wallerstein Company, Inc., New York, N. Y. Caramel-sugar color. 239,801; Mar. 13; Serial No. 258,006; published Jan. 3, 1926. Class 6.

Washington Shirt Company, The, Chicago, Ill. Men's overshirts of woven material. 67,238; renewed Jan. 28, 1928.

Wayne County Preserving Company, assignor to Edgett-Burnham Company, Newark, N. Y. Bottled, canned, preserved, evaporated, and pickled fruits and vegetables. 69,599; renewed June 1928.

Werfelman, George H., doing business as The Industrial Gasket and Packing Co., Los Angeles, Calif. Compound used to keep the interior of boilers in a scale and rust proof condition. 239,732; Mar. 13; Serial No. 253,521; published Dec. 27, 1927. Class 6.

Western Leather Mfg. Co., Chicago, Ill. Leather goods. 67,847; renewed Feb. 18, 1928.

Widdis, Albert, Harrisville, Mich. Soil treatment and conditioning materials. 239,936–9; Mar. 13; Serial Nos. 256,230–3; published Jan. 3, 1928. Class 10.

Williams Institute, Inc., The, Glendale, Calif. Periodical. 239,753; Mar. 13; Serial No. 257,719; published Jan. 3, 1928. Class 38.

Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Liquid-fuel-burning devices. 239,830; Mar. 13; Serial No. 256,984; published Jan. 3, 1928. Class 34.

Wolf, Jacques, & Co., Passaic, N. J. Acetate of alumina, citrate of alumina, etc. 239,759; Mar. 13; Serial No. 246,752; published Dec. 27, 1927. Class 6.

Wolverine Brass Works, Grand Rapids, Mich. Plumbing supplies. 69,312–13; renewed June 2, 1928.

Wonderkode, Inc., New York, N. Y. Music books, musical compositions, etc. 239,778; Mar. 13; Serial No. 257,950; published Jan. 3, 1928. Class 38.

Wood, Charles E., Incorporated, New York, N. Y. Crude rubber and rubber crepe. 239,841; Mar. 13; Serial No. 256,320; published Dec. 20, 1927. Class 1.

Woolley, Salve Company, The, to Sarah E. Bowers, Lancaster, Pa., successor. Salve. 69,498; renewed June 16, 1928.

Yukon Club Company, East Orange, N. J. Ginger ale. 239,767; Mar. 13; Serial No. 248,455; published Jan. 3, 1928. Class 45.

Yvette Co., New York, N. Y. Therapeutic electric lamps. 239,929; Mar. 13; Serial No. 256,645; published Dec. 27, 1927. Class 44.

Zoological Society of San Diego, San Diego, Calif. Bimonthly magazine. 239,806; Mar. 13; Serial No. 231,714; published Jan. 3, 1928. Class 38.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aplink Orchards. (See Ink, James.)

Ardelle, Helen, Candy Company, Seattle, Wash. Radio-Maid. For Candy. 33,597; Mar. 13.

Cowles Detergent Co., The, Cleveland, Ohio. Sol-Esco. For a Patented Cleaning Compound. 33,598; Mar. 13.

Folly Town Company, The, Chicago, Ill. Pango Pango. For Candy. 33,599; Mar. 13.

Fort Howard Paper Company, Green Bay, Wis. Genesee. For Toilet Paper. 33,600; Mar. 13.

Gallagher, S. J., Inc., Brawley, Calif. Killarney. For Lettuce. 33,601; Mar. 13.

Gianni, Joseph, doing business as The Gianni Laboratories, Lynn, Mass. Joseph's Herb Medicine. For Medicine for the Relief of Asthma, Consumption, and Colds. 33,602; Mar. 13.

Ink, James, doing business as Aplink Orchards, Canton, Ohio. Aplink Orchards. For Apple Juice. 33,603; Mar. 13.

Krier Preserving Company, Belgium, Wis. Little Nemo. For Canned Peas. 33,604; Mar. 13.

Lee & Knobel, Los Angeles, Calif. Fearless. For Lettuce. 33,605; Mar. 13.

Lopez, Dr. Ramon G., doing business as Spanish Salt Company, Los Angeles, Calif. Spanish Salt. For Medicinal Salt. 33,606; Mar. 13.

Milwaukee Paper Box Co., The, Milwaukee, Wis. Irene Assortment Every Evening Chocolates. For Candy. 33,607; Mar. 13.

Monte Vista Citrus Association, Riverside, Calif. Golden Rule. For Fresh Oranges. 33,608; Mar. 13.

Monte Vista Citrus Association, Riverside, Calif. La Mesa. For Fresh Oranges. 33,609; Mar. 13.

Nutricia Farms Company, Thiensville, Wis. Nutricia Holstein Milk, Pasteurized, Selected Drinking Milk. For Milk. 33,610; Mar. 13.

O. K. Distilled Soda Water Co., Ltd., Honolulu, Hawaii. Tower. For Ginger Ale. 33,611; Mar. 13.

Phillips Packing Co., Cambridge, Md. Phillips. For Tomato Catsup. 33,612; Mar. 13.

Quinby & Wallace, Morris, N. Y. Arianne Sweets. For Candy. 33,613; Mar. 13.

Raindrop Chemical Company, Streator, Ill. Raindrops. For Combined Powdered Soap and Water Softener. 33,614; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Tomato Puree. For Tomato Purée. 33,615; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Cut Wax Beans. For Cut Wax Beans. 33,616; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Fancy Wax Beans. For Fancy Wax Beans. 33,617; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Asparagus Tips. For Asparagus Tips. 33,618; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Peach Preserves. For Peach Preserves. 33,619; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Blackberry Preserves. For Blackberry Preserves. 33,620; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Plum Preserves. For Plum Preserves. 33,621; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Pineapple Preserves. For Pineapple Preserves. 33,622; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Nectar Preserves. For Nectar Preserves. 33,623; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Strawberry Preserves. For Strawberry Preserves. 33,624; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Raspberry Preserves. For Raspberry Preserves. 33,625; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Loganberry Preserves. For Loganberry Preserves. 33,626; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Apricot Preserves. For Apricot Preserves. 33,627; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Tomatoes. For Tomatoes. 33,628; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Distilled White Vinegar. For White Vinegar. 33,629; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Reduced Cider Vinegar. For Cider Vinegar. 33,630; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Selected Queen Olives. For Queen Olives. 33,631; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Pure Currant Jelly. For Pure Currant Jelly. 33,632; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Apple Butter. For Apple Butter. 33,633; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Selected Manzanilla Olives. For Manzanilla Olives. 33,634; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Pure Grape Jelly. For Pure Grape Jelly. 33,635; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Wax Beans. For Extra Choice Wax Beans, Also Cut Wax Beans. 33,636; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Green Beans. For Extra Choice Green Beans, Also Cut Green Beans. 33,637; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Dainty Green Lima Beans. For Dainty Green Lima Beans. 33,638; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Chili Sauce. For Chili Sance. 33,639; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Mayonnaise. For Mayonnaise. 33,640; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Crushed Hawaiian Pineapple. For Crushed Pineapple. 33,641; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Spiced Jelly Drops. For Candy. 33,642; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Red Kidney Beans. For Red Kidney Beans. 33,643; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Yellow Cling Peaches. For Peaches. 33,644; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Sliced Hawaiian Pineapple. For Pineapple. 33,645; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Country Gentleman Corn. For Corn. 33,646; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Bartlett Pears. For Bartlett Pears. 33,647; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Sweet Girl Brand Pumpkin. For Pumpkin. 33,648; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Peas. For Extra Sifted Peas, Sifted Peas, Tiny Sifted Peas, Fancy Extra Sifted Peas, and Select Peas. 33,649; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Lemon Cookies. For Lemon Cookies. 33,650; Mar. 13.

Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Sugar Cookies. For Sugar Cookies. 33,651; Mar. 13.

Rio Grande Valley Vegetable Grower's Exchange, Mercedes, Tex. Red Owl. For Fresh Carrots. 33,652; Mar. 13.

Rockford Macaroni Mfg. Co., Rockford, Ill. The Rockford Brand. For Macaroni. 33,653; Mar. 13.

Seely, Perry E., doing business as Seely Confection Company, Los Angeles, Calif. Syrian Sausage. For a Food Confection. 33,654; Mar. 13.

Seely, Perry E., doing business as Seely Confection Company, Los Angeles, Calif. Persian Sausage. For a Food Confection. 33,655; Mar. 13.

Seely, Perry E., doing business as Seely Confection Company, Los Angeles, Calif. Hawaiian Sausage. For a Food Confection. 33,656; Mar. 13.

Seely, Perry E., doing business as Seely Confection Company, Los Angeles, Calif. Meat Ball. For a Food Confection. 33,657; Mar. 13.

Seely, Perry E., doing business as Seely Confection Company, Los Angeles, Calif. Oriental Sausage. For a Food Confection. 33,658; Mar. 13.

Simon Bros. Co. Inc., Madison, Wis. Simon Pure. For Canned Salmon. 33,659; Mar. 13.

Spanish Salt Company. (See Lopez, Dr. Ramon G.)

Stiro, Domenick, doing business as Stiro's Health Laboratories, Brooklyn, N. Y. Iron Tonic. For a Medicinal Preparation. 33,660; Mar. 13.

Strombeck-Becker Mfg. Co., Moline, Ill. De-Luxe Ten Pins. For De-Luxe Tenpins—Namely, a Game of Skill. 33,661; Mar. 13.

Suarez, Ray, & Company, Inc., New York, N. Y. Oxford Arms. For Cigars. 33,662; Mar. 13.

Twee Chemical Company. (See Williams, J. A.)

Utah Canning Co., The, Ogden, Utah. Roly-Poly. For Canned Tomatoes. 33,663; Mar. 13.

Williams, J. A., doing business as Twee Chemical Company and The Twee Company, Fort Wayne, Ind. La Dawn. For Cosmetics. 33,664; Mar. 13.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Coty, Inc., Wilmington, Del., and New York, N. Y. Les Poudres Coty. For Powder. 10,711; Mar. 13.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Making a name For Himself. For Pencils. 10,712; Mar. 13.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Agmel Corporation, The, Los Angeles, Calif. Health food, a liquid ration prepared from vegetable juices. 240,053; Mar. 13. Class 46.

Albersheim, Dr. M., Frankfort-on-the-Main, Germany. Perfumery, hair tonic, mouth wash, etc. 257,955; Mar. 13. Class 6.

Albright, Andrew, jr., Newark, N. J. Golf balls. 260,418–19; Mar. 13. Class 22.

Alexander-Balart Company, San Francisco, Calif. Coffee. 259,752; Mar. 13. Class 46.

Allen Electric and Equipment Company, Kalamazoo, Mich. Brush sanders, pole screw drivers, bench plates, etc. 260,158; Mar. 13. Class 23.

Amberg, Schwab & Co., Inc., New York, N. Y. Braids. 253,562; Mar. 13. Class 40.

American Bluing Company, Buffalo, N. Y. Ammonia. 260,663; Mar. 13. Class 6.

American Import Company, The, San Francisco, Calif. Lawn rakes. 260,616; Mar. 13. Class 23.

American Jersey Cattle Club, New York, N. Y. Milk, cream, butter, and ice cream. 254,261; Mar. 13. Class 46.

American Jewelry Co., New York, N. Y. Earrings, collar pins, necklaces, etc. 259,833; Mar. 13. Class 28.

American Lead Pencil Company, New York, N. Y. Pencils. 260,787–8; Mar. 13. Class 37.

Anderson, Gusten A., doing business as Anderson Products Co., New York, N. Y. Automobile and furniture polishes. 244,204; Mar. 13. Class 16.

Annelius, Theodore, New York, N. Y. Cold cream. 260,483; Mar. 13. Class 6.

Ansco Photoproducts, Inc., Binghamton, N. Y. Photographic projectors. 260,929; Mar. 13. Class 26.

Archer, C. W., Show Co., The, Cincinnati, Ohio. Ladies' leather shoes. 254,700; Mar. 13. Class 39.

Arenjay Hat Co. Inc., New York, N. Y. Men's hats. 259,316; Mar. 13. Class 39.

Atlantic Packing Company. (See Consolidated Rendering Company.)

B-C Polish Company, Atlanta, Ga. Polish for automobiles, pianos, furniture, and all painted and varnished surfaces. 259,528; Mar. 13. Class 16.

Badger Rubber Works, The, Milwaukee, Wis. Pneumatic tires and tubes. 260,620–2; Mar. 13. Class 35.

Baskind, Louis, & Company, Inc., New York, N. Y. Suede shirts and jackets, flannel shirts and jackets, and dress shirts. 258,990; Mar. 13. Class 39.

Bell Chemical Co., Inc., Chicago, Ill. Liquid fluid for filling cigar and cigarette lighters. 259,089; Mar. 13. Class 6.

Bennett & Goding, Incorporated, Boston, Mass. Cotton goods. 254,225; Mar. 13. Class 42.

Benoliel, Solomon D., doing business as International Chemical Company, Philadelphia, Pa. Automobile wash, metal polish, etc. 259,098; Mar. 13. Class 4.

Berry, Dodge Company, Boston, Mass. Tea. 245,827; Mar. 13. Class 46.

Boott Mills, Lowell, Mass. Curtains made from cotton, rayon, etc. 249,776; Mar. 13. Class 42.

Boott Mills, Lowell, Mass. Cotton or cotton and rayon scrim for curtains in the piece. 249,777; Mar. 13. Class 42.

Bowser, S. F., & Company, Inc., doing business as Gasoline Register Company, Fort Wayne, Ind. Quantity-recording and receipt-issuing machines used in the sale of gasoline. 259,793; Mar. 13. Class 26.

Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream confection. 259,671; Mar. 13. Class 46.

Brinkmann, Otto, Astoria, N. Y. Aerial advertising devices. 258,455; Mar. 13. Class 19.

Brooklyn Tile Supply Corp., Brooklyn, N. Y. Floor and wall tiles, marble base, etc. 257,574; Mar. 13. Class 12.

Bruce Lubricating Company, Providence, R. I. Lubricating oils and greases. 260,553; Mar. 13. Class 15.

Burke Golf Company, The, Newark, Ohio. Golf clubs. 259,840; Mar. 13. Class 22.

Butler Brothers, Chicago, Ill. Frocks and apron dresses. 258,936; Mar. 13. Class 39.

Buzza Company, The, Minneapolis, Minn. Gift mottoes. 234,557; Mar. 13. Class 38.

C. M. Company of America, Inc., Chicago, Ill. Cellular rubber. 257,466; Mar. 13. Class 1.

Caldeonia Hatchery. (See Corpstein, Mrs. M. F.)

Calumet Refining Company, Chicago, Ill. Lubricating oils. 259,618; Mar. 13. Class 15.

Carnrick, George W., doing business as Krinogen Company, New York, N. Y. Medicinal product. 260,873; Mar. 13. Class 6.

Carolina Retailer Publishing Company, Winston-Salem, N. C. Periodical. 261,098; Mar. 13. Class 38.

Chain Store Publishing Corporation, The, New York, N. Y. Section of a periodical publication. 257,616; Mar. 13. Class 38.

Charmozol Chemical Co. (See Smithline, Herman.)

Chic Manufacturing Co., Peoria, Ill. Ladies' and children's pajamas, aprons, and house frocks. 251,431; Mar. 13. Class 39.

Clark, Charles W., Westfield, Mass. Hand soap. 260,936; Mar. 13. Class 4.

Clarke, Charles J., Aberdeen, Wash. Dental cream, emulsion, mineral powder, etc. 257,856; Mar. 15. Class 6.

Colgate & Company, Jersey City, N. J., and New York, N. Y. Perfume, toilet water, brilliantine, and face powder. 260,674; Mar. 13. Class 6.

Collin County Mill & Elevator Co., McKinney, Tex. Wheat flour. 259,159; Mar. 13. Class 46.

Columbia Shirt Company, New York, N. Y. Collars. 259,943; Mar. 13. Class 39.

Commercial Press, Inc., Southbridge, Mass. Cloths for wiping and polishing the lenses of eyeglasses and spectacles. 259,674; Mar. 13. Class 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Congoleum-Nairn, Inc., Philadelphia, Pa. Prepared floor coverings of the oiled-cloth type. 260,163; Mar. 13. Class 20.

Consolidated Paint Co., Los Angeles, Calif. Dry, paste, and ready-mixed paints, paint enamels, etc. 231,981; Mar. 13. Class 16.

Consolidated Rendering Company, doing business as Atlantic Packing Company, Boston, Mass. Glue. 260,805; Mar. 13. Class 5.

Corpstein, Mrs. M. F., doing business as Caledonia Hatchery, Caledonia, Minn. Baby chicks. 258,974; Mar. 13. Class 46.

Coty, Inc., New York, N. Y. Perfume, toilet water, face and talcum powder, etc. 260,627; Mar. 13. Class 6.

Daily Review Corporation, Rockville Center, N. Y. Newspaper sections. 259,395; Mar. 13. Class 38.

Danforth, Edward, Atlanta, Ga. Newspaper column published periodically. 260,215; Mar. 13. Class 38.

David & Blum, Inc., New York, N. Y. Glove laundry soap. 259,237; Mar. 13. Class 4.

Degraff Hay & Grain Co., Degraff, Ohio. Egg mash. 259,536; Mar. 13. Class 46.

DeWolfe, Edward C., doing business as Electrical Mining Publishing Company, Chicago, Ill. Illustrated magazine. 260,988; Mar. 13. Class 38.

Diamond Motor Parts Company, St. Cloud, Minn. Axle and spring bolts. 259,798; Mar. 13. Class 13.

Diamond Motor Parts Company, St. Cloud, Minn. Piston pins, bearing bushings, etc. 259,799; Mar. 13. Class 23.

Direct Distributors, Inc., Chicago, Ill. Canned spaghetti, pork and beans, fruits, etc. 260,493; Mar. 13. Class 46.

Domestic Electric Refrigerator Corporation, New York, N. Y. Electric refrigerators. 260,004; Mar. 13. Class 31.

Drem Products Corporation, New York, N. Y. Automatic exposure meters. 260,429; Mar. 13. Class 26.

Eagle Chemical Company, Milwaukee, Wis. Stain and incrustation solvent and disinfectant. 255,704; Mar. 13. Class 6.

Earl Fruit Company, San Francisco, Calif. Fresh deciduous fruits. 261,101; Mar. 13. Class 46.

East Rutherford Syringe Co. Inc., East Rutherford, N. J. Syringes having glass barrels and glass pistons. 255,551; Mar. 13. Class 44.

Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Eclipse Lawn Mower Co., The, Prophetstown, Ill. Lawn mowers. 260,814; Mar. 13. Class 23.

Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. 259,717; Mar. 13. Class 21.

Electrical Mining Publishing Company. (See De Wolfe, Edward C.)

Eshelman, John W., & Sons, Lancaster, Pa. Livestock foods. 259,540; Mar. 13. Class 46.

Eshelman, John W., & Sons, Lancaster, Pa. Livestock foods. 259,542–3; Mar. 13. Class 46.

Eshelman, John W., & Sons, Lancaster, Pa. Poultry foods and livestock foods. 259,544; Mar. 13. Class 46.

Euclid Candy Company, Brooklyn, N. Y. Candy. 260,324; Mar. 13. Class 46.

Eugene Ltd., New York, N. Y. Chandelier-model permanent-waving machines, etc. 259,300; Mar. 13. Class 44.

Exhibit Supply Company, The. (See Meyer, John F.)

Falk Mercantile Company Limited, Boise, Idaho. Overalls, parts, and work shirts. 222,565; Mar. 13. Class 39.

Fashion Craft Dress Co., St. Louis, Mo. Frocks and dresses for women and girls. 259,800; Mar. 13. Class 39.

Feinstein Fabrics Corporation, New York, N. Y. Silk and silk and cotton piece goods. 258,073; Mar. 13. Class 42.

Felton Chemical Company, Inc., Brooklyn, N. Y. Aldehydes, alcohols, astringents, etc. 259,486–7; Mar. 13. Class 6.

Flora Mir Candy Shop, Brooklyn, N. Y. Confectionery, sweet meats, nuts, etc. 257,622; Mar. 13. Class 46.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper towels, doilies, etc. 259,204; Mar. 13. Class 37.

Fowler, Herman, doing business as The Fowler Studios, Hollywood, Calif. Motion-picture films. 252,196; Mar. 13. Class 26.

Frére, Maurice, Paris, France. Massage apparatus. 259,546; Mar. 13. Class 44.

Frosst, Charles E., & Company, Montreal, Canada. Pharmaceutical preparation. 240,300; Mar. 13. Class 6.

Gasoline Register Company. See Bowser, S. F., & Company, Inc.)

General Water Heater Corporation, Los Angeles, Calif. Gas-heated hot-water systems and hot-water heaters. 259,111; Mar. 13. Class 34.

Gentil, J. J., G. m. b. H., Berlin, Germany. Belts, straps, girdles, and supporters for hygienical, surgical, or curative purposes. 254,450; Mar. 13. Class 44.

Goheen Corporation of New Jersey, Newark, N. J. Ready-mixed paint, specifically paint for interior use. 260,223; Mar. 13. Class 16.

Goldsmith, David J., doing business as Hagen Trading Company, Philadelphia, Pa. Malt syrup. 248,098; Mar. 13. Class 46.

Goodall Rubber Co., Inc., Philadelphia, Pa. Conducting hose. 259,679; Mar. 13. Class 35.

Goodall Worsted Co., Sanford, Me. Men's and boys' outer wearing apparel, consisting of coats, pants, vests, etc. 257,672; Mar. 13. Class 39.

Gotthard Allweiler Pumpenfabrik Akt.-Ges., Radolfzell and Baden, Germany. Pumps and accessories. 255,807; Mar. 13. Class 23.

Governick Hat Company, St. Louis, Mo. Women's trimmed hats. 259,165; Mar. 13. Class 39.

Graf, John, Company, Milwaukee, Wis. Ginger ale and nonalcoholic, maltless beverages sold as soft drinks. 260,821; Mar. 13. Class 45.

Graybar Electric Company, Inc., New York, N. Y. Electric bells, bell-ringing transformers, utility motors, etc. 251,736; Mar. 13. Class 21.

Gummed Products Company, The, Troy, Ohio. Gummed paper tape, gummed cloth tape, etc. 259,730; Mar. 13. Class 37.

Hagen Trading Company. (See Goldsmith, David J.)

Haines Manufacturing Corporation, Rochester, N. Y. Portable savings banks. 259,492; Mar. 13. Class 25.

Hale, Frank J., Washington, D. C. Newspaper. 259,167; Mar. 13. Class 38.

Heberlein & Co., A. G., Wattwil, Switzerland. Cotton fabrics. 256,406; Mar. 13. Class 42.

Heide, Henry, Incorporated, New York, N. Y. Candies and nuts of all kinds. 225,186; Mar. 13. Class 46.

Heintz, Merkle & Company, Philadelphia, Pa. Mayonnaise, mincemeat, salted peanuts, etc. 224,247; Mar. 13. Class 46.

Helene Co., The, Chicago, Ill. Material to prevent the continuation of runs in hosiery, etc. 253,945; Mar. 13. Class 6.

Herring-Wissler Company, Des Moines, Iowa. Lubricating oils and greases. 243,652; Mar. 13. Class 15.

Herzog, Joseph L., & Co., New York, N. Y. Finger rings. 260,333; Mar. 13. Class 28.

Hirsch Bros. & Co. Inc., Louisville, Ky. Ketchup and chili sauce. 253,755; Mar. 13. Class 46.

Hughes & Hughes, New York, N. Y. Golf-ball markers. 259,116; Mar. 13. Class 23.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparations for the treatment of syphilis, angina pectoris, etc. 260,326; Mar. 13. Class 6.

International Chemical Company. (See Benoliel, Solomon D.)

International Gum Co., Inc., Long Island City, N. Y. Chewing gum. 260,270; Mar. 13. Class 46.

Jeddo-Highland Coal Company, Jeddo, Pa. Coal. 251,559; Mar. 13. Class 1.

Johns-Manville Corporation, New York, N. Y. Wall plaster composed of a mixture of crushed serpentine rock and short-fibered asbestos. 259,063; Mar. 13. Class 12.

Johns-Manville Corporation, New York, N. Y. Asbestos wood composed of cement and asbestos. 259,448; Mar. 13. Class 12.

Johnson & Johnson, New Brunswick, N. J. Corn and bunion plasters. 260,273; Mar. 13. Class 6.

Johnstone, Charles T., doing business as The Kapex Company, New York, N. Y. Preparation for colds, catarrh, etc. 258,030; Mar. 13. Class 6.

Joliet Cleanser Company. (See Napoli, Frank.)

Kapex Company, The. (See Johnstone, Charles T.)

Kashman, Herman L., doing business as United Manufacturing Co., Worcester, Mass. Men's and boys' clothing. 233,779; Mar. 13. Class 39.

Katz & Burkin, New York, N. Y. Hosiery and men's underwear. 257,551; Mar. 13. Class 39.

Katz, Ernst, doing business as Katz & Reich, Vienna, Austria. Leather imitations. 259,066; Mar. 13. Class 50.

Kennel Food Supply Co., Fairfield, Conn. Food for dogs and foxes. 242,896; Mar. 13. Class 46.

Kensington Steel Company, Chicago, Ill. Parts for trench-excavating machines, jaw plates, elevator buckets, etc. 259,449; Mar. 13. Class 23.

King Features Syndicate, Inc., New York, N. Y. Newspaper articles. 260,275; Mar. 13. Class 38.

Kodel Radio Corporation, The, Cincinnati, Ohio. Power-current-supply units for radio apparatus. 242,837; Mar. 13. Class 21.

Kohloff, Paul, Mamaroneck, N. Y. Spark-plug connectors. 259,632; Mar. 13. Class 21.

Koreska, Wilhelm, Vienna, Austria. Carbon papers, typewriter ribbons, inks, etc. 259,810; Mar. 13. Class 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Koreska, Wilhelm, Vienna, Austria. Writing and typewriter paper, copying sheets, etc. 259,811; Mar. 13. Class 37.

Kranish Bros., Inc., New York, N. Y. Safety pins, brass pins, snap fasteners, hooks, etc. 257,758; Mar. 13. Class 40.

Krinogen Company. (See Carnrick, George W.)

La Diva Products. (See Regensburger, Mrs. Martin.)

Lancaster Mills, Clinton, Mass. Waterproofed textile fabrics. 259,177–8; Mar. 13. Class 50.

Larmour, James J., doing business as Larmour Products, East Orange, N. J. Medicated plasters for corns. 259,734; Mar. 13. Class 6.

Lavagne, J., & Cie., Marseille, France. Preserved dates. 257,931; Mar. 13. Class 46.

Lazow, Mendel, New York, N. Y. Chemically-prepared skins of lambs, calves, etc. 258,755; Mar. 13. Class 1.

Lederer, Henry, and Company, Chicago, Ill. Paint and prepared paint for varnish of floors, woodwork, and all interiors. 257,104; Mar. 13. Class 16.

Lehman Bros., Inc., Jersey City, N. J. Dry, ready-mixed, and paste paints, paint enamels, etc. 255,450; Mar. 13. Class 16.

Lelong, Lucien, Inc., New York, N. Y. Toilet waters, hair lotions, creams for the skin, etc. 261,068; Mar. 13. Class 6.

Limited Company formerly The Škoda-Works, Plzeň, Prague-Smichov, Czechoslovakia. Steam accumulators, explosion motors of all designs, etc. 235,488; Mar. 13. Class 23.

Liska, Rudolph, doing business as R. Liska & Son, Chicago, Ill. Malt syrup. 260,452; Mar. 13. Class 46.

Long Handkerchief Co. Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. 257,588; Mar. 13. Class 42.

Luyties Pharmacal Company, St. Louis, Mo. Preparation for the relief of coughs, colds, etc. 260,689; Mar. 13. Class 6.

MacNair-Dorland Company, Inc., New York, N. Y. Monthly magazine. 260,642–3; Mar. 13. Class 38.

Madler & Milenko, New York, N. Y. Finger rings. 260,066; Mar. 13. Class 28.

Mancill, Mary L., Philadelphia, Pa. Table game played with pieces. 259,020; Mar. 13. Class 22.

Mandalian, Sahatiel G., doing business as Mandalian Manufacturing Company, North Attleboro, Mass. Mesh bags and purses and the constituent parts. 259,127; Mar. 13. Class 28.

Marshall, Meadows & Stewart, Inc., Auburn, N. Y. Shoes composed wholly or in part of leather. 251,922; Mar. 13. Class 39.

Matthews, G. U., Centralia, Wash. Healing ointment. 260,830; Mar. 13. Class 6.

Maury-Cole Company, Memphis, Tenn. Peanut butter, prepared mustard, etc. 260,397; Mar. 13. Class 46.

Mead, John C., Palmyra, Mo. Card game. 255,664; Mar. 13. Class 22.

Menthopine Co., The. (See Thomas, C. De Witt.)

Meyer, John F., doing business as The Exhibit Supply Company, Chicago, Ill. Coin-operated amusement machines. 260,691; Mar. 13. Class 22.

Meyer, John F., doing business as The Exhibit Supply Company, Chicago, Ill. Coin-operated amusement machines. 261,071; Mar. 13. Class 22.

Minor, Robert B., San Antonio, Tex. Can openers. 260,070; Mar. 13. Class 23.

Mülhens, Paul P., doing business as Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Eau de Cologne water, perfumery, hair tonic, etc. 242,101; Mar. 13. Class 6.

Napoli, Frank, doing business as Joliet Cleanser Company, Joliet, Ill. Washing compound. 245,800; Mar. 13. Class 4.

Nash Engineering Company, The, South Norwalk, Conn. Air compressors, vacuum pumps, etc. 256,533; Mar. 13. Class 23.

National Tea Co., Chicago, Ill. Canned fruits, vegetables, and milk. 235,895; Mar. 13. Class 46.

National Textile Distributors Corporation, New York, N. Y. Hosiery. 259,572; Mar. 13. Class 39.

Nessler, Charles, doing business as C. Nestle Co., New York, N. Y. Hair dyes. 260,745; Mar. 13. Class 6.

Nessler, Charles, doing business as C. Nestle Co., New York, N. Y. Lotions for bleaching and softening the hair. 260,746; Mar. 13. Class 6.

Nitedals Taendstikfabrik, Gronvold, near Oslo, Norway. Matches. 254,644; Mar. 13. Class 9.

North & Judd Manufacturing Company, New Britain, Conn. Bits, spurs, stirrups, etc. 261,137; Mar. 13. Class 3.

Novadel Process Corporation, Buffalo, N. Y. Benzoil peroxide and other solid organic peroxides. 254,250; Mar. 13. Class 6.

Nuckolls Packing Company, The, Pueblo, Colo. Lard. 254,931; Mar. 13. Class 46.

Obermayer, S., Co., The, Chicago, Ill. Parting compound for molds. 258,697; Mar. 13. Class 1.

Oriental Tea & Coffee Co., Boston, Mass. Coffee. 260,652; Mar. 13. Class 46.

Pabst Corporation, Milwaukee, Wis. Malt syrup. 260,347; Mar. 13. Class 46.

Paine, Charles T., Redlands, Calif. Oranges. 243,281; Mar. 13. Class 46.

Paramount Cravat Co., New York, N. Y. Neckties. 259,216; Mar. 13. Class 39.

Parfums Edouardo, a Corporation, New York, N. Y. Vanity case or compact case. 259,869; Mar. 13. Class 28.

Parke, Davis & Company, Detroit, Mich. Medicinal preparation. 260,286; Mar. 13. Class 6.

Pavett, Joseph C., doing business as Porto Rico Coffee Co., Chicago, Ill. Coffee. 260,844; Mar. 13. Class 46.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Narrow elastic. 260,239; Mar. 13. Class 40.

Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry for personal use or adornment, consisting of rings, bracelets, bags, etc. 255,046; Mar. 13. Class 28.

Peterson, Tony, J., doing business as Tamms Silica Company, Chicago, Ill. Powdered cement paint. 260,524; Mar. 13. Class 16.

Phelps-Terkel College Shops, Los Angeles, Calif. Men's clothing and haberdashery. 254,301; Mar. 13. Class 39.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. 258,958; Mar. 13. Class 1.

Pickerill, Thomas E., doing business as The Thos. E. Pickerill Service, Placentia, Calif. Heading for a newspaper column. 255,870; Mar. 13. Class 38.

Perfection Manufacturing Company, The, St. Louis, Mo. Baby surreys, roadsters, carriages, etc. 248,923; Mar. 13. Class 19.

Porto Rico Coffee Co. (See Pavett, Joseph C.)

Powers, Patrick A., Los Angeles, Calif., and New York, N. Y. Talking-motion-picture films. 259,335; Mar. 13. Class 26.

Propper Silk Hosiery Mills, Inc., New York, N. Y. Silk hosiery. 259,872; Mar. 13. Class 39.

Radium Emanation Corporation, The, New York, N. Y. Radium, including radium emanation. 256,087; Mar. 13. Class 6.

Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston rings. 259,075; Mar. 13. Class 35.

Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston rings and inner ring for piston rings. 259,076; Mar. 13. Class 35.

Reduc-O-Tab Co., New York, N. Y. Pharmaceutical preparation. 259,821; Mar. 13. Class 6.

Regensburger, Mrs. Martin, doing business as La Diva Products Company, San Francisco, Calif. Preparations for the treatment and care of the human skin. 258,336; Mar. 13. Class 6.

Relay Motors Corporation, Lima, Ohio. Power-transmission mechanism for motor vehicles, including axle assembles. 259,876; Mar. 13. Class 23.

Rhodia Chemical Company, New York, N. Y. Natural or synthetic oils, photographic chemicals, etc. 243,885–6; Mar. 13. Class 6.

Riverside Manufacturing Co., St. Louis, Mo. Cleaning fluids for removing paints, varnish, etc., from textile fabrics. 259,582; Mar. 13. Class 4.

Riverside Manufacturing Co., St. Louis, Mo. Alcohol soap. 259,584; Mar. 13. Class 4.

Riverside Manufacturing Co., St. Louis, Mo. Dry-cleaning soaps. 259,585; Mar. 13. Class 4.

Riverside Manufacturing Co., St. Louis, Mo. Neutral wet-cleaning soap. 259,586; Mar. 13. Class 4.

Riverside Manufacturing Co., St. Louis, Mo. Liquid soap compounds. 259,587; Mar. 13. Class 4.

Riverside Manufacturing Co., St. Louis, Mo. Detergenet and solvent compounds. 259,589; Mar. 13. Class 4.

Riverside Manufacturing Co., St. Louis, Mo. Cleaning fluids. 259,590; Mar. 13. Class 4.

Roggen Bros. & Co., Inc., New York, N. Y. Dress and negligee shirts. 258,767; Mar. 13. Class 39.

Rosedale Milling Co., The, Rosedale Station, Kansas City, Kans. Flour and scratch feed, corn meal. 254,684; Mar. 13. Class 46.

Rosedor Cigarette Co., New York, N. Y. Cigars, cigarettes, and smoking tobacco. 260,631; Mar. 13. Class 17.

Rotex Surgical Appliance Co., Detroit, Mich. Antiseptic powder. 259,461; Mar. 13. Class 6.

Rumford Chemical Works, Providence, R. I. Dough assistant consisting of a preparation designed to improve the quality of leavened bread. 257,560; Mar. 13. Class 46.

Salol Chemical Co., Chicago, Ill. Vaginal douche. 260,033; Mar. 13. Class 6.

Sarvas Electric Company, Inc., New York, N. Y. Automatic trickle charger for storage batteries. 259,649; Mar. 13. Class 21.

Scaramelli-Blanco-Capolino Corporation, New York, N. Y. Cheese. 259,594–5; Mar. 13. Class 46.

Scharf Brothers Company, Incorporated, New York, N. Y. Chocolate candy. 258,770; Mar. 13. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Scharf Brothers Company, Incorporated, New York, N. Y. Candy, chocolate-covered fruits, nuts, and candy, etc. 259,136–7; Mar. 13. Class 40.
Schratz Chemical Company, The, Detroit, Mich. Dry crystalline carbonate of soda. 260,034; Mar. 13. Class 6.
Scriptex Ink and Paste Co., Philadelphia, Pa. Mucilage. 258,980; Mar. 13. Class 5.
Seeburg, Justus P., Chicago, Ill. Sprayers. 259,140; Mar. 13. Class 23.
Senex Chemical Company. (See Senior, Renwick T.)
Senior, Renwick T., doing business as Senex Chemical Company, Montgomery, N. Y. Disinfectants and insecticides. 259,969; Mar. 13. Class 6.
Service Product Co., Williamsett, Mass. Fire extinguishers. 257,444; Mar. 13. Class 23.
Severino Safety Razor Co., Inc., New York, N. Y. Safety razors and blades thereof. 259,881; Mar. 13. Class 23.
Shaw Family, The, San Jose, Calif. Bottled fruits in syrup, artificially colored and flavored. 259,468; Mar. 13. Class 46.
Shaw, Matthew B., Lewisville, Ark. Vegetable sauce for foods. 258,698; Mar. 13. Class 46.
Smithline, Herman, doing business as Charmozol Chemical Co., New York, N. Y. Tissue builder—namely, creams, brilliantine, etc. 256,489; Mar. 13. Class 6.
Societe Anonyme des Fromageries Ch. Gervais, Paris, France. Cheese. 253,714; Mar. 13. Class 46.
Société des Magnétos R. B., Paris, France. Magnetos and electric ignition systems or units. 253,669; Mar. 13. Class 21.
Societe des Ocres de France, Auxerre, France. Ocres (Ochres) in the nature of paint pigments. 245,231; Mar. 13. Class 16.
Society of the Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. 261,079; Mar. 13. Class 6.
Solarine Company, Baltimore, Md. Chemical preparation. 261,080; Mar. 13. Class 6.
Spline, Robert E., doing business as Tonic Products Company, Syracuse, N. Y. Canned and bottled sauerkraut juice. 260,196; Mar. 13. Class 46.
Stackelbeck, Edo, New York, N. Y. Surgical trusses. 259,883; Mar. 13. Class 44.
Standard Corset Company, The, New York, N. Y. Combination garments for ladies' underwear. 224,629; Mar. 13. Class 39.
Standard Gage Company, Inc., Poughkeepsie, N. Y. Micrometers. 259,972; Mar. 13. Class 26.
Standard Lime & Stone Company, The, Martinsburg, W. Va., and Baltimore, Md. Portland cement. 258,840; Mar. 13. Class 12.
Standard Paper Manufacturing Co., Richmond, Va. Blotting paper, coated, printing, and writing paper. 258,434; Mar. 13. Class 37.
Swetland Publications, Inc., Los Angeles, Calif. Publication issued monthly. 259,186; Mar. 13. Class 38.
Swetland Publications, Inc., Los Angeles, Calif. Publication. 259,261; Mar. 13. Class 38.
Syrup Products Company, Inc., New York, N. Y. Denatured alcohol. 259,827; Mar. 13. Class 6.
Table Queen Products Co., St. Louis, Mo. Malt syrup. 260,362; Mar. 13. Class 46.
Tacoma Brewing Co., San Francisco, Calif. Cereal malt beverages. 257,905; Mar. 13. Class 48.
Tamms Silica Company. (See Peterson, Tony J.)
Tatem, Norma W., doing business as Tatem Pharmacal Co., Norfolk, Va. Medicine for use in the treatment of coughs, colds, etc. 259,700; Mar. 13. Class 6.
Tayler, D. F., & Company Limited, Birmingham, England. Pins, safety pins, hairpins, hatpins, hand sewing needles. 259,339; Mar. 13. Class 40.
Texas Farm Bureau Cotton Association, Dallas, Tex. Bales of cotton. 257,204; Mar. 13. Class 1.
Thomas, C. De Witt, doing business as The Menthopine Co., Gardena, Calif. Ointment and liniment. 251,635; Mar. 13. Class 6.
Tonic Products Company. (See Spline, Robert E.)
Toohey, John F., doing business as Toohey Mfg. Co., Troy, N. Y. Archery games. 260,037; Mar. 13. Class 22.
Totem Studios, Chicago, Ill. Metal, concrete, and wood ornaments in the form of bird and animal reproductions. 258,775; Mar. 13. Class 50.
Union Paper & Twine Company, The, Cleveland, Ohio. Printing, writing, and book papers. 258,607; Mar. 13. Class 37.
United Manufacturing Co. (See Kashman, Herman L.)
United States Cabinet Bed Co., New York, N. Y. Mattresses. 260,802; Mar. 13. Class 32.
Vendex, Inc., New York, N. Y. Pencils. 259,888; Mar. 13. Class 37.
Vinatié, Fréjus, Paris, France. Dates. 259,227; Mar. 13. Class 46.
Wabasha Roller Mill Company, Wabasha, Minn. Wheat flour. 259,982; Mar. 13. Class 46.
Wechter, S., Company, Chicago, Ill. Manufactured jewelry for personal wear other than watches. 259,381; Mar. 13. Class 28.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric cooking stoves. 245,941; Mar. 13. Class 21.
Whites Fruit Agency, Incorporated, Seattle, Wash. Fresh deciduous fruits. 258,547; Mar. 13. Class 46.
Willmann, Wm. G., Paper Co., Inc., New York, N. Y. Printing and writing paper. 260,661; Mar. 13. Class 37.
Wireless Radio Corporation, Brooklyn, N. Y. Dials and controls for radio panels. 258,781; Mar. 13. Class 21.
Wood, A. A., & Sons Company, The, Atlanta, Ga. Files. 259,291; Mar. 13. Class 23.
Wood, S. M., jr., San Francisco, Calif. Fishing lines. 247,237; Mar. 13. Class 22.
World's Dispensary Medical Association, Buffalo, N. Y. Stimulant diuretic in tablet form for the kidneys. 260,663; Mar. 13. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Clay. Denver Fire Clay Company. 239,739; Mar. 13; Serial No. 256,768; published Dec. 20, 1927.
Coal. Mastellar Coal Company. 239,850; Mar. 13; Serial No. 253,680; published Nov. 1, 1927.
Coal. Meador and Young, Incorporated. 239,917; Mar. 13; Serial No. 243,101; published Apr. 5, 1927.
Coal. New York Coal Company. 239,745; Mar. 13; Serial No. 256,478; published Dec. 13, 1927.
Leather. Keystone Leather Co. 239,874; Mar. 13; Serial No. 256,629; published Dec. 27, 1927.
Leather. Lucius Beebe and Sons, Inc. 239,810; Mar. 13; Serial No. 223,571; published Dec. 13, 1927.
Rubber and rubber crepe. Charles E. Wood Incorporated. 239,841; Mar. 13; Serial No. 256,320; published Dec. 20, 1927.
Seeds, plants, and bulbs. J. M. McCullough's Sons Co. 239,916; Mar. 13; Serial No. 243,008; published Apr. 5, 1927.

CLASS 2.

Boxes, baskets, etc., Metal. Alfred L. Simon & Company. 239,790; Mar. 13; Serial No. 255,939; published Jan. 3, 1928.
Cans, Cardboard. Iowa Can Company. 239,903; Mar. 13; Serial No. 257,239; published Jan. 3, 1928.
Carrier and trays, Egg. Star Egg Carrier & Tray Mfg. Co. 68,678; renewed Apr. 21, 1928.
Containers, Paper. L. Kehlmann Co. 239,935; Mar. 13; Serial No. 256,297; published Jan. 3, 1928.
Trays like receptacles. Oneida Community, Limited. 239,925; Mar. 13; Serial No. 241,895; published Jan. 3, 1928.

CLASS 3.

Bags of paper, fabric, or leather, Shopping. L. C. Ament. 239,866; Mar. 13; Serial No. 257,088; published Jan. 3, 1928.
Leather goods. Western Leather Mfg. Co. 67,847; renewed Feb. 18, 1928.
Traveling bags, hand bags, trunks, etc. I. Miller & Sons, Inc. 239,840; Mar. 13; Serial No. 256,362; published Dec. 27, 1927.

CLASS 4.

Abrasive material. Matchless Metal Polish Co. 69,831; renewed July 7, 1928.
Cleaner. A. G. Bechtold. 239,828; Mar. 13; Serial No. 236,931; published Jan. 3, 1928.
Cleaning compound. H. F. Braithwaite. 239,894; Mar. 13; Serial No. 256,168; published Jan. 3, 1928.
Detergent. Pine-O-Pine Company. 239,818; Mar. 13; Serial No. 236,092; published Nov. 30, 1926.
Polish, Metal. Fuller Brush Company. 239,898; Mar. 13; Serial No. 255,656; published Nov. 22, 1927.
Polish, Stove and nickel. American Ammone Company. 240,000; Mar. 13.
Shaving cream. Lambert Pharmacal Company. 239,895; Mar. 13; Serial No. 256,126; published Nov. 29, 1927.
Soap. Palmolive-Peet Company. 239,724–5; Mar. 13; Serial Nos. 255,071–2; published Jan. 3, 1928.
Soap. Palmolive-Peet Company. 239,731; Mar. 13; Serial No. 253,908; published Jan. 3, 1928.
Soap. L. Van Goodsnover. 239,887; Mar. 13; Serial No. 257,041; published Jan. 3, 1928.
Soap, Soft. J. A. Bowens. 240,008; Mar. 13.
Soap, Toilet. Lentheric, Inc. 239,882; Mar. 13; Serial No. 257,481; published Jan. 3, 1928.

Soaps. Parfums Emilienne Manassé, Société à Responsabilité Limitée. 239,734; Mar. 13; Serial No. 257,634; published Jan. 3, 1928.
Soaps. Societe En Nom Collectif M. & L. Biete Freres. 239,735; Mar. 13; Serial No. 257,601; published Jan. 3, 1928.
Soaps and washing compounds. Friedley-Voshardt Co. 239,760; Mar. 13; Serial No. 249,056; published Jan. 3, 1928.
Soaps, soap powders, and metal polishes. L. L. Dorschler. 239,827; Mar. 13; Serial No. 234,826; published Jan. 3, 1928.
Washing powder and cleaner. S-A. B. Field. 239,957; Mar. 13.

CLASS 6.

Acetate of alumina, citrate of alumina, etc. Jacques Wolf & Co. 239,759; Mar. 13; Serial No. 246,752; published Dec. 27, 1927.
Alteratives, antacids, antirheumatics, etc. Dr. Ernst Kraft vorm. Boxberger's Hofapotheke. 239,815–6; Mar. 13; Serial Nos. 222,035–6; published Jan. 3, 1928.
Antiseptic and disinfectant. Oakland Chemical Company. 239,727; Mar. 13; Serial No. 254,815; published Jan. 3, 1928.
Astringents, astringent cerates, beauty creams, etc. Fries & Fries Co. 239,720; Mar. 13; Serial No. 257,623; published Dec. 27, 1927.
Astringents, bath salts, bleaching lotion, etc. Jean Stuart Cosmetics, Inc. 239,857; Mar. 13; Serial No. 256,125; published Dec. 27, 1927.
Calcium chloride. Saline Products, Inc. 239,914; Mar. 13; Serial No. 257,561; published Dec. 27, 1927.
Caramel-sugar color. Wallerstein Company. 239,780; Mar. 13; Serial No. 258,005; published Jan. 3, 1928.
Chemical preparation. G. Fiore. 239,927; Mar. 13; Serial No. 256,667; published Dec. 27, 1927.
Chemical preparations. Cino Chemical Products Co. 239,933; Mar. 13; Serial No. 256,397; published Dec. 27, 1927.
Color, Caramel-sugar. Wallerstein Company. 239,801; Mar. 13; Serial No. 258,006; published Jan. 3, 1926.
Compound. John Campbell & Co. 239,737; Mar. 13; Serial No. 257,161; published Dec. 13, 1927.
Compound for wetting out, boiling out, bleaching, softening, etc., all fibres, yarns, and fabrics. John Campbell & Co. 239,722; Mar. 13; Serial No. 257,583; published Dec. 27, 1927.
Compound used to keep the interior of boilers in a scale and rust proof condition. G. H. Werfelman. 239,732; Mar. 13; Serial No. 253,521; published Dec. 27, 1927.
Cream and powder, toilet water, hair dye, etc., Face. J. Notovitz, Inc. 239,901; Mar. 13; Serial No. 257,079; published Dec. 27, 1927.
Cream, Cold. Daggett & Ramsdell. 239,772; Mar. 13; Serial No. 249,950; published Dec. 27, 1927.
Cream, shampoo, perfumes, etc., Cold. Georg Schicht A. G. 239,723; Mar. 13; Serial No. 255,205; published Jan. 3, 1928.
Deodorant and disinfectant. Hillyard Chemical Company. 239,926; Mar. 13; Serial No. 256,726; published Dec. 27, 1927.
Deodorant, disinfectant, and bleach. Continental Products Corporation. 239,913; Mar. 13; Serial No. 257,528; published Dec. 27, 1927.
Deodorant, disinfectant, and moth exterminator. R. J. Ruglen. 240,003; Mar. 13.
Dyes and tints, Throwsters'. A. Lederer. 240,004; Mar. 13.
Expectorant and sedative, Liquid. Valentine H. Smith & Co. 239,912; Mar. 13; Serial No. 257,514; published Dec. 27, 1927.
Extract of gland tissue. Parke, Davis & Company. 239,782; Mar. 13; Serial No. 253,439; published Nov. 22, 1927.
Food and weak astringent, Scientific. Farbenfabriken, vormals Friedr. Bayer & Co. 31,388; renewed Mar. 8, 1928.
Gum, Medicated chewing. Vee-Bee Products Company. 239,948; Mar. 13; Serial No. 251,697; published Dec. 27, 1927.
Hair refiner. M. E. Richardson. 239,923; Mar. 13; Serial No. 239,593; published Feb. 8, 1927.
Medicinal wine. J. Pinkinson. 239,856; Mar. 13; Serial No. 256,139; published Dec. 27, 1927.
Medicine. R. Conn. 239,908; Mar. 13.
Medicine. W. H. Hobbs. 239,911; Mar. 13; Serial No. 257,415; published Dec. 27, 1927.
Medicine. H. Karasick. 239,757; Mar. 13; Serial No. 246,689; published June 21, 1927.
Oil, Cod-liver. A. Mohn. 239,761; Mar. 13; Serial No. 247,535; published June 14, 1927.
Oil of eucalyptus or rheumatic oil. J. Bosisto & Co. 29,261; renewed Dec. 8, 1926.
Perfumes. M. Loewe. 239,915; Mar. 13; Serial No. 242,731; published May 31, 1927.
Perfumes and lip sticks. Coty, Inc. 239,833; Mar. 13; Serial No. 256,862; published Dec. 27, 1927.
Perfumes and oils. M. Naef & Co. 239,733; Mar. 13; Serial No. 253,476; published Jan. 3, 1928.
Perfumes, toilet water, face creams, etc. Parfums Emilienne Manasse, Societe a Responsabilite Limitee. 239,719; Mar. 13; Serial No. 257,633; published Dec. 27, 1927.
Photographic developers. Actien-Gesellschaft für Anilin-Fabrikation. 31,337; renewed Mar. 1, 1928.
Photographic supplies. Eastman Kodak Company. 67,012; renewed Jan. 14, 1928.
Powder for the relief of headache or other aches or pains. H. & J. Laboratories. 239,906; Mar. 13; Serial No. 257,360; published Dec. 27, 1927.
Preparation, Hair. M-&-W Chemical Company. 239,922; Mar. 13; Serial No. 239,308; published Jan. 4, 1927.
Pyorrhea treatment and preventive and dentifrices. K. M. Johnson. 239,954; Mar. 13; Serial No. 252,556; published Jan. 3, 1928.
Remedy. Dr. E. Laves. 239,755–6; Mar. 13; Serial Nos. 246,165–6; published Dec. 27, 1927.
Remedy for diseases of the liver. S. T. W. Sanford & Sons. 68,249; renewed Mar. 17, 1928.
Rustproofing material. American Lanolin Corporation. 239,905; Mar. 13; Serial No. 257,269; published Dec. 27, 1927.
Salt, Chemical nickel. Waldberg & Co., G. m. b. H. 67,986; renewed Mar. 3, 1928.
Salt sodium carbonate sulphate. Burnham Chemical Company. 239,834; Mar. 13; Serial No. 256,857; published Dec. 27, 1927.
Salt, Table. Schwabacher Bros. & Co. Inc. 239,805; Mar. 13; Serial No. 232,521; published July 13, 1926.
Salve. O. C. Bruce. 239,721; Mar. 31; Serial No. 257,615; published Dec. 27, 1927.
Salve. Woolley Salve Company. 69,498; renewed June 16, 1928.
Salves. Kip Corporation. 239,899; Mar. 13; Serial No. 255,561; published Jan. 3, 1928.
Talcum powder. Norwich Pharmacal Company. 239,726; Mar. 13; Serial No. 254,929; published Jan. 3, 1928.
Toilet powders, Antiseptic. P. Levin. 239,931; Mar. 13; Serial No. 256,407; published Dec. 27, 1927.
Tonic for the nervous system. M. R. Daboin. 239,953; Mar. 13; Serial No. 252,552; published Jan. 3, 1928.
Tonic, Hair. Friend & Beumer. 239,888; Mar. 13; Serial No. 257,007; published Jan. 3, 1928.
Vitellum compound. J. G. Chambers, M. D. 239,883; Mar. 13; Serial No. 257,344; published Jan. 3, 1928.
Washing blue. J. & J. Colman, Limited. 31,009; renewed Dec. 21, 1927.

CLASS 7.

Rope, Fiber. Ajax Rope Company. 239,904; Mar. 13; Serial No. 257,266; published Jan. 3, 1928.

CLASS 9.

Dynamite, Gelatin. Potts Powder Company. 68,556; renewed Apr. 14, 1928.
Dynamite, Nitroglycerin. Potts Powder Company. 68,557; renewed Apr. 14, 1928.
Shot shells, Paper. Von Lengerke & Detmold. 69,556; renewed June 23, 1928.

CLASS 10.

Fertilizer. Piedmont-Mt. Airy Guano Co. 239,817; Mar. 13; Serial No. 235,751; published Jan. 3, 1928.
Fertilizer, Artificial. Farbenfabriken, vormals Friedrich Bayer & Co. 31,409; renewed Mar. 8, 1928.
Fertilizers. Bone Dry Fertilizer Company. 239,934; Mar. 13; Serial No. 256,329; published Jan. 3, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 68,322; renewed Mar. 3, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 69,051; renewed May 19, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 69,764; renewed July 7, 1928.
Lime, Agricultural. Luckey Lime & Supply Co. 240,005; Mar. 13.
Soil treatment and conditioning materials. A. Widdis. 239,936–9; Mar. 13; Serial Nos. 256,230–3; published Jan. 3, 1928.

CLASS 12.

Brick. Acme Brick Company. 239,743; Mar. 13; Serial No. 256,506; published Dec. 27, 1927.
Brick. Acme Brick Company. 239,744; Mar. 13; Serial No. 256,505; published Dec. 20, 1927.
Brick. Acme Brick Company. 239,836; Mar. 13; Serial No. 256,507; published Dec. 13, 1927.
Brick. Acme Brick Company. 239,837; Mar. 13; Serial No. 256,504; published Dec. 20, 1927.
Brick. Acme Brick Company. 239,838; Mar. 13; Serial No. 256,503; published Dec. 13, 1927.
Brick. Acme Brick Company. 239,879; Mar. 13; Serial No. 256,508; published Dec. 13, 1927.
Brick. Acme Brick Company. 239,966–74; Mar. 13.
Building materials. Mason City Brick & Tile Company. 67,116; renewed Jan. 14, 1928.
Cement or mortar, Refractory. Denver Fire Clay Company. 239,740; Mar. 13; Serial No. 256,767; published Dec. 27, 1927.
Cement, Portland. Phoenix Portland Cement Company. 239,848; Mar. 13; Serial No. 253,954; published Dec. 20, 1927.
Doors. American Export Door Corporation. 239,956; Mar. 13; Serial No. 252,805; published Dec. 13, 1927.
Fibre board, thermal insulating board, composite board, etc. Mason Fibre Company. 239,977; Mar. 13.

Lath, sheet lath, corner bead, etc., Expanded-metal. Berger Manufacturing Company. 239,846; Mar. 13; Serial No. 254,226; published Dec. 13, 1927.
Lime. Ohio Hydrate & Supply Company. 239,746–8; Mar. 13; Serial Nos. 255,863–5; published Dec. 27, 1927.
Plaster. Grand Rapids Plaster Company. 239,942; Mar. 13; Serial No. 250,341; published Dec. 27, 1927.
Plywood. American Export Door Corporation. 239,854; Mar. 13; Serial No. 255,477; published Dec. 20, 1927.
Roof cement, Asbestos. Chicago Paint Works. 239,808; Mar. 13; Serial No. 229,157; published May 24, 1927.
Sawmill products. Capilano Timber Co. Limited. 239,944; Mar. 13; Serial No. 250,974; published Dec. 27, 1927.
Shingles. Flintkote Company. 239,842; Mar. 13; Serial No. 256,291; published Dec. 13, 1927.
Shingles, Red-cedar. B. J. Jayne. 239,845; Mar. 13; Serial No. 254,289; published Dec. 13, 1927.
Veneers. American Tarso Company. 239,849; Mar. 13; Serial No. 253,786; published Dec. 20, 1927.
Windows, sashes, and window frames. Bliss Steel Products Corporation. 239,843; Mar. 13; Serial No. 256,278; published Dec. 27, 1927.

CLASS 13.

Chains, Tire. No Klank Chain Company. 239,989; Mar. 13.
Plumbing supplies. Wolverine Brass Works. 69,312–13; renewed June 2, 1928.
Shanks for shoes, Metal. F. G. Delbon. 239,983; Mar. 13.
Valves and cocks, Brass and malleable-metal. Detroit Brass & Malleable Works. 239,765; Mar. 13; Serial No. 248,287; published Jan. 3, 1928.
Valves, Boiler relief. Boston Brass Company. 239,823–4; Mar. 13; Serial Nos. 218,099–100; published Oct. 20, 1925.

CLASS 14.

Solder. Richards Company. 239,902; Mar. 13; Serial No. 257,197; published Dec. 27, 1927.
Steel bars, sheets, and plates. Colonial Steel Company. 68,969; renewed May 12, 1928.
Steel bars, sheets, and plates. Colonial Steel Company. 69,880; renewed July 14, 1928.
Steel, Tool. K. Engelsted. 239,941; Mar. 13; Serial No. 250,304; published Dec. 27, 1927.

CLASS 16.

Compound, Cleaning and polishing. A. Holtz. 239,986; Mar. 13.
Paint. Chas. R. Long, Jr. Co. 70,006; renewed July 21, 1928.
Paint filler and sealer. Morgan Company. 239,995; Mar. 13.
Paints, enamels, and varnishes. A. Solberg. 239,831; Mar. 13; Serial No. 256,979; published Dec. 27, 1927.
Paints, Mixed. Atlantic Paint Company. 68,055; renewed Mar. 3, 1928.
Paints, stains, wood fillers, etc. Elco Paint Products, Inc. 239,859; Mar. 13; Serial No. 255,974; published Dec. 27, 1927.
Painters' materials. Cleveland Varnish Company. 67,884–6; renewed Feb. 25, 1928.
Painters' materials. Cleveland Varnish Company. 68,185; renewed Mar. 10, 1928.
Polish, Preparation used as automobile. John Alesi Exterminating Company. 239,961; Mar. 13.
Varnish. Lasco Shellac and Lacquer Company. 239,807; Mar. 13; Serial No. 230,455; published Dec. 27, 1927.
Varnishes, paint enamels, paints, etc. National Auto Varnispar Co. 239,919; Mar. 13; Serial No. 244,363; published May 3, 1927.

CLASS 17.

Cigars. Corral, Wodiska Y Ca. 239,749; Mar. 13. Serial No. 255,485; published Jan. 3, 1928.

CLASS 19.

Automobiles and their structural parts. Chrysler Sales Corporation. 239,858; Mar. 13; Serial No. 256,075; published Jan. 3, 1928.
Shock absorbers. Delco-Remy Corporation. 239,947; Mar. 13; Serial No. 251,656; published Jan. 3, 1928.
Vehicles and parts thereof, Trailer-type. Athey Truss Wheel Co. 240,001; Mar. 13.

CLASS 21.

Electric meat choppers and coffee mills. Standard Electric Products, Inc. 240,010; Mar. 13.
Electrical conduit, Rigid. Mohawk Conduit Co. 239,802–4; Mar. 13; Serial Nos. 233,889–91; published Aug. 3, 1926.
Batteries, Storage. Dixie Battery Manufacturing Co. 239,752; Mar. 13; Serial No. 254,656; published Dec. 27, 1927.
Horn or loud-speaking units for radio receiving sets. Frisch Brothers. 239,826; Mar. 13; Serial No. 221,605; published Sept. 20, 1927.
Units and grid leaks, Resistance. Electro-Motive Engineering Corporation. 239,975; Mar. 13.

CLASS 22.

Toys, dolls, and games. Firm of F. A. O. Schwarz. 31,840; renewed Aug. 2, 1928.

CLASS 23.

Automobile accessories. Jambor Tool & Stamping Company. 239,770; Mar. 13; Serial No. 249,226; published Jan. 3, 1928.
Conveyor apparatus. Fairfield Engineering Company. 239,976; Mar. 13.
Cutlery. Moore & Handley Hardware Company. 68,730; renewed Apr. 28, 1928.
Knives, Ink. American Type Founders Company. 239,990; Mar. 13.
Knives, Machine. R. J. Dowd Knife Works. 239,738; Mar. 13; Serial No. 257,153; published Jan. 3, 1928.
Lathes, shapers, milling machines, and centering machines. Hendey Machine Company. 239,987; Mar. 13.
Machines and parts thereof. Brown & Sharpe Mfg. Co. 239,751; Mar. 13; Serial No. 255,052; published Jan. 3, 1928.
Milling cutters. E. H. Bryant. 239,979; Mar. 13.
Razors, Hair-trimming attachment for. Trimette Company. 239,741; Mar. 13; Serial No. 256,643; published Jan. 3, 1928.
Scissors. Sears, Roebuck and Co. 239,984; Mar. 13.
Sewing machines and attachments. Singer Manufacturing Company. 69,900–1; renewed July 14, 1928.
Tire spreaders. Shapiro Manufacturing Company. 239,750; Mar. 13; Serial No. 255,087; published Jan. 3, 1928.
Tobacco-leaf-stripping machines and machinery used in connection with the manufacture of tobacco. M. G. P. Phillips. 239,736; Mar. 13; Serial No. 257,511; published Jan. 3, 1928.
Tools. Moore & Handley Hardware Company. 68,729; renewed Apr. 28, 1928.
Tools. Simmons Hardware Company. 70,084; renewed July 28, 1928.
Tools and tool handles. Moore & Handley Hardware Company. 68,728; renewed Apr. 28, 1928.
Typewriting machines and parts. Underwood Typewriter Company. 68,628; renewed Apr. 21, 1928.

CLASS 26.

Phonograph apparatus, appliances, and instruments. Eastman Kodak Company. 67,137; renewed Jan. 21, 1928.

CLASS 27.

Watches, watchcases, and watch movements. Katz & Ogush, Inc. 239,962; Mar. 13.
Watches, watchcases, watch movements, and parts thereof. I. Tannenbaum. 239,960; Mar. 13.

CLASS 28.

Buttons, Cuff. Art Wire and Stamping Company. 239,820; Mar. 13; Serial No. 191,250; published Apr. 21, 1925.

CLASS 29.

Brushes. Solo-Horton Brush Company. 239,982; Mar. 13.
Brushes, Toilet. Cauvigny Brush Co. 67,252; renewed Jan. 28, 1928.

CLASS 32.

Furniture. Porcelain Enamel and Manufacturing Company of Baltimore. 239,758; Mar. 13; Serial No. 246,706; published Jan. 3, 1928.
Radio battery consoles and cabinets. W. H. Kitto. 239,814; Mar. 13; Serial No. 222,075; published Jan. 18, 1927.

CLASS 33.

Glass globes for lighting fixtures. G. E. Mathieu. 239,811; Mar. 13; Serial No. 222,625; published Mar. 23, 1926.
Lenses for vehicle lamps. Indiana Lamp Corporation. 239,754; Mar. 13; Serial No. 245,095; published Jan. 3, 1928.

CLASS 34.

Fuel-burning devices, Liquid-. Williams Oil-O-Matic Heating Corporation. 239,830; Mar. 13; Serial No. 256,984; published Jan. 3, 1928.
Heaters using oil or gas, Water. Everhot Heater Company. 239,835; Mar. 13; Serial No. 256,814; published Jan. 3, 1928.
Lighters, Pocket friction, cigar. M. E. Bernhardt Company. 239,783; Mar. 13; Serial No. 253,734; published Jan. 3, 1928.
Oil-burning systems. Liquo-Gas Company. 239,932; Mar. 13; Serial No. 256,412; published Jan. 3, 1928.
Reflectors, Billiard-table. Silvergio Lamps, Inc. 239,785; Mar. 13; Serial No. 255,356; published Jan. 3, 1928.

CLASS 35.

Rubber and asbestos packing. Ungarische Gummiwaarenfabriks Actiengesellschaft. 68,839; renewed Apr. 28, 1928.
Rubber products. India-. Hood Rubber Company. 31,616; renewed May 31, 1928.

CLASS 37.

Easels. Freedman Cut-Outs, Inc. 239,897; Mar. 13; Serial No. 255,911; published Jan. 3, 1928.
Envelopes, Correspondence. Coast Envelope Company. 239,896; Mar. 13; Serial No. 255,966; published Jan. 3, 1928.
Eraser holders. American Lead Pencil Company. 66,976; renewed Jan. 7, 1928.
Paper, Writing. Fox River Paper Company. 239,884; Mar. 13; Serial No. 257,284; published Jan. 3, 1928.
Pencils, Lead. Eagle Pencil Company. 69,248; renewed June 2, 1928.
Pencils, Lead. Eagle Pencil Company. 69,625; renewed June 23, 1928.
Pens, fountain pens, and pen points. Sager Pen Corporation. 239,890–2; Mar. 13; Serial Nos. 256,424–6; published Jan. 3, 1928.
Pens, pencils, writing paper, etc. A. Rosenberg. 239,728; Mar. 13; Serial No. 254,650; published Jan. 3, 1928.
Tablets, Writing. I. L. Lyons & Company. 239,893; Mar. 13; Serial No. 256,257; published Jan. 3, 1928.
Tracing cloth. L. & C. Hardtmuth. 67,436; renewed Feb. 4, 1928.

CLASS 38.

Books, Printed. New Method Book Bindery, Inc. 240,012; Mar. 13.
Magazine. Albert Publishing Company. 239,885; Mar. 13; Serial No. 257,263; published Jan. 3, 1928.
Magazine. J. H. Brown. 239,777; Mar. 13; Serial No. 257,915; published Jan. 3, 1928.
Magazine. National Employment Exchange. 239,779; Mar. 13; Serial No. 257,989; published Jan. 3, 1928.
Magazine. Zoological Society of San Diego. 239,806; Mar. 13; Serial No. 231,714; published Jan. 3, 1928.
Music books, musical compositions, etc. Wonderkode, Inc. 239,778; Mar. 13; Serial No. 257,950; published Jan. 3, 1928.
Newspaper. F. Agnus, trustee. 69,299; renewed June 2, 1928.
Newspaper columns. L. S. Grigsby. 239,889; Mar. 13; Serial No. 256,930; published Jan. 3, 1928.
Periodical. Farmstead, Stock & Home Company. 239,952; Mar. 13; Serial No. 252,463; published Nov. 22, 1927.
Periodical. E. Hofer & Sons. 239,729; Mar. 13; Serial No. 254,633; published Nov. 29, 1927.
Periodical. Racing Intelligence Corporation. 239,775–6; Mar. 13; Serial Nos. 257,814–15; published Jan. 3, 1928.
Periodical. Williams Institute, Inc. 239,753; Mar. 13; Serial No. 257,719; published Jan. 3, 1928.
Periodicals. M. C. Hanna. 239,774; Mar. 13; Serial No. 257,728; published Jan. 3, 1928.
Publication. Aladdin Publishers. 239,730; Mar. 13; Serial No. 254,839; published Jan. 3, 1928.
Publication. Fawcett Publications, Inc. 239,881; Mar. 13; Serial No. 257,575; published Jan. 3, 1928.
Publication. International Trade Papers, Inc. 239,880; Mar. 13; Serial No. 257,629; published Jan. 3, 1928.
Publications. New England Road Builders Association. 239,886; Mar. 13; Serial No. 257,077; published Jan. 3, 1928.

CLASS 39.

Brassière and dress shields, Combination. I. B. Kleinert Rubber Company. 239,924; Mar. 13; Serial No. 239,886; published Jan. 11, 1927.
Coats, Misses' and women's. Leibman and Hurwitz. 239,996; Mar. 13.
Coats, suits, dresses, etc., Ladies', women's, and children's. L. Murray. 239,997; Mar. 13.
Overshirts of woven material, Men's. Washington Shirt Company. 67,238; renewed Jan. 28, 1928.
Shirts, Men's negligee. Joel Isaacs Shirt Co. 239,829; Mar. 13; Serial No. 236,647; published Jan. 4, 1927.
Shoes. Dr. A. Posner Shoes, Inc. 239,993; Mar. 13.
Smocks. H. Lewis. 240,013; Mar. 13.
Suits for outer wear, Men's and boys'. Smith Bros. Mfg. Co. 239,955; Mar. 13; Serial No. 252,739; published Nov. 15, 1927.
Union suits. Morris and Company. 239,991; Mar. 13.

CLASS 42.

Bunting. United States Bunting Co. 69,653; renewed June 23, 1928.
Cotton piece goods. Joshua Hoyle & Sons, Ltd. 240,009; Mar. 13.
Cotton piece goods. Robinson & Golluber. 239,980; Mar. 13.
Cotton, silk, linen, etc., goods. Jacob Miller's Sons Co. 239,988; Mar. 13.
Curtains, portières, and draperies, Cotton, silk, artificial-silk, and wool. A. J. Norris. 239,978; Mar. 13.
Fabrics in the piece. Chency Brothers. 239,717; Mar. 13; Serial No. 258,066; published Jan. 3, 1928.
Hair nets. B. Frankel Co. 239,813; Mar. 13; Serial No. 222,282; published Dec. 8, 1925.
Rugs, Textile. Castelli Bros., Inc. 239,718; Mar. 13; Serial No. 258,065; published Jan. 3, 1928.
Scrims and marquisettes, curtains, and draperies. Boott Mills. 239,959; Mar. 13.
Sheetings and drillings. Pickens Mill. 69,526; renewed June 16, 1928.
Textile goods. Newichawanick Company. 239,762; Mar. 13; Serial No. 247,700; published Jan. 3, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 239,832; Mar. 13; Serial No. 256,923; published Dec. 13, 1927.

CLASS 43.

Thread. Gardiner Hall Jr. Company. 239,715; Mar. 13; Serial No. 258,122; published Jan. 3, 1928.
Thread. Gardiner Hall Jr. Company. 239,716; Mar. 13; Serial No. 258,120; published Jan. 3, 1928.
Threads, Sewing-machine. Summit Thread Company. 239,714; Mar. 13; Serial No. 258,145; published Jan. 3, 1928.

CLASS 44.

Device used as an aid to hearing. E. B. Meyrowitz, Inc. 239,786; Mar. 13; Serial No. 255,387; published Dec. 27, 1927.
Dressings, gauze products, etc., Surgical. The Bay Company. 239,963; Mar. 13.
Driers, vibrators, massage apparatus, and violet ray apparatus, Electric. Bretty & Beckher. 239,855; Mar. 13; Serial No. 256,169; published Dec. 27, 1927.
Hair curlers. F. Coune. 239,994; Mar. 13.
Hot-water bottles, ice bags, and fountain syringes, Lobl Manufacturing Company. 239,822; Mar. 13; Serial No. 206,674; published Feb. 10, 1925.
Sanitary napkins. S. H. Kress & Co. 239,907–10; Mar. 13; Serial Nos. 257,367–70; published Dec. 27, 1927.
Sanitary napkins. Nuform Corporation. 239,992; Mar. 13.
Therapeutic electric lamps. Yvette Co. 239,929; Mar. 13; Serial No. 256,645; published Dec. 27, 1927.

CLASS 45.

Beverages and compounds for making the same. Orange Crush Company. 239,981; Mar. 13.
Beverages, Nonalcoholic. St. Louis Crystal Water and Soda Co. 239,985; Mar. 13.
Ginger ale. Yukon Club Company. 239,767; Mar. 13; Serial No. 248,455; published Jan. 3, 1928.
Grape juice. Fresno Vineyards Company. 240,007; Mar. 13.
Water, Spring. Mount Zircon Spring Company. 30,629; renewed Oct. 5, 1927.

CLASS 46.

Beverage. Suncrest Packers, Inc. 239,999; Mar. 13.
Beverage, milk and chocolate. Joe Lowe Co., Inc. 239,921; Mar. 13; Serial No. 239,256; published Dec. 27, 1927.
Bird and aquarium supplies. American Seed and Food Products. 239,868; Mar. 13; Serial No. 256,988; published Jan. 3, 1928.
Biscuit, cake, and crackers. National Biscuit Company. 239,839; Mar. 13; Serial No. 256,416; published Dec. 27, 1927.
Bread. Continental Baking Company. 239,797; Mar. 13; Serial No. 258,019; published Jan. 3, 1928.
Bread. Vietmeyer Bros., Inc. 239,798; Mar. 13; Serial No. 258,050; published Jan. 3, 1928.
Bread. Vietmeyer Bros., Inc. 239,800; Mar. 13; Serial No. 258,051; published Jan. 3, 1926.
Butter. Beech-Nut Packing Company. 239,795; Mar. 13; Serial No. 257,853; published Jan. 3, 1928.
Butter. H. H. Brown. 68,132; renewed Mar. 10, 1928.
Candy. W. J. McGrath. 239,773; Mar. 13; Serial No. 249,979; published Jan 3, 1928.
Candy. Nutrine Candy Company. 239,878; Mar. 13; Serial No. 256,536; published Jan. 3, 1928.
Candy. F. M. Switzer. 70,061; renewed July 28, 1928.
Candy bars, Dried-prune. Eugene Fruit Growers Association. 239,900; Mar. 13; Serial No. 255,440; published Dec. 27, 1927.
Canned cranberry sauce. Hills Brothers Company. 239,865; Mar. 13; Serial No. 257,234; published Jan. 3, 1928.
Canned fish. M. A. Rex. 239,821; Mar. 13; Serial No. 205,622; published Jan. 3, 1928.
Canned fruits and vegetables. Oneida County Canning Co. Ltd. 69,028–9; renewed May 12, 1928.
Canned fruits and vegetables. Ridenour-Baker Grocery Co. 67,194; renewed Jan. 21, 1928.
Canned fruits, vegetables, fruit preserves, etc. New York Canners Inc. 239,766; Mar. 13; Serial No. 248,340; published Dec. 27, 1927.
Canned shrimp and oysters. Johnson Canning Company. 239,875; Mar. 13; Serial No. 256,628; published Jan. 3, 1928.
Canned soup, canned salmon, pastry flour, etc. Twitchell-Champlin Company. 239,945; Mar. 13; Serial No. 251,311; published Dec. 27, 1927.
Canned vegetables. Garneau & De Bruyn, Inc. 239,768; Mar. 13; Serial No. 248,830; published Jan. 3, 1928.
Canned vegetables. J. M. Paver Company. 239,873; Mar. 13; Serial No. 256,742; published Jan. 3, 1928.
Canned vegetables, canned fruits, etc. New York Canners Inc. 239,771; Mar. 13; Serial No. 249,370; published Dec. 27, 1927.
Cereal breakfast foods and wheat flour. Malted Cereals Company. 239,861; Mar. 13; Serial No. 257,688; published Jan. 3, 1928.

Cheese, Roquefort. Société des Etablissements Louis Rigal. 239,844; Mar. 13; Serial No. 256,269; published Dec. 27, 1927.
Chili sauce, Tomato. H. G. Prince & Co. 239,930; Mar. 13; Serial No. 256,484; published Dec. 27, 1927.
Chocolate and candy. Pennsylvania Chocolate Company. 69,015; renewed May 12, 1928.
Chocolates. Rockwood & Co. 239,863; Mar. 13; Serial No. 257,600; published Jan. 3, 1928.
Coffee. Bollinger-Hancock Coffee Co. 239,852–3; Mar. 13; Serial Nos. 253,353–4; published Jan. 3, 1928.
Coffee. N. Cassino. 239,812; Mar. 13; Serial No. 225,504; published Dec. 27, 1927.
Crackers, wafers, biscuits, etc. Keebler Weyl Baking Company. 239,847; Mar. 13; Serial No. 254,109; published Dec. 27, 1927.
Doughnuts. Trang Corporation. 239,819; Mar. 13; Serial No. 235,440; published Jan. 3, 1928.
Eggs. Jobbing Association-Farmers Educational and Cooperative Union of America—Kansas Branch. 239,949; Mar. 13; Serial No. 252,047; published Jan. 3, 1928.
Flour. Statesville Flour Mills Co. 239,951; Mar. 13; Serial No. 252,253; published Dec. 27, 1927.
Flour, oats, etc., Pancake. Fishback Company. 239,825; Mar. 13; Serial No. 221,101; published Dec. 27, 1927.
Flour, Self-rising wheat. Dunlop Milling Company. 239,876; Mar. 13; Serial No. 256,567; published Dec. 27, 1927.
Flour, Wheat. Dunlop Milling Company. 239,877; Mar. 13; Serial No. 256,568; published Dec. 27, 1927.
Flour, Wheat. Fisher Flouring Mills Company. 239,799; Mar. 13; Serial No. 258,074; published Jan. 3, 1928.
Flour, Wheat. Larabee Flour Mills Company. 239,965; Mar. 13.
Flour, Wheat. Montana Flour Mills Company. 239,794; Mar. 13; Serial No. 257,844; published Jan. 3, 1928.
Flour, Wheat. Pillsbury Flour Mills Company. 239,864; Mar. 13; Serial No. 257,439; published Dec. 27, 1927.
Flour, Wheat. Pillsbury Flour Mills Company. 239,958; Mar. 13.
Flour, Wheat. Schultz, Baujan & Company. 239,862; Mar. 13; Serial No. 257,637; published Dec. 27, 1927.
Food products composed of Chile con carne in solid form. American Chile Hot Dog Company. 239,872; Mar. 13; Serial No. 256,804; published Jan. 3, 1928.
Fruits. California Orchard Products Co. 239,851; Mar. 13; Serial No. 253,571; published Dec. 27, 1927.
Fruits and vegetables, Bottled, canned, preserved, evaporated, and pickled. Wayne County Preserving Company. 69,599; renewed June 23, 1928.
Fruits, Fresh citrous. Duarte-Monrovia Citrus Association. 239,793; Mar. 13; Serial No. 257,790; published Jan. 3, 1928.
Fruits, Fresh citrous. L. Maxcy Inc. 239,871; Mar. 13; Serial No. 256,959; published Jan. 3, 1928.
Fruits, grapes, etc. Mutual Orange Distributors. 239,869–70; Mar. 13; Serial Nos. 256,962–3; published Jan. 3, 1928.
Gelatin for use as food. J. & G. Cox Limited. 68,407; renewed Apr. 7, 1928.
Grapes, fruits, and melons, Fresh. Frances Citrus Association. 239,943; Mar. 13; Serial No. 250,532; published Jan. 3, 1928.
Lemons, Fresh. Chula Vista Mutual Lemon Association, Inc. 239,792; Mar. 13; Serial No. 257,785; published Jan. 3, 1928.
Malt extract. Samuel Kunin & Sons. 239,787; Mar. 13; Serial No. 255,449; published Dec. 27, 1927.
Malt extracts. Beech-Nut Packing Company. 239,789; Mar. 13; published Dec. 27, 1927.
Malt sirup. Lucky Life Distributing Co. 239,784; Mar. 13; Serial No. 254,464; published Dec. 27, 1927.
Malt sirup and malt extracts for food purposes. Peoria Malt Food Products Company. 239,809; Mar. 13; Serial No. 226,737; published June 29, 1926.
Mayonnaise. Royal Food Company. 239,918; Mar. 13; Serial No. 244,109; published Dec. 27, 1927.
Milk, coffee, cocoa, and coffee extract, Condensed. New York Condensed Milk Company. 31,752; renewed June 28, 1928.
Milk, Evaporated and condensed. Carnation Milk Products Company. 239,791; Mar. 13; Serial No. 255,960; published Dec. 27, 1927.
Olive oil, canned tunny fish, canned sardines, etc. Paul Todaro & Co. 239,940; Mar. 13; Serial No. 256,227; published Dec. 27, 1927.
Pop corn. Reid, Murdoch & Co. 239,867; Mar. 13; Serial No. 257,081; published Jan. 3, 1928.
Potatoes, Seed. Atlantic Commission Co. 239,904; Mar. 13.
Pretzels. S. A. Esterly. 239,764; Mar. 13; Serial No. 247,754; published Dec. 27, 1927.
Pretzels and biscuits. S. A. Esterly. 239,763; Mar. 13; Serial No. 247,753; published Dec. 27, 1927.
Salad dressing, salad oil, condiments, and sweet relish. California Condiment Company. 240,006; Mar. 13.
Sandwiches. W. G. Barnes. 240,011; Mar. 13.
Sandwiches. G. Myers. 239,781; Mar. 13; Serial No. 257,759; published Jan. 3, 1928.
Sandwiches, Toasted. C. V. Champion & Company. 239,796; Mar. 13; Serial No. 257,967; published Jan. 3, 1928.
Semolina, a product made from wheat. Frank R. Prina Corporation. 239,860; Mar. 13; Serial No. 257,703; published Jan. 3, 1928.
Vanilla and compounds, Natural and artificial. Felton Chemical Company. 239,928; Mar. 13; Serial No. 256,665; published Dec. 27, 1927.
Vegetable salad oil. D. F. De Bernardi & Co. 239,788; Mar. 13; Serial No. 255,488; published Dec. 27, 1927.

CLASS 48.

Malt cereal beverages. Valentin Blatz Brewing Company. 239,920; Mar. 13; Serial No. 236,982; published Nov. 8, 1927.

CLASS 49.

Geneva. De Nederlandsche Gist- & Spiritusfabriek. 66,575; renewed Dec. 10, 1927.
Gin. Tanqueray Gordon & Co. Limited. 68,640; renewed Apr. 21, 1928.

CLASS 50.

Caps for bottles and bottle stoppers. S. Kasser. 239,946; Mar. 13; published Nov. 29, 1927.
Closure caps. Anchor Cap & Closure Corporation. 239,742; Mar. 13; Serial No. 256,558; published Dec. 20, 1927.
Electrotypes. Royal Electrotype Company. 239,760; Mar. 13; Serial No. 247,391; published Dec. 27, 1927.
Signals for use on vehicles, road barriers, etc., Safety. Thos. E. Collins & Co. 239,950; Mar. 13; Serial No. 252,089; published Dec. 13, 1927.

ALPHABETICAL LIST OF LABELS.

Aplink Orchards. For Apple Juice. J. Ink. 33,603; Mar. 13.
Arlanne Sweets. For Candy. Quimby & Wallace. 33,613; Mar. 13.
De-Luxe Ten Pins. For De-Luxe Tenpins—Namely, A Game of Skill. Strombeck-Becker Mfg. Co. 33,661; Mar. 13.
Fearless. For Lettuce. Lee & Knobel. 33,605; Mar. 13.
Genesee. For Toilet Paper. Fort Howard Paper Company. 33,600; Mar. 13.
Golden Rule. For Fresh Oranges. Monte Vista Citrus Association. 33,608; Mar. 13.
Hawaiian Sausage. For a Food Confection. P. E. Seely. 33,656; Mar. 13.
Hazel Brand Apple Butter. For Apple Butter. Geo. Rasmussen Co. 33,633; Mar. 13.
Hazel Brand Chili Sauce. For Chili Sauce. Geo. Rasmussen Co. 33,640; Mar. 13.
Hazel Brand Dainty Green Lima Beans. For Dainty Green Lima Beans. Geo. Rasmussen Co. 33,638; Mar. 13.
Hazel Brand Distilled White Vinegar. For White Vinegar. Geo. Rasmussen Co. 33,629; Mar. 13.
Hazel Brand Green Beans. For Extra Choice Green Beans, Also Cut Green Beans. Geo. Rasmussen. 33,637; Mar. 13.
Hazel Brand Lemon Cookies. For Lemon Cookies. Geo. Rasmussen Co. 33,650; Mar. 13.
Hazel Brand Mayonnaise. For Mayonnaise. Geo. Rasmussen Co. 33,640; Mar. 13.
Hazel Brand Peas. For Extra Sifted Peas, Sifted Peas, Tiny Sifted Peas, Fancy Extra Sifted Peas, and Select Peas. Geo. Rasmussen. 33,649; Mar. 13.
Hazel Brand Pure Currant Jelly. For Pure Currant Jelly. Geo. Rasmussen Co. 33,632; Mar. 13.
Hazel Brand Pure Grape Jelly. For Pure Grape Jelly. Geo. Rasmussen Co. 33,635; Mar. 13.
Hazel Brand Reduced Cider Vinegar. For Cider Vinegar. Geo. Rasmussen Co. 33,630; Mar. 13.
Hazel Brand Selected Manzanilla Olives. For Manzanilla Olives. Geo. Rasmussen Co. 33,634; Mar. 13.
Hazel Brand Selected Queen Olives. For Queen Olives. Geo. Rasmussen Co. 33,631; Mar. 13.
Hazel Brand Sugar Cookies. For Sugar Cookies. Geo. Rasmussen Co. 33,651; Mar. 13.
Hazel Brand Tomatoes. For Tomatoes. Geo. Rasmussen Co. 33,628; Mar. 13.
Hazel Brand Wax Beans. For Extra Choice Wax Beans, Also Cut Wax Beans. Geo. Rasmussen Co. 33,636; Mar. 13.
Irene Assortment Every Evening Chocolates. For Candy. Milwaukee Paper Box Co. 33,607; Mar. 13.
Iron Tonic. For a Medicinal Preparation. D. Stiro. 33,660; Mar. 13.
Joseph's Herb Medicine. For Medicine for the Relief of Asthma, Consumption, and Colds. J. Gianni. 33,602; Mar. 13.

Killarney. For Lettuce. S. J. Gallagher Inc. 33,601; Mar. 13.
La Dawn. For Cosmetics. J. A. Williams. 33,664; Mar. 13.
La Mesa. For Fresh Oranges. Monte Vista Citrus Association. 33,609; Mar. 13.
Little Nemo. For Canned Peas. Krier Preserving Company. 33,604; Mar. 13.
Meat Ball. For a Food Confection. P. E. Seely. 33,657; Mar. 13.
Nutricia Holstein Milk. Pasteurized, Selected Drinking Milk. For Milk. Nutricia Farms Company. 33,610; Mar. 13.
Oriental Sausage. For a Food Confection. P. E. Seely. 33,658; Mar. 13.
Oxford Arms. For Cigars. Ruy Suarez & Company, Inc. 33,662; Mar. 13.
Pango Pango. For Candy. Folly Town Company. 33,599; Mar. 13.
Persian Sausage. For a Food Confection. P. E. Seely. 33,655; Mar. 13.
Phillips. For Tomato Catsup. Phillips Packing Co. 33,612; Mar. 13.
Radio-Maid. For Candy. Helen Ardelle Candy Company. 33,597; Mar. 13.
Raindrops. For Combined Powdered Soap and Water Softener. Raindrop Chemical Company. 33,614; Mar. 13.
Red Owl. For Fresh Carrots. Red Grande Valley Vegetable Grower's Exchange. 33,652; Mar. 13.
Roly-Poly. For Canned Tomatoes. Utah Canning Co. 33,663; Mar. 13.
Simon Pure. For Canned Salmon. Simon Bros. Co. Inc. 33,659; Mar. 13.
Sol-Esco. For a Patented Cleaning Compound. Cowles Detergent Co. 33,598; Mar. 13.
Spanish Salt. For Medicinal Salt. Dr. R. G. Lopez. 33,606; Mar. 13.
Sweet Girl Brand Apricot Preserves. For Apricot Preserves. Geo. Rasmussen Co. 33,627; Mar. 13.
Sweet Girl Brand Asparagus Tips. For Asparagus Tips. Geo. Rasmussen Co. 33,618; Mar. 13.
Sweet Girl Brand Bartlett Pears. For Bartlett Pears. Geo. Rasmussen Co. 33,647; Mar. 13.
Sweet Girl Brand Blackberry Preserves. For Blackberry Preserves. Geo. Rasmussen Co. 33,620; Mar. 13.
Sweet Girl Brand Country Gentleman Corn. For Corn. Geo. Rasmussen Co. 33,646; Mar. 13.
Sweet Girl Brand Crushed Hawaiian Pineapple. For Crushed Pineapple. Geo. Rasmussen Co. 33,641; Mar. 13.
Sweet Girl Brand Cut Wax Beans. For Cut Wax Beans. Geo. Rasmussen Co. 33,616; Mar. 13.
Sweet Girl Grand Fancy Wax Beans. For Fancy Wax Beans. Geo. Rasmussen Co. 33,617; Mar. 13.
Sweet Girl Brand Loganberry Preserves. For Loganberry Preserves. Geo. Rasmussen Co. 33,626; Mar. 13.
Sweet Girl Brand Nectar Preserves. For Nectar Preserves. Geo. Rasmussen Co. 33,623; Mar. 13.
Sweet Girl Brand Peach Preserves. For Peach Preserves. Geo. Rasmussen Co. 33,619; Mar. 13.
Sweet Girl Brand Pineapple Preserves. For Pineapple Preserves. Geo. Rasmussen Co. 33,622; Mar. 13.
Sweet Girl Brand Plum Preserves. For Plum Preserves. Geo. Rasmussen Co. 33,621; Mar. 13.
Sweet Girl Brand Pumpkin. For Pumpkin. Geo. Rasmussen Co. 33,648; Mar. 13.
Sweet Girl Brand Raspberry Preserves. For Raspberry Preserves. Geo. Rasmussen Co. 33,625; Mar. 13.
Sweet Girl Brand Red Kidney Beans. For Red Kidney Beans. Geo. Rasmussen Co. 33,643; Mar. 13.
Sweet Girl Brand Sliced Hawaiian Pineapple. For Pineapple. Geo. Rasmussen Co. 33,645; Mar. 13.
Sweet Girl Brand Strawberry Preserves. For Strawberry Preserves. Geo. Rasmussen Co. 33,624; Mar. 13.
Sweet Girl Brand Tomato Puree. For Tomato Purée. Geo. Rasmussen Co. 33,615; Mar. 13.
Sweet Girl Brand Yellow Cling Peaches. For Peaches. Geo. Rasmussen Co. 33,644; Mar. 13.
Sweet Girl Spiced Jelly Drops. For Candy. Geo. Rasmussen Co. 33,642; Mar. 13.
Syrian Sausage. For a Food Confection. P. E. Seely. 33,654; Mar. 13.
The Rockford Brand. For Macaroni. Rockford Macaroni Mfg. Co. 33,653; Mar. 13.
Tower. For Ginger Ale. O. K. Distilled Soda Water Co. 33,611; Mar. 13.

ALPHABETICAL LIST OF PRINTS.

Les Poudres Coty. For Powder. Coty, Inc. 10,711; Mar. 13.
Making a Name For Himself. For Pencils. Joseph Dixon Crucible Company. 10,712; Mar. 13.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See McKinley, Charles W., assignor.)
A C Spark Plug Company. (See Nutt, Frank N., assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Apparatus for cutting single or plied-up stock. 1,662,596; Mar. 13.
Abbott, Geoffrey J., London, England. Expanding pulley. 1,662,654; Mar. 13.
Abel, Clarence E., Denver, Colo., assignor of one-half to J. L. Frank, Los Angeles, Calif. Curtain and drapery hanger. 1,662,049; Mar. 13.
Abraham, Herbert, assignor to The Ruberoid Co., New York, N. Y. Process and apparatus for manufacturing prepared roofing strips. 1,662,655; Mar. 13.
Abramchik, Max, Coney Island, N. Y. Drying macaroni, spaghetti, and like dough products. 1,662,656; Mar. 13.
Adams, Harold S. and L. Meuser, Nauzatuck, Conn., assignors to The Naugatuck Chemical Company. Manufacture of diphenylguanidine. 1,662,626; Mar. 13.
Adams, John and W. H., Burlington, N. J. Extension for scraper bowls. 1,662,732; Mar. 13.
Adams, William H. (See Adams, John and W. H.)
Adler, Alfred A., New York, N. Y., and H. Albertman, Philadelphia, Pa., assignors to Jacquard Knitting Machine Co., Inc., Union Hill, N. J. Knitting machine. 1,662,627; Mar. 13.
Adsero, John, Messina, Transvaal, South Africa. Safety device for mine skips, lifts, and the like. 1,662,692; Mar. 13.
Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture brace or article of similar nature. Des. 74,642; Mar. 13.
Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture arm or article of similar nature. Des. 74,643; Mar. 13.
Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture brace or article of similar nature. Des. 74,644; Mar. 13.
Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture backplate or analogous article. Des. 74,645; Mar. 13.
A-Kee-Na Products Company. (See Wilkes, C. H., and Calhoun, assignors.)
Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Locking mechanism for lockers. 1,662,773; Mar. 13.
Albertman, Harry. (See Adler, A. A., and Albertman.)
Alderson, Charles A., Virden, Ill. Wire stretcher. 1,662,733; Mar. 13.
Aliatt, Thomas, Westfield, N. J., assignor, by mesne assignments, to Millie Patent Holding Co. Inc., New York, N. Y. Bag-closing machine. Re16,897; Mar. 13.
Allen, James E., and H. G. Schwoeppe, assignors to Boyer Fire Apparatus Company, Logansport, Ind. Chemical fire-extinguishing device. 1,662,053; Mar. 13.
Allen, Scott E., and O. N. Wiswell, assignors to Swing-spout Measure Co., Los Angeles, Calif. Swing-spout measure. 1,662,050; Mar. 13.
Allis-Chalmers Manufacturing Company. (See Geist, Walter, assignor.)
Allyn, William N., Auburn, N. Y. Surgical instrument. 1,662,227; Mar. 13.
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Safety device for stokers. 1,662,657; Mar. 13.
American Cyanamid Company. (See Charlton, Harry W., assignor.)
American Dressler Tunnel Kilns, Inc. (See Dressler, Conrad, assignor.)
American Engineering Company. (See Alpern, Maxwell, assignor.)
American Engineering Company. (See Weingartner, Anthony E., assignor.)
American Laundry Machinery Company, The. (See Tuil, Ivan M., assignor.)
American Optical Company. (See Kerr, Charles H., assignor.)
American Optical Company. (See Maynard, Albert E., assignor.)
American Ornamental Bottle Corporation. (See Mas, George N., assignor.)
American Plumbing & Heating Company. (See Hessel, Edward L., assignor.)
American Smelting and Refining Company. (See Rose, C. A., and Read, assignors.)
American Steel and Wire Company of New Jersey, The. (See Ralston, Harley C., assignor.)
American Telephone & Telegraph Company. (See Herman, Joseph, assignor.)
American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)
American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)
American Well Works, The. (See Sperry, John B., assignor.)
Andale Engineering Company. (See McNeal, Daniel R., assignor.)
Andersen, Alfred O., Bridgeport, Conn. Two-cycle internal-combustion engine. 1,662,097; Mar. 13.
Anderson, Clarence G., Los Angeles, Calif. Vehicle door latch. 1,662,450; Mar. 13.
Anderson Company. (See Anderson, Daniel G., assignor.)
Anderson, Daniel G., assignor to Anderson Company, Los Angeles, Calif. Extension-leaf construction for tables. 1,662,228; Mar. 13.
Anderson, James W., assignor to Monarch Governor Company, Detroit, Mich. Governor. 1,662,098; Mar. 13.
Anderson, Olaf A., Hamilton, Ohio. Locking device for motor vehicles. 1,662,099; Mar. 13.
Andrew, James P., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Bromine recovery. 1,662,355; Mar. 13.
Apostleship Of Prayer, Incorporated. (See Feeley, William J., assignor.)
Archer, Thomas P., and F. M. Edgar, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Reversible latch control. 1,662,485; Mar. 13.
Arey, Ralph G., assignor to Worcester Bilt-Rite Company, Worcester, Mass. Wiping element for windshield cleaners. 1,663,290; Mar. 13.
Arvey Manufacturing Co., The. (See Hall, Richard E., assignor.)
Ashbaugh, John H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,662,559; Mar. 13.
Ashley, Enos, Minneapolis, Minn. Automobile heater. 1,662,486; Mar. 13.
Asprooth, Axel HJ. (See Leoni, A. M., and Asprooth.)
Associated Silver Company. (See Lashar, Thomas B., assignor.)
Astafiev, Michael, Chelsea, London, England. Optical system. 1,662,693; Mar. 13.
Augenstein, Karl, Cranston, assignor to Automatic Gold Chain Company, Providence, R. I. Bracelet end hook. 1,662,628; Mar. 13.
Autodex Company. (See Nevin, Donald A., assignor.)
Automatic Gold Chain Company. (See Augenstein, Karl, assignor.)
Automatic Signal & Sign Company, The. (See Myers, Parke G., assignor.)
Bach, James S., Toronto, Ontario, Canada. Sound amplifier casing. Des. 74,646; Mar. 13.
Bach, Oscar B., New York, N. Y. Torchère. Des. 74,647; Mar. 13.
Bach, Oscar B., New York, N. Y. Torchère. Des. 74,648; Mar. 13.
Bach, Oscar B., New York, N. Y. Table lamp. Des. 74,649; Mar. 13.
Bach, Oscar B., New York, N. Y. Floor lamp. Des. 74,650; Mar. 13.
Baden-Powell, Baden F. S., Sevenoaks, England. Apparatus for discharging projectiles by centrifugal force. 1,662,629; Mar. 13.
Baer, Lawrence E., assignor to The Baer & Wilde Company, Attleboro, Mass. Soft-collar holder. 1,662,774; Mar. 13.
Baer & Wilde Company, The. (See Baer, Lawrence E., assignor.)
Bailey, Percy S., Marblehead, Mass., assignor to General Electric Company. Reflector. Des. 74,651; Mar. 13.
Bailey-Reynolds Chandelier Company, The. (See Livers, John F., assignor.)
Baker, Harry J., Indianapolis, Ind., assignor to The Prest-O-Lite Company, Inc. Soldering iron. 1,662,734; Mar. 13.
Baldwin, Arthur S., Baltimore, Md., and E. E. Richmond, Huntington, Mass. Internal-combustion motor. 1,662,597; Mar. 13.
Ball, John P., Chicago, Ill. Apparatus for and method of treating fluids. 1,662,180; Mar. 13.

Ball, John P., Chicago, Ill. Vibration-indicating means. 1,662,356; Mar. 13.
Ballot, Ernest M., Paris, France. Apparatus for regulating the tension of chains. 1,662,229; Mar. 13.
Baucroft, James, Accrington, England, assignor to H. & B. American Machine Company, Pawtucket, R. I. Roller for cleaning and stripping the cylinders of carding machines or loosening fiber therefrom. 1,662,658; Mar. 13.
Barry, James, Grafton, Calif. Dishwashing machine. 1,662,181; Mar. 13.
Bartmess, William E., Kenwood, Okla. Lock. 1,662,694; Mar. 13.
Barton, Larry J., McGill, Nev. Abrasive-resisting metal and making same. 1,662,357; Mar. 13.
Bassett, Harry P., Cynthiana, Ky. Making alkali-metal sulphydrates. 1,662,735; Mar. 13.
Bassick Manufacturing Company, The. (See Trinquart, Louis G., assignor.)
Bastian-Blessing Company, The. (See Bastian, Charles L., assignor.)
Bastian, Charles L., assignor to The Bastian-Blessing Company, Chicago, Ill. Valve. 1,662,291; Mar. 13.
Batchelder, Charles H., assignor to W. G. Franklin, C. W. Fisher, and E. B. Fisher, doing business as the E. I. Franklin & Co., North Attleboro, Mass. Chain bracelet and clasp. 1,662,451; Mar. 13.
Batchelor, Curtis E., Oklahoma City, Okla. Doll. Des. 74,652; Mar. 13.
Bausch & Lomb Optical Company. (See Sabel, John C., assignor.)
Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
Beall, John C. W., Washington, D. C. Eye-testing device. 1,662,054; Mar. 13.
Bell Telephone Laboratories, Inc. (See Manderfeld, Emanuel C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stoller, Hugh M., assignor.)
Bench, John D., Okmulgee, Okla. Bottle-dispensing-machine attachment. 1,662,230; Mar. 13.
Bender, Robert C., St. Louis, Mo. Combination vehicle and walker. 1,662,292; Mar. 13.
Bennett, William C., Washington, D. C. Portable writing shelf. 1,662,293; Mar. 13.
Berquist, Hugo, Swissvale, assignor to W. S. Elliott, Pittsburgh, Pa. Liquid-treating apparatus. 1,662,630; Mar. 13.
Bethel-Player Co. (See Summers, Kenneth E., assignor.)
Bettinardi, Robert, Newark, N. J. Tire lock. 1,662,294; Mar. 13.
Bettoli, Rudolph W., assignor of one-third to H. M. Peattie, San Rafael, and one-third to J. E. Trabuco, San Francisco, Calif. Nursing bottle. Des. 74,653; Mar. 13.
Bialosky, Samuel J. (See Corey, William R. assignor.)
Biehler Joseph G., et al. (See Pulver, Henry H., assignor.)
Bierman, Frank H., Minneapolis, Minn. Clutch and clutch-actuating mechanism. 1,662,598; Mar. 13.
Birks, Falconer M., London, England. Desuperheater. 1,662,452; Mar. 13.
Birnstock, William W., assignor to Vapor Heating Company, York, Pa. Modulating valve. 1,662,659; Mar. 13.
Black, Lee J., Beaumont, Tex. Drum assembly. 1,662,410; Mar. 13.
Blades, Newton, and L. V. Marks, assignors to The Sterling Telephone & Electric Company Limited, London, England. Impulse transmitter for automatic telephone systems. 1,662,141; Mar. 13.
Blois, Félix, Paris, France. Apparatus for the enlarging of rings. 1,662,631; Mar. 13.
Bloss, Richard R., R. C. Pfeil, and E. B. Maurer, assignors to The International Derrick & Equipment Company, Columbus, Ohio. Sand-reel structure. 1,662,775; Mar. 13.
Blum, Carl K., Brooklyn, N. Y. Packing case. 1,662,100; Mar. 13.
Blum, Edward, jr., and W., Chicago, Ill. Photographic transfer. 1,662,632; Mar. 13.
Blum, William. (See Blum, Edward, jr., and W.)
Boeck, Peter M., Grand Haven, assignor, by mesne assignments, to J. R. M. Knudsen, Muskegon, Mich. Metal window. 1,662,453; Mar. 13.
Boese, Edward H., Villa Park, Ill., assignor to Chicago Portrait Company, Chicago, Ill. Picture frame. Des. 74,654; Mar. 13.
Bohr, Frank M., Bostop, Mass. Shoe. Des. 74,655; Mar. 13.
Bold, Frederick W. Chelsea, assignor to C. H. Pearson, Brookline, Mass. Fuse. 1,662,695; Mar. 13.
Bolt, James O., Leeds, Ala. Steering device. 1,662,560; Mar. 13.
Bonat, Harry. (See Bonat, Samuel and H.)
Bonat, Samuel and H., New York, N. Y. Spindle for permanent-hair-waving machines. 1,662,411; Mar. 13.
Booth, William N., Detroit, Mich. Machine for assembling spoked wheels. 1,662,412; Mar. 13.
Borcherdt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Concentration of barite. 1,662,633; Mar. 13.
Borcherdt, Walter O., Mountain Lakes, N. J., assignor to The New Jersey Zinc Company, New York, N. Y. Concentration of barite. 1,662,634; Mar. 13.
Borden, Eugene, and A. Martell, Hollywood, Calif. Radiator-cap ornament. Des. 74,656; Mar. 13.
Bossi, Enea, New York, N. Y. assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation. Liquid-fuel feed. 1,662,101; Mar. 13.
Boston Woven Hose & Rubber Company. (See Bruner, Harold G., assignor.)
Boyer Fire Apparatus Company. (See Allen, J. E., and Schwoeppe, assignors.)
Boynton, Stanley E., Oak Park, assignor to C. E. Reed, McHenry Township, Ill. Lathe. 1,662,561; Mar. 13.
Bozeman, John F., West Columbia, and J. D. Cole, Orange, Tex. Drill stem. 1,662,358; Mar. 13.
Brady, Thomas, East Orange, N. J. Game. 1,662,231; Mar. 13.
Branagan, Leo P. (See Doogood, L. J., and Branagan.)
Brandt, Harrison D., Sharon Hill, Pa. Necktie press. 1,662,562; Mar. 13.
Brass Goods M'fg. Co. (See Hyatt, Frank S., assignor.)
Braun, Carl F., San Francisco, Calif. Evaporator and method of operation. 1,662,142; Mar. 13.
Braun, Carl F., Pasadena, Calif. Heat-exchange apparatus. 1,662,143; Mar. 13.
Braus, Leon. New York, N. Y. Sofa. Des. 74,657; Mar. 13.
Bredbury, Owen W., Reading, Mass. Loosening roll for carding machines. Re16,898; Mar. 13.
Breedon, Edward V., et al. (See Browning, Robert D., assignor.)
Bremer, Charles M., Chicago, Ill. Printing-plate-holding means. 1,662,232; Mar. 13.
Brennan, James S., Attleboro, Mass. Ornamental lighting structure. 1,662,359; Mar. 13.
Briggs, Stephen F., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,662,487; Mar. 13.
Briggs & Stratton Corporation. (See Briggs, Stephen F., assignor.)
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briggs & Stratton Corporation. (See Soreng, Edgar M., assignor.)
Bright, David M., Winnipeg, Manitoba, Canada. Wrench. 1,662,413; Mar. 13.
British Dyestuffs Corporation. (See Horsfall, R. S., Lawrie, and Hill, assignors.
Brown, Clarence W., Los Angeles, Calif. Trolley-wheel carrier. 1,662,233; Mar. 13.
Brown, Lz A., Alto, assignor to Corduroy Tire Company, Grand Rapids, Mich. Tire. 1,662,599; Mar. 13.
Brown, Millard D., assignor to Continental Mills, Inc., Philadelphia, Pa. Knitted fabric. Des. 74,658; Mar. 13.
Brown, Sumner E., Dedham, Mass. Focusing device for automobile headlights. 1,662,360; Mar. 13.
Browne, William G., Yonkers, N. Y., and R. W. Olmsted, San Francisco, Calif. Advertising sign. Des. 74,659; Mar. 13.
Browne, William G., Yonkers, N. Y., and R. W. Olmsted, San Francisco, Calif. Advertising sign. Des. 74,660; Mar. 13.
Browne, William G., Yonkers, N. Y., and R. W. Olmsted, San Francisco, Calif. Advertising sign. Des. 74,661; Mar. 13.
Browning, Robert D., assignor of one-third to C. M. Crafton, Orange, and one-third to E. V. Breeden, Gordonsville, Va. Harvester thrasher. 1,662,736; Mar. 13.
Bruner, Harold G., Wakefield, assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass. Hose nipple. 1,662,051; Mar. 13.
Brunhoff, Edward, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Bottle-washing apparatus. 1,662,144; Mar. 13.
Brunhoff Manufacturing Company, The. (See Brunhoff, Edward, assignor.)
Brysilka, Limited. (See Schubert, Friedrich W., assignor.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buhl Stamping Company. (See Comp, Charles A., assignor.)
Bullard Machine Tool Co., The. (See Henrickson, assignor.)
Bullock, Orin M., Oakland, Calif. Agricultural implement. 1,662,052; Mar. 13.
Burgess, Martin L., assignor to Marietta Mfg. Co., Indianapolis, Ind. Making decorating glassware. 1,662,295; Mar. 13.
Burke, Paul, and A. Orloff, assignors to Northwest Engineering Corporation, Green Bay, Wis. Automatic brake. 1,662,635; Mar. 13.
Burkhardt, Otto, Bayreuth, Germany. Stone saw. 1,662,488; Mar. 13.
Burnet, Lewis C. (See Helmus, E., and Burnet.)
Busch, Rudolph, sr., Shelltown, Md. Tractor-operated winch. 1,662,414; Mar. 13.
Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating rubber with aldehyde derivatives and products. 1,662,182; Mar. 13.
Caesar, Irving, New York, N. Y. Cane. 1,662,102; Mar. 13.
California Cotton Mills Co. (See Millar, John R., assignor.)
Callan, Harry H., Lexington, Ky. Clothes-pressing machine. 1,662,696; Mar. 13.
Calhoun, George E. (See Wilkes, C. H., and Calhoun.)

Cameron, Wm., & Co. Inc. (See Johnston, William D., assignor.)
Candreva, Pietro, Chicago, Ill. Plow. 1,662,636; Mar. 13.
Canton Foundry & Machine Company, The. (See Wesp, Edward J., assignor.)
Carlson, Charles A., Long Beach, Calif. Gas anchor. 1,662,296; Mar. 13.
Carlson, John E., and W. G. Nordman, Elkhart, Ind. Closure structure. 1,662,361; Mar. 13.
Carter, Carrol C., Cairo, Ill. Neck yoke. 1,662,737; Mar. 13
Case, J. I., Threshing Machine Company. (See MacGregor, Wallace F., assignor.)
Case, Lynn B. (See Waldron, W. H., and Case.)
Catlineau, André, St. Fons, France, assignor to Society of Chemical Insdutry in Basle, Basel, Switzerland. Dyestuffs and making same. 1,662,415; Mar. 13.
Catron Manufacturing Company. (See Risser, Ross E., assignor.)
Cavin, William D. (See Nicholson, J. H., and Cavin.)
Central Brass Manufacturing Company, The. (See Mortimer, John N., assignor.)
Central Scientific Company. (See Klopsteg, Paul E., assignor.)
Centre Lighting Fixture Mfg. Co., The. (See Novin, Joseph, assignor.)
Chagnon, Georges, Mitchell Station, Quebec, Canada. Rail joint. 1,662,234; Mar. 13.
Champion No-Leak Paper Dish Company, The. (See Knoeppel, Frank, assignor.)
Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Connecting device. 1,662,055; Mar. 13.
Chankin, Joseph. (See Jaffe, M. J., and Chankin.)
Chann, Thomas, New York, N. Y. Brake mechanism for automobiles. 1,662,183; Mar. 13.
Chapman Valve Manufacturing Company, The. (See Smith, Emory T., assignor.)
Charlton, Harry W., assignor to American Cyanamid Company, New York, N. Y. Phosphorus material. 1,662,480; Mar. 13.
Chase, Charles C., St. Joseph, Mo. Candy menu stand. 1,662,637; Mar. 13.
Chemical Works formerly Sandoz. (See Stocker, Ernst, assignor.)
Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for weft-replenishing looms. 1,662,235; Mar. 13.
Chicago Fuse Mfg. Company. (See LLane, James L., assignor.)
Chicago Portrait Company. (See Boese, Edward H., assignor.)
Chitra, John, Chicago, Ill. Lamp shade. 1,662,362; Mar. 13
Chollet, Louis, assignor to Compagnie Industrielle et Commerciale du Cycle et de L'Automobile, Paris, France. Motor horn. 1,662,363; Mar. 13.
Cincinnati Butchers Supply Company, The. (See Schmidt, Oscar C., assignor.)
Clark, Eugene F., Leaksville, N. C., assignor to Marshall Field Mills Corporation, Philadelphia, Pa. Tube frame for tufted-pile-fabric looms. 1,662,563; Mar. 13.
Clarke-Moore Corporation. (See Moore, Arlington, assignor.)
Claus, Emil L., assignor to Claus Manufacturing Co., Milwaukee, Wis. Oven-heat regulator. 1,662,416; Mar. 13.
Claus Manufacturing Co. (See Claus, Emil L., assignor.)
Clay, Harry C., assignor to Reeves Pulley Company, Columbus, Ind. Controller for variable-speed transmission. 1,662,660; Mar. 13.
Clayton and Lambert Manufacturing Company. (See Ironside, James, assignor.)
Clifton, James, J. Robinson, and J. Spencer, London, England. Time switch. 1,662,697; Mar. 13.
Cunningham, Orin D. (See Hess, R. W., and Cunningham.)
Coal Carbonization Company. (See Hayes, Charles, assignor.)
Contes, Alber F., Bristol, England. Control mechanism. 1,662,661; Mar. 13.
Cochran, Noble O., Morristown, Pa. T square. 1,662,490; Mar. 13.
Cohen, William, Atlantic City, N. J. Cutting and measuring device for paper rollers. 1,662,364; Mar. 13.
Colbert, George F. and W. H., Pittsburgh, Pa. Making mirrors. 1,662,564; Mar. 13.
Colbert, George F. and W. H., Pittsburgh, Pa. Nonglare mirror. 1,662,565; Mar. 13.
Colbert, William H. (See Colbert, George F. and W. H.)
Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Cabinet heater. 1,662,297; Mar. 13.
Cole, Jandon D. (See Bozeman, J. F., and Cole.)
Cole Manufacturing Company. (See Cole, Edward P., assignor.)
Comp, Charles A., assignor to Buhl Stamping Company, Detroit, Mich. Apparatus for tinning milk cans. 1,662,103; Mar. 13.
Comp, Charles A., assignor to Buhl Stamping Company, Detroit, Mich. Milk-can cover and forming the same. 1,662,184; Mar. 13.
Compagnie Industrielle et Commerciale du Cycle et de L'Automobile. (See Chollet, Louis, assignor.)
Comstock, Jackson D., Chester, W. Va. Treating rubber molds. 1,662,365; Mar. 13.
Container Corporation of America. (See Hans, Thomas, assignor.)
Continental Mills, Inc. (See Brown, Millard D., assignor.)
Continental Railway Supply Corporation. (See Norwood, Harry G., assignor.)
Coogle, Charles P., Greenwood, Miss., assignor to United States of America. Sanitary device for repelling mosquitoes and other insects. 1,662,738; Mar. 13.
Cook, Byron L., San Mateo, and E. O. Hermann, Mill Valley, Calif. Brake-power-multiplying device. 1,662,417; Mar. 13.
Cook, William E., New York, N. Y. Carrier for braiding machines. 1,662,454; Mar. 13.
Cooper, Charles, & Company. (See Kleinhans, Hugo L., assignor.)
Corduroy Tire Company. (See Brown, Lz A., assignor.)
Corey, William R., assignor to S. J. Bialosky, Cleveland, Ohio. Traffic signal. 1,662,298; Mar. 13.
Cosgray, Mark C., Sandusky, Ohio, assignor, by mesne assignments, to M. Prussian, Detroit, Mich. Automatic electric service system. 1,662,366; Mar. 13.
Coughlin, Michael F., Stoughton, Mass. Road binder. 1,662,299; Mar. 13.
Coupland, Ernst, assignor of one-fourth to E. McGillivray, one-fourth to H. E. Silverthorne, and one-fourth to F. Osborne, Toronto, Ontario, Canada. Steam and hot-water radiator. 1,662,236; Mar. 13.
Covell, Earl D., Philadelphia, Pa. Wall construction. 1,662,300; Mar. 13.
Coville, John E., assignor of one-third to T. W. McNichol and one-third to T. T. McNichol, Swampscott, Mass. Cutter head for last-turning lathes and supports therefor. 1,662,375; Mar. 13.
Cox, John L., Philadelphia, and R. Furness, Jenkintown, Pa. Nozzle for ladles. 1,662,600; Mar. 13.
Coykendall, Thomas C., Kingston, N. Y. System of marine propulsion. 1,662,301; Mar. 13.
Crafton, C. M., et al. (See Browning, Robert D., assignor.)
Cramer, Arthur C., Cincinnati, Ohio. Carton. 1,662,698; Mar. 13.
Cranksbaw, Alfred H., Lyndhurst, assignor to Owens Manufacturing Co., Hoboken, N. J. Paper box. 1,663,491; Mar. 13.
Creighton, Frank M., Americus, Ga., and W. E. Gray, Memphis, Tenn., assignors to Moore Dry Kiln Company, Jacksonville, Fla. Dry kiln. 1,662,807; Mar. 13.
Crites, John H., Ponca City, Okla. Billiard cabinet or similar article. Des. 74,662; Mar. 13.
Croese, Dirk, London, England. Manufacture of steel and alloys from iron sand. 1,662,302; Mar. 13.
Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)
Crompton & Knowles Loom Works. (See Soderberg, J. G., Lockwood, and Robertson, assignors.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Cummins, Norman W., Plymouth, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock for automobile doors. 1,662,662; Mar. 13.
Cunniff, John V., Los Angeles, Calif., assignor to Safeway Headlights, Incorporated. Dirigible reflector in headlights. 1,662,699; Mar. 13.
Curle, George L., Minneapolis, Minn. Slug-sawing device. 1,662,638; Mar. 13.
Curtis, Joseph C. (See Davis, Francis L., assignor.)
Curtis, Thomas S., Huntington Park, assignor, by mesne assignments, to Pacific-Southwest Trust & Savings Bank, trustee, Los Angeles, Calif. Heat treatment of alumina and other materials. 1,662,739; Mar. 13.
Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Packard, Horace N., assignor.)
Cutler-Hammer Mfg. Co. (See Seeger, Edwin W., assignor.)
Dahlstrom, John A., East Cleveland, assignor to Perfection Stove Company, Cleveland, Ohio. Burner. Des. 74,663; Mar. 13.
Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)
Daniels, Fred H., assignor to Sanford Riley Stoker Company, Worcester, Mass. Ash-discharge mechanism for mechanical stokers. 1,662,237; Mar. 13.
Davis, Francis L., Bothell, assignor of one-half to J. C. Curtis, King County, Wash. Book cover. Des. 74,664; Mar. 13.
Davis, Homer J., Wilmington, Del. Spool or bobbin. 1,662,238; Mar. 13.
Davis, Kenneth, Ebensburgh, Pa., assignor to R. Peale, St. Benedict, Pa.; W. S. Davies, New York, N. Y.; and W. S. Wallace, Philadelphia, Pa., trustees. Mining machine. 1,662,455; Mar. 13.
Davies, W. Sanders, et al., trustees. (See Davis, Kenneth, assignor.)
Dawson, Elma N. (See Dawson, James C., assignor.)
Dawson, James C., assignor to E. N. Dawson, Webster Groves, Mo. Loose-leaf binder. 1,662,303; Mar. 13.

De Florez, Pomfret, Conn. Flow-regulating apparatus. Re16,904; Mar. 13.
Delas, Albert, Paris, France. Steam ejector with cooled diffuser. 1,662,260; Mar. 13.
Delpini, José L., Buenos Aires, Argentina. Transporting vehicle. 1,662,376; Mar. 13.
Demag Aktiengesellschaft. (See Jeschke, Herbert, assignor.)
Demchuk, Peter, Brooklyn, N. Y. Clutch bearing for vehicles. 1,662,601; Mar. 13.
Dennison, Robert L., New York, N. Y. Internal-combustion engine. 1,662,740; Mar. 13.
De Vol, James C., Battle Creek, Mich. Metal tile. 1,662,456; Mar. 13.
De Wallace, Harry, assignor to Kleen Kap Corporation, Syracuse, N. Y. Bottle closure. 1,662,239; Mar. 13.
Dickinson, Edgar D., Beverly, Mass., assignor to General Electric Company. Emergency governor for elastic-fluid turbines and the like. 1,662,104; Mar. 13.
Dickinson, Hal, assignor to Duplex Art Sign Company, Minneapolis, Minn. Des. 74,665; Mar. 13.
Diescher, August P. (See Diescher, Samuel E. and A. P.)
Diescher, Samuel E. and A. P., assignors to S. Diescher & Sons, Pittsburgh, Pa. Feeding sheets. 1,662,492; Mar. 13.
Diescher, S., & Sons. (See Diescher, Samuel E. and A. P., assignors.)
Disbro, Roger W., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Endless screen belt and making same. 1,662,639; Mar. 13.
Ditto, Incorporated. (See Williams, William E., assignor.)
Dodd, Richard H. (See Richmond, R. B., and Dodd.)
Dodge Brothers, Inc. (See Wells, H. S., and Lightle, assignors.)
Dodge, Merton L. (See Troyer, N., and Dodge.)
Doherty, Henry L., assignor, by mesne assignments, to Heat Treating Company, New York, N. Y. Process and apparatus for distilling oil. 1,662,105; Mar. 13.
Döhle, Fritz, Wilmersdorf, near Berlin, Germany. Transmission mechanism. 1,662,566; Mar. 13.
Doleshy, Frank F., Seattle, Wash. Cabinet. Des. 74,666; Mar. 13.
Doll, Charles E. (See Holcroft, C. T., and Doll.)
Dolph, Fred A., Washington, D. C. Printing and casting mechanism. 1,662,145; Mar. 13.
Doogood, Leonard J., and L. P. Branagan, Melbourne, Victoria, Australia. Multipicture camera. 1,662,304; Mar. 13.
Dorner, Hermann I. A., Hannover, Germany. Internal-combustion engine. 1,662,106; Mar. 13.
Downward, James S., Dallas, Tex. Producing asphalt paving mixtures. 1,662,377; Mar. 13.
Draher, John, and A. J. Krieger, assignors to The Sterling Novelty Mfg. Co., Waterbury, Conn. Separable fastener. 1,662,367; Mar. 13.
Drake, Alden M., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass. Internal-grinding machine. 1,662,240; Mar. 13.
Drake, Alden M., assignor to Greenfield Tap and Die Corparation, Greenfield, Mass. Method and apparatus for grinding internal surfaces. 1,662,241; Mar. 13.
Drake, Alden M., assignor to Greenfield Tap and Die Corportion, Greenfield, Mass. Wheel-truing device for grinding machines. 1,662,242; Mar. 13.
Draper Corporation. (See Malloy, James T., assignor.)
Draper Corporation. (See Miller, Joseph A., assignor.)
Draper Corporation. (See Northrop, Jonas, assignor.)
Dreln Products Corporation. (See Mayer, Emil, assignor.)
Dressler, Conrad, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Method of and apparatus for vulcanizing. 1,662,804; Mar. 13.
Driver, William. (See Rood, J. M., and Driver.)
Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
Duckham, Arthur M., D. Rider, and J. S. Watts, London, England. Heat treatment of materials for distilling, drying, or carbonizing them. 1,662,663; Mar. 13.
Duke, Charles A., New York, N. Y. Seat. 1,662,378; Mar. 13.
Dünkelberg, Karl, Gelsenkirchen, Germany. Apparatus for cooling water. 1,662,602; Mar. 13.
Dunn, William G., Clarinda, Iowa. Awning structure. 1,662,261; Mar. 13.
Duplex Art Sign Company. (See Dickinson, Hal, assignor.)
Du Pont, E. I., de Nemours & Company. (See Parmelee, Alfred E., assignor.)
Dura Company, The. (See Nicholson, Stanley W., assignor.)
Dybens, John G., Los Angeles, Calif., assignor, by mesne assignments, to H. D. Eberle. Check-valve unit for hydraulic jacks. Re16,900; Mar. 13.
Dyer, Frank P., St. Louis, Mo. Trestle. 1,662,700; Mar. 13.
Eakins, Clemens F. (See Ober, W., and Eakins.)
Eastman Kodak Company. (See Kroedel, R., and Speidel, assignors.)
Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear. 1,662,493; Mar. 13.
Eberle, Herman D. (See Dybens, John G., assignor.)
Eckersley, Peter P. (See Franklin, C. S., and Eckersley.)
Edds, Byrd L., Sherman, Tex. Internal-combustion engine. 1,662,379; Mar. 13.
Edgar, Frank M. (See Archer, T. P., and Edgar.)
Edgar, Graham, assignor to Ethyl Gasoline Corporation, Dayton, Ohio. Bromine recovery. 1,662,305; Mar. 13.
Edison, Thomas A., Incorporated. (See Holland, Newman H., assignor.)
Electrical Research Products Inc. (See Reynolds, John L., assignor.)
Electro-Motive Devices, Inc. (See Leoni, A. M., and Asprooth, assignors.)
Ellerington, William H., Naples, N. Y. Reclaiming process for used crank-case oil. 1,662,701; Mar. 13.
Elliott, Grant C., Wilmington, N. C. Coaster. 1,622,146; Mar. 13.
Elliott, William S. (See Berquist, Hugo, assignor.)
El Paso Sash & Door Company. (See Trammell, Earl M. assignor.)
Elson, Milo, Toddville, Iowa. Wagon-end-gate seat. 1,662,494; Mar. 13.
Emanuell, Luigi, assignor to Societa Italiana Pirelli, Milan, Italy. High-tension electric cable. 1,662,107; Mar. 13.
Emert, Charles S., Peoria, Ill. Tamping machine. 1,662,380; Mar. 13.
Ethyl Gasoline Corporation. (See Edgar, Graham, assignor.)
Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. 1,662,243; Mar. 13.
Evans, David A., Kansas City, Mo., assignor to The Evans Lime Putty Company, Kansas City, Kans. Apparatus for slaking lime into lime putty. 1,662,776; Mar. 13.
Evans, Edwin R., Detroit, Mich. Instrument panel. Des. 74,667; Mar. 13.
Evans, E. S., & Co. (See Michod, Charles L., assignor.)
Evans Lime Putty Company, The. (See Evans, David A., assignor.)
Excelsior Plimtruck Co., The. (See Scriven, Bernard E., assignor.)
Eynon, Margaret Y. (See Eynon, Thomas M., assignor.)
Eynon, Thomas M., assignor to M. Y. Eynon, Philadelphia, Pa. Detector for flat tires. 1,662,381; Mar. 13.
Faber, Clarence E. (See Werner, H. F., and Faber.)
Fallon, William J., jr., Boston, Mass. Welting for boots and shoes. 1,662,495; Mar. 13.
Farden, Nels, Battle Lake, Minn. Funnel. 1,662,147; Mar. 13.
Fay, Charles P., Springfield, Mass. Pliers. 1,662,108; Mar. 13.
Feeley, William J., Providence, R. I., assignor to Apostleship of Prayer, Incorporated, New York, N. Y. Emblem frame. Des. 74,668; Mar. 13.
Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield Vt. High-speed-gear-generating machine. 1,662,109; Mar. 13.
Fellows Gear Shaper Company, The. (See Fellows, Edwin R., assignor.)
Ferguson, William C., St. Louis, Mo. Pipe-jointing element. 1,662,603; Mar. 13.
Ferris, William S., Elkhart, Ind. Furniture construction. 1,662,457; Mar. 13.
Ferris, William S., Elkhart, Ind. Chair. 1,662,458; Mar. 13.
Field, Crosby, Mahwah, N. J., assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Sublimation. 1,662,056; Mar. 13.
Field, Marshall, Mills Corporation. (See Clark, Eugene F., assignor.)
Fieldhouse, Matthew Y., Maysville, Ky. Water meter. 1,662,382; Mar. 13.
Fife, Joseph R., Kansas City, Mo. Shingle strip. Des. 74,669; Mar. 13.
Finch, Willis E. (See Stimpson, W. F., and Finch.)
Fischer, Albert C., Chicago, Ill. Expansion joint. 1,662,567; Mar. 13.
Fischer, George E. (See Muntvan, Adalbert B., assignor.)
Fisher, Clarence W., et al. (See Batchelder, Charles H., assignor.)
Fisher, Elton B., et al. (See Batchelder, Charles H., assignor.)
Fisher, Garfield W. (See Jones, L. S., Henrikson, and Fisher.)
Fitzgerald Manufacturing Company, The. (See Reichold, Ludwig, assignor.)
Flemming, Walter, Mannheim, assignor to Silesia Verein Chemischer Fabriken, Ida- und Marienhutte, Post Saarau, Kreis Schweidnitz, Germany. Oxidation of alkyl-aryl-substituted dithiocarbamic acids to the corresponding disulphides. 1,662,664; Mar. 13.
Foeli, Josef, Dusseldorf, Germany. Lamp suspension. 1,662,568; Mar. 13.
Fokker, Anthony H. G., Amsterdam, Netherlands, and P. F. Sonnek, Woodhaven, N. Y.; said Sonnek assignor to said Fokker. Controlling aircraft. 1,662,306; Mar. 13.
Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,662,244; Mar. 13.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Fornaca, Guido, Turin, Italy. Brake of the expanding-shoe type. 1,662,569; Mar. 13.
Forsgard, Edward F., Waco, Tex. Dishwashing machine. 1,662,496; Mar. 13.

Forsyth, Albert E., Bellamy, Ontario, Canada. Corn planter. 1,662,307; Mar. 13.
Foster Wheeler Corporation. (See Keenan, Walter F., jr., assignor.)
Fowler, Carl H. (See Parry, Robert R., assignor.)
Fowler, Edward, and J. V. Lewis, Chattanooga, Tenn. Cultivator blade. 1,662,570; Mar. 13.
Francis, Jacob R. (See Redmond, Albert G., assignor.)
Frank, Hugo, Hartford, Conn., assignor to The Frank E. Wolcott Manufacturing Co. Electrical stove. 1,662,805; Mar. 13.
Frank, Joseph L. (See Abel, Clarence E., assignor.)
Franklin, Charles S., Buckhurst Hill, and P. P. Eckersley, Witham, England, assignors to Radio Corporation of America. Wireless signaling. 1,662,459; Mar. 13.
Franklin, E. I., & Co. (See Batchelder, Charles H.)
Franklin, Wallace G., et al. (See Batchelder, Charles H., assignor.)
Frasca, Albert. (See Frasca, Alfred F., A., and A. A.)
Frasca, Alfred F., A., and A. A., Sandy Ridge, Pa. Brake. 1,662,497; Mar. 13.
Frasca, Arnold A. (See Frasca, Alfred F., A., and A. A.)
Fraser, Arthur C. (See Wales, Rowland T., assignor.)
Frelinghuysen, George G., Newark, N. J. Can-cooling apparatus. 1,662,803; Mar. 13.
Frick Company. (See Zumbro, Frank R., assignor.)
Frick, Frederick, Waynesboro, Pa. Work-holding chuck for headstocks. 1,662,571; Mar. 13.
Fryer, Frederick G., York, England. Reducing or refining apparatus for chocolate, cocoa, and the like. 1,662,572; Mar. 13.
Fuller Brush Company, The. (See Hoffman, Frederick C., assignor.)
Fulton Iron Works Company. (See Hildebrand, Reinhard, assignor.)
Furness, Radclyffe. (See Cox, J. L., and Furness.)
Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling for bead chains. 1,662,665; Mar. 13.
Garcia, David S., Oakland, Calif. Condensation trap. 1,662,185; Mar. 13.
Gard, Alvin J., Beaver Crossing, Nebr. Transportation truck. 1,662,148; Mar. 13.
Gardner, Daniel, Weybridge, England. Paints, enamels, japans, and the like. 1,662,741; Mar. 13.
Garratt, Hector H., assignor to Henry Hope & Sons Limited, Smethwick, England. Casement fastener. 1,662,666; Mar. 13.
Garretson, Louis, New York, N. Y. Safety jet guard for gas ranges. 1,662,640; Mar. 13.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,662,791; Mar. 13.
Gates, Charles C., Denver, Colo. Antiskid device. 1,662,262; Mar. 13.
Géganff, Charles, assignor to Societe Alsacienne de Constructions Mecaniques, Mulhouse, France. Dabber for combers of the Heilmann type. 1,662,308; Mar. 13.
Geist, Walter, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power-transmitting mechanism. 1,662,511; Mar. 13.
Geistert, Albert G. (See Hunt, O. E., and Geistert.)
Geistert, Albert G., assignor to General Motors Corporation, Detroit, Mich. Flexible closure boot. 1,662,310; Mar. 13.
Geistert, Albert G., Detroit, Mich, and J. M. Schoonmaker, jr., Sewickley, Pa., assignors to General Motors Corporation, Detroit, Mich. Bumper with rubber buffer. 1,662,309; Mar. 13.
Gem Hammock & Fly Net Company. (See Kootz, Arthur C., assignor.)
General Electric Company. (See Bailey, Percy S., assignor.)
General Electric Company. (See Dickinson, Edgar D., assignor.)
General Motors Corporation. (See Andrew, James P., assignor.)
General Motors Corporation. (See Geistert, Albert G., assignor.)
General Motors Corporation. (See Geistert, A. G., and Schoonmaker, assignors.)
General Motors Corporation. (See Golden, Harry S., assignor.)
General Motors Corporation. (See Hunt, O. E., and Geistert, assignors.)
General Motors Corporation. (See Midgley, Thomas, jr., assignor.)
General Motors Corporation. (See Seaholm, Ernest, assignor.)
General Motors Corporation. (See Smith, W. R., and Wieneke, assignors.)
General Motors Research Corporation. (See Williams, Harry M., assignor.)
Genuine Bronze Fixture Co. (See Sobel, Joseph, assignor.)
Germond, Henry S., jr., Bayonne, N. J. Elevating truck. 1,662,604; Mar. 13.
Gill, Charles H., and T. M. Thomson, Chicago, Ill. Shoebrushing machine. 1,662,498; Mar. 13.
Glardon, Edouard C., Lausanne, Switzerland. Joint binder. 1,662,573; Mar. 13.
Glassman, Jack A., Chicago, Ill. Loud speaker. 1,662,742; Mar. 13.
Gleason Works. (See Trbojevich, Nikola, assignor.)
Glenn, J. Edward, et al. (See Randall, Frank E., assignor.)
Globe-Wernicke Co., The. (See Ringler, William A., assignor.)
Glocheski, Roman F. (See Thorne, Viola, assignor.)
Gohmann Brothers and Kahler Company. (See Schmiedeknecht, Victor E., assignor.)
Goldberg, Jacob M., Brooklyn, N. Y. Automotive vehicle construction. 1,662,246; Mar. 13.
Golden, Harry S., Flint, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Clutch with tooth plates. 1,662,512; Mar. 13.
Golden, William G., assignor to United States Foil Co., Louisville, Ky. Coloring foil. 1,662,574; Mar. 13.
Goldsboro, James F., Fairchance, Pa. Bracket. 1,662,667; Mar. 13.
Goodrich, Chauncey M., Windsor, Ontario, Canada. Yieldable connecter for electric cables. 1,662,245; Mar. 13.
Gossett, John N., Sheridan, Mont. Light support. 1,662,668; Mar. 13.
Grace, John F., Arlington, N. J., assignor to Worthington Pump and machinery Corporation, New York, N. Y. Condenser. 1,662,186; Mar. 13.
Grand Rapids Metalcraft Corporation. (See Hodges, Sylvanus W., assignor.)
Grasselli Dyestuff Corporation. (See Herold, P., and Koppe, assignors.
Grasser, John, Manitowoc, Wis. Comb cleaner. 1,662,418; Mar. 13.
Gray, William E. (See Creighton, F. M., and Gray.)
Great Northern Paper Company. (See Merrill, Charles N., assignor.)
Greene, Albert E., Medina, Wash. Electric-furnace voltage control. 1,662,149; Mar. 12.
Greenfield Tap and Die Corporation. (See Drake, Alden M. assignor.)
Griewank, Arthur C., Oakland, Calif. Draft rigging for concrete railway cars. 1,662,110; Mar. 13.
Griffith, Morgan J., Chicago, Ill. Switch-heating apparatus. 1,662,368; Mar. 13.
Grimditch, William H., and J. N. Hunsberger, jr., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Electrolytic rectifier. 1,662,383; Mar. 13.
Gritman, Hubert J. (See Quinn, E. J., Sprake, and Gritman.)
Guilbert, Edmond, jr., Woonsocket, R. I. Weft stop mechanism for looms. 1,662,499; Mar. 13.
H. & B. American Machine Company. (See Bancroft, James, assignor.)
Hadley, Archie K., Milwaukee, Wis. Combined motion-picture camera and projector. 1,662,057; Mar. 13.
Hahnemann, Walter, Kitzeberg, near Kiel, H. Hecht, and B. Nielsen, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Method and arrangment of directional wave reception and emission. 1,662,247; Mar. 13.
Hall, Richard E., Olean, N. Y., assignor, by mesne assignments, to The Arvey Manufacturing Co., Wilmington, Del. Reenforced fibrous container and method of manufacture. 1,662,605; Mar. 13.
Hallett, George H., jr., Lansdowne, Pa. Container for separating slotted cards. 1,662,669; Mar. 13.
Halstead, Richard R., Beach, N. Dak. Antislipping device. 1,662,111; Mar. 13.
Hamer, Leland S., Fullerton, Calif. Well-capping device. 1,662,311; Mar. 13.
Haniford, Louis, Hanna, Alberta, Canada. Railway signaling device. 1,662,419; Mar. 13.
Hans, Thomas, assignor to Container Corporation of America, Chicago, Ill. Sizing paper. 1,662,641; Mar. 13.
Hanson, Ossian B. N., Warren, Ohio. Kaleidoscope. 1,662,743; Mar. 13.
Hardee, George W., Jacksonville, Fla. Display container. 1,662,744; Mar. 13.
Hargadon, John F., South Boston, Mass. Ash sifter. 1,662,606; Mar. 13.
Hargraft, Stuart A., Chicago, Ill. Wick device for cigar and other lighters. 1,662,058; Mar. 13.
Harper Adjustable Guide Company. (See Harper, Elwood J., assignor.)
Harper, Elwood J., assignor to Harper Adjustable Guide Company, Louisville, Ky. Adjustable guide for ruling machines. 1,662,384; Mar. 13.
Harris Calorific Company, The. (See Harris, John, assignor.)
Harris, John, assignor to The Harris Calorific Company, Cleveland, Ohio. Antifreezing connection for tanks and regulators. 1,662,263; Mar. 13.
Harris, Joseph D., assignor to McCord Radiator & Mfg Co., Detroit, Mich. Radiator core. 1,662,187; Mar. 13
Harter, Arthur L., Kokomo, Ind. Measuring instrument. 1,662,670; Mar. 13.
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartman, William H., Canton, Ohio. Extrusion machine. 1,662,112; Mar. 13.
Hartmann, Paul, assignor to K. Schenzer, New York, N. Y. Preparation of washable aniline dyes. 1,662,420; Mar. 13.
Hartmann, William C., and E. A. Weiss, Cleveland, Ohio. Auxiliary bed rail and slat support. 1,662,312; Mar. 13.

Hayes, Charles, Paris, France, assignor to Coal Carbonization Company. Conveyer. 1,662,575; Mar. 13.
Heat Treating Company. (See Doherty, Henry L., assignor.)
Hebden, John C., assignor to Hebden Sugar Process Corporation, New York, N. Y. Decanter. 1,662,702; Mar. 13.
Hebden Sugar Process Corporation. (See Hebden, John C., assignor.)
Hecht, Heinrich. (See Hahnemann, W., Hecht, and Nielsen.)
Hegland, Harvy L., Aitkin, Minn. Combined draft and steering gear. 1,662,671; Mar. 13.
Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 74,670; Mar. 13.
Helfrich, Anton, Milwaukee, Wis. Automatic nail-clamp attachment for hammers. 1,662,703; Mar. 13.
Helmus, Edward, Brooklyn, N. Y., and L. C. Burnet, Glen Ridge, N. J. Shock absorber. 1,662,188; Mar. 13.
Heminway & Bartlett Silk Company. (See Royce, Charles F., assignor.)
Hemsworth, Thomas A. (See Hemsworth, William G. and T. A.)
Hemsworth, William G. and T. A., Chicago, Ill. Fixture anchorage. 1,662,059; Mar. 13.
Henderson, Edwin L., assignor to Wilson-Hurd Company, Wausau, Wis. Fly swatter. 1,662,264; Mar. 13.
Henneck, Conrad, Frisco, Colo. Tool-handle fastening. 1,662,500; Mar. 13.
Henrikson, Carl G. (See Jones, L. S., Henrikson, and Fisher.)
Henrikson, Emanuel, Stratford, assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Pipe-coupling tapping machine. 1,662,313; Mar. 13.
Henry, Augustus M. (See Weitling, W. W., and Henry.)
Henry, Augustus M., et al. (See Weitling, W. W., and Henry, assignors.)
Henry, Francis M., Minneapolis, Minn. Canal and the filling and emptying of the locks thereof. 1,662,113; Mar. 13.
Herman, Joseph, New York, N. Y., assignor to American Telephone & Telegraph Company. Relay and circuits therefor. 1,662,060; Mar. 13.
Hermann, Edward O. (See Cook, B. L., and Hermann.)
Herold, Paul, and P. Koppe, Neurossen, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of primary amines. 1,662,421; Mar. 13.
Herrschaft, William, New York, N. Y. Display sign. 1,662,704; Mar. 13.
Hess, Ray W., and J. C. Siemann, Buffalo, assignors to National Aniline & Chemical Co., Inc., New York, N. Y. Alkylation of carbazol. 1,662,061; Mar. 13.
Hess, Ray W., Buffalo, N. Y., and O. D. Cunningham, Indianapolis, Ind., assignors to National Aniline & Chemical Co., Inc., New York, N. Y. Making indophenols. 1,662,062; Mar. 13.
Hessel, Edward L., assignor to American Plumbing & Heating Company, Minneapolis, Minn. Radiator stand. 1,662,265; Mar. 13.
Highfield, Frank W., Coventry, England. Electrical apparatus for testing motor-vehicle and other mechanical power transmission mechanisms. 1,662,705; Mar. 13.
Hildebrand, Reinhard, Webster Groves, assignor to Fulton Iron Works Company, St. Louis, Mo. Pipe joint. 1,662,607; Mar. 13.
Hilger, George, Chicago, Ill. Refrigeration system. 1,662,806; Mar. 13.
Hill, Charles W., Oakdale, Tenn. Whistle and safety valve. 1,662,706; Mar. 13.
Hill, Jabe, Phoenix, Ariz. Workbench. 1,662,608; Mar. 13.
Hill, James. (See Horsfall, R. S., Lawrie, and Hill.)
Hirsch, Joseph, Yonkers, N. Y., assignor to Kops Bros. Inc. Elastic webbing. 1,662,600; Mar. 13.
Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Coin-slot closure for scales. 1,662,642; Mar. 13.
Hodges, Sylvanus W., Grand Rapids Township, Kent County, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Container. 1,662,422; Mar. 13.
Hoe, R., & Co. (See Sheldon, Edward P., assignor.)
Hoerman, Roman A. (See Walters, H., and Hoerman.)
Hoffman, Frederick C., West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Mop holder. 1,662,777; Mar. 13.
Hohenzollern Aktiengesellschaft fur Lokomotivbau. (See Lindner, Walther, assignor.)
Hokanson, Martin, assignor to Marshall-Wells Company, Duluth, Minn. Tool handle. 1,662,610; Mar. 13.
Hoke, William E., Baltimore, Md. Method and apparatus for grinding. 1,662,672; Mar. 13.
Holcroft, Charles T., Detroit, and C. E. Doll, Mount Clemens, Mich. Apparatus for firing ceramic and other products. 1,662,063; Mar. 13.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor mechanism. 1,662,793; Mar. 13.
Holenstein, Emil, Brooklyn, assignor to Edgar C. Hyman Co., New York, N. Y. Shawl. Des. 74,671; Mar. 13.
Holland, Newman H., Montclair, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Electric system. Re16,901; Mar. 13.
Holloway, John J. (See Howe, L. S., and Holloway.)
Holmberg, Anders, assignor to H. G. Torulf, Stockholm, Sweden. Igniting apparatus for sintering pans. 1,662,513; Mar. 13.
Holmes, Frank G., assignor to Lenox, Inc., Trenton, N. J. Plate or similar article. Des. 74,672; Mar. 13.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,780; Mar. 13.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,662,787; Mar. 13.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,788; Mar. 13.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,789; Mar. 13.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,794; Mar. 13.
Holmes, Theodore, et al. (See Randall, Frank E., assignor.)
Hope, Henry, & Sons Limited. (See Garratt, Hector H., assignor.)
Horner, William C., Memphis, Tenn. Water cooler. 1,662,267; Mar. 13.
Horsfall, Ronald S., L. G. Lawrie, and J. Hill, Blackley, Manchester, assignors to British Dyestuffs Corporation Limited, Manchester, England. Dyeing cellulose esters and ethers. 1,662,514; Mar. 13.
Hosford, John L., Boonville, Mo. Gear-shifting-lever lock. 1,662,643; Mar. 13.
Hosmer, Chester C., Huntington Beach, Calif. Casing head. 1,662,707; Mar. 13.
Hotchner, Fred, Los Angeles, Calif. Flashing and regulating apparatus for discharge-tube display. 1,662,114; Mar. 13.
Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)
Houck, Walter V., Snyder, N. Y. Grinding tool. 1,662,385; Mar. 13.
House, William B., Ada, Okla. Screen for cotton cleaners. 1,662,745; Mar. 13.
Howden, Henry. (See Teichart, Ernst G., assignor.)
Howe, Emil, San Gabriel, Calif. Electric superheater. 1,662,746; Mar. 13.
Howe, Leon S., Hartford, and J. J. Holloway, assignors to The Stanley Works, New Britain, Conn. Box-strap-applying machine. 1,662,268; Mar. 13.
Howe, Philip L., Wilson, Tex. Engine-cooling means. 1,662,269; Mar. 13.
Hubbard & McClary. (See Mower, Will S., assignor.)
Hudson, Havard F., Wichita, Kans. Thermostatic carburetor control. 1,662,778; Mar. 13.
Hunsberger, Johnson N., jr. (See Grimditch, W. H., and Hunsberger.)
Hunt, Ormond E., and A. G. Geistert, assignors to General Motors Corporation, Detroit, Mich. Automobile chassis. 1,662,515; Mar. 13.
Hurka, Frank, New York, N. Y. Garden implement. 1,662,673; Mar. 13.
Hurka, Frank, Ballston Spa, N. Y. Garden implement. 1,662,674; Mar. 13.
Hustadt, Karl. (See Hustadt, Paul and K.)
Hustadt, Paul and K., Remscheid-Hasten, Germany. Machine for tempering saw blades, plane knives, and similar tools. 1,662,516; Mar. 13.
Hustadt, Paul and K., Remscheid-Hasten, Germany. Tempering saw blades, plane knives, and similar tools. 1,662,517; Mar. 13.
Hyatt, Frank S., assignor to Brass Goods M'f'g. Co., Brooklyn, N. Y. Stopper. 1,662,189; Mar. 13.
Hyland, John F., Des Moines, Iowa. Veneer-cutting-machine attachment. 1,662,314; Mar. 13.
Hyman, Edgar C., Co. (See Holenstein, Emil, assignor.)
Hyman, Elias, Brooklyn, N. Y. Stair-riser protector. 1,662,611; Mar. 13.
Individual Drinking Cup Company. (See Wessman, Edwin G., assignor.)
Ingalls Steel Products Company. (See Lucy, Thomas A., assignor.)
Ingersoll Milling Machine Company, The. (See Rose, Howard C., assignor.)
Innes, Harry C., Cincinnati, Ohio. Bed table attachment. 1,662,675; Mar. 13.
International Derrick & Equipment Company, The. (See Bloss, R. R., Pfeil, and Maurer, assignors.)
Ironside, James, assignor to Clayton and Lambert Manufacturing Company, Detroit, Mich. Fitting for sheet metal. 1,662,068; Mar. 13.
Izzo, Bonaventuro, Paterson, N. J. Baker's oven. 1,662,747; Mar. 13.
Jaciel Perfumers, Inc. (See Kohl, Richard W., assignor.)
Jacob, Clarence C., Myton, Utah. Weir differential gauge. 1,662,248; Mar. 13.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Locking device. 1,662,423; Mar. 13.
Jacquard Knitting Machine Co. (See Adler, A. A., and Albertman, assignors.)

Jaffe, Harry, Detroit, Mich., assignor to Kalman Steel Company, Chicago, Ill. Automobile radiator. 1,662,064; Mar. 13.
Jaffe, Maurice J., New Haven, Conn., and J. Chankin, New York, N. Y. Holder for nursing bottles or other vessels. 1,662,518; Mar. 13.
James, Will C., assignor to The Kemper-Thomas Company, Norwood, Ohio. Outdoor sign. 1,662,676; Mar. 13.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jenkins, Alexander F., Baltimore, Md. Cutting and welding torch. 1,662,519; Mar. 13.
Jenkins, Alexander F., Baltimore, Md. Cutting and welding torch. 1,662,520; Mar. 13.
Jenkins, Charles F., Washington, D. C. Rotary relay. 1,662,677; Mar. 13.
Jennings, Irving C., South Norwalk, Conn. Casing for impeller-type water pumps. 1,662,249; Mar. 13.
Jennings, Irving C., South Norwalk, Conn. Method and apparatus relating to motor-driven pumps. 1,662,250; Mar. 13.
Jepson, Arthur R., Minneapolis, Minn. Oil burner with air-whirling means. 1,662,270; Mar. 13.
Jerry, Carl R., Rochester, assignor to Shur-On Standard Optical Company, Inc., Geneva, N. Y. Case for ophthalmic mountings. Des. 74,673; Mar. 13.
Jeschke, Herbert, assignor to Demag Aktiengesellschaft, Duisburg, Germany. Valve for pneumatic tools. 1,662,576; Mar. 13.
Johnson, Edwin A., assignor to J. H. McEvoy & Company, Houston, Tex. Slotting metal plates. 1,662,115; Mar. 13.
Johnson, Florence M., Nampa, Idaho. Article-supporting attachment for ironing boards. 1,662,748; Mar. 13.
Johnson, John A., New York, N. Y. Transferring machine for bottle closures. 1,662,271; Mar. 13.
Johnson, Lane, Ingram, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Coiling material and apparatus therefor. 1,662,577; Mar. 13.
Johnston, William D., assignor to Wm. Cameron & Co. Inc., Waco, Tex. Telephone wall cabinet. Des. 74,674; Mar. 13.
Johnston, William D., assignor to Wm. Cameron & Co. Inc., Waco, Tex. Wall cabinet. Des. 74,675; Mar. 13.
Jones, Charles E., and D. A. Whoolery, Outcrop, Pa. Closure fastener. 1,662,501; Mar. 13.
Jones, Daniel F., Chicago, Ill. Signal flag and maintaining same. 1,662,190; Mar. 13.
Jones, Louis, S. C. G. Henrickson, and G. W. Fisher, assignors, by mesne assignments, to The National Tile Company, Anderson, Ind. Mechanical shaker for ceramic tile. 1,662,779; Mar. 13.
Jones, Orville J., Emmett, Idaho. Sectional furnace grate. 1,662,708; Mar. 13.
Jordan, O. F., Company. (See Protzeller, Harry W., assignor.)
Jorgensen, Christian, Copenhagen, Denmark. Homogenizing valve. 1,662,749; Mar. 13.
Judge, Joseph J., Rochester, N. Y. Multiple tool. 1,662,424. Mar. 13.
Judson, Nathaniel, New York, N. Y. Hook bar for footing machines. 1,662,678; Mar. 13.
Junkunc, John, Chicago, Ill. Cushioning casing for locks. 1,662,612; Mar. 13.
Kable, James C., Erie, Pa. Pitman connection. 1,662,502; Mar. 13.
Kalman Steel Company. (See Jaffe, Harry, assignor.)
Karger, Milton M., Milwaukee, Wis. Hydroairplane. 1,662,644; Mar. 13.
Kaufmann, Albert, Berlin, Germany. Die-casting machine. 1,662,750; Mar. 13.
Keenan, Walter F., jr., Pelham, assignor to Foster Wheeler Corporation, New York, N. Y. Radiant-heat superheater for boilers of the locomotive type. 1,662,460; Mar. 13.
Keilig, Ernest F., Ravenna, Nebr. Combined garden implement. 1,662,069; Mar. 13.
Kelper, Edwin H., Swarthmore, Pa. Heater. Des. 74,676; Mar. 13.
Kellner, Henry F., Silver Lake, Kans. Jetty. 1,662,578; Mar. 13.
Kellogg Switchboard and Supply Company. (See Robison, Daniel B., assignor.)
Kemper-Thomas Company, The. (See James, Will C., assignor.)
Kendall, William G., Newark, N. J. Vanity case. 1,662,065; Mar. 13.
Kener, Edward, jr., Buffalo, N. Y. Valve. 1,662,191; Mar. 13.
Kerr, Charles H., assignor to American Optical Company, Southbridge, Mass. Fused-quartz transilluminator. 1,662,150; Mar. 13.
Kessel, Heinrich, Haan, Germany. Cutlery grinding and polishing machine. 1,662,679; Mar. 13.
King, Nathaniel, assignor to Seneca Falls Machine Company, Fitchburg, Mass. Back-turning attachment for lathes. 1,662,192; Mar. 13.
Kingsbury, Albert, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Measuring machine. 1,662,425; Mar. 13.
Kingsbury Machine Works, Inc. (See Kingsbury, Albert, assignor.)
Kingsley, Charles B., Clairton, Pa., assignor to Mississippi Glass Company. Method of and apparatus for producing molten glass. 1,662,116; Mar. 13.
Kirshner, Abraham, Philadelphia, Pa. Christmas-tree support. 1,662,579; Mar. 13.
Kjekstad, Johannes, assignor of one-half to W. Schenstrom, Brooklyn, N. Y. Arc welding system. 1,662,369; Mar. 13.
Klaboe, Ralph, Chicago, Ill. Combination tool. 1,662,461; Mar. 13.
Kleen Kap Corporation. (See De Wallace, Harry, assignor.)
Kleinhans, Hugo L., assignor to Charles Cooper & Company, Inc., Newark, N. J. Fungicide. 1,662,462; Mar. 13.
Kleist, Clarence. (See Wertenberger, E. G., and Kleist.)
Klopsteg, Paul E., assignor to Central Scientific Company, Chicago, Ill. Educational apparatus. 1,662,272; Mar. 13.
Knoeppel, Frank, assignor to The Champion No-Lead Paper Dish Company, Toledo, Ohio. Carton charger. 1,662,273; Mar. 13.
Knudsen, Joachim R. M. (See Boeck, Peter M., assignor.)
Kobis, Carl, Berlin, Germany. Grinding machine for twist drills. 1,662,521; Mar. 13.
Koehring Company. (See Koehring, Philip A., assignor.)
Koehring, Philip A., assignor to Koehring Company, Milwaukee, Wis. Worm-drive mixing machine. 1,662,274; Mar. 13.
Kohl, Richard W., Cumberland, Md., assignor to Jaciel Perfumers, Inc., New York, N. Y. Bottle or like container. Des. 74,677; Mar. 13.
Konigslow, E., Stamping & Tool Company, The. (See Stuhr, Herman F., assignor.)
Kootz, Arthur C., assignor to Gem Hammock & Fly Net Company, Milwaukee, Wis. Dust mop. 1,662,426; Mar. 13.
Koppe, Paul. (See Herold, P., and Koppe.)
Kops Bros. Inc. (See Hirsch, Joseph, assignor.)
Korn, Maximilian H., Teaneck, N. J. Pier-shed door. 1,662,709; Mar. 13.
Krieger, Adolph J. (See Draher, J., and Krieger.)
Krieger, Kathryn G., Baltimore, Md. Appliance for teaching arithmetic. 1,662,503; Mar. 13.
Kroedel, Robert, and C. F. Speidel, assignors to Eastman Kodak Company, Rochester, N. Y. Camera focusing mechanism. 1,662,427; Mar. 13.
Krumm, Reinhold, Philadelphia, Pa. Gauging device. 1,662,066; Mar. 13.
Kudler, Adolph, Los Angeles, Calif. Amusement apparatus. 1,662,504; Mar. 13.
Kuehn, Anthony E., Mishawaka, Ind. Foldable tourist bed. 1,662,580; Mar. 13.
Kuhl, Alphons M., Omaha, Nebr. Door and window grating. 1,662,117; Mar. 13.
La Brie, Ludger E., South Bend, Ind., assignor to Motor Industries, Inc. Two-part wheel. 1,662,581; Mar. 13.
Lachman, Maurice, New York, N. Y. Metal car end. 1,662,193; Mar. 13.
Lampert, Henry H., Chicago, Ill. Anchor for floor sleepers. 1,662,645; Mar. 13.
Landis Tool Company. (See Steiner, Amos P., assignor.)
Lane, James L., assignor to Chicago Fuse Mfg. Company, Chicago, Ill. Switch box. 1,662,275; Mar. 13.
Large, William P., Chicago, Ill. Laundry washing machine. 1,662,784; Mar. 13.
La Rochelle, Arthur, Chicago, Ill. Automatic lock hand lever. 1,662,751; Mar. 13.
Lashar, Thomas B., Fairfield, Conn., assignor to Associated Silver Company, Chicago, Ill. Spoon or similar article. Des. 74,678; Mar. 13.
Laube, Olga. (See Laube, Walter O., assignor.)
Laube, Walter O., assignor to O. Laube, Chicago, Ill. Combined funeral canopy and stand. 1,662,522; Mar. 13.
Lawrenz, Emil, Detroit, Mich. Beam compass. 1,662,315; Mar. 13.
Lawrie, Leslie G. (See Horsfall, R. S., Lawrie, and Hill.)
Lawson, James H., Vincennes, Ind. Printing and addressing machine. 1,662,194; Mar. 13.
Laynor, Roger C., Elkridge, Md. Sectional key. 1,662,613; Mar. 13.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Radiator cover. Des. 74,679; Mar. 13.
Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Liquid gun. 1,662,067; Mar. 13.
Leff, Ruby, New York, N. Y. Stocking. Des. 74,680; Mar. 13.
Lenox, Inc. (See Holmes, Frank G., assignor.)
Leoni, Alfonso M., Philadelphia, Pa., and HJ. Asprooth, Baltimore, Md., assignors to Electro-Motive Devices, Inc., Philadelphia, Pa. Controller for electric vehicles. 1,662,386; Mar. 13.
Leustig, Benno B., and J. D. Petsche, Cleveland, Ohio. Handle. 1,662,816; Mar. 13.
Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Headlight. 1,662,118; Mar. 13.
Lewis, John V. (See Fowler, E., and Lewis.)
Lewis, Morgan J., Massillon, Ohio. Door catch. 1,662,119; Mar. 13.

Liberty Gauge & Instrument Company. (See Zimmer, Ernest B., assignor.)
Light, Albert T., New York, N. Y. Measuring apparatus. 1,662,523; Mar. 13.
Light, Albert T., Brooklyn, N. Y. Batch-weighing device. 1,662,524; Mar. 13.
Light, Albert T., Brooklyn, N. Y. Batch-measuring device. 1,662,525; Mar. 13.
Lightle, Harvey H. (See Wells, H. S., and Lightle.)
Lindahl, Anders. (See Luttropp, Conrad, assignor.)
Lindgren, Gustaf A., Sandviken, Sweden. Rolling down hollow bodies. 1,662,680; Mar. 13.
Lindner, Walther, assignor to Hohenzollern Aktiengesellschaft für Lokomotivbau, Duesseldorf-Grafenberg, Germany. Friction wheel gear. 1,662,681; Mar. 13.
Linotype and Machinery Limited. (See Shuttleworth, John, assignor.)
Livers, John F., Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company. Lighting-fixture banding or article of similar nature. Des. 74,681; Mar. 13.
Livers, John F., Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company. Lighting-fixture ring or article of similar nature. Des. 74,682; Mar. 13.
Livers, John F., Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company. Plate for lighting fixtures or articles of similar nature. Des. 74,683; Mar. 13.
Livers, John F., Kansas City, Mo., assignor to The Bailey-Reynolds Chandelier Company. Lighting-fixture backplate or article of similar nature. Des. 74,684; Mar. 13.
Livingston, Gilbert R., Ocean Park, Calif. Baseball game apparatus. 1,662,317; Mar. 13.
Lloyd, John U., Cincinnati, Ohio. Medicine dropper or syringe. 1,662,682; Mar. 13.
Lockwood, George D. (See Soderberg, J. G., Lockwood, and Robertson.)
Loetscher, Emil C., Dubuque, Iowa. Wood door construction. 1,662,151; Mar. 13.
Logg, Wendell, Los Angeles, Calif. Tool support. 1,662,152; Mar. 13.
Lombardi, Giovanni, Derby, Conn. Variable condenser. 1,662,505; Mar. 13.
Loomis, Allen, Elkhart, Ind. Wood-wind instrument. 1,662,195; Mar. 13.
Loomis, Allen, Elkhart, Ind. Octave-key mechanism for wood-wind instruments. 1,662,196; Mar. 13.
Loomis, Virgil V., assignor to United States Glass Company, Pittsburgh, Pa. Goblet. Des. 74,685; Mar. 13.
Lowe, Clyde E., East Cleveland, Ohio. Machine for making mandrels. 1,662,428; Mar. 13.
Lowy, Alexander, Pittsburgh, Pa. Process of and apparatus for locating obstructions in pipe lines carrying fluids. 1,662,429; Mar. 13.
Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,662,153; Mar. 13.
Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condensing apparatus. 1,662,154; Mar. 13.
Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,662,155; Mar. 13.
Lucy, Thomas A., Asheville, N. C., assignor to Ingalls Steel Products Company, Birmingham, Ala. Bar joist. 1,662,752; Mar. 13.
Ludwig, George, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill. Electric-light fixture. Des. 74,686; Mar. 13.
Ludwig, George, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill. Electric wall bracket. Des. 74,687; Mar. 13.
Ludwig, George, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill. Electric wall bracket. Des. 74,688; Mar. 13.
Ludwig, George, Milwaukee, Wis., assignor to Mutual Metal Manufacturing Company, Chicago, Ill. Electric-light fixture. Des. 74,689; Mar. 13.
Luttropp, Conrad, assignor of one-half to A. Lindahl, Stockholm, Sweden. Calculating machine. 1,662,526; Mar. 13.
Lyford, Chauncey A., East Aurora, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Sublimation apparatus. 1,661,070; Mar. 13.
Maas, Frederick, assignor, by mesne assignments, to Natural Flower Metalizing Co., Inc., New York, N. Y. Incrusting galvanoplasty and the object produced thereby. 1,662,430; Mar. 13.
MacDonald, William W., Chicopee, Mass. Sport ball. 1,662,527; Mar. 13.
MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,662,431; Mar. 13.
Macomber, Stanley, Massillon, assignor to The Macomber Steel Company, Canton, Ohio. Rocking structural brace. 1,662,197; Mar. 13.
Macomber Steel Company, The. (See Macomber, Stanley, assignor.)
Madsen, Martin, Monterey Park, Calif. Pug mill. 1,662,120; Mar. 13.
Maier, William, St. Louis, Mo. Cutting machine. 1,662,387; Mar. 13.
Mallinson, H. R., & Co. Inc. (See Heinke, Alfred J., assignor.)
Malloy, James T., Oakland, R. I., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Weft-replenishing loom. 1,662,198; Mar. 13.
Manderfeld, Emanuel C., Boonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulating system. 1,662,071; Mar. 13.
Mandolini, Caesar A., assignor to Remington Automotive Corporation, New York, N. Y. Fuel system. 1,662,614; Mar. 13.
Manni, Rudolf, Karlsbad, Czechoslovakia. X-ray screen for taking skiagrams. 1,662,528; Mar. 13.
Mansfield, George H., Cuyahoga Falls, Ohio. Rolling stay-bolt iron. 1,662,506; Mar. 13.
March, Carl, Chicago, Ill. Confectioner's pattern-making device. 1,662,710; Mar. 13.
Marietta Mfg. Co. (See Burgess, Martin L., assignor.)
Marks, Leonard V. (See Blades, N., and Marks.)
Marmion, Louis G. (See Sohn, F., and Marmion.)
Marsh, Frank A. E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing tool. 1,662,251; Mar. 13.
Marshall-Wells Company. (See Hokanson, Martin, assignor.)
Martell, Alphonse. (See Borden, E., and Martell.)
Martin, Bruno, Saginaw, Mich. Blowtorch. 1,662,072; Mar. 13.
Martin, David, Milwaukee, Wis. Furnace. 1,662,583; Mar. 13.
Mas, George N., Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Bottle. Des. 74,690; Mar. 13.
Mas, George N., Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Bottle. Des. 74,691; Mar. 13.
Matré, Victor G., Chicago, Ill. Collection box. 1,662,432; Mar. 13.
Maurer, Elmer B. (See Bloss, R. R., Pfeil, and Maurer.)
Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,795; Mar. 13.
Mayer, Emil, Vienna, Austria, assignor to Drein Products Corporation, New York, N. Y. Exposure meter. 1,662,156; Mar. 13.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens-grinding machine. 1,662,157; Mar. 13.
Maynard, Milton A., Suisun, Calif. Signaling device. 1,662,711; Mar. 13.
Maya Manufacturing Co., The. (See Mays, William C. S., assignor.)
Mays, William C. S., assignor to The Mays Manufacturing Co., Inc., Providence, R. I. Clip for writing instruments. 1,662,073; Mar. 13.
McAleer, Charles H., Detroit, Mich. Cleansing and polishing compound. 1,662,582; Mar. 13.
McCabe, Ira E., Chicago, Ill. Pressure-actuated circuit control. 1,662,122; Mar. 13.
McConahy, Newell C., Tyrone, Pa. Indicator. 1,662,463; Mar. 13.
McCord Radiator & Mfg. Co. (See Harris, Joseph D., assignor.)
McCorkel, Floud L. (See McCorkel, Merritt G. and F. L.)
McCorkel, Merrit G. and F. L., Washta, Iowa. Farm gate. 1,662,318; Mar. 13.
McCornack, Herbert, Glen Ridge, N. J. Centrifugal separator. 1,662,199; Mar. 13.
McCutchen, Lex G., St. Louis, Mo. Fracture device. 1,662,464; Mar. 13.
McDonnell, Vincent D., Chicago, Ill. Gas-producing apparatus. 1,662,266; Mar. 13.
McDonough, Victor S., Camden, Ohio. Fence-wire fastening. 1,662,753; Mar. 13.
McEvoy, J. H., & Company. (See Johnson, Edwin A., assignor.)
McGee, William H., Los Angeles, Calif. Golf-club gauge and truing tool. 1,662,465; Mar. 13.
McGillivray, Edmund, et al. (See Coupland, Ernst, assignor.)
McGowan, Michael J., Chicago, Ill. Hair waver. 1,662,319; Mar. 13.
McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Testing filters. 1,662,529; Mar. 13.
McKissick, William H., Tulsa, Okla. Safety sheave block. 1,662,320; Mar. 13.
McMahon, Thomas J., Albany, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,662,530; Mar. 13.
McMeans, William, Scranton, Pa. Fastener for sleeve bands. 1,662,074; Mar. 13.
McNamara, Russell E., St. Marys, Ontario, Canada. Tire rim. 1,662,321; Mar. 13.
McNeal, Daniel R., Palmyra, N. J., assignor to Andale Engineering Company. Heater or cooler. 1,662,615; Mar. 13.
McNichol, Theodore W., et al. (See Coville, John E., assignor.)
McNichol, Thomas T., et al. (See Coville, John E., assignor.)
McQuay, William A., Dauphin, Manitoba, Canada. Stook loader and conveyer. 1,662,755; Mar. 13.
Meakin, Edgar T., Berkeley, Calif. Continuous press. 1,662,531; Mar. 13.
Medart, Fred, Manufacturing Company. (See Albach, Frank, assignor.)
Meier, Charles, Valparaiso, Ind. Ferrous alloy. 1,662,158; Mar. 13.

Melton, Burton E., San Francisco, Calif. Headlight. 1,662,322; Mar. 13.
Mennillo, Francesco, Washington, D. C. Cooking and condensating semiliquid foods. 1,662,532; Mar. 13.
Mensing, Carl F., Leavenworth, Kans., assignor of one-half to J. K. Thompson, Schenectady, N. Y. Golf club. 1,662,712; Mar. 13.
Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Channeler. 1,662,790; Mar. 13.
Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 1,662,801; Mar. 13.
Merrill, Charles N., assignor to Great Northern Paper Company, Millinocket, Me. Paper making. 1,662,200; Mar. 13.
Merriman, Carroll L., assignor to Wayne Company, Fort Wayne, Ind. Measuring scale for transparent liquid containers. 1,662,533; Mar. 13.
Meuser, Ludwig. (See Adams, H. S., and Meuser.)
Michod, Charles L., Chicago, Ill., assignor to E. S. Evans & Co., Inc., Detroit, Mich. Vehicle stay block. 1,662,159; Mar. 13.
Midgley, Thomas, jr., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Motor fuel. 1,662,323; Mar. 13.
Millar, John R., assignor to California Cotton Mills Co., Oakland, Calif. Padding for seat backs. 1,662,388; Mar. 13.
Millar, John R., assignor to California Cotton Mills Co., Oakland, Calif. Padding for seat backs. 1,662,389; Mar. 13.
Millard, Herman H., Corry, Pa. Automatic reversing self-rocking cradle carriage. 1,662,754; Mar. 13.
Miller, Joseph A., assignor to Draper Corporation, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. 1,662,780; Mar. 13.
Miller, Joseph A., assignor to Draper Corporation, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. 1,662,781; Mar. 13.
Miller, Lee R., New York, N. Y. Attachment for hoisting slings. 1,662,713; Mar. 13.
Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
Millie Patent Holding Co. Inc. (See Allatt, Thomas, assignor.)
Milne, Samuel, Edinburgh, Scotland. Paper-pulp and like beating engine. 1,662,466; Mar. 13.
Minshall, George T., Elkhorn, Wis. Root eradicator. 1,662,467; Mar. 13.
Mississippi Glass Company. (See Kingsley, Charles B., assignor.)
Mitchell, G. F., & Son. (See Mitchell, Harry W., assignor.)
Mitchell, Harry W., assignor to G. F. Mitchell & Son, Cleveland, Ohio. Wringer mechanism. 1,662,616; Mar. 13.
Moccia, Costantino, Lynch Mines, Ky. Talking machine. 1,662,584; Mar. 13.
Modine, Arthur B., Racine, Wis. Cabinet. Des. 74,692; Mar. 13.
Monarch Governor Company. (See Anderson, James W., assignor.)
Moncrieff, Robert D., Kingston, Ontario, Canada. Knockdown table. 1,662,121; Mar. 13.
Monitor Controller Company. (See Whittingham, George H., assignor.)
Montante, Bonifacio, San Luis Potosi, Mexico. Supplemental outsole for shoes. 1,662,756; Mar. 13.
Montgomery, Albert B., New Haven, Conn. Stand. Des. 74,693; Mar. 13.
Moore, Arlington, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper container. 1,662,277; Mar. 13.
Moore Dry Kiln Company. (See Creighton, F. M., and Gray, assignors.)
Moore, Henry A. (See Stuart, T. F., and Moore.)
Morgan, James M., Bristow, Okla. Road culvert. 1,662,714; Mar. 13.
Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Burner. 1,662,507; Mar. 13.
Morrow, Richard H., Los Angeles, Calif. Handle. 1,662,715; Mar. 13.
Mortimer, John N., Lakewood, assignor to The Central Brass Manufacturing Company, Cleveland, Ohio. Waste valve for bathtubs and lavatories. Re16,902; Mar. 13.
Morton, Edmund R. (See Stoller, H. M., and Morton.)
Morton, Edmund R., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electric regulator. 1,662,252; Mar. 13.
Motor Industries, Inc. (See La Brie, Ludger E., assignor.)
Mower, Will S., assignor to Hubbard & McClary, Windsor, Vt. Machine for setting glaziers' points. 1,662,276; Mar. 13.
Muntyan, Adalbert B., assignor of one-half to G. E. Fischer, Amsterdam, Netherlands. Electrolytic rectifier. 1,662,075; Mar. 13.
Murphy, George F., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway skate-operating apparatus. 1,662,468; Mar. 13.
Murray, Howard J., New York, N. Y. Electric speedometer. 1,662,433; Mar. 13.
Murray, Thomas E., Brooklyn, N. Y. Brake drum. 1,662,585; Mar. 13.
Mutual Metal Manufacturing Company. (See Ludwig, George, assignor.)
Myers, David W., Winnetka, and R. L. Sherman, Oak Park, Ill. Valve for milking machines. 1,662,617; Mar. 13.
Myers, Parke G., assignor to The Automatic Signal & Sign Company, Canton, Ohio. Method and apparatus for diffusing and coloring reflected rays of light. 1,662,123; Mar. 13.
Myrick, Clifford C., Tucson, Ariz. Leaf collector. 1,662,160; Mar. 13.
National Aniline & Chemical Co. (See Field, Crosby, assignor.)
National Aniline & Chemical Co. (See Hess, R. W., and Cunningham, assignors.)
National Aniline & Chemical Co. (See Hess, R. W., and Siemann, assignors.)
National Aniline & Chemical Co. (See Lyford, Chauncey A., assignor.)
National Gypsum Company. (See Williams, Clarence E., assignor.)
National Tile Company, The. (See Jones, L. S., Henrikson, and Fisher, assignors.)
Natural Flower Metalizing Co. (See Maas, Frederick, assignor.)
Naugatuck Chemical Company, The. (See Adams, H. S., and Meuser, assignors.)
Naugatuck Chemical Company, The. (See Cadwell, Sidney M., assignor.)
Neethling, Lenore, Chicago, Ill. Ornamenting textiles. 1,662,161; Mar. 13.
Nelson, Charles A., Chicago, Ill. Game appliance. 1,662,278; Mar. 13.
Nestor, Henry M., Omaha, Nebr. Game apparatus. 1,662,162; Mar. 13.
Nevin, Donald A., assignor to Autodex Company, Waynesboro, Pa. Card-indexing device. 1,662,534; Mar. 13.
Nevin, Donald A., assignor to Autodex Company, Waynesboro, Pa. Card-indexing machine. 1,662,535; Mar. 13.
Newhall, Henry B., Corporation. (See Pleister, Henry W., assignor.)
Newhouse, Oscar O., Brandon, Minn. Milk and cream cooler and aerator. 1,662,390; Mar. 13.
New Jersey Zinc Company, The. (See Borcherdt, Walter O., assignor.)
Newman, Hugo, New York, N. Y. Foldable supporting frame for screens. 1,662,586; Mar. 13.
Newman, Joseph B., Ravenna, Ky. Trumpet. 1,662,076; Mar. 13.
Newton, George F., assignor of one-half to S. Patti, Kansas City, Mo. Cam column clamp. 1,662,757; Mar. 13.
New York Lighting Fixture Mfg. Co., The. (See Aglow, Harry, assignor.)
Nicholson, James H., and W. D. Cavin, Madison, Ga. Femur splint. 1,662,758; Mar. 13.
Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window regulator. 1,662,391; Mar. 13.
Nielsen, Bernhard. (See Hahnemann, W., Hecht, and Nielsen.)
Niewald, August H., Freedom, Mo. Cultivator fender. 1,662,201; Mar. 13.
Nolte, Charles E., et al. (See Tansill, Charles M., assignor.)
Norberg, Carl O., Worcester, Mass. Traction device for motor vehicles. 1,662,392; Mar. 13.
Nordman, Walter G. (See Carlson, J. E., and Nordman.)
Norquist, Glenn H., Jamestown, N. Y. Auto table. 1,662,163; Mar. 13.
Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Dobby lever. 1,662,202; Mar. 13.
Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Filling-feeler mechanism for looms. 1,662,393; Mar. 13.
Northwest Engineering Corporation. (See Burke, P., and Orloff, assignors.)
Norton, Lewis C., Chicago, Ill., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Screen-door closer. 1,662,395; Mar. 13.
Norwood, Harry G., Baltimore, Md., assignor to Continental Railway Supply Corporation, New York, N. Y. Railway-rail anchor. 1,662,618; Mar. 13.
Nottage, Stanley G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current motor. 1,662,508; Mar. 13.
Novin, Joseph, assignor to The Centre Lighting Fixture Mfg. Co., New York, N. Y. Chandelier. Des. 74,694; Mar. 13.
Nulty, Evalyn F., Ocean City, N. J. Button. 1,662,203; Mar. 13.
Nussbaum, Sam, Berne, Ind. Box. Des. 74,695; Mar. 13.
Nutt, Frank N., assignor to A C Spark Plug Company, Flint, Mich. Speedometer drive. 1,662,536; Mar. 13.
Nye, Ralph D., Columbus, Ohio. Furnace valve. 1,662,124; Mar. 13.
Nylund, Andro, Alameda, Calif. Animal trap. 1,662,394; Mar. 13.
O K. Tool Company, The. (See Severson, Ole, assignor.)
Ober, William, and C. F. Eakins, Btush, Colo. Hoisting apparatus. 1,662,324; Mar. 13.

Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Olmsted, Roger W. (See Browne, W. G., and Olmsted.)
Orloff, Arthur. (See Burke, P., and Orloff.)
Ormsbee, Willard A., Taunton, Mass. Cuff button. Des. 74,696; Mar. 13.
Ormsbee, Willard A., Taunton, Mass. Tie holder. Des. 74,697; Mar. 13.
Orndorff, William R., Ithaca, assignor to The Todd Company, Inc., Rochester, N. Y. Safety paper. 1,662,509; Mar. 13.
Osborne, Frank, et al. (See Coupland, Ernst, assignor.)
Oscanyan, Paul C., Begota, N. J. Camera focusing device. 1,662,125; Mar. 13.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,662,792; Mar. 13.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,796; Mar. 13.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,797; Mar. 13
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Comany. Mining machine. 1,662,798; Mar. 13.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,799; Mar. 13.
Otoupal, Anton W., assignor to T. M., E. A., and G. F. Otoupal, Ulysses, Nebr. Bearing for disk cultivators. 1,662,325; Mar. 13.
Otoupal, E. A., et al. (See Otoupal, Anton W., assignor.)
Otoupal, G. F., et al. (See Otoupal, Anton W., assignor.)
Otoupal, T. M., et al. (See Otoupal, Anton W., assignor.)
Owens Manufacturing Co. (See Crankshaw, Alfred H., assignor.)
Pacific Southwest Trust & Savings Bank, trustee. (See Curtis, Thomas S., assignor.)
Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus particularly applicable to measurements of the calorific value of combustible fluids. 1,662,802; Mar. 13.
Page, Rufa E., Italy, Tex. Undergarment. 1,662,326; Mar. 13.
Pallada, Hubert, New York, N. Y. Window-sash mounting. 1,662,619; Mar. 13.
Palmer, Eli J., Los Angeles, Calif. Safety harness for poison bottles. 1,662,469; Mar. 13.
Palmer, Mervyn W., assignor to Paramount Famous Laskey Corporation, New York, N. Y. Control mechanism. 1,662,434; Mar. 13.
Paramount Famous Laskey Corporation. (See Palmer, Mervyn W., assignor.)
Paramount Knitting Mills. (See Zimmerman, Jacob, assignor.)
Parker, John C., Philadelphia, Pa. Handhole cover. 1,662,279; Mar. 13.
Parkhurst, Raymond T., Moscow, Idaho. Protector for poultry feeders. 1,662,204; Mar. 13.
Parmelee, Alfred E., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of beta-naphthol-1-sulphonic acid. 1,662,396; Mar. 13.
Parmelee, Alfred E., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of triarylguanidines. 1,662,397; Mar. 13.
Parry, Robert R., Elmhurst, assignor of one-half to C. H. Fowler, New York, N. Y. Drinking-glass-washing apparatus. 1,662,205; Mar. 13.
Pastor, Carlos T., Port Washington, N. Y. Imitation fur and making the same. 1,662,470; Mar. 13.
Pateiski, Erich J., Chicago, Ill. Swing-spout faucet. 1,662,620; Mar. 13.
Patten, Charles H., assignor to The Traylor Engineering & Manufacturing Company, Allentown, Pa. Spring suspension for automobiles or trucks. 1,662,327; Mar. 13.
Patti, Sebastian. (See Newton, George F., assignor.)
Paxton, Clifford M., Brooklyn, N. Y., assignor to Paxton Corporation of America. Propelling system and method. 1,662,206; Mar. 13.
Paxton Corporation of America. (See Paxton, Clifford M., assignor.)
Payne, Walter B., assignor to The Todd Company, Inc., Rochester, N. Y. Printing apparatus. Re16,899; Mar. 13.
Peake, Roberto M., et al. (See Weitling, W. W., and Henry, assignors.)
Peale, Rembrandt, et al, trustees. (See Davis, Kenneth, assignor.)
Pearson, Charles H. (See Bold, Frederick W., assignor.)
Peattie, Hazel M., et al. (See Bettoli, Rudolph W., assignor.)
Peelle, Willis J., Chicago, Ill. Vacuum-sealing cap. 1,662,435; Mar. 13.
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for and method of feeding molten glass. 1,662,436; Mar. 13.
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,662,437; Mar. 13.
Pepin, Harvey, Willimansett, Mass. Leather cutter. 1,662,398; Mar. 13.
Perfection Stove Company. (See Dahlstrom, John A., assignor.)
Perritt, Elliott E., Pittsburgh, Pa. Mortar box. 1,662,280; Mar. 13.
Perry, Hubert M., assignor to S. L. Woods, Chicago, Ill. Antifriction bearing. 1,662,328; Mar. 13.
Peterson, Ernest W., Kansas City, Mo. Vending machine. 1,662,329; Mar. 13.
Peterson, John B., Blaine, Wash. Regulating valve for water troughs. 1,662,716; Mar. 13.
Petsche, Joseph D. (See Leustig, B. B., and Petsche.)
Pfeil, Roy C. (See Bloss, R. R., Pfeil, and Maurer.)
Philadelphia Storage Battery Company. (See Grimditch, W. H., and Hunsberger, assignors.)
Phillips, John X., jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,662,207; Mar. 13.
Pleister, Henry W., Westfield, N. J., assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Machine and process for removing excess molten material. 1,662,537; Mar. 13.
Poeppel, Otto, Esslingen-on-the-Neckar, Germany. Rendering paper sheets locally transparent. 1,662,717; Mar. 13.
Polar Electric Refrigerator Corporation. (See Williams, Frank E., assignor.)
Pollan, John R., Fort Smith, Ark. Seed-potato-cutting machine. 1,622,759; Mar. 13.
Porter, Johnston P., Portland, Oreg. Seagoing log raft. 1,662,683; Mar. 13.
Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Duplex radio signaling set. 1,662,126; Mar. 13.
Pounds, Hoyle, Winter Garden, Fla. Tractor wheel. 1,662,208; Mar. 13.
Pratt, Ross H., Washington, D. C. Variable-speed transmission. 1,662,164; Mar. 13.
Press, Abraham, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controllable grid leak. 1,662,510; Mar. 13.
Prest-O-Lite Company, The. (See Baker, Harry J., assignor.)
Primrose, Bernie G., Plemons, Tex. Deep-well pump. 1,662,127; Mar. 13.
Priviters, Nunzio, Toronto, Ontario, Canada. Hair waving device. 1,662,330; Mar. 13.
Protzeller, Harry W., East Chicago, assignor to O. F. Jordan Company, East Chicago, Ind. Tank-car construction. 1,662,471; Mar. 13.
Prussian, Myer. (See Cosgray, Mark C., assignor.)
Pugh, John D., Baltimore, Md. Rolling mill. 1,662,331; Mar. 13.
Pugh, John D., Baltimore, Md. Rolling mill. 1,662,332; Mar. 13.
Pulver, Edward A., et al. (See Pulver, Henry H., assignor.)
Pulver, Henry H., assignor of one-fourth to J. G. Biehler, one-fourth to E. A. Pulver, and one-fourth to L. H. Pulver, Rochester, N. Y. Vending machine. 1,662,472; Mar. 13.
Pulver, Libbie H., et al. (See Pulver, Henry H., assignor.)
Punt, Simon, Grand Rapids, Mich. Marking and cutting device. 1,662,165; Mar. 13.
Pym, Arthur F., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,662,253; Mar. 13.
Pym, Arthur F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,662,254; Mar. 13.
Quinn, Edward J., C. E. Sprake, and H. J. Gritman, Kingston, Pa. Safety lamp. 1,662,333; Mar. 13.
Rabkin, William, New York, N. Y. Picture-machine casing. Des. 74,698; Mar. 13.
Radio Corporation of American. (See Franklin, C. S., and Eckersley, assignors.)
Ralston, Harley C., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Shear. 1,662,473; Mar. 13.
Randall, Frank E., assignor of two-thirds to T. Holmes and J. E. Glenn, Los Angeles, Calif. Adjustable eraser holder. 1,662,474; Mar. 13.
Raschick, Charles T., St. Paul, Minn. Check holder and cutter. 1,662,166; Mar. 13.
Read, Chester L. (See Rose, C. A., and Read.)
Reberg, Fred B., Casper, Wyo. Street-light fixture. 1,662,334; Mar. 13.
Redmond, Albert G., Indianapolis, Ind., assignor to J. R. Francis, Flint, Mich. Fuel-feeding means for charge-forming devices. 1,662,128; Mar. 13.
Mar. 13.
Reed, Charles E. (See Boynton, Stanley E., assignor.)
Reeves Pulley Company. (See Clay, Harry C., assignor.)
Regard, Georges L., Geneva, Switzerland. Motorcycle. 1,662,718; Mar. 13.
Reichold, Ludwig, Winsted, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Spring socket terminal. 1,662,335; Mar. 13.
Reichold, Ludwig, Winsted, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Temperature-indicating device for waffle irons. 1,662,621; Mar. 13.
Reinhold, William F., Buffalo, N. Y. Clip for temporarily supporting structural members. 1,662,438; Mar. 13.

Remington, Arthur L., assignor to Warp Compressing machine Company, Worcester, Mass. Thread-tensioning device. 1,662,209; Mar. 13.
Remington Automotive Corporation. (See Mandolini, Caesar A., assignor.)
Rexinger, Otto M., Beverly Hills, Calif. Window grating. 1,662,167; Mar. 13.
Reynolds, Charles H., Houston, Tex. Well packer. 1,662,336; Mar. 13.
Reynolds, John L., Long Island City, N. Y., assignor, by mesne assignments, to Electrical Research Products Inc. Switching apparatus and system. 1,662,168; Mar. 13.
Rhodes-Hochriem Manufacturing Co. (See Hochriem, Gustav F., assignor.)
Richmond, Everett E. (See Baldwin, A. S., and Richmond.)
Richmond, Rexford B., and R. H. Dodd, Stockton, Calif. Auto top socket bow puller. 1,662,538; Mar. 13.
Rider, Douglas. (See Duckham, A. M., Rider, and Watts.)
Ries, Edmond M. (See Young, C. F., and Ries.)
Rimmer, Gilbert, London, England, assignor to Sullivan Machinery Company, Chicago, Ill. Mining machine. 1,662,800; Mar. 13.
Ringler, William A., Philadelphia, Pa., assignor to The Globe-Wernicke Co. Visible index. 1,662,337; Mar. 13.
Risser, Ross E., assignor to Catron Manufacturing Company, Bonham, Tex. Unit-measuring liquid dispenser. 1,662,338; Mar. 13.
Ritchey, Harry G., assignor to Simplex Automotive Products Company, Chicago, Ill. Vacuum tank. 1,662,282; Mar. 13.
Robertson, John, Pasadena, Calif. Lawn-mower comb attachment. 1,662,785; Mar. 13.
Robertson, William W. (See Soderberg, J. G., Lockwood, and Robertson.)
Robinson, Edward B., Brentwood, England, assignor to Sullivan Machinery Company, Chicago, Ill. Mining apparatus. 1,662,719; Mar. 13.
Robinson, James. (See Clifton, J., Robinson, and Spencer.)
Robison, Daniel B., Cicero, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,662,129; Mar. 13.
Roderick, Richard D., Jermyn, Pa. Obstetrical forceps. 1,662,169; Mar. 13.
Rodgers, Fay T., Memphis, Tenn. Refrigerator. 1,662,587; Mar. 13.
Rogers, Ralph W., Franklin, Pa. Power-transmission gearing. 1,662,130; Mar. 13.
Rood, John M., and W. Driver, Racine, Wis. Sanitary milk-bottle container. 1,662,399; Mar. 13.
Rose, Charles A., Cranford, and C. L. Read, Rahway, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Purifying metallic antimony. 1,662,439; Mar. 13.
Rose, Howard C., Detroit, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Circular-milling machine. Re16,903; Mar. 13.
Royce, Charles F., assignor to Heminway & Bartlett Silk Company, Watertown, Conn. Thread-spooler guide. 1,662,475; Mar. 13.
Ruberoid Co., The. (See Abraham, Herbert, assignor.)
Rubin, Frederick W. and H. E., Indianapolis, Ind.; said H. E. Rubin assignor to said Frederick W. Rubin. Automatic and remote humidity control. 1,662,283; Mar. 13.
Rubin, Harry E. (See Rubin, Frederick W. and H. E.)
Rubin, Louis, Philadelphia, Pa. Underwear. 1,662,400; Mar. 13.
Rushmore, Samuel W., Plainfield, N. J. Condenser for motor-cooling systems. 1,662,440; Mar. 13.
Sabel, John C., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical instrument. 1,662,339; Mar. 13.
Sadosky, Sylvester S., Staples, Minn. Trap. 1,662,476; Mar. 13.
Safeway Headlights, Incorporated. (See Cunniff, John V., assignor.)
Sahlstrom, Gustaf R., Rockford, Ill. Implement for handling and working concrete. 1,662,170; Mar. 13.
Salm, John J., Akron, Ohio. Torch. 1,662,210; Mar. 13.
Samter, L., & Sons. (See Samter, Samuel L., assignor.)
Samter, Samuel L., San Francisco, assignor to L. Samter & Sons, San Francisco, Calif. Form for displaying neckwear. 1,662,477; Mar. 13.
Sanchez, Maximiliano, New York, N. Y. Pump. 1,662,720; Mar. 13.
Sanders, Francis M., Brooklyn, N. Y. Collapsible table. 1,662,684; Mar. 13.
Sandman, August G., Baltimore, Md. Hopper door. 1,662,760; Mar. 13.
Sanford Riley Stoker Company. (Se Daniels, Fred H., assignor.)
Sartorio, Giovanni. (See Urtis, Cesare, assignor.)
Sasseen, John H., New Braunfels, Tex. Preserving rice polish. 1,662,401; Mar. 13.
Savery, Joseph W., San Francisco, Calif. Smoker's stand. 1,662,171; Mar. 13.
Scatena, Vincent, Pittsburgh, Pa. Signal-light casing. Des. 74,699; Mar. 13.
Schaefer, August C., Portland, Oreg. Can opener of the nipper type having an adjusting head. 1,662,172; Mar. 13.
Schambs, Edward A. (See Thomas, D. H., and Schambs.)
Schenstrom, William. (See Kjekstad, Johannes, assignor.)
Schenzer, Karl. (See Hartmann, Paul, assignor.)
Schmidt, Oscar C., assignor to The Cincinnati Butchers Supply Company, Cincinnati, Ohio. Supporting means for overhead tracks. 1,662,539; Mar. 13.
Schmiedeknecht, Victor E., Louisville, Ky., assignor of one-half to Gohmann Brothers and Kahler Company, New Albany, Ind. Molding device. 1,662,340; Mar. 13.
Schneider, Bernard R., Jersey City, N. J. Adjustable clamping strap for milling and like machines. 1,662,173; Mar. 13.
Schneider, George R., Miami, Fla. Metallic awning. 1,662,721; Mar. 13.
Schonfeld, Leslie, London, England. Tube and like bending machine. 1,662,131; Mar. 13.
Schoonmaker, James M., jr. (See Geistert, A. G., and Schoonmaker.)
Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Apparatus for the manufacture of artificial silk. 1,662,478; Mar. 13.
Schultz, Richard W., Richmond, Va. Railway tie. 1,662,402; Mar. 13.
Schwan, Joseph, Milwaukee, Wis. Gasoline gauge. 1,662,540; Mar. 13.
Schwartz, Hattie B., Pasadena, Calif. Kindergarten crayon and scissors holder. 1,662,077; Mar. 13.
Schwarz, Hugo, San Bruno, Calif. Apparatus for sealing packages. 1,662,341; Mar. 13.
Schweig, Julius A., St. Louis, Mo. Lock for elevator doors. 1,662,342; Mar. 13.
Schwoeppe, Henry G. (See Allen, J. E., and Schwoeppe.)
Scott and Williams, Inc. (See Scott, Robert W., assignor.)
Scott, Robert W., Babylon, assignor to Scott and Williams, Inc., New York, N. Y. Knitting-machine needle. 1,662,281; Mar. 13.
Scriven, Bernard E., Sound Beach, assignor to The Excelsior Plimtruck Co., Stamford, Conn. Elevating truck. 1,662,782; Mar. 13.
Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Thermostatically-controlled damper mechanism for radiators. 1,662,541; Mar. 13.
Seeger, Edwin H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic relay. 1,662,174; Mar. 13.
Seneca Falls Machine Company. (See King, Nathaniel, assignor.)
Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Method of and machine for grinding fine tooth hobs. 1,662,078; Mar. 13.
Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Machine for grinding hob and disk cutters. 1,662,079; Mar. 13.
Sexton, John R., La Junta, Colo. Hub liner. 1,662,441; Mar. 13.
Sharpneck, Eliel L. (See Sharpneck, Nellie E. and E. L.)
Sharpneck, Nellie E. and E. L., East Bakersfield, Calif. Safety drainer. 1,662,343; Mar. 13.
Shea, Frank B., Brooklyn, N. Y. Blanket holder for printing cylinders. 1,662,284; Mar. 13.
Sheldon, Edward P., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Stapling mechanism. 1,662,442; Mar. 13.
Shelton, William G., St. Louis, Mo. Hair-waving clip. 1,662,285; Mar. 13.
Shelton, William G., St. Louis, Mo. Hair winder. 1,662,286; Mar. 13.
Sherman, Ralph L. (See Myers, D. W., and Sherman.)
Shier, James C., Toronto, Ontario, Canada. Accelerator-controlling device. 1,662,211; Mar. 13.
Short, Jefferson D., Albuquerque, N. Mex. Spring wheel. 1,662,542; Mar. 13.
Shur-On Standard Optical Company. (See Jerry, Carl R., assignor.)
Shuttleworth, John, Altrincham, assignor to Linotype and Machinery Limited, London, England. Side-register device for printing machines. 1,662,588; Mar. 13.
Siemann, John C. (See Hess, R. W., and Siemann.)
Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, W., Hecht, and Nielsen, assignors.)
Silbar, Ulysses S., Grand Rapids, Mich. Paper package. 1,662,080; Mar. 13.
Silent, Harold C., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. High-frequency modulating system. 1,662,081; Mar. 13.
Silesia Verein Chemischer Fabriken. (See Flemming, Walter, assignor.)
Silverthorne, Edwin, et al. (See Coupland, Ernst, assignor.)
Simmons, Bert J., Stillwater, Minn. Inductance apparatus. 1,662,132; Mar. 13.
Simmons, Oliver G., Lakewood, Ohio. Controlling movements of work-carrying spindle with respect to a cutting element in gear-grinding machines and the like. 1,662,589; Mar. 13.
Simplex Automotive Products Company. (See Ritchey, Harry G., assignor.)
Simplex Piston Ring Company. (See Solenberger, Dean M., assignor.)
Skaletsky, Morris H., Brooklyn, N. Y. Strap for belts and the like. 1,662,646; Mar. 13.
Sklar, Samuel B., Minneapolis, Minn. Smoker's cabinet. Des. 74,700; Mar. 13.

Smith, Albert W., Manchester, England. Filling head of bottle-filling machines. 1,662,761; Mar. 13.
Smith, Emory T., Ludlow, assignor to The Chapman Valve Manufacturing Company, Indian Orchard, Mass. Valve-operating mechanism. 1,662,133; Mar. 13.
Smith, Emory T., Ludlow, assignor to The Chapman Valve Manufacturing Company, Indian Orchard, Mass. Valve-operating mechanism. 1,662,134; Mar. 13.
Smith, George W., jr., Riverton, N. J., assignor to Victor Talking Machine Company. Sound-reproducing means. 1,662,135; Mar. 13.
Smith, Henry, London, England. Opening or closing sliding windows and the like. 1,662,722; Mar. 13.
Smith, Hinsdale, Keyport, N. J. Demountable window. 1,662,082; Mar. 13.
Smith, John A., Canonsburg, Pa. Take-up for bearings. 1,662,479; Mar. 13.
Smith, Walter H., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-delivery device. 1,662,647; Mar. 13.
Smith, Weston R., and R. F. Wieneke, Jackson, assignors to General Motors Corporation, Detroit, Mich. Wheel-hub-assembling device. 1,662,543; Mar. 13.
Snow, Chester L., Washington, D. C. Fluid-controlling means. 1,662,723; Mar. 13.
Sobel, Joseph, assignor to Genuine Bronze Fixture Co., Brooklyn, N. Y. Pedestal for display stands or similar articles. Des. 74,701; Mar. 13.
Societa Italiana Pirelli. (See Emanueli, Luigi, assignor.)
Societe Alsacienne de Constructions Mecaniques. (See Gégauff, Charles, assignor.)
Société des Etablissements Singrün. (See Veber, Georges, assignor.)
Society of Chemical Industry in Basle. (See Catineau, André, assignor.)
Soderberg, John G., G. D. Lockwood, and W. W. Robertson, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Tube frame for Axminster looms. 1,662,212; Mar. 13.
Sohn, Frank, Chicago, and L. G. Marmion, Villa Park, Ill., assignors to The Bitrolite Company. Decorative table top. Des. 74,702; Mar. 13.
Solenberger, Dean M., Kansas City, Mo., assignor to Simplex Piston Ring Company, Cleveland, Ohio. 1,662,544; Mar. 13.
Sonnek, Pierre F. (See Fokker, A. H. G., and Sonnek.)
Soreng, Edgar M., Chicago, Ill., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Lock switch. 1,662,344; Mar. 13.
Sorensen, Henry, San Francisco, Calif. Construction of fireproof buildings. 1,662,480; Mar. 13.
Speidel, Charles F. (See Kroedel, R., and Speidel.)
Spelta, Egidio, Turin, Italy. Spray screen. 1,662,545; Mar. 13.
Spencer, John. (See Clifton, J., Robinson, and Spencer.)
Sperry, John B., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. 1,662,443; Mar. 13.
Sprake, Charles E. (See Quinn, E. J., Sprake, and Gritman.)
Standish, Eula S., Providence, R. I. Brassière. 1,662,345; Mar. 13.
Stanley Works, The. (See Howe, L. S., and Holloway, assignors.)
Steinberger, Louis, Brooklyn, N. Y. Loud speaker. Des. 74,703; Mar. 13.
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Sizing device for internal-grinding machines. 1,662,213; Mar. 13.
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Grinding machine. 1,662,546; Mar. 13.
Stephens, William A. (See Woeste, Louis B., assignor.)
Sterling Novelty Mfg. Co., The. (See Draher, J., and Krieger, assignors.)
Sterling Telephone & Electric Company Limited, The. (See Blades, N., and Marks, assignors.)
Stevens, Norman F., Los Angeles, Calif. Lighting fixture. 1,662,136; Mar. 13.
Stewart Iron Works Company, The. (See Young, C. F., and Ries, assignors.)
Stewart, Romaine B., Crows Landing, Calif. Battery terminal clamp. 1,662,346; Mar. 13.
Stewart Warner Speedometer Corporation. (See Bossi, Enea, assignor.)
Stiles, Edward M., Burlington, Iowa, assignor to U. S. Slicing Machine Company. Slicing machine. 1,662,214; Mar. 13.
Stiles, Edward M., Burlington, Iowa, assignor to U. S. Slicing Machine Company. Slicing machine. 1,662,215; Mar. 13.
Stimpson, Walter F., and W. E. Finch, Louisville, Ky.; said Finch assignor to said Stimpson. Scale. 1,662,403; Mar. 13.
Stocker, Ernst, assignor to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Increasing the affinity of animal fibers for dyestuffs. 1,662,404; Mar. 13.
Stocking, Carl E., Princeton, Ky. Fishing reel. 1,662,347; Mar. 13.
Stoller, Hugh M., Mountain Lakes, N. J., and E. R. Morton, assignors to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. 1,662,083; Mar. 13.
Stoller, Hugh M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulating system. 1,662,084; Mar. 13.
Stoller, Hugh M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulating system. 1,662,085; Mar. 13.
Strauss, Ferdinand, New York, N. Y. Harmonica. Des. 74,704; Mar. 13.
Stricker, George W., Dallas, Tex. Changeable sign and traffic signal. 1,662,348; Mar. 13.
Stuart, Thomas F., and H. A. Moore, Los Angeles, Calif. Push catch for doors. 1,662,255; Mar. 13.
Stuhr, Herman F., assignor to The E. Konigslow Stamping & Tool Company, Cleveland, Ohio. Oiling appliance for thread or yarn. 1,662,086; Mar. 13.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Maxson, Louis A., assignor.)
Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Rimmer, Gilbert, assignor.)
Sullivan Machinery Company. (See Robinson, Edward B., assignor.)
Summers, Kenneth E., assignor to Bethel-Player Co., Westboro, Mass. Lapping machine. 1,662,137; Mar. 13.
Swank, Arthur H., Fremont, Ohio. Knife handle. 1,662,405; Mar. 13.
Sweeney, Dennis, Farmingdale, N. Y. Necklace. Des. 74,705; Mar. 13.
Swingspout Measure Co. (See Allen, S. E., and Wiswell, assignors.)
Switzer, Sam, Casper, Wyo. Back cushion for vehicle seats. 1,662,216; Mar. 13.
Tabor Engineering Company, The. (See Tabor, L., and Tait, assignors.)
Tabor, Leroy, Riverton, and J. Tait, Palmyra, N. J., assignors to The Tabor Engineering Company, Philadelphia, Pa. Oil-burner equipment. 1,662,783; Mar. 13.
Tait, John. (See Tabor, L., and Tait.)
Tansill, Charles M., Woodlawn, assignor of one-third to C. E. Nolte and one-third to W. E. Windsor, Baltimore, Md. Spark plug. 1,662,724; Mar. 13.
Tate, Ora E., sr., Elberton, Ga. Smoking device. 1,662,762; Mar. 13.
Tegler, Frederick A., St. Joseph, Mo. Automatic voltage regulator. 1,662,444; Mar. 13.
Teichart, Ernst G., Duquesne, assignor of one-half to H. Howden, Homstead, Pa. Metal railroad tie. 1,662,685; Mar. 13.
Ternstedt Manufacturing Company. (See Archer, T. P., and Edgar, assignors.)
Thomas, Daniel H., and D. A. Schambs, Wichita Falls, Tex. Pumping jack. 1,662,087; Mar. 13.
Thompson, Charles S., Ridley Park, assignor to The Viscose Company, Marcus Hook, Pa. Skeining apparatus. 1,662,686; Mar. 13.
Thompson, Elmer H., Medimont, Idaho. Airplane. 1,662,406; Mar. 13.
Thompson, George K., Summit, N. J. Storage battery. 1,662,349; Mar. 13.
Thomson, James K. (See Mensing, Carl F., assignor.)
Thomson, Thomas M. (See Gill, C. H., and Thomson.)
Thomson, Volney W., El Paso, Tex. Package. 1,662,763; Mar. 13.
Thormeyer, Hans, Berlin, Germany. Internal-combustion engine. 1,662,590; Mar. 13.
Thorne, Viola, assignor of one-half to R. F. Glocheski, Grand Rapids, Mich. Article-holding clip. 1,662,175; Mar. 13.
Tilton, Charles H., Chicago, Ill. Shade mounting. 1,662,217; Mar. 13.
Tilmas, Harry, Pawtucket R. I. Textile reed or comb. 1,662,591; Mar. 13.
Todd Company, The. (See Orndorff, William R., assignor.)
Todd Company, The. (See Payne, Walter B., assignor.)
Tojek Brothers. (See Tojek, Stephen F.)
Tojek, Philip, et al. (See Tojek, Stephen F., assignor.)
Tojek, Stephen F., et al. (See Tojek, Stephen F., assignor.)
Tojek, Stephen F., assignor to S. F. Tojek and P. Tojek, copartners doing business under the firm name and style of Tojek Brothers, Milwaukee, Wis. Feeding device for shaping presses. 1,662,218; Mar. 13.
Tolbert, Olivia V., Frys Mills, Ark. Skirt marker. 1,662,407; Mar. 13.
Toman, Otto E., Pine City, Minn. Bag holder. 1,662,764; Mar. 13.
Toney, Charles B., jr., Los Angeles, Calif. Piston. 1,662,725; Mar. 13.
Toruif, Helge G. (See Holmberg, Anders, assignor.)
Trabuco, J. E., et al. (See Bettoli, Rudolph W., assignor.)

Trammell, Earl M., assignor to El Paso Sash & Door Company, El Paso, Tex. Telephone cabinet. Des. 74,706; Mar. 13.
Traylor Engineering & Manufacturing Company, The. (See Patten, Charles H., assignor.)
Trbojevich, Nikola, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Hobbing spur gears. 1,662,408; Mar. 13.
Trico Products Corporation. (See Folberth, Frederick G. and W. M., assignors.)
Trico Products Corporation. (See Phillips, John X., jr., assignor.)
Trinquart, Louis G., Paris, France, assignor to The Bassick Manufacturing Company, Chicago, Ill. High-pressure lubricating compressor. 1,662,370; Mar. 13.
Troha, Joseph W., Cleveland, Ohio. Valve-reseating tool. 1,662,445; Mar. 13.
Troyer, Nelson, and M. L. Dodge, Seattle, Wash. Drying machine. 1,662,371; Mar. 13.
Tull, Ivan M., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Washing machine. 1,662,176; Mar. 13.
Tullis, Ross L., New Haven, Conn. Cellulose bird cage. 1,662,687; Mar. 13.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector mounted on regularly-moving transferrers. 1,662,219; Mar. 13.
Tyden, Emil, Evanston, Ill. Accelerator for dry-pipe sprinkler systems. 1,662,256; Mar. 13.
Tyler, W. S., Company, The. (See Disbro, Roger W., assignor.)
Umstead, Morris F., Aldan, Pa. Ribbon-guiding attachment for typewriters. 1,662,220; Mar. 13.
Underwood Elliott Fisher Company. (See McMahon, Thomas J., assignor.)
Union Switch & Signal Company, The. (See Murphy, George F., assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
United Engineering & Foundry Company. (See Johnson, Lane, assignor.)
United Shoe Machinery Corporation. (See Marsh, Frank A. E., assignor.)
United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
United Shoe Machinery Corporation. (See Williams, Ernest A., assignor.)
United States Foil Co. (See Golden, William G., assignor.)
United States Glass Company. (See Loomis, Virgil V., assignor.)
United States of America. (See Coogle, Charles P., assignor.)
U. S. Slicing Machine Company. (See Stiles, Edward M., assignor.)
Urtis, Cesare, assignor to G. Sartorio, Turin, Italy. Apparatus for preparing coffee and other infusions. 1,662,657; Mar. 13.
Valerio, Francesco, Stamford, Conn. Adjustable widening attachment for concrete-road finishers. 1,662,257; Mar. 13.
Van Deventer, Harry R., New York, N. Y., assignor to Dubilier Condenser Corporation. Testing device. 1,662,548; Mar. 13.
Vandiver, Leslie A., Kansas City, Mo. Coin-controlled mechanism for vending machines. 1,662,221; Mar. 13.
Vapor Heating Company. (See Birnstock, William W., assignor.)
Varley Duplex Magnet Co. (See Varley, Richard, assignor.)
Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Co. Adjustable coil mounting. 1,662,765; Mar. 13.
Veber, Georges, assignor to Société des Etablissements Singrün, Epinal, France. Change-speed gear box or universal divisor. 1,662,688; Mar. 13.
Vernay, Jean B., Villeurbanne, France. Filtering apparatus. 1,662,726; Mar. 13.
Versare Corporation. (See Warhus, Oliver F., assignor.)
Victor Talking Machine Company. (See Smith, George W., jr., assignor.)
Viscose Company, The. (See Thompson, Charles S., assignor.)
Vitrolite Company, The. (See Sohn, F., and Marmion, assignors.)
Viverito, Antonio, New York, N. Y. Bag carrier or receptacle support. 1,662,089; Mar. 13.
Von Kando, Kalman, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company. Speed regulation for polyphase induction motors. 1,662,549; Mar. 13.
Von Raussendorff, Hans, Chicago, Ill. Tiller. 1,662,088; Mar. 13.
Vorhauer, Harry G., Long Beach, Calif. Internal-combustion engine. 1,662,090; Mar. 13.
Vreeland, Cornelius D., Vineland, N. J. Sulphur fungicide and insecticide. 1,662,550; Mar. 13.
Vuozzo, Joseph G., Corona, N. Y. Holder for trees and the like. 1,662,091; Mar. 13.
Wadsworth, Frank L. O., Pittsburgh, Pa. Supplemental spring snubbing suspension for vehicles. 1,662,351; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Metallic bonding for concrete supports. 1,662,727; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,662,728; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,662,729; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,662,766; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,662,767; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,662,768; Mar. 13.
Wait, Wesley, Newburgh, N. Y. Interlocking joint for metallic frames. 1,662,769; Mar. 13.
Wakefield All-Steel Wrench Company. (See Wakefield, Clarence E., assignor.)
Wakefield, Clarence E., assignor to Wakefield All-Steel Wrench Company, Inc., Worcester, Mass. Socket wrench set. 1,662,409; Mar. 13.
Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multiple-needle detector. 1,662,222; Mar. 13.
Waldron, Benjamin F., Duncan, Okla. Underreamer. 1,662,138; Mar. 13.
Waldron, John, Corporation. (See Waldron, W. H., and Case, assignors.)
Waldron, William H., and L. B. Case, assignors to John Waldron Corporation, New Brunswick, N. J. Printing machine. 1,662,689; Mar. 13.
Wales, Rowland T., New Rochelle, assignor of one-half to A. C. Fraser, New York, N. Y. Wire clamp for concrete forms. 1,662,258; Mar. 13.
Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,662,481; Mar. 13.
Wallace, William S., et al., trustees. (See Davis, Kenneth, assignor.)
Walters, Herbert, and R. A. Hoerman, Detroit, Mich. Disk wheel. 1,662,622; Mar. 13.
Wands, Thomas L., Spencer, N. C. Clothes-treating appliance. 1,662,350; Mar. 13.
Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
Wappler, Reinhold H., Yonkers, assignor to Wappler Electric Company, Inc., Long Island City, N. Y. Metal-foil electrode. 1,662,466; Mar. 13.
Ward, Abraham D., Los Angeles, Calif. Saw guard. 1,662,372; Mar. 13.
Ward, Robert E., Kansas City, Mo. Locking mechanism for filling-tube caps. 1,662,482; Mar. 13.
Warhus, Oliver F., Albany, N. Y., assignor to Versare Corporation. Control of gasoline electric power systems. 1,662,092; Mar. 13.
Warp Compressing Machine Company. (See Remington, Arthur L., assignor.)
Wasson, Robert B., Cranford, N. J. Gauging machine and process for gauging packing rings. 1,662,648; Mar. 13.
Watson, Edward P., Floral Park, N. Y. Wheeled toy device. 1,662,447; Mar. 13.
Watts, John S. (See Duckham, A. M., Rider, and Watts.)
Wayne Company. (See Merriman, Carroll L., assignor.)
Weeks, Ralph M., Groton, Conn. Route indicator for propelled vehicles. 1,662,352; Mar. 13.
Weingartner, Anthony E., Bethlehem, assignor to American Engineering Company, Philadelphia, Pa. Siftings dump for stokers. 1,662,690; Mar. 13.
Weiss, Adolf, East Pittsburgh, Pa. Safety window. 1,662,623; Mar. 13.
Weiss, Edward A. (See Hartmann, W. C., and Weiss.)
Weitling, William W., College Point, and A. M. Henry, Brooklyn, assignors to W. W. Weitling, College Point, N. Y., trustee for himself, A. M. Henry, and R. M. Peake. Rotary casting. 1,662,592; Mar. 13.
Weitling, William W., trustee. (See Weitling, W. W., and Henry, assignors.)
Weitz, Charles H., Piedmont, Calif. Waterproofing insertion member. 1,662,287; Mar. 13.
Welch, John R., deceased, V. M. Welch, executrix, Muncie, Ind., assignor to V. M. Welch, individually. Metallic vehicle wheel. 1,662,551; Mar. 13.
Welch, Viola M., executrix. (See Welch, John R.)
Welch, Viola M., individually. (See Welch, John R., assignor.)
Wells, Harold S., and H. H. Lightle, assignors to Dodge Brothers, Inc., Detroit, Mich. Conveyer-bar construction. 1,662,093; Mar. 13.
Wells, Homer A., Rico, Colo. Cushion tire for wheels. 1,662,770; Mar. 13.
Wenger, David M., Leola, Pa. Reversible mechanism for operating washing-machine wringers. 1,662,552; Mar. 13.
Werber, Fred C., Wilkes-Barre, Pa. Thread spinning and twisting machine. 1,662,649; Mar. 13.
Werner, Henry F., and C. E. Faber, New Orleans, La. Shock absorber. 1,662,223; Mar. 13.
Werner, William, Mexia, Tex. Shock absorber for walking beams. 1,662,224; Mar. 13.
Wertenberger, Edwin G., and C. Kleist, Los Angeles, Calif. Truck for bathtubs and the like. 1,662,730; Mar. 13.
Wesp, Edward J., assignor to The Canton Foundry & Machine Company, Canton, Ohio. Adjustable bearing. 1,662,094; Mar. 13.
Wessman, Edwin G., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc., Easton, Pa. Dispensing device. 1,662,593; Mar. 13.

Wessman, Edwin G., Boonton, N. J., assignor, by mesne assignments, to Individual Drinking Cup Company, Inc., Easton, Pa. Cup dispenser. 1,662,650; Mar. 13.
Western Electric Company. (See Morton, Edmund R., assignor.)
Western Electric Company. (See Stoller, H. M., and Morton, assignors.)
Westinghouse Electric & Manufacturing Company. (See Aahbaugh, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nottage, Stanley G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Press, Abraham, assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kando, Kalman, assignor.)
Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)
White, Charles C., Chicago, Ill. Disappearing bed. 1,662,594; Mar. 13.
White, James C., assignor of one-half to W. S. White and one-half to M. T. White, Sewickley, Pa. Doll head. 1,662,691; Mar. 13.
White, L. Q., Shoe Company. (See White, Loring Q., assignor.)
White, Loring Q., Palm Beach, Fla., assignor to L. Q. White Shoe Company, Bridgewater, Mass. Insole. 1,662,624; Mar. 13.
White, Mary T., et al. (See White, James C., assignor.)
White, Winifred S., et al. (See White, James C., assignor.)
Whitehead, Thomas C., Detroit, Mich. Shoe-blacking stand. 1,662,288; Mar. 13.
Whitehead, Thomas C., Detroit, Mich. Expansion valve. 1,662,289; Mar. 13.
Whitesides, Walter L., Long Beach, Calif. Toilet-paper holder. 1,662,140; Mar. 13.
Whitlow, Jidy W., Comanche, Okla. Incubator. 1,662,139; Mar. 13.
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Resistance unit. 1,662,771; Mar. 13.
Whoolery, Donald A. (See Jones, C. E., and Whoolery.)
Widdows, Anna M., Akron, Ohio. Hair-cutting comb. 1,662,373; Mar. 13.
Wieneke, Richard F. (See Smith, W. R., and Wieneke.)
Wiggins, John H., Bartlesville, Okla. Floating deck for liquid-storage tanks. 1,662,225; Mar. 13.
Wilkes, Clarence H., and G. E. Calhoun, assignors to A-Kee-Na Products Company, Incorporated, Amsterdam, N. Y. Shears. 1,662,772; Mar. 13.
Wilking, Alphonse P. M., Belmont, Mass. Internal-combustion engine. 1,662,553; Mar. 13.
Williams, Clarence E., assignor to National Gypsum Company, Buffalo, N. Y. Building construction. 1,662,177; Mar. 13.
Williams, Ernest A., Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,662,259; Mar. 13.
Williams, Frank E., assignor to Polar Electric Refrigerator Corporation, St. Louis, Mo. Refrigerating apparatus. 1,662,353; Mar. 13.
Williams, Harry M., assignor to General Motors Research Corporation, Dayton, Ohio. Coating molds and product thereof. 1,662,354; Mar. 13.
Williams, Liebeskind, Philadelphia, Pa. Composition of matter. 1,662,625; Mar. 13.
Williams, William E., Wilmette, assignor to Ditto, Incorporated, Chicago, Ill. Gelatin pad roll and spindle therefor. 1,662,448; Mar. 13.
Wilson-Hurd Company. (See Henderson, Edwin L., assignor.)
Windsor, Walter E., et al. (See Tansill, Charles M., assignor.)
Wine, William E., Toledo, Ohio. Car-door mechanism. 1,662,651; Mar. 13.
Wiswell, Ozro N. (See Allen, S. E., and Wiswell.)
Witham, George S., jr., Hudson Falls, N. Y. Paper-making machine. 1,662,226; Mar. 13.
Woeste, Louis B., assignor of one-half to W. A. Stephens, Cincinnati, Ohio. Myriad reflector. 1,662,554; Mar. 13.
Wojciechowski, Edward, Aberdeen, Wash. Universal bottle heater. 1,662,555; Mar. 13.
Wolcott, Frank E., Manufacturing Co., The. (See Frank, Hugo, assignor.)
Wood, Basil, Manchester, England. Collar stud. 1,662,483; Mar. 13.
Woodard, William E., Forest Hills, N. Y. Locomotive rod mechanism. 1,662,595; Mar. 13.
Woodmansee, Clay G., Los Angeles, Calif. Orifice valve. 1,662,374; Mar. 13.
Woods, Sophie L. (See Perry, Hubert M., assignor.)
Woodsome, John O., Newton, Mass. Double-wall Venturi steam fitting. 1,662,095; Mar. 13.
Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic control device. 1,662,556; Mar. 13.
Woodward, Thomas S., Leetonia, Ohio. Book end or similar article. Des. 74,707; Mar. 13.
Worcester Bilt-Rite Company. (See Arey, Ralph G., assignor.)
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Worthington Pump and Machinery Corporation. (See Lucke, Charles E., assignor.)
Wright, Paul D., Edgewood Borough, Pa. Stock-level indicator. 1,662,484; Mar. 13.
Yale & Towne Manufacturing Company, The. (See Cummins, Norman W., assignor.)
Yale & Towne Manufacturing Company, The. (See Norton, Lewis C., assignor.)
Young, Charles F., and E. M. Ries, assignors to The Stewart Iron Works Company, Covington, Ky. Dumping device. 1,662,653; Mar. 13.
Yuille, Nathaniel A., San Francisco, Calif. Dredger pipe line. 1,662,178; Mar. 13.
Zelov, Victor I., Rosemont, Pa. Fluid-pressure-operated vehicle brake. 1,662,096; Mar. 13.
Zimmer, Ernest B., assignor to Liberty Gauge & Instrument Company, Cleveland, Ohio. Electric toaster. 1,662,652; Mar. 13.
Zimmerli, Adolph, New Brunswick, N. J. Concentrating formaldehyde solutions. 1,662,179; Mar. 13.
Zimmerman, Jacob, assignor to Paramount Knitting Mills, Philadelphia, Pa. Sweater. 1,662,731; Mar. 13.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Speedometer drive on propeller shafts. 1,662,557; Mar. 13.
Zubow, William, Chicago, Ill. Refrigerator latch. 1,662,449; Mar. 13.
Zumbro, Frank R., assignor to Frick Company, Waynesboro, Pa. Refrigerating system with automatic control. 1,662,558; Mar. 13.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive-resisting metal and making same. L. J. Barton. 1,662,357; Mar. 13.
Accelerator-controlling device. J. C. Shier. 1,662,211; Mar. 13.
Acid, Production of beta-napthol-1-sulphonic. A. E. Parmelee. 1,662,396; Mar. 13.
Agricultural implement. O. M. Bullock. 1,662,052; Mar. 13.
Aircraft, Controlling. A. H. G. Fokker and P. F. Sonnek. 1,662,306; Mar. 13.
Airplane. E. H. Thompson. 1,662,406; Mar. 13.
Aldehyde derivatives and products, Treating rubber with. S. M. Cadwell. 1,662,182; Mar. 13.
Alkylation of carbazol. R. W. Hess and J. C. Siemann. 1,662,061; Mar. 13.
Alloy, Ferrous. C. Meier. 1,662,158; Mar. 13.
Alumina and other materials, Heat treatment of. T. S. Curtis. 1,662,739; Mar. 13.
Amines, Production of primary. P. Herold and P. Koppe. 1,662,421; Mar. 13.
Amusement apparatus. A. Kudler. 1,662,504; Mar. 13.
Anchor for floor sleepers. H. H. Lampert. 1,662,645; Mar. 13.
Anchor, Gas. C. A. Carlson. 1,662,296; Mar. 13.
Anchor, Railway-rail. H. G. Norwood. 1,662,618; Mar. 13.
Animal trap. A. Nylund. 1,662,394; Mar. 13.
Antiskid device. C. C. Gates. 1,662,262; Mar. 13.
Antislipping device. R. R. Halstead. 1,662,111; Mar. 13.
Article-holding clip. V. Thorne. 1,662,175; Mar. 13.
Asphalt paving mixtures, Producing. J. S. Downard. 1,662,377; Mar. 13.
Automatic brake. P. Burke and A. Orloff. 1,662,635; Mar. 13.
Automobile chassis. O. E. Hunt and A. G. Geistert. 1,662,515; Mar. 13.
Automobile heater. E. Ashley. 1,662,486; Mar. 13.
Automobile, Brake mechanism for. T. Chann. 1,662,183; Mar. 13.
Automobiles or trucks, Spring suspension for. C. K. Patton. 1,662,327; Mar. 13.
Auto table. G. H. Norquist. 1,662,163; Mar. 13.
Auto top socket bow puller. R. B. Richmond and R. H. Dodd. 1,662,538; Mar. 13.
Awning, Metallic. G. R. Schneider. 1,662,721; Mar. 13.
Awning structure. W. G. Dunn. 1,662,261; Mar. 13.
Bag carrier or receptacle support. A. Viverito. 1,662,089; Mar. 13.
Bag holder. O. E. Toman. 1,662,764; Mar. 13.
Ball: *See*—
Sport ball.
Bar joist. T. A. Lucy. 1,662,752; Mar. 13.
Barite, Concentration of. W. O. Borcherdt. 1,662,633-4; Mar. 13.
Bathtubs and lavatories, Waste valve for. J. N. Mortimer. Re16,902; Mar. 13.
Battery: *See*—
Storage battery.
Battery terminal clamp. R. B. Stewart. 1,662,346; Mar. 13.
Bearing, Adjustable. E. J. Wesp. 1,662,094; Mar. 13.
Bearing, Antifriction. H. M. Perry. 1,662,328; Mar. 13.
Bearing for disk cultivators. A. W. Otoupal. 1,662,325; Mar. 13.
Bearings, Take-up for. J. A. Smith. 1,662,479; Mar. 13.
Bed, Disappearing. C. C. White. 1,662,594; Mar. 13.
Bed, Foldable tourist. A. E. Kuehn. 1,662,580; Mar. 13.
Bed rail and slat support, Auxiliary. W. C. Hartmann and E. A. Weiss. 1,662,312; Mar. 13.
Bed table attachment. H. C. Innes. 1,662,675; Mar. 13.
Belt and making endless screen. R. W. Disbro. 1,662,639; Mar. 13.
Belts and the like, Strap for. M. H. Skaletsky. 1,662,646; Mar. 13.
Binder, Joint. E. C. Giardon. 1,662,573; Mar. 13.
Binder, Loose-leaf. J. C. Dawson. 1,662,303; Mar. 13.
Blade, Cultivator. E. Fowler and J. V. Lewis. 1,662,570; Mar. 13.
Blow torch. B. Martin. 1,662,072; Mar. 13.
Block: *See*—
Safety sheave block. Vehicle stay block.
Boilers of the locomotive type, Radiant-heat superheater for. W. F. Keenan, jr. 1,662,460; Mar. 13.
Book cover. F. L. Davis. Des. 74,664; Mar. 13.
Book end or similar article. T. S. Woodward. Des. 74,707; Mar. 13.
Bottle. G. N. Mas. Des. 74,690–1; Mar. 13.
Bottle closure. H. DeWallace. 1,662,239; Mar. 13.
Bottle closures, Transferring machine for. J. A. Johnson. 1,662,271; Mar. 13.
Bottle-dispensing-machine attachment. J. D. Bench. 1,662,230; Mar. 13.
Bottle-filling machines, Filling head of. A. W. Smith. 1,662,761; Mar. 13.
Bottle heater, Universal. E. Wojciechowski. 1,662,555; Mar. 13.
Bottle, Nursing. R. W. Bettoli. Des. 74,653; Mar. 13.
Bottle or like container. R. W. Kohl. Des. 74,677; Mar. 13.
Bottle-washing apparatus. E. Brunhoff. 1,662,144; Mar. 13.
Box: *See*—
Mortar box. Switch box.
Paper box.
Box. S. Nussbaum. Des. 74,695; Mar. 13.
Box-strip-applying machine. L. S. Howe and J. J. Holloway. 1,662,268; Mar. 13.
Brace: *See*—
Rocking structural brace.
Bracelet and clasp, Chain. C. H. Batchelder. 1,662,451; Mar. 13.
Bracelet end hook. K. Augenstein. 1,662,628; Mar. 13.
Bracket. J. F. Goldsboro. 1,662,667; Mar. 13.
Braiding machines, Carrier for. W. E. Cook. 1,662,454; Mar. 13.
Brake: *See*—
Automatic brake. Vehicle brake.
Brake. A. F., A., and A. A. Frasca. 1,662,497; Mar. 13.
Brake drum. T. E. Murray. 1,662,585; Mar. 13.
Brake of the expanding-shoe type. G. Fornaca. 1,662,569; Mar. 13.
Brake-power-multiplying device. B. L. Cook and E. O. Hermann. 1,662,417; Mar. 13.
Brassière. E. S. Standish. 1,662,345; Mar. 13.
Bromine recovery. J. P. Andrew. 1,662,355; Mar. 13.
Bromine recovery. G. Edgar. 1,662,305; Mar. 13.
Building construction. C. E. Williams. 1,662,177; Mar. 13.
Bumper with rubber buffer. A. G. Geistert and J. M. Schoonmaker, jr. 1,662,309; Mar. 13.
Burner. J. A. Dahlstrom. Des. 74,663; Mar. 13.
Burner. C. H. Morrow. 1,662,507; Mar. 13.
Burner with air-whirling means, Oil. A. R. Jepson. 1,662,270; Mar. 13.
Button. E. F. Nulty. 1,662,203; Mar. 13.
Button, Cuff. W. A. Ormsbee. Des. 74,696; Mar. 13.
Cabinet. F. F. Dolesby. Des. 74,666; Mar. 13.
Cabinet. A. B. Modine. Des. 74,692; Mar. 13.
Cabinet heater. E. P. Cole. 1,662,297; Mar. 13.
Cabinet or similar article, Billiard. J. H. Crites. Des. 74,662; Mar. 13.
Cabinet, Smoker's. S. B. Sklar. Des. 74,700; Mar. 13.
Cabinet, Telephone. E. M. Trammell. Des. 74,706; Mar. 13.
Cabinet, Telephone wall. W. D. Johnston. Des. 74,674; Mar. 13.
Cabinet, Wall. W. D. Johnston. Des. 74,675; Mar. 13.
Cable, High-tension electric. L. Emanueli. 1,662,107; Mar. 13.
Cables, Yieldable connecter for electric. C. M. Goodrich. 1,662,245; Mar. 13.
Cage: *See*—
Cellulose bird cage.
Cage, Cellulose bird. R. L. Tullis. 1,662,687; Mar. 13.
Calculating machine. C. Luttropp. 1,662,526; Mar. 13.
Cam column clamp. G. F. Newton. 1,662,757; Mar. 13.
Mar. 18.
Camera and projector, Combined motion-picture. A. K. Hadley. 1,662,057; Mar. 13.
Camera focusing device. P. C. Oscanyan. 1,662,125; Mar. 13.
Camera focusing mechanism. R. Kroedel and C. F. Speidel. 1,662,427; Mar. 13.
Camera, Multipicture. L. J. Doogood and L. P. Branagan. 1,662,304; Mar. 13.
Canal and the filling and emptying of the locks thereof. F. M. Henry. 1,662,113; Mar. 13.
Candy menu stand. C. C. Chase. 1,662,637; Mar. 13.
Canopy and stand, Combined funeral. W. O. Laube. 1,662,522; Mar. 13.
Cane. I. Caesar. 1,662,102; Mar. 13.
Car construction, Tank-. H. W. Protzeller. 1,662,471; Mar. 13.
Car end, Metal. M. Lachman. 1,662,193; Mar. 13.

Carburetor control, Thermostatic. H. F. Hudson. 1,662,778; Mar. 13.
Carding machines, Loosening roll for. O. W. Bredbury. Re16,898; Mar. 13.
Carrier: *See*—
Trolley-wheel carrier.
Carton. A. C. Cramer. 1,662,698; Mar. 13.
Carton charger. F. Knoeppel. 1,662,273; Mar. 13.
Case: *See*—
Packing case. Vanity case.
Case for ophthalmic mountings. C. R. Jerry. Des. 74,673; Mar. 13.
Casement fastener. H. H. Garratt. 1,662,666; Mar. 13.
Casing head. C. C. Hosmer. 1,662,707; Mar. 13.
Casting, Rotary. W. W. Weitling and A. M. Henry. 1,662,592; Mar. 13.
Centrifugal separator. H. McCormack. 1,662,199; Mar. 13.
Ceramic and other products, Apparatus for firing. C. T. Holcroft and C. E. Doll. 1,662,063; Mar. 13.
Chains, Apparatus for regulating the tension of. E. M. Ballot. 1,662,229; Mar. 13.
Chains, Coupling for bead. W. J. Gagnon. 1,662,665; Mar. 13.
Chair. W. S. Ferris. 1,662,458; Mar. 13.
Chandelier. J. Novin. Des. 74,694; Mar. 13.
Channeler. H. H. Marcer. 1,662,790; Mar. 13.
Check holder and cutter. C. T. Raschick. 1,662,166; Mar. 13.
Chocolate, cocoa, and the like, Reducing or refining apparatus for. F. G. Fryer. 1,662,572; Mar. 13.
Christmas-tree support. A. Kirshner. 1,662,579; Mar. 13.
Chuck for headstocks, Work-holding. F. Frick. 1,662,571; Mar. 13.
Circuit control, Pressure-actuated. I. E. McCabe. 1,662,122; Mar. 13.
Clamp: *See*—
Battery terminal clamp. Cam column clamp.
Clamping strap for milling and like machines, Adjustable. B. R. Schneider. 1,662,173; Mar. 13.
Cleaner: *See*—
Comb cleaner. Windshield cleaner.
Cleansing and polishing compound. C. H. McAleer. 1,662,582; Mar. 13.
Clip: *See*—
Article-holding clip. Hair-waving clip.
Clip for temporarily supporting structural members. W. F. Reinhold. 1,662,438; Mar. 13.
Clip for writing instruments. W. C. S. Mays. 1,662,073; Mar. 13.
Closure boot, Flexible. A. G. Geistert. 1,662,310; Mar. 13.
Closure structure. J. E. Carlson and W. G. Nordman. 1,662,361; Mar. 13.
Clothes-treating appliance. T. L. Wands. 1,662,350; Mar. 13.
Clutch and clutch-actuating mechanism. F. H. Bierman. 1,662,598; Mar. 13.
Clutch bearing for vehicles. P. Demchuk. 1,662,601; Mar. 13.
Clutch with tooth plates. H. S. Golden. 1,662,512; Mar. 13.
Coaster. G. C. Elliott. 1,662,146; Mar. 13.
Coating molds and product thereof. H. M. Williams. 1,662,354; Mar. 13.
Coffee and other infusions, Apparatus for preparing. C. Urtis. 1,662,547; Mar. 13.
Coil mounting, Adjustable. R. Varley. 1,662,765; Mar. 13.
Coiling material and apparatus therefor. L. Johnson. 1,662,577; Mar. 13.
Collapsible table. F. M. Sanders. 1,662,684; Mar. 13.
Collar stud. B. Wood. 1,662,483; Mar. 13.
Collection box. V. G. Matré. 1,662,432; Mar. 13.
Coloring foil. W. G. Golden. 1,662,574; Mar. 13.
Comb: *See*—
Hair-cutting comb.
Comb cleaner. J. Grasser. 1,662,418; Mar. 13.
Combers of the Heilmann type, Dabber for. C. Gegauff. 1,662,308; Mar. 13.
Compass, Beam. E. Lawrenz. 1,662,315; Mar. 13.
Composition of matter. L. Williams. 1,662,625; Mar. 13.
Compressor mechanism. F. D. Holdsworth. 1,662,793; Mar. 13.
Concrete forms, Wire clamp for. R. T. Wales. 1,662,258; Mar. 13.
Concrete, Implement for handling and working. G. R. Sahlstrom. 1,662,170; Mar. 13.
Concrete road finishers, Adjustable widening attachment for. F. Valerio. 1,662,257; Mar. 13.
Concrete supports, Metallic bonding for. W. Walt. 1,662,727; Mar. 13.
Condensation trap. D. S. Garcia. 1,662,185; Mar. 13.
Condenser. J. F. Grace. 1,662,186; Mar. 13.
Condenser. C. E. Lucke. 1,662,153; Mar. 13.
Condenser. C. E. Lucke. 1,662,155; Mar. 13.
Condenser for motor-cooling systems. S. W. Rushmore. 1,662,440; Mar. 13.
Condenser, Variable. G. Lombardi. 1,662,505; Mar. 13.
Condensing apparatus. C. E. Lucke. 1,662,154; Mar. 13.
Connecting device. H. P. Chandler. 1,662,055; Mar. 13.
Container. S. W. Hodges. 1,662,422; Mar. 13.
Container and method of manufacture, Reenforced fibrous. R. E. Hall. 1,662,605; Mar. 13.
Container for separating slotted cards. G. H. Hallett, jr. 1,662,669; Mar. 13.
Container, Display. G. W. Hardee. 1,662,744; Mar. 13.
Container, Paper. A. Moore. 1,662,277; Mar. 13.
Container, Sanitary milk-bottle. J. M. Rood and W. Driver. 1,662,399; Mar. 13.
Containers, Measuring scale for transparent liquid. C. L. Merriman. 1,662,533; Mar. 13.
Continuous press. E. T. Meakin. 1,662,531; Mar. 13.
Control mechanism. A. F. Coates. 1,662,661; Mar. 13.
Control mechanism. M. W. Palmer. 1,662,434; Mar. 13.
Controlling mechanism. E. G. Gartin. 1,662,791; Mar. 13.
Conveyer. C. Hayes. 1,662,575; Mar. 13.
Conveyer-bar construction. H. S. Wells and H. H. Lightle. 1,662,093; Mar. 13.
Cooking and condensating semiliquid foods. F. Mennillo. 1,662,532; Mar. 13.
Cooler: *See*—
Water cooler.
Cooling apparatus, Can. G. G. Frelinghuysen. 1,662,803; Mar. 13.
Corn planter. A. E. Forsyth. 1,662,307; Mar. 13.
Cotton-cleaner screen. W. B. House. 1,662,745; Mar. 13.
Cradle carriage, Automatic reversing self-rocking. H. H. Millard. 1,662,754; Mar. 13.
Crayon and scissors holder, Kindergarten. H. B. Schwartz. 1,662,077; Mar. 13.
Cultivator fender. A. H. Niewald. 1,662,201; Mar. 13.
Culvert, Road. J. M. Morgan. 1,662,714; Mar. 13.
Cup dispenser. E. G. Wessman. 1,662,650; Mar. 13.
Current motor, Alternating. S. G. Nottage. 1,662,508; Mar. 13.
Curtain and drapery hanger. C. E. Abel. 1,662,049; Mar. 13.
Cushion for vehicle seats, Back. S. Switzer. 1,662,216; Mar. 13.
Cutter: *See*—
Leather cutter.
Cutting machine. W. Maier. 1,662,387; Mar. 13.
Cutting machine, Seed-potato-. J. R. Pollan. 1,662,759; Mar. 13.
Cutting single or plied-up stock, Apparatus for. A. O. Abbott, jr. 1,662,596; Mar. 13.
Cylinders of carding machines or loosening fiber therefrom, Roller for cleaning and stripping the. J. Bancroft. 1,662,658; Mar. 13.
Decanter. J. C. Hebden. 1,662,702; Mar. 13.
Desuperheater. F. M. Birks. 1,662,452; Mar. 13.
Detector: *See*—
Multiple-needle detector.
Detector mounted on regularly-moving transferrers, Weft. R. G. Turner. 1,662,219; Mar. 13.
Detector, Multiple-needle. W. H. Wakefield. 1,662,222; Mar. 13.
Die-casting machine. A. Kaufmann. 1,662,750; Mar. 13.
Diffusing and coloring reflected rays of light, Method and apparatus for. P. G. Myers. 1,662,123; Mar. 13.
Diphenylguanidine, Manufacture of. H. S. Adams and L. Meuser. 1,662,626; Mar. 13.
Discharging projectiles by centrifugal force, Apparatus for. B. F. S. Baden-Powell. 1,662,629; Mar. 13.
Dispensing device. E. G. Wessman. 1,662,593; Mar. 13.
Dishwashing machine. J. Barry. 1,662,181; Mar. 13.
Dishwashing machine. E. F. Forsgard. 1,662,496; Mar. 13.
Disk wheel. H. Walters and R. A. Hoerman. 1,662,622; Mar. 13.
Doll. C. E. Batchelor. Des. 74,652; Mar. 13.
Doll head. J. C. White. 1,662,691; Mar. 13.
Door and window grating. A. M. Kuhl. 1,662,117; Mar. 13.
Door catch. M. J. Lewis. 1,662,119; Mar. 13.
Door closer, Screen-. L. C. Morton. 1,662,895; Mar. 13.
Door construction, Wood. E. C. Loetscher. 1,662,151; Mar. 13.
Door, Hopper. A. G. Sendman. 1,662,760; Mar. 13.
Door mechanism, Car-. W. E. Wine. 1,662,651; Mar. 13.
Door, Pier-shed. M. H. Korn. 1,662,709; Mar. 13.
Doors, Push catch for. T. F. Stuart and H. A. Moore. 1,662,255; Mar. 13.
Drainer, Safety. N. E. Sharpneck and E. L. Sharpneck. 1,662,343; Mar. 13.
Dredger pipe line. N. A. Yuille. 1,662,178; Mar. 13.
Drill stem. J. F. Bozeman and J. D. Cole. 1,662,358; Mar. 13.
Drilling apparatus. H. H. Mercer. 1,662,801; Mar. 13.
Drilling mechanism. C. F. Osgood. 1,662,792; Mar. 13.
Drum assembly. L. J. Black. 1,662,410; Mar. 13.
Drying macaroni, spaghetti, and like dough products. M. Abramchik. 1,662,656; Mar. 13.
Drying machine. N. Troyer and M. L. Dodge. 1,662,371; Mar. 13.
Dumping device. C. F. Young and E. M. Ries. 1,662,653; Mar. 13.
Dyeing cellulose esters and ethers. R. S. Horsfall, L. G. Lawrie, and J. Hill. 1,662,514; Mar. 13.
Dyes, Preparation of washable aniline. P. Hartman. 1,662,420; Mar. 13.
Dyestuffs and making same. A. Catineau. 1,662,415; Mar. 13.
Dyestuffs, Increasing the affinity of animal fibers for. E. Stocker. 1,662,404; Mar. 13.

Educational apparatus. P. E. Klopsteg. 1,662,272; Mar. 13.
Elastic webbing. J. Hirsch. 1,662,609; Mar. 13.
Electric-light fixture. G. Ludwig. Des. 74,689; Mar. 13.
Electric regulator. E. R. Morton. 1,662,252; Mar. 13.
Electric regulator. H. M. Stoller and E. R. Morton. 1,662,083–4 Mar. 13.
Electric service system, Automatic. M. C. Cosgray. 1,662,366; Mar. 13.
Electric system. N. H. Holland. Re16,901; Mar. 13.
Electric wall bracket. G. Ludwig. Des. 74,687–8; Mar. 13.
Electrical apparatus for testing motor-vehicle and other mechanical power transmission mechanism. F. W. Highfield. 1,662,705 Mar. 13.
Electrode, Metal-foil. R. H. Wappler. 1,662,446; Mar. 13.
Electrolytic rectifier. W. H. Grimditch and J. N. Hunsberger, jr. 1,662,383; Mar. 13.
Electrolytic rectifier. A. B. Muntyan. 1,662,075; Mar. 13.
Electromagnetic relay. E. H. Seeger. 1,662,174; Mar. 13.
Emblem frame. W. J. Feeley. Des. 74,668; Mar. 13.
Engine: *See*—
Internal-combustion engine.
Paper-pulp and like beating engine.
Engine-cooling means. P. L. Howe. 1,662,269; Mar. 13.
Eraser holder, Adjustable. F. E. Randall. 1,662,474; Mar. 13.
Evaporator and method of operation. C. F. Braun. 1,662,142; Mar. 13.
Expansion joint. A. C. Fischer. 1,662,567; Mar. 13.
Exposure meter. E. Mayer. 1,662,156; Mar. 13.
Extension machine. W. H. Hartman. 1,662,112; Mar. 13.
Eye-testing device. J. C. W. Beall. 1,662,054; Mar. 13.
Farm gate. M. G. and F. L. McCorkel. 1,662,318; Mar. 13.
Fastener, Closure. C. E. Jones and D. A. Whoolery. 1,662,501; Mar. 13.
Fastener for sleeve bands. W. McMeans. 1,662,074; Mar. 13.
Fastener, Separable. J. Draher and A. J. Krieger. 1,662,367; Mar. 13.
Faucet, Swing-spout. E. J. Patelski. 1,662,620; Mar. 13.
Feeders, Protector for poultry. R. T. Parkhurst. 1,662,204; Mar. 13.
Filtering apparatus. J. B. Vernay. 1,662,726; Mar. 13.
Filters, Testing. C. W. McKinley. 1,662,529; Mar. 13.
Fire-extinguishing device, Chemical. J. E. Allen and H. G. Schwoeppe. 1,662,053; Mar. 13.
Fireproof buildings, Construction of. H. Sorensen. 1,662,480; Mar. 13.
Fishing reel. C. E. Stocking. 1,662,347; Mar. 13.
Fixture, Anchorage. W. G. and T. A. Hemsworth. 1,662,059; Mar. 13.
Flag and maintaining same, Signal. D. F. Jones. 1,662,190; Mar. 13.
Flow-regulating apparatus. L. de Florez. Re16,904; Mar. 13.
Fluid-controlling means. C. L. Snow. 1,662,723; Mar. 13.
Fluids, Apparatus for and method of treating. J. P. Ball. 1,662,180; Mar. 13.
Fly swatter. E. L. Henderson. 1,662,264; Mar. 13.
Forceps, Obstetrical. R. D. Roderick. 1,662,169; Mar. 13.
Form for displaying neckwear. S. L. Samter. 1,662,477; Mar. 13.
Formaldehyde solutions, Concentrating. A. Zimmerli. 1,662,179; Mar. 13.
Fracture device. L. G. McCutchen. 1,662,464; Mar. 13.
Fuel-feeding means for charge-forming devices. A. G. Redmond. 1,662,128; Mar. 13.
Fuel system. C. A. Mandolini. 1,662,614; Mar. 13.
Fungicide. H. L. Kleinhans. 1,662,462; Mar. 13.
Funnel. N. Farden. 1,662,147; Mar. 13.
Fur and making the same, Imitation. C. T. Pastor. 1,662,470; Mar. 13.
Furnace. D. Martin. 1,662,583; Mar. 13.
Furnace grate, Sectional. O. J. Jones. 1,662,708; Mar. 13.
Furnace voltage control, Electric-. A. E. Greene. 1,662,149; Mar. 13.
Furniture construction. W. S. Ferris. 1,662,457; Mar. 13.
Fuse. F. W. Bold. 1,662,695; Mar. 13.
Galvanoplasty and the object produced thereby, Incrusting. F. Mans. 1,662,430; Mar. 13.
Game. T. Brady. 1,662,231; Mar. 13.
Game apparatus. G. R. Livingston. 1,662,317; Mar. 13.
Game apparatus. H. M. Nestor. 1,662,102; Mar. 13.
Game appliance. C. A. Nelson. 1,662,278; Mar. 13.
Garden implement. F. Hurka. 1,662,673–4; Mar. 13.
Garden implement, Combined. E. F. Kellig. 1,662,069; Mar. 13.
Gas-producing apparatus. V. D. McDonnell. 1,662,266; Mar. 13.
Gasoline electric power systems, Control of. O. F. Warhus. 1,662,092; Mar. 13.
Gasoline gauge. J. Schwan. 1,662,540; Mar. 13.
Gate: *See*—
Farm gate.
Gauge: *See*—
Gasoline gauge. Weir differential gauge.
Gauging device. R. Krumm. 1,662,066; Mar. 13.
Gauging machine and gauging packing rings. R. B. Wasson. 1,662,648; Mar. 13.
Gear box or universal divisor, Change-speed. G. Veber. 1,662,688; Mar. 13.
Gear, Combined draft and steering. H. L. Hegland. 1,662,671; Mar. 13.
Gear, Flexible. G. M. Eaton. 1,662,493; Mar. 13.
Gear, Friction wheel. W. Lindner. 1,662,681; Mar. 13.
Gear-grinding machine and the like, Controlling movements of work-carrying spindle with respect to a cutting element in. O. G. Simmons. 1,662,589; Mar. 13.
Gearing, Power-transmission. R. W. Rogers. 1,662,130; Mar. 13.
Gear-shifting-lever lock. J. L. Hosford. 1,662,643; Mar. 13.
Gears, Hobbing spur. N. Trbojevich. 1,662,408; Mar. 13.
Glass, Apparatus for and method of feeding molten. K. E. Peller. 1,662,436; Mar. 13.
Glass, Apparatus for feeding molten. K. E. Peller. 1,662,437; Mar. 13.
Glassware, Making decorating. M. L. Burgess. 1,662,295; Mar. 13.
Glass-washing apparatus, Drinking-. R. R. Parry. 1,662,205; Mar. 13.
Goblet. V. V. Loomis. Des. 74,685; Mar. 13.
Golf club. C. F. Mensing. 1,662,712; Mar. 13.
Governor. J. W. Anderson. 1,662,098; Mar. 13.
Governor for elastic-fluid turbines and the like, Emergency. E. D. Dickinson. 1,662,104; Mar. 13.
Grinding and polishing machine, Cutlery. H. Kessel. 1,662,679; Mar. 13.
Grinding fine tooth hobs, Method of and machine for. O. Sverson. 1,662,078; Mar. 13.
Grinding hob and disk cutters, Machine for. O. Severson. 1,662,079; Mar. 13.
Grinding internal surfaces, Method and apparatus for. A. M. Drake. 1,662,241; Mar. 13.
Grid leak, Controllable. A. Press. 1,662,510; Mar. 13.
Grinding machine. A. P. Steiner. 1,662,546; Mar. 13.
Grinding machine, Internal-. A. M. Drake. 1,662,240; Mar 13.
Grinding machines, Sizing device for internal-. A. P. Steiner. 1,662,213; Mar. 13.
Grinding machines, Wheel-truing device for. A. M. Drake. 1,662,242; Mar. 13.
Grinding, Method and apparatus for. W. E. Hoke. 1,662,672; Mar. 13.
Hair-cutting comb. A. M. Widdows. 1,662,373; Mar. 13.
Hair waver. M. J. McGowan. 1,662,319; Mar. 13.
Hair-waving clip. W. G. Shelton. 1,662,285; Mar. 13.
Hair-waving device. N. Privitera. 1,662,330; Mar. 13.
Hair-waving machines, Spindle for permanent-. S. and H. Bonat. 1,662,411; Mar. 13.
Hair winder. W. G. Shelton. 1,662,286; Mar. 13.
Hammers, Automatic nail-clamp attachment for. A. Helfrich. 1,662,703; Mar. 13.
Handhole cover. J. C. Parker. 1,662,279; Mar. 13.
Handle: *See*—
Knife handle. Tool handle.
Handle. B. B. Leustig and J. D. Petsche. 1,662,316; Mar. 13.
Handle. R. H. Morrow. 1,662,715; Mar. 13.
Hanger: *See*—
Curtain and drapery hanger.
Harmonica. F. Strauss. Des. 74,704; Mar. 13.
Harvester thrasher, Combination. W. F. MacGregor. 1,662,431; Mar. 13.
Harvester thrasher. R. D. Browning. 1,662,736; Mar. 13
Headlight. N. D. Levin. 1,662,118; Mar. 13.
Headlight. B. E. Melton. 1,662,322; Mar. 13.
Headlights, Dirigible reflector in. J. V. Cunniff. 1,662,699; Mar. 13.
Headlights, Focusing device for automobile. S. E. Brown. 1,662,360; Mar. 13.
Heat-exchange apparatus. C. F. Braun. 1,662,143; Mar 13
Heat regulator, Oven-. E. L. Claus. 1,662,416; Mar. 13.
Heat treatment of materials for distilling, drying, or carbonizing them. A. M. Duckham, D. Rider, and J. S. Watts. 1,662,663; Mar. 13.
Heater: *See*—
Automobile heater. Universal bottle heater.
Heater. E. H. Keiper. Des. 74,676; Mar. 13.
Heater or cooler. D. R. McNeal. 1,662,615; Mar. 13.
Heel-seat-fitting machine. E. A. Williams. 1,662,259; Mar. 13
High-frequency modulating system. H. C. Silent. 1,662,081; Mar. 13.
Hoisting apparatus. W. Ober and C. F. Eakins. 1,662,324; Mar. 13.
Hoisting slings, Attachment for. L. R. Miller. 1,662,713; Mar. 13.
Holder for nursing bottles or other vessels. M. J. Jaffe and J. Chankin. 1,662,518; Mar. 13.
Holder for trees and the like. J. G. Vuozzo. 1,662,091; Mar. 13.
Holder, Soft-collar. L. E. Baer. 1,662,774; Mar. 13.
Holder, Toilet-paper. W. L. Whitesides. 1,662,140; Mar. 13.
Hollow bodies, Rolling down. G. A. Lingdren. 1,662,680; Mar. 13.
Hook: *See*—
Bracelet end hook.
Horn, Motor. L. Chollet. 1,662,363; Mar. 13.
Hose nipple. H. G. Bruner. 1,662,051; Mar. 13.
Hub liner. J. R. Sexton. 1,662,441; Mar. 13.

Humidity control, Automatic and remote. F. W. and H. E. Rubin. 1,662,283; Mar. 13.
Hydroairplane. M. M. Karger. 1,662,644; Mar. 13.
Igniting apparatus for sintering pans. A. Holmberg. 1,662,513; Mar. 13.
Incubator. J. W. Whitlow. 1,662,139; Mar. 13.
Index, Visible. W. A. Ringler. 1,662,337; Mar. 13.
Indexing device, Card-. D. A. Nevin. 1,662,534; Mar. 13.
Indexing machine, Card-. D. A. Nevin. 1,662,535; Mar. 13.
Indicator: *See*—
Stock-level indicator.
Indicator. N. C. McConahy. 1,662,463; Mar. 13.
Indophenols, Making. R. W. Hess and O. D. Cunningham. 1,662,062; Mar. 13.
Inductance apparatus. B. J. Simmons. 1,662,132; Mar. 13.
Iron: *See*—
Soldering iron.
Insole. L. Q. White. 1,662,624; Mar. 13.
Internal-combustion engine. R. L. Dennison. 1,662,740; Mar. 13.
Internal-combustion engine. H. L. A. Dorner. 1,662,106; Mar. 13.
Internal-combustion engine. B. L. Edds. 1,662,379; Mar. 13.
Internal-combustion engine. H. Thormeyer. 1,662,590; Mar. 13.
Internal-combustion engine. H. G. Vorhauer. 1,662,090; Mar. 13.
Internal-combustion engine. A. P. M. Wilking. 1,662,553; Mar. 13.
Internal-combustion engine, Two-cycle. A. O. Andersen. 1,662,097; Mar. 13.
Iron, Rolling stay-bolt. G. H. Mansfield. 1,662,506; Mar. 13.
Ironing boards, Article-supporting attachment for. F. M. Johnson. 1,662,748; Mar. 13.
Jack: *See*—
Pumping jack.
Jacks, Check-valve unit for hydraulic. J. G. Dybens. Re16,900; Mar. 13.
Jetty. H. F. Kellner. 1,662,578; Mar. 13.
Joint: *See*—
Expansion joint. Rail joint.
Pipe joint.
Joint for metallic frames, Interlocking. W. Wait. 1,662,728–9; Mar. 13.
Joint for metallic frames, Interlocking. W. Wait. 1,662,766–9; Mar. 13.
Kaleidoscope. C. B. N. Hanson. 1,662,743; Mar. 13.
Key, Sectional. R. C. Laynor. 1,622,613; Mar. 13.
Kiln, Dry. F. M. Creighton and W. E. Gray. 1,662,807; Mar. 13.
Knife handle. A. H. Swank. 1,662,405; Mar. 13.
Knitted fabric. M. D. Brown. Des. 74,658; Mar. 13.
Knitting machine. A. A. Adler and H. Albertman. 1,662,627; Mar. 13.
Knockdown table. R. D. Moncrieff. 1,662,121; Mar. 13.
Lamp, Floor. O. B. Bach. Des. 74,650; Mar. 13.
Lamp, Safety. E. J. Quinn, C. E. Sprake, and H. J. Gritman. 1,662,333; Mar. 13.
Lamp suspension. J. Foell. 1,662,568; Mar. 13.
Lamp, Table. O. B. Bach. Des. 74,649; Mar. 13.
Lapping machine. K. E. Summers. 1,662,137; Mar. 13.
Lasting machine. A. F. Pym. 1,662,254; Mar. 13.
Latch control, Reversible. T. P. Archer and F. M. Edgar. 1,662,485; Mar. 13.
Latch, Refrigerator. W. Zubow. 1,662,449; Mar. 13.
Latch, Vehicle door. C. G. Anderson. 1,662,450; Mar. 13.
Lathe. S. E. Boynton. 1,662,561; Mar. 13.
Lathes and support therefor, Cutter head for last-turning. J. E. Coville. 1,662,375; Mar. 13.
Lathes, Back-turning attachment for. N. King. 1,662,192; Mar. 13.
Laundry washing machine. W. P. Large. 1,662,784; Mar. 13.
Leaf collector. C. C. Myrick. 1,662,160; Mar. 13.
Leather cutter. H. Pepin. 1,662,398; Mar. 13.
Lens-grinding machine. A. E. Maynard. 1,662,157; Mar. 13.
Level indicator, Stock-. P. D. Wright. 1,662,484; Mar. 13.
Lever, Automatic lock hand. A. La Rochelle. 1,662,751; Mar. 13.
Lever, Dobby. J. Northrop. 1,662,202; Mar. 13.
Light fixture, Electric-. G. Ludwig. Des. 74,686; Mar. 13.
Light fixture, Street-. F. B. Rebeeg. 1,662,334; Mar. 13.
Light support. J. N. Gossett. 1,662,668; Mar. 13.
Lighting fixture. N. F. Stevens. 1,662,136; Mar. 13.
Lighting-fixture arm or article of similar nature. H. Aglow. Des. 74,643; Mar. 13.
Lighting-fixture backplate or analogous article. H. Aglow. Des. 74,645; Mar. 13.
Lighting-fixture backplate or article of similar nature. J. F. Livers. Des. 74,684; Mar. 13.
Lighting-fixture banding or article of similar nature. J. F. Livers. Des. 74,681; Mar. 13.
Lighting-fixture brace or article of similar nature. H. Aglow. Des. 74,642; Mar. 13.
Lighting-fixture brace or article of similar nature. H. Aglow. Des. 74,644; Mar. 13.
Lighting-fixture ring or article of similar nature. J. F. Livers. Des. 74,682; Mar. 13.
Lighting fixtures or articles of similar nature, Plate for. J. F. Livers. Des. 74,683; Mar. 13.
Lighting structure, Ornamental. J. S. Brennan. 1,662,359; Mar. 13.
Lime into lime putty, Apparatus for slaking. D. A. Evans. 1,662,776; Mar. 13.
Liquid dispenser, Unit-measuring. R. E. Risser. 1,662,338; Mar. 13.
Liquid-fuel feed. E. Bossi. 1,662,101; Mar. 13.
Liquid gun. C. F. Lefever. 1,662,067; Mar. 13.
Liquid-treating apparatus. H. Berquist. 1,662,630; Mar. 13.
Loader and conveyer, Stock. W. A. McQuay. 1,662,755; Mar. 13.
Lock: *See*—
Gear-shifting-lever lock. Tire lock.
Lock. W. E. Bartmess. 1,662,694; Mar. 13.
Lock. S. F. Briggs. 1,662,487; Mar. 13.
Lock for automobile doors. N. W. Cummins. 1,662,662; Mar. 13.
Lock for elevator doors. J. A. Schweig. 1,662,342; Mar. 13.
Lock switch. E. M. Soreng. 1,662,344; Mar. 13.
Locking device. E. N. Jacobi. 1,662,423; Mar. 13.
Locking mechanism for filling-tube caps. R. E. Ward. 1,662,482; Mar. 13.
Locking mechanism for lockers. F. Albach. 1,662,773; Mar. 13.
Locks, Cushioning casing for. J. Junkunc. 1,662,612; Mar. 13.
Locomotive rod mechanism. W. E. Woodward. 1,662,595; Mar 13.
Loom, Weft-replenishing. J. T. Malloy. 1,662,198; Mar. 13.
Looms, Filling-feeler mechanism for. J. Northrop. 1,662,393; Mar. 13.
Looms, Thread cutter for weft-replenishing. A. J. Chevrette. 1,662,235; Mar. 13.
Looms, Tube frame for Axminster. J. G. Soderberg, G. D. Lockwood, and W. W. Robertson. 1,662,212; Mar. 13.
Looms, Tube frame for tufted-pile-fabric. E. F. Clark. 1,662,563; Mar. 13.
Looms, Weft stop mechanism for. E. Guilbert, jr. 1,662,499; Mar. 13.
Loud speaker. J. A. Glassman. 1,662,742; Mar. 13.
Loud speaker. L. Steinberger. Des. 74,703; Mar. 13.
Lubricating compressor, High-pressure. L. G. Trinquart. 1,662,370; Mar. 13.
Machine and process for removing excess molten material. H. W. Pleister. 1,662,537; Mar. 13.
Machine, Bag-closing. T. Aliatt. Re16,897; Mar. 13.
Machine for assembling spoked wheels. W. N. Booth. 1,662,412; Mar. 13.
Machine for making mandrels. C. E. Lowe. 1,662,428; Mar. 13.
Machine for setting glaziers' points. W. S. Mower. 1,662,276; Mar. 13.
Machine for shaping uppers over lasts. A. F. Pym. 1,662,253; Mar. 13.
Machine for tempering saw blades, plane knives, and similar tools. P. and K. Hustadt. 1,662,516; Mar. 13.
Machine for twist drills, Grinding. C. Kobis. 1,662,521; Mar. 13.
Machine, High-speed-gear-generating. E. R. Fellows. 1,662,109; Mar. 13.
Machine, Shoe-brushing. C. H. Gill and T. H. Thomson. 1,662,498; Mar. 13.
Machines, Hook bar for footing. N. Judson. 1,662,678; Mar. 13.
Marine propulsion. T. C. Coykendall. 1,662,301; Mar. 13.
Marking and cutting device. S. Punt. 1,662,165; Mar. 13.
Measure, Swing-spout. S. E. Allen and O. N. Wiswell. 1,662,050; Mar. 13.
Measurements of the calorific value of combustion fluids, Apparatus particularly applicable to. H. N. Packard. 1,662,802; Mar. 13.
Measuring apparatus. A. T. Light. 1,662,523; Mar. 13.
Measuring device, Batch-. A. T. Light. 1,662,525; Mar. 13.
Measuring instrument. A. L. Harter. 1,662,670; Mar. 13.
Measuring machine. A. Kingsbury. 1,662,425; Mar. 13.
Medicine dropper or syringe. J. U. Lloyd. 1,662,682; Mar. 13.
Metal, Fitting for sheet. J. Ironside. 1,662,068; Mar. 13.
Metal railroad tie. E. G. Teichart. 1,662,685; Mar. 13.
Metallic antimony, Purifying. C. A. Rose and C. L. Read. 1,662,439; Mar. 13.
Meter: *See*—
Exposure meter.
Milk and cream cooler and aerator. O. O. Newhouse. 1,662,390; Mar. 13.
Milk-can cover and forming the same. C. A. Comp. 1,662,184; Mar. 13.
Mill: *See*—
Pug mill. Rolling mill.
Milling machine, Circular-. H. C. Rose. Re16,903; Mar. 13.
Mine skips, lifts, and the like, Safety device for. J. Adsero. 1,662,692; Mar. 13.
Mining apparatus. M. P. Holmes. 1,662,787; Mar. 13.
Mining apparatus. E. B. Robinson. 1,662,719; Mar. 13.
Mining machine. K. Davis. 1,662,455; Mar. 13.

Mining machine. M. P. Holmes. 1,662,786; Mar. 13.
Mining machine. M. P. Holmes. 1,662,788–9; Mar. 13.
Mining machine. M. P. Holmes. 1,662,794–5; Mar. 13.
Mining machine. C. F. Osgood. 1,662,796–9; Mar. 13.
Mining machine. G. Rimmer. 1,662,800; Mar. 13.
Mirror, Nonglare. G. F. and W. H. Colbert. 1,662,565; Mar. 13.
Mirrors, Making. G. F. and W. H. Colbert. 1,662,564; Mar. 13.
Mixing machine, Worm-drive. P. A. Koehring. 1,662,274; Mar. 13.
Molding device. V. E. Schmiedeknecht. 1,662,340; Mar. 13.
Molds, Treating rubber. J. D. Comstock. 1,662,365; Mar. 13.
Molten glass, Apparatus for producing. C. B. Kingsley. 1,662,116; Mar. 13.
Mop, Dust. A. C. Kootz. 1,662,426; Mar. 13.
Mop holder. F. C. Hoffman. 1,662,777; Mar. 13.
Mortar box. E. E. Perritt. 1,662,280; Mar. 13.
Mosquitoes and other insects, Sanitary device for repelling. C. P. Coogle. 1,662,738; Mar. 13.
Motor: *See*—
Current motor. Internal-combustion motor
Motor cycle. G. L. Regard. 1,662,718; Mar. 13.
Motor fuel. T. Midgley, jr. 1,662,323; Mar. 13.
Motor, Internal-combustion. A. S. Baldwin and E. E. Richmond. 1,662,597; Mar. 13.
Motors, Controller for electric. C. T. Evans. 1,662,243; Mar. 13.
Motors, Speed regulation for polyphase induction. K. von Kando. 1,662,549; Mar. 13.
Mower comb attachment, Lawn-. J. Robertson. 1,662,785; Mar. 13.
Neck yoke. C. C. Carter. 1,662,737; Mar. 13.
Necklace. D. Sweeney. Des. 74,705; Mar. 13.
Necktie press. H. D. Brandt. 1,662,562; Mar. 13.
Needle, Knitting-machine. R. W. Scott. 1,662,281; Mar. 13.
Nozzle for ladles. J. L. Cox and R. Furness. 1,662,600; Mar. 13.
Oil, Process and apparatus for distilling. H. L. Doherty. 1,662,105; Mar. 13.
Oil-burner equipment. L. Tabor and J. Tait. 1,662,783; Mar. 13.
Oil, Reclaiming process for used crank-case. W. H. Ellerington. 1,662,701; Mar. 13.
Oiling appliance for thread or yarn. H. F. Stuhr. 1,662,086; Mar. 13.
Opener of the nipper type having an adjusting head, Can. A. C. Schaefer. 1,662,172; Mar. 13.
Optical instrument. J. C. Sabel. 1,662,339; Mar. 13.
Optical system. M. Astafiev. 1,662,693; Mar. 13.
Ornamenting textiles. L. Neethling. 1,662,161; Mar. 13.
Oven, Baker's. B. Izzo. 1,662,747; Mar. 13.
Oxidation of alkyl-aryl-substituted dipthiocarbamic acids to the corresponding disulphides. W. Flemming. 1,662,664; Mar. 13.
Package. V. W. Thomson. 1,662,763; Mar. 13.
Packing case. C. K. Blum. 1,662,100; Mar. 13.
Pad roll and spindle therefor, Gelatin. W. E. Williams. 1,662,448; Mar. 13.
Padding for seat backs. J. R. Millar. 1,662,388–9; Mar. 13.
Paints, enamels, japans, and the like. D. Gardner. 1,662,741; Mar. 13.
Panel, Instrument. E. R. Evans. Des. 74,667; Mar. 13.
Paper box. A. H. Crankshaw. 1,663,491; Mar. 13.
Paper making. C. N. Merrill. 1,662,200; Mar. 13.
Paper-making machine. G. S. Witham, jr. 1,662,226; Mar. 13.
Paper package. U. S. Silbar. 1,662,080; Mar. 13.
Paper-pulp and like beating engine. S. Milne. 1,662,466; Mar. 13.
Paper rollers, Cutting and measuring device for. W. Cohen. 1,662,364; Mar. 13.
Paper, Safety. W. R. Orndorff. 1,662,509; Mar. 13.
Paper sheets locally transparent, Rendering. O. Poeppel. 1,662,717; Mar. 13.
Paper, Sizing. T. Hans. 1,662,641; Mar. 13.
Pattern-making device, Confectioner's. C. March. 1,662,710; Mar. 13.
Pedestal for display stands or similar articles. J. Sobel. Des. 74,701; Mar. 13.
Phosphorus material. H. W. Charlton. 1,662,489; Mar. 13.
Photographic transfer. E. jr. and W. Blum. 1,662,632; Mar. 13.
Picture frame. E. H. Boese. Des. 74,654; Mar. 13.
Picture-machine casing. W. Rabkin. Des. 74,698; Mar 13.
Pipe joint. R. Hildebrand. 1,662,607; Mar. 13.
Pipe-jointing element. W. C. Ferguson. 1,662,603; Mar. 13.
Pipe lines carrying fluids, Process of and apparatus for locating obstructions in. A. Lowy. 1,662,429; Mar. 13.
Piston. C. B. Toney, jr. 1,662,725; Mar. 13.
Piston ring. D. M. Solenberger. 1,662,544; Mar. 13.
Pitman connection. J. C. Kahle. 1,662,502; Mar. 13.
Plate or similar article. F. G. Holmes. Des. 74,672; Mar. 13
Pliers. C. P. Fay. 1,662,108; Mar. 13.
Plow. P. Candreva. 1,662,636; Mar. 13.
Poison bottles, Safety harness for. E. J. Palmer. 1,662,409; Mar. 13.
Power-transmitting mechanism. W. Geist. 1,662,511; Mar. 13.
Press: *See*—
Continuous press. Necktie press.
Preserving rice polish. J. H. Sasseen. 1,662,401; Mar. 13.
Presses, Feeding device for shaping. S. F. Tojek. 1,662,218; Mar. 13.
Pressing machine, Clothes-. H. H. Callan. 1,662,696; Mar. 13.
Printing and addressing machine. J. H. Lawson. 1,662,194; Mar. 13.
Printing and casting mechanism. F. A. Dolph. 1,662,145; Mar. 13.
Printing apparatus. W. B. Payne. Re16,899; Mar. 13.
Printing cylinders. Blanket holder for. F. B. Shea. 1,662,284; Mar. 13.
Printing machine. W. H. Waldron and L. B. Case. 1,662,689; Mar. 13.
Printing machines, Side-register device for. J. Shuttleworth. 1,662,588; Mar. 13.
Printing-plate-holding means. C. M. Bremner. 1,662,232; Mar. 13.
Propelling system and method. C. M. Paxton. 1,662,206; Mar. 13.
Pug mill. M. Madsen. 1,662,120; Mar. 13.
Pulley, Expanding. G. J. Abbott. 1,662,654; Mar. 13.
Pump. M. Sanchez. 1,662,720; Mar. 13.
Pump, Centrifugal. J. B. Sperry. 1,662,443; Mar. 13.
Pump, Deep-well. B. G. Primrose. 1,662,127; Mar. 13.
Pumping jack. D. H. Thomas and E. A. Schambs. 1,662,087; Mar. 13.
Pumps, Casing for impeller-type water. I. C. Jennings. 1,662,249; Mar. 13.
Pumps, Method and apparatus relating to motor-driven. I. C. Jennings. 1,662,250; Mar. 13.
Radiator, Automobile. H. Jaffe. 1,662,064; Mar. 13.
Radiator-cap ornament. E. Borden and A. Martell. Des. 74,656; Mar. 13.
Radiator core. J. D. Harris. 1,662,187; Mar. 13.
Radiator cover. J. Ledwinka. Des. 74,679; Mar. 13.
Radiator stand. E. L. Hessel. 1,662,265; Mar. 13.
Radiator, Steam and hot-water. E. Coupland. 1,662,236; Mar. 13.
Radiators, Thermostatically-controlled damper mechanism for. E. W. Senholm. 1,662,541; Mar. 13.
Radio signaling set, Duplex. R. K. Potter. 1,662,126; Mar. 13.
Raft, Seagoing log. J. P. Porter. 1,662,683; Mar. 13.
Rail joint. G. Chagnon. 1,662,234; Mar. 13.
Railway signaling device. L. Hanford. 1,662,419; Mar. 13.
Railway skate-operating apparatus. G. F. Murphy. 1,662,468; Mar. 13.
Railway tie. R. W. Schultz. 1,662,402; Mar. 13.
Ranges, Safety jet guard for gas. L. Garretson. 1,662,640; Mar. 13.
Reed or comb, Textile. H. Titmas. 1,662,591; Mar. 13.
Reel: *See*—
Fishing reel.
Reflector. P. S. Bailey. Des. 74,651; Mar. 13.
Reflector, Myriad. L. B. Woeste. 1,662,554; Mar. 13.
Refrigerating apparatus. F. E. Williams. 1,662,353; Mar. 13.
Refrigerating system with automatic control. F. R. Zumbro. 1,662,558; Mar. 13.
Refrigeration system. G. Hilger. 1,662,806; Mar. 13.
Refrigerator. F. T. Rodgers. 1,662,587; Mar. 13
Regulating system. E. C. Manderfeld. 1,662,071; Mar. 13.
Regulating system. H. M. Stoller. 1,662,085; Mar. 13.
Regulator: *See*—
Electric regulator. Window regulator.
Oven-heat regulator.
Regulator system. J. H. Ashbaugh. 1,662,559; Mar. 13.
Relay and circuits therefor. J. Herman. 1,662,060; Mar. 13.
Relay, Rotary. C. F. Jenkins. 1,662,677; Mar. 13.
Resistance unit. G. H. Whittingham. 1,662,771; Mar. 13.
Rigging for concrete railway cars, Draft. A. C. Griewank. 1,662,110; Mar. 13.
Ring: *See*—
Piston ring.
Rings, Apparatus for the enlarging of. F. Blois. 1,662,631; Mar. 13.
Road binder. M. F. Coughlin. 1,662,299; Mar. 13.
Rocking structural brace. S. Macomber. 1,662,197; Mar. 13.
Rolling mill. J. D. Pugh. 1,662,331–2; Mar. 13.
Roofing strips, Process and apparatus for manufacturing prepared. H. Abraham. 1,662,655; Mar. 13.
Root eradicator. G. T. Minshall. 1,662,467; Mar. 13.
Ruling machines, Adjustable guide for. E. J. Harper. 1,662,384; Mar. 13.
Sand-reel structure. R. R. Bloss, Roy C. Pfeil, and E. B. Maurer. 1,662,775; Mar. 13.
Sash mounting, Window-. H. Pallada. 1,662,619; Mar. 13.
Saw blades, plane knives, and similar tools, Tempering. P. and K. Hustadt. 1,662,517; Mar. 13.
Saw guard. A. D. Ward. 1,662,372; Mar. 13.
Saw, Stone. O. Burkhardt. 1,662,488; Mar. 13.

Sawing device, Slug-. G. L. Curle. 1,662,638; Mar. 13.
Scale. W. F. Stimpson and W. E. Finch. 1,662,403; Mar. 13.
Scales, Coin-slot closure for. G. F. Hochriem. 1,662,642; Mar. 13.
Scraper bowls, Extension for. J. and W. H. Adams. 1,662,732; Mar. 13.
Screen: *See*—
Spray screen.
Sealing packages, Apparatus for. H. Schwarz. 1,662,341; Mar. 13.
Seat: *See*—
Wagon-end-gate seat.
Seat. C. A. Duke. 1,662,378; Mar. 13.
Separator: *See*—
Centrifugal separator.
Shade, Lamp. J. Chitra. 1,662,762; Mar. 13.
Shade mounting. C. H. Tilton. 1,662,217; Mar. 13.
Shawl. E. Holenstein. Des. 74,671; Mar. 13.
Shear. H. C. Ralston. 1,662,473; Mar. 13.
Shears. C. H. Wilkes and G. E. Calhoun. 1,662,772; Mar. 13.
Sheave block, Safety. W. H. McKissick. 1,662,320; Mar. 13.
Sheet-delivery device. W. H. Smith. 1,662,647; Mar. 13.
Sheets, Feeding. S. E. and A. P. Diescher. 1,662,492; Mar. 13.
Shelf, Portable writing. W. C. Bennett. 1,662,293; Mar. 13.
Shingle strip. J. R. Fife. Des. 74,669; Mar. 13.
Shock absorber. E. Helmus. 1,662,188; Mar. 13.
Shock absorber. H. F. Werner and C. E. Faber. 1,662,223; Mar. 13.
Shock absorber for walking beams. W. Werner. 1,662,224; Mar. 13.
Shoe. F. M. Bohr. Des. 74,655; Mar. 13.
Shoe-blacking stand. T. C. Whitehead. 1,662,288; Mar. 13.
Shoes, Supplemental outsole for. B. Montante. 1,662,756; Mar. 13.
Sifter, Ash. J. F. Hargadon. 1,662,606; Mar. 13.
Sign. H. Dickinson. Des. 74,665; Mar. 13.
Sign, Advertising. W. G. Browne and R. W. Olmsted. Des. 74,659–61; Mar. 13.
Sign and traffic signal, Changeable. G. W. Stricker. 1,662,348; Mar. 13.
Sign, Display. W. Herrschaft. 1,662,704; Mar. 13.
Sign, Outdoor. W. C. James. 1,662,676; Mar. 13.
Signal: *See*—
Traffic signal.
Signal-light casing. V. Scatena. Des. 74,699; Mar. 13.
Signaling device. M. A. Maynard. 1,662,711; Mar. 13.
Silk, Apparatus for the manufacture of artificial. F. W. Schubert. 1,662,478; Mar. 13.
Skeining apparatus. C. S. Thompson. 1,662,686; Mar. 13.
Skirt marker. O. V. Tolbert. 1,662,407; Mar. 13.
Slicing machine. E. M. Stiles. 1,662,214–5; Mar. 13.
Slotting metal plates. E. A. Johnson. 1,662,115; Mar. 13.
Smoker's stand. J. W. Savery. 1,662,171; Mar. 13.
Smoking device. O. E. Tate, sr. 1,662,762; Mar. 13.
Socket terminal, Spring. L. Reichold. 1,662,335; Mar. 13.
Socket wrench set. C. E. Wakefield. 1,662,409; Mar. 13.
Sofa. L. Braus. Des. 74,657; Mar. 13.
Soldering iron. H. J. Baker. 1,662,734; Mar. 13.
Sound-amplifier casing. J. S. Bach. Des. 74,646; Mar. 13.
Sound-reproducing means. G. W. Smith, jr. 1,662,135; Mar. 13.
Spark plug. C. M. Tansill. 1,662,724; Mar. 13.
Speedometer drive. F. N. Nutt. 1,662,536; Mar. 13.
Speedometer drive on propeller shaft. J. Zubaty. 1,662,557; Mar. 13.
Speedometer, Electric. H. J. Murray. 1,662,433; Mar. 13.
Spindles, Bobbin clutching means for rotatable. J. A. Miller. 1,662,780–1; Mar. 13.
Spinning and twisting machine, Thread. F. C. Werber. 1,662,649; Mar. 13.
Splint, Femur. J. H. Nicholson and W. D. Cavin. 1,662,758; Mar. 13.
Spool or bobbin. H. J. Davis. 1,662,238; Mar. 13.
Spoon or similar article. T. B. Lashar. Des. 74,678; Mar. 13.
Sport ball. W. W. MacDonald. 1,662,527; Mar. 13.
Spray screen. E. Spelta. 1,662,545; Mar. 13.
Spring wheel. J. D. Short. 1,662,542; Mar. 13.
Sprinkler systems, Accelerator for dry pipe. E. Tyden. 1,662,256; Mar. 13.
Stair-riser protector. E. Hyman. 1,662,611; Mar. 13.
Stand: *See*—
Candy menu stand. Shoe-blacking stand.
Radiator stand. Smoker's stand.
Stand. A. B. Montgomery. Des. 74,693; Mar. 13.
Stapling mechanism. E. P. Sheldon. 1,662,442; Mar. 13.
Steam ejector with cooled diffuser. A. Delas. 1,662,260; Mar. 13.
Steam fitting, Double-wall Venturi. J. O. Woodsome. 1,662,095; Mar. 13.
Steel and alloys from iron sand, Manufacture of. D. Croese. 1,662,302; Mar. 13.
Steering device. J. O. Bolt. 1,662,560; Mar. 13.
Stocking. R. Leß. Des. 74,680; Mar. 13.
Stokers, Ash-discharge mechanism for mechanical. F. H. Daniels. 1,662,237; Mar. 13.
Stokers, Safety device for. M. Alpern. 1,662,657; Mar. 13.
Stokers, Sifting dump for. A. E. Weingartner. 1,662,690; Mar. 13.
Stopper. F. S. Hyatt. 1,662,189; Mar. 13.
Storage battery. G. K. Thompson. 1,662,349; Mar. 13.
Stove, Electrical. H. Frank. 1,662,805; Mar. 13.
Sublimation. C. Field. 1,662,056; Mar. 13.
Sublimation apparatus. C. A. Lyford. 1,661,070; Mar. 13.
Sulphur fungicides and insecticides. C. D. Vreeland. 1,662,550; Mar. 13.
Sulphydrates, Making alkali-metal. H. P. Bassett. 1,662,735; Mar. 13.
Superheater, Electric. E. Howe. 1,662,746; Mar. 13.
Supporting frame for screens, Foldable. H. Newman. 1,662,586; Mar. 13.
Surgical instrument. W. N. Allyn. 1,662,227; Mar. 13.
Sweater. J. Zimmerman. 1,662,731; Mar. 13.
Switch: *See*—
Lock switch. Time switch.
Switch box. J. L. Lane. 1,662,275; Mar. 13.
Switch-heating apparatus. M. J. Griffith. 1,662,368; Mar. 13.
Switching apparatus and system. J. L. Reynolds. 1,662,168; Mar. 13.
T square. N. O. Cochran. 1,662,490; Mar. 13.
Table: *See*—
Auto table. Knockdown table.
Collapsible table.
Table top, Decorative. F. Sohn and L. G. Marmiou. Des. 74,702; Mar. 13.
Tables, Extension-leaf construction for. D. G. Anderson. 1,662,228; Mar. 13.
Talking machine. C. Moccia. 1,662,584; Mar. 13.
Tamping machine. C. S. Emert. 1,662,380; Mar. 13.
Tank: *See*—
Vacuum tank.
Tanks and regulators, Antifreezing connection for. J. Harris. 1,662,263; Mar. 13.
Tanks, Floating deck for liquid storage. J. H. Wiggins. 1,662,225; Mar. 13.
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Thread-tensioning device. A. L. Remington. 1,662,209; Mar. 13.
Tie: *See*—
Metal railroad tie. Railway tie.
Tie holder. W. A. Ormsbee. Des. 74,697; Mar. 13.
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Tire rim. R. McNamara. 1,662,321; Mar. 13.
Tires, Detector for flat. T. M. Eynon. 1,662,381; Mar. 13.
Toaster, Electric. E. B. Zimmer. 1,662,652; Mar. 13.
Tool, Combination. R. Klaboe. 1,662,461; Mar. 13.
Tool, Finishing. F. A. E. Marsh. 1,662,251; Mar. 13.
Tool, Golf-club gauge and truing. W. H. McGee. 1,662,465; Mar. 13.
Tool, Grinding. W. V. Houck. 1,662,385; Mar. 13.
Tool handle. M. Hokanson. 1,662,610; Mar. 13.
Tool-handle fastening C. Henneck. 1,662,500; Mar. 13.
Tool, Multiple. J. J. Judge. 1,662,424; Mar. 13.
Tool support. W. Logg. 1,622,152; Mar. 13.
Tool, Valve-reseating. J. W. Troha. 1,662,445; Mar. 13.
Torch. J. J. Salm. 1,662,210; Mar. 13.
Torch, Cutting and welding. A. F. Jenkins. 1,662,519–20; Mar. 13.
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Transmission, Controller for variable-speed. H. C. Clay. 1,662,660; Mar. 13.
Transmission mechanism. F. Dohle. 1,662,566; Mar. 13.
Transmission, Variable-speed. R. H. Pratt. 1,662,164; Mar. 13.
Trap: *See*—
Animal trap. Condensation trap.
Trap. S. S. Sadosky. 1,662,476; Mar. 13.
Trestle. F. P. Dyer. 1,662,700; Mar. 13.
Triarylguanidines, Preparation of. A. E. Parmelee. 1,662,397; Mar. 13.
Trolley-wheel carrier. C. W. Brown. 1,662,233; Mar. 13.
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Valve, Homogenizing. C. Jorgensen. 1,662,749; Mar. 13.
Valve, Modulating. W. W. Birnstock. 1,662,659; Mar. 13.
Valve-operating mechanism. E. T. Smith. 1,662,133–4; Mar. 13.
Valve, Orifice. C. G. Woodmansee. 1,662,374; Mar. 13.
Valve, Whistle and safety. C. W. Hill. 1,662,706; Mar. 13.
Vanity case. W. G. Kendall. 1,662,065; Mar. 13.
Vehicle and walker, Combination. R. C. Bender. 1,662,292; Mar. 13.
Vehicle brake, Fluid-pressure-operated. V. I. Zelov. 1,662,096; Mar. 13.
Vehicle construction, Automotive. J. M. Goldberg. 1,662,246; Mar. 13.
Vehicle stay block. C. L. Michod. 1,662,159; Mar. 13.
Vehicle, Transporting. J. L. Delphini. 1,662,376; Mar. 13.
Vehicle wheel, Metallic. J. R. Welch. 1,662,551; Mar. 13.
Vehicles, Controller for electric. A. M. Leoni and A. HJ. Asprooth. 1,662,386; Mar. 13.
Vehicles, Locking device for motor. O. A. Anderson. 1,662,099; Mar. 13.
Vehicles, Route indicator for propelled. R. M. Weeks. 1,662,352; Mar. 13.
Vehicles, Supplemental spring snubbing suspension for. F. L. O. Wadsworth. 1,662,351; Mar. 13.
Vehicles, Traction device for motor. C. O. Norberg. 1,662,392; Mar. 13.
Vending machine. E. W. Peterson. 1,662,329; Mar. 13.
Vending machine. H. H. Pulver. 1,662,472; Mar. 13.
Vending machines, Coin-controlled mechanism for. L. A. Vandiver. 1,662,221; Mar. 13.
Veneer-cutting-machine attachment. J. F. Hyland. 1,662,314; Mar. 13.
Vibration-indicating means. J. P. Ball. 1,662,356; Mar. 13.
Voltage regulator, Automatic. F. A. Tegler. 1,662,444; Mar. 13.
Vulcanizing, Method of and apparatus for. C. Dressler. 1,662,804; Mar. 13.
Waffle irons, Temperature-indicating device for. L. W. Reichold. 1,662,621; Mar. 13.
Wagon-end-gate seat. M. Elson. 1,662,494; Mar. 13.
Wall construction. E. D. Covell. 1,662,300; Mar. 13.
Washing machine. I. M. Tull. 1,662,176; Mar. 13.
Water, Apparatus for cooling. K. Dünkelberg. 1,662,602; Mar. 13.
Water cooler. W. C. Horner. 1,662,267; Mar. 13.
Water meter. M. Y. Fieldhouse. 1,662,382; Mar. 13.
Waterproofing insertion member. C. H. Weitz. 1,662,287; Mar. 13.
Wave reception and emission, Method and arrangement of directional. W. Hahnemann, H. Hecht, and B. Nielsen. 1,662,247; Mar. 13.
Weighing device, Batch-. A. T. Light. 1,662,524; Mar. 13.
Weir differential gauge. C. C. Jacob. 1,662,248; Mar. 13.
Welding system, Arc. J. Kjekstad. 1,662,368; Mar. 13.
Well-capping device. L. S. Hamer. 1,662,311; Mar. 13.
Well packer. C. H. Reynolds. 1,662,336; Mar. 13.
Welting for boots and shoes. W. J. Fallon, jr. 1,662,495; Mar. 13.
Wheel: *See*—
Disk wheel. Tractor wheel.
Metallic vehicle wheel. Two-part wheel.
Spring wheel.
Wheel-hub-assembling device. W. R. Smith and R. F. Wieneke. 1,662,543; Mar. 13.
Wick device for cigar and other lighters. S. A. Margraft. 1,662,058; Mar. 13.
Window, Demountable. H. Smith. 1,662,082; Mar. 13.
Window grating. O. M. Rexinger. 1,662,167; Mar. 13.
Window, Metal. P. M. Boeck. 1,662,453; Mar. 13.
Window regulator. S. W. Nicholson. 1,662,391; Mar. 13.
Window, Safety. A. Weiss. 1,662,623; Mar. 13.
Windows and the like, Opening of closing sliding. H. Smith. 1,662,722; Mar. 13.
Windshield cleaner. F. G. and W. M. Folberth. 1,662,244; Mar. 13.
Windshield cleaner. J. X. Phillips, jr. 1,662,207; Mar. 13.
Windshield cleaners, Wiping element for. R. G. Arey. 1,663,290; Mar. 13.
Wire fastening, Fence-. V. S. McDonough. 1,662,753; Mar. 13.
Wire stretcher. C. A. Alderson. 1,662,733; Mar. 13.
Wireless signaling. C. S. Franklin and P. P. Eckersley. 1,662,459; Mar. 13.
Wood-wind instrument. A. Loomis. 1,662,195; Mar. 13.
Wood-wind instruments, Octave-key mechanism for. A. Loomis. 1,662,196; Mar. 13.
Workbench. J. Mill. 1,662,608; Mar. 13.
Wrench. D. M. Bright. 1,662,413; Mar. 13.
Wringer mechanism. H. W. Mitchell. 1,662,616; Mar. 13.
Wringers, Reversible mechanism for operating washing-machine. D. M. Wenger. 1,662,552; Mar. 13.
X-ray screen for taking skiagrams. R. Manul. 1,662,528; Mar. 13.

Sawing device, Slug-. G. L. Curle. 1,662,638; Mar. 13.
Scale. W. F. Stimpson and W. E. Finch. 1,662,403; Mar. 13.
Scales, Coin-slot closure for. G. F. Hochriem. 1,662,642; Mar. 13.
Scraper bowls, Extension for. J. and W. H. Adams. 1,662,732; Mar. 13.
Screen: *See*—
Spray screen.
Sealing packages, Apparatus for. H. Schwarz. 1,662,341; Mar. 13.
Seat: *See*—.
Wagon-end-gate seat.
Seat. C. A. Duke. 1,662,378; Mar. 13.
Separator: *See*—
Centrifugal separator.
Shade, Lamp. J. Chitra. 1,662,362; Mar. 13.
Shade mounting. C. H. Tilton. 1,662,217; Mar. 13.
Shawl. E. Holenstein. Des. 74,671; Mar. 13.
Shear. H. C. Ralston. 1,662,473; Mar. 13.
Shears. C. H. Wilkes and G. E. Calhoun. 1,662,772; Mar. 13.
Sheave block, Safety. W. H. McKissick. 1,662,320; Mar. 13.
Sheet-delivery device. W. H. Smith. 1,662,647; Mar. 13.
Sheets, Feeding. S. E. and A. P. Diescher. 1,662,492; Mar. 13.
Shelf, Portable writing. W. C. Bennett. 1,662,293; Mar. 13.
Shingle strip. J. R. Fife. Des. 74,669; Mar. 13.
Shock absorber. E. Helmus. 1,662,188; Mar. 13.
Shock absorber. H. F. Werner and C. E. Faber. 1,662,223; Mar. 13.
Shock absorber for walking beams. W. Werner. 1,662,224; Mar. 13.
Shoe. F. M. Bohr. Des. 74,655; Mar. 13.
Shoe-blacking stand. T. C. Whitehead. 1,662,288; Mar. 13.
Shoes, Supplemental outsole for. B. Montante. 1,662,756; Mar. 13.
Sifter, Ash. J. F. Hargadon. 1,662,606; Mar. 13.
Sign. H. Dickinson. Des. 74,665; Mar. 13.
Sign, Advertising. W. G. Browne and R. W. Olmsted. Des. 74,659–61; Mar. 13.
Sign and traffic signal, Changeable. G. W. Stricker. 1,662,348; Mar. 13.
Sign, Display. W. Herrschaft. 1,662,704; Mar. 13.
Sign, Outdoor. W. C. James. 1,662,676; Mar. 13.
Signal: *See*—
Traffic signal.
Signal-light casing. V. Scatena. Des. 74,699; Mar. 13.
Signaling device. M. A. Maynard. 1,662,711; Mar. 13.
Silk, Apparatus for the manufacture of artificial. F. W. Schubert. 1,662,478; Mar. 13.
Skeining apparatus. C. S. Thompson. 1,662,686; Mar. 13.
Skirt marker. O. V. Tolbert. 1,662,407; Mar. 13.
Slicing machine. E. M. Stiles. 1,662,214–5; Mar. 13.
Slotting metal plates. E. A. Johnson. 1,662,115; Mar. 13.
Smoker's stand. J. W. Savery. 1,662,171; Mar. 13.
Smoking device. O. E. Tate, sr. 1,662,762; Mar. 13.
Socket terminal, Spring. L. Reichold. 1,662,335; Mar. 13.
Socket wrench set. C. E. Wakefield. 1,662,409; Mar. 13.
Sofa. L. Braus. Des. 74,657; Mar. 13.
Soldering iron. H. J. Baker. 1,662,734; Mar. 13.
Sound-amplifier casing. J. S. Bach. Des. 74,646; Mar. 13.
Sound-reproducing means. G. W. Smith, jr. 1,662,135; Mar. 13.
Spark plug. C. M. Tansill. 1,662,724; Mar. 13.
Speedometer drive. F. N. Nutt. 1,662,536; Mar. 13.
Speedometer drive on propeller shaft. J. Zubaty. 1,662,557; Mar. 13.
Speedometer, Electric. H. J. Murray. 1,662,433; Mar. 13.
Spindles, Bobbin clutching means for rotatable. J. A. Miller. 1,662,780–1; Mar. 13.
Spinning and twisting machine, Thread. F. C. Werber. 1,662,649; Mar. 13.
Splint, Femur. J. H. Nicholson and W. D. Cavin. 1,662,758; Mar. 13.
Spool or bobbin. H. J. Davis. 1,662,238; Mar. 13.
Spoon or similar article. T. B. Lashar. Des. 74,678; Mar. 13.
Sport ball. W. W. MacDonald. 1,662,527; Mar. 13.
Spray screen. E. Spelta. 1,662,745; Mar. 13.
Spring wheel. J. D. Short. 1,662,542; Mar. 13.
Sprinkler systems, Accelerator for dry pipe. E. Tyden. 1,662,256; Mar. 13.
Stair-riser protector. E. Hyman. 1,662,611; Mar. 13.
Stand: *See*—
Candy menu stand.
Radiator stand.
Shoe-blacking stand.
Smoker's stand.
Stand. A. B. Montgomery. Des. 74,693; Mar. 13.
Stapling mechanism. E. P. Sheldon. 1,662,442; Mar. 13.
Steam ejector with cooled diffuser. A. Delas. 1,662,260; Mar. 13.
Steam fitting, Double-wall Venturi. J. O. Woodsome. 1,662,095; Mar. 13.
Steel and alloys from iron sand, Manufacture of. D. Croese. 1,662,302; Mar. 13.
Steering device. J. O. Bolt. 1,662,560; Mar. 13.
Stocking. R. Leß. Des. 74,680; Mar. 13.
Stokers, Ash-discharge mechanism for mechanical. F. H. Daniels. 1,662,237; Mar. 13.
Stokers, Safety device for. M. Alpern. 1,662,657; Mar. 13.
Stokers, Sifting dump for. A. E. Weingartner. 1,662,690; Mar. 13.
Stopper. F. S. Hyatt. 1,662,189; Mar. 13.
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Valve, Homogenizing. C. Jorgensen. 1,662,749; Mar. 13.
Valve, Modulating. W. W. Birnstock. 1,662,659; Mar. 13.
Valve-operating mechanism. E. T. Smith. 1,662,133–4;
Valve, Orifice. C. G. Woodmansee. 1,662,374; Mar. 13.
Valve, Whistle and safety. C. W. Hill. 1,662,706; Mar. 13.
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Vehicle and walker, Combination. R. C. Bender. 1,662,292; Mar. 13.
Vehicle brake, Fluid-pressure-operated. V. I. Zelov. 1,662,096; Mar. 13.
Vehicle construction, Automotive. J. M. Goldberg. 1,662,246; Mar. 13.
Vehicle stay block. C. L. Michod. 1,662,159; Mar. 13.
Vehicle, Transporting. J. L. Delphini. 1,662,376; Mar. 13.
Vehicle wheel, Metallic. J. R. Welch. 1,662,551; Mar. 13.
Vehicles, Controller for electric. A. M. Leoni and A. HJ. Asprooth. 1,662,386; Mar. 13.
Vehicles, Locking device for motor. O. A. Anderson. 1,662,090; Mar. 13.
Vehicles, Route indicator for propelled. R. M. Weeks. 1,662,352; Mar. 13.
Vehicles, Supplemental spring snubbing suspension for. F. L. O. Wadsworth. 1,662,351; Mar. 13.
Vehicles, Traction device for motor. C. O. Norberg. 1,662,392; Mar. 13.
Vending machine. E. W. Peterson. 1,662,329; Mar. 13.
Vending machine. H. H. Pulver. 1,662,472; Mar. 13.
Vending machines, Coin-controlled mechanism for. L. A. Vandiver. 1,662,221; Mar. 13.
Veneer-cutting-machine attachment. J. F. Hyland. 1,662,314; Mar. 13.
Vibration-indicating means. J. P. Ball. 1,662,356; Mar. 13.
Voltage regulator, Automatic. F. A. Tegler. 1,662,444; Mar. 13.
Vulcanizing, Method of and apparatus for. C. Dressler. 1,662,804; Mar. 13.
Waffle irons, Temperature-indicating device for. L. W. Reichold. 1,662,621; Mar. 13.
Wagon-end-gate seat. M. Elson. 1,662,494; Mar. 13.
Wall construction. E. D. Covell. 1,662,300; Mar. 13.
Washing machine. I. M. Tull. 1,662,176; Mar. 13.
Water, Apparatus for cooling. K. Dünkelberg. 1,662,602; Mar. 13.
Water cooler. W. C. Horner. 1,662,267; Mar. 13.
Water meter. M. Y. Fieldhouse. 1,662,382; Mar. 13.
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Weir differential gauge. C. C. Jacob. 1,662,248; Mar. 13.
Welding system, Arc. J. Kjekstad. 1,662,368; Mar. 13.
Well-capping device. L. S. Hamer. 1,662,311; Mar. 13.
Well packer. C. H. Reynolds. 1,662,336; Mar. 13.
Welting for boots and shoes. W. J. Fallon, jr. 1,662,495; Mar. 13.
Wheel: *See*—
Disk wheel.
Metallic vehicle wheel.
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Two-part wheel.
Wheel-hub-assembling device. W. R. Smith and R. F. Wieneke. 1,662,543; Mar. 13.
Wick device for cigar and other lighters. S. A. Margraft. 1,662,058; Mar. 13.
Window, Demountable. H. Smith. 1,662,082; Mar. 13.
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Window, Metal. P. M. Boeck. 1,662,453; Mar. 13.
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Windshield cleaners, Wiping element for. R. G. Arey. 1,663,290; Mar. 13.
Wire fastening, Fence-. V. S. McDonough. 1,662,753; Mar. 13.
Wire stretcher. C. A. Alderson. 1,662,733; Mar. 13.
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Wood-wind instrument. A. Loomis. 1,662,195; Mar. 13.
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Workbench. J. Mill. 1,662,608; Mar. 13.
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Wringer mechanism. H. W. Mitchell. 1,662,616; Mar. 13.
Wringers, Reversible mechanism for operating washing-machine. D. M. Wenger. 1,662,552; Mar. 13.
X-ray screen for taking skiagrams. R. Manul. 1,662,528; Mar. 13.

CLASSIFICATION OF PATENTS

ISSUED MARCH 13, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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262— 18: 1,662,790
28: 1,662,719
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262— 30: 1,662,795
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263— 15: 1,662,124
264— 17: 1,662,104
265— 69: 1,662,403
266— 1. 5: 1,662,149
5: 1,662,516
21: 1,662,513
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268— 18: 1,662,648
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271— 1: 1,662,218
27: 1,662,492
49: 1,662,384
59: 1,662,588
273— 65: 1,662,527
80: 1,662,712
86: 1,662,162
88: 1,662,231
89: 1,662,317
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277— 59: 1,662,620
278— 119: 1,662,737
279— 5: 1,662,571
280— 33. 2: 1,662,376
33. 55: 1,662,560
47: 1,662,292
49: 1,662,730
50: 1,662,089
103: 1,662,671
106. 5: 1,662,515
157: 1,662,545
285— 80: 1,662,051
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290— 30: 1,662,366

292— 127: 1,662,119
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1,662,485
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335: 1,662,449
293— 55: 1,662,309
294— 57: 1,662,610
74: 1,662,713
296— 45: 1,662,082
52: 1,662,494
84: 1,662,246
298— 10: 1,662,653
299— 24: 1,662,738
301— 6: 1,662,581
11: 1,662,551
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63: 1,662,622
302— 14: 1,662,178
304— 5: 1,662,700
33: 1,662,667
306— 4: 1,662,069
28: 1,662,500
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308— 68: 1,662,502
72: 1,662,479
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226: 1,662,328
236: 1,662,601
312— 35: 1,662,230
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1,662,650
69: 1,662,329

March 20, 1928.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A Jap Pipe Corp., New York, N. Y. Pipes. 240,174; Mar. 20; Serial No. 257,549; published Jan. 10, 1928. Class 8.

A/S Einar Hausvik & Co., Bergen, Norway. Canned sardines. 240,193; Mar. 20; Serial No. 248,740; published Jan. 10, 1928. Class 46.

Abel, Stanley, doing business as Highway Maintenance Publishing Co., Taft, Calif. Magazines. 240,035; Mar. 20; Serial No. 256,852; published Dec. 13, 1927. Class 38.

Aberfoyle Mfg. Co., Chester, Pa. Synthetic fabric in the nature of artificial silk. 240,066; Mar. 20; Serial No. 258,445; published Jan. 10, 1928. Class 42.

Acheson Harden Co., The, New York, N. Y. Handkerchiefs. 240,183; Mar. 20; Serial No. 251,312; published Aug. 23, 1927. Class 42.

Acheson Oildag Company, Port Huron, Mich. Lubricants containing graphite. 240,027; Mar. 20; Serial No. 255,890; published Jan. 3, 1928. Class 15.

Acme Brick Company, Fort Worth, Tex. Brick. 240,311; Mar. 20. Class 12.

Acme Brick Company, Fort Worth, Tex. Brick. 240,313; Mar. 20. Class 12.

Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Internal remedy for urinary diseases. 67,963; renewed Mar. 3 1928.

Addison, Janice T., St. Petersburg, Fla. Women's and misses' wearing apparel. 240,255; Mar. 20; Serial No. 243,077; published Jan. 10, 1928. Class 39.

Addressograph Company, Chicago, Ill. Printing machines. 70,013; renewed July 21, 1928.

Afco Products Co., The, New Haven, Conn. Preparation for cleaning automobile radiators and motors. 240,169; Mar. 20; Serial No. 257,265; published Jan. 10, 1928. Class 6.

Aktiebolaget Lux, Lilla Essingen, near Stockholm, Sweden. Electrically-operated fans, pumps, vacuum cleaners, etc. 240,160; Mar. 20; Serial No. 193,080; published Jan. 10, 1928. Class 21.

Amedee Fortier, Waterville, Me. Remedies. 68,610; renewed Apr. 21, 1928.

American Beauty Macaroni Co. (See Kansas City Macaroni & Importing Co.)

American Hard Rubber Company, Hempstead and New York, N. Y. Jars, cells, covers, vents, etc., for storage batteries. 240,025; Mar. 20; Serial No. 256,237; published Jan. 10, 1928. Class 21.

American-La France Fire Engine Co., assignor, by mesne assignments, to American-La France & Foamite Corporation, Elmira, N. Y. Chemical fire-extinguishing apparatus. 69,796; renewed July 7, 1928.

American Sheet and Tin Plate Company, Pittsburgh, Pa. Certain metal plates and sheets. 68,758; renewed Apr. 28, 1928.

Amerone Products Company, Wilmar, Calif. Imitation-almond paste. 240,304; Mar. 20; Serial No. 257,270; published Jan. 10, 1928. Class 46.

Anchor Malt Products Company. (See Kaplan, Nathan.)

Aronberg & Pfeffer, Ashland and Paducah, Ky., and Hagerstown, Md. Suits, topcoats, and overcoats, etc. 240,050; Mar. 20; Serial No. 255,623; published Jan. 3, 1928. Class 39.

Asher, J. W., Co., El Centro, Calif. Cantaloupes and melons. 240,157; Mar. 20; Serial No. 233,349; published Mar. 22, 1927. Class 46.

Associated Chemists, Inc., New York, N. Y. Antispasmodic hypnotic sedative. 240,121; Mar. 20; Serial No. 257,499; published Jan. 10, 1928. Class 6.

Associated Chemists, Inc., New York, N. Y. Deodorants and germicides. 240,194; Mar. 20; Serial No. 257,501; published Jan. 10, 1928. Class 6.

Associated Chemists, Inc., Brooklyn and New York, N. Y. Liquid tonic. 240,195; Mar. 20; Serial No. 257,502; published Jan. 10, 1928. Class 6.

Atlantic Canning Co., Atlantic, Ohio. Canned vegetables. 240,151; Mar. 20; Serial No. 238,693; published Jan. 4, 1927. Class 46.

Atlantis, Inc. (See Vlasto, Demetrius, J., assignor.)

Atmore & Son, Inc., Philadelphia, Pa. Mincemeat. 240,300; Mar. 20; Serial No. 256,991; published Jan. 10, 1928. Class 46.

Aughinbaugh Caramel Company, The, assignor to Honey Dew Butter Scotch Company, Indianapolis, Ind. Candy. 67,560; renewed Feb. 11, 1928.

Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Certain chemicals. 67,964; renewed Mar. 3, 1928.

Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Dyestuffs, including indigo and indigo preparations, etc. 67,965; renewed Mar. 3, 1928.

Bahlsen, Hermann, assignor, by mesne assignments, to H. Bahlsen's Keks-Fabrik Akt.-Ges., Hanover, Germany. Biscuits. 31,171; renewed Jan. 25, 1928.

Baker, Geo. H., New Haven, Conn., assignor to Yarnall Paint Company, Philadelphia, Pa. Enamel. 69,436; renewed June 16, 1928.

Baltimore Chewing Gum Co. (See Goetze, William A.)

Barber, George G., New York, N. Y. Bread and cake. 240,292; Mar. 20; Serial No. 256,761; published Jan. 10, 1928. Class 46.

Barclay & Barclay, assignor to Barclay & Co., New York, N. Y. Soap. 69,175; renewed May 26, 1928.

Barclay & Barclay, assignor to Barclay & Co., New York, N. Y. Medicated preparation for the hair, scalp, and skin. 69,380; renewed June 9, 1928.

Barclay & Barclay, assignor to Barclay & Co., New York, N. Y. Pills. 69,488; renewed June 16, 1928.

Barclay & Barclay, assignor to Barclay & Co., New York, N. Y. Toilet preparations and medicines. 69,798; renewed July 7, 1928.

Barkley, H. Smith, doing business as Bayne Laboratories, San Francisco, Calif. Muscle oil. 240,037; Mar. 20; Serial No. 256,898; published Jan. 10, 1928. Class 6.

Barlow & Seelig Mfg. Co., Ripon, Wis. Laundry washing machines. 240,047; Mar. 20; Serial No. 254,990; published Jan. 10, 1928. Class 24.

Barnes & Hille, assignor to A. C. Barnes Company, Philadelphia, Pa. Antiseptics. 69,328; renewed June 9, 1928.

Barnes & Hille, assignor to A. C. Barnes Company, Philadelphia, Pa. Tonics. 69,377; renewed June 9, 1928.

Baronet Mills, Inc., New York and College Point, N. Y. Powder puffs. 240,107; Mar. 20; Serial No. 257,656; published Jan. 10, 1928. Class 29.

Barre, Gratia. (See Lacoste, Gratia B.)

Bayne Laboratories. (See Barkley, H. Smith.)

Bearium Bearings, Inc., Buffalo, N. Y. Lead and alloys used for bearing and packing metals, etc. 240,220; Mar. 20; Serial No. 242,810; published Jan. 10, 1928. Class 14.

Beir, Arthur, & Co., Inc., New York, N. Y. Rayon and cotton piece goods. 240,090; Mar. 20; Serial No. 257,651; published Jan. 10, 1928. Class 42.

Beir, Arthur, & Co., Inc., New York, N. Y. Cotton piece goods. 240,091; Mar. 20; Serial No. 257,650; published Jan. 10, 1928. Class 42.

Beir, Arthur, & Co., Inc., New York, N. Y. Cotton, silk, silk and cotton mixed, rayon, etc. piece goods. 240,146–8; Mar. 20; Serial Nos. 239,559–61; published Jan. 10, 1928. Class 42.

Belber Trunk & Bag Company, The, Philadelphia, Pa. Hand bags for carrying cases. 240,245; Mar. 20; Serial No. 222,494; published Jan. 10, 1928. Class 3.

Bendel, Henri, Inc., New York, N. Y. Perfumes and hygienic products. 240,057–9; Mar. 20; Serial Nos. 258,451–3; published Jan. 10, 1928. Class 6.

Bender, Arthur H., doing business as A. Bender Malt Co., Cincinnati, Ohio. Malt sirup. 240,079; Mar. 20; Serial No. 256,093; published Jan. 3, 1928. Class 46.

Bendix Brake Company, Chicago, Ill. Brake lining. 240,253; Mar. 20; Serial No. 242,077; published Jan. 17, 1928. Class 35.

Benner, C. O., Cigar Co., Trumbauersville, Pa. Cigars. 240,303; Mar. 20; Serial No. 257,218; published Jan. 17, 1928. Class 17.

Best, M. O., Fruit Company, Phoenix, Ariz. Fresh grapes, apples, lettuce, etc. 240,310; Mar. 20. Class 46.

Best Malt Products Company, Chicago, Ill. Malt syrup. 240,080; Mar. 20; Serial No. 256,996; published Jan. 3, 1928. Class 46.

Best Malt Products Company, Chicago, Ill. Malt syrup. 240,273; Mar. 20; Serial No. 255,480; published Jan. 10, 1928. Class 46.

Best Malt Products Company, Chicago, Ill. Malt syrup. 240,301; Mar. 20; Serial No. 256,995; published Jan. 10, 1928. Class 46.

Bing Werke, vorm. Gebrüder Bing A. G., Nuremberg, Germany. Phonographs, talking machines, and sound plates and boxes. 240,030; Mar. 20; Serial No. 255,159; published Jan. 3, 1928. Class 36.

Bisodol Co. Inc., New York, N. Y. Medicinal preparation used as an antacid digestant. 240,086; Mar. 20; Serial No. 257,838; published Jan. 10, 1928. Class 6.

Blackburn, Robert H., doing business as Blackburn Oil Co., Spartanburg, S. C. Lubricating oils and greases. 240,100; Mar. 20; Serial No. 257,781; published Jan. 10, 1928. Class 15.

Black Duck Products, Inc., Whittier, Calif. Radiator stop leak. 240,074; Mar. 20; Serial No. 256,901; published Jan. 10, 1928. Class 6.

Blapke-Baer Extract & Preserving Company, St. Louis, Mo. Olives, pickles, salad dressing, and mayonnaise. 240,295; Mar. 20; Serial No. 256,806; published Jan. 10, 1928. Class 46.

Blau, M. Martin, doing business as Martin Laboratories, Cleveland, Ohio. Hair restorer. 240,127; Mar. 20; Serial No. 257,220; published Jan. 10, 1928. Class 6.

Bliss, Wm. B., Jr. & Co. Inc., Boston, Mass. Shoe binding. 240,288; Mar. 20; Serial No. 256,656; published Jan. 10, 1928. Class 40.
Blumenthal, Ella, New York, N. Y. Caps and bonnets. 240,297; Mar. 20; Serial No. 256,002; published Jan. 10, 1928. Class 39.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 240,184; Mar. 20; Serial No. 251,114; published Jan. 10, 1928. Class 42.
Bockar & Rotkowitz. (See Bokschizky and Rotkowitz, assignor.)
Bodie-Hoover Petroleum Corporation, Chicago, Ill. Lubricating oils. 240,320; Mar. 20. Class 15.
Bokschizky and Rotkowitz, assignor to Bockar & Rotkowitz, New York, N. Y. Medicines and toilet preparations. 68,238; renewed Mar. 17, 1928.
Boston Candies and Luncheonette, Inc., doing business as Goody Shop, New York, N. Y. Chocolates. 240,286; Mar. 20; Serial No. 256,560; published Jan. 17, 1928. Class 46.
Bottrell, Henry T., doing business as Bottrell Chemical Company, New York, N. Y. Rodent repellants and insecticides. 240,082; Mar. 20; Serial No. 257,963; published Jan. 10, 1928. Class 6.
Bourjois, Inc. (See Wertheimer, E., & Cie., assignor.)
Boyd Manufacturing Company, The, Birmingham, Ala. Astringents, beauty creams, rouges, etc. 240,185; Mar. 20; Serial No. 251,047; published Jan. 10, 1928. Class 6.
Brach, E. J., & Sons, doing business as Harriet Clark Candies, Chicago, Ill. Candy. 240,188; Mar. 20; Serial No. 250,367; published Jan. 10, 1928. Class 46.
Brackmann, August, Bad Lippspringe, Germany. Preparations for inhaling. 240,046; Mar. 20; Serial No. 254,540; published Jan. 10, 1928. Class 6.
Brauer Bros. Shoe Company, St. Louis, Mo. Shoes. 240,284; Mar. 20; Serial No. 256,511; published Jan. 10, 1928. Class 39.
Brockett, William F., doing business as Brockett Remedy Co., Dodge City, Kans. Compound for treating hay fever. 240,056; Mar. 20; Serial No. 258,456; published Jan. 10, 1928. Class 6.
Brown, J. Key, Greenville, N. C. Headache, neuralgia, and nervous-affections remedy. 240,164; Mar. 20; Serial No. 257,221; published Jan. 10, 1928. Class 6.
Bruette, Wm. A., doing business as Dent Laboratory, New York, N. Y. Nutritive tonic and tissue builder. 240,094; Mar. 20; Serial No. 257,523; published Jan. 10, 1928. Class 6.
Bruette, Wm. A., doing business as Dent Laboratory, New York, N. Y. Antiseptic and germicide. 240,095; Mar. 20; Serial No. 257,522; published Jan. 10, 1928. Class 6.
Budreau, Joseph L., doing business as J. L. Budreau & Co., Savannah, Ga. Fresh vegetables. 240,150; Mar. 20; Serial No. 238,770; published Jan. 25, 1927. Class 46.
Buffalo Meter Company, Buffalo, N. Y. Liquid strainers. 240,325; Mar. 20. Class 13.
Buffalo Toy and Tool Works. (See Labin, Frank.)
Butler Manufacturing Company, Kansas City, Mo. Washers, tumblers, etc., for dry-cleaning apparatus, etc. 240,329; Mar. 20. Class 24.
Cabin Creek Consolidated Coal Company, Charleston, W. Va., to Cabin Creek Consolidated Coal Company, Cincinnati, Ohio. Coal. 70,046; renewed July 28, 1928.
Cable Supply Company, Inc., New York, N. Y. Vacuum tubes. 240,020; Mar. 20; Serial No. 256,764; published Jan. 10, 1928. Class 21.
Cactus Mfg. Co. (See Evans, Chauncey J.)
California Co-Operative Producers, Oakland, Calif. Canned fruits, vegetables, and dried fruit. 240,132; Mar. 20; Serial No. 256,907; published Jan. 10, 1928. Class 46.
California Co-Operative Producers, Oakland, Calif. Canned fruits. 240,133; Mar. 20; Serial No. 256,906; published Jan. 10, 1928. Class 46.
Caminetti, Anthony, Jr., San Francisco, Calif. Reflecting electric lamps for vehicles. 240,178; Mar. 20; Serial No. 252,146; published Jan. 10, 1928. Class 21.
Campbell's Creek Coal Co., The, Cincinnati, Ohio. Coal. 70,045; renewed July 28, 1928.
Canvas Proofing & Stripping Company, Chicago, Ill. Waterproofing liquid for textiles. 240,055; Mar. 20; Serial No. 258,460; published Jan. 10, 1928. Class 6.
Celanese Corporation of America, New York, N. Y. Paints, aeroplane and aircraft dopes, varnishes, etc. 240,109; Mar. 20; Serial No. 255,962; published Jan. 10, 1928. Class 16.
Champion Hardware Company, The, Geneva, Ohio. Barn-door catches, chain bolts, foot bolts, sash fasteners, locks, etc. 240,159; Mar. 20; Serial No. 205,392; published Mar. 1, 1927. Class 25.
Charleston Metallic Packing Co., Charleston, S. C., assignor to General Asbestos & Rubber Company, Charleston, S. C. Rod and piston packing. 69,196; renewed May 26, 1928.
Chase Companies, Inc., Waterbury, Conn. Flash lights. 240,014; Mar. 20; Serial No. 256,716; published Jan. 10, 1928. Class 21.
Chemical Foundation, Incorporated, The. (See Actien-Gesellschaft für Anilin-Fabrikation, assignor.)
Chemical Foundation, Incorporated, The. (See Badische Anilin & Soda Fabrik, assignor.)
Chemical Foundation, Incorporated, The. (See Chemische Werke Hansa Gesellschaft mit beschränkter Haftung, assignor.)
Chemical Foundation, Incorporated, The. (See Kaysan, Heinrich A.)
Chemical Foundation, Incorporated, The. (See Merck, E., assignor.)
Chemical Foundation, Incorporated, The. (See Vereinigte Ultramarinfabriken Aktien-Gesellschaft vormals Leverkus, Zeltner & Consorten, assignor.)
Chemical Lime Company, Bellefonte, Pa. Hydrated lime. 240,254; Mar. 20; Serial No. 242,984; published Jan. 17, 1928. Class 10.
Chemische Werke Hansa Gesellschaft mit beschränkter Haftung, Hemelingen, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Soap. 68,043; renewed Mar. 3, 1928.
Chemische Werke Hansa Gesellschaft mit beschränkter Haftung, Hemelingen, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Lubricating oils and lubricants. 68,059; renewed Mar. 3, 1928.
Cheramy, Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 240,112; Mar. 20; Serial No. 255,838; published Jan. 10, 1928. Class 6.
Chicago Automatic Electric Boiler Company, Chicago, Ill. Boilers. 240,023; Mar. 20; Serial No. 256,450; published Jan. 10, 1928. Class 21.
Chipman's Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y., successor. Hosiery. 59,430–31; renewed Jan. 8, 1927.
Chipman's, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y., successor. Hosiery. 60,012; renewed Jan. 22, 1927.
Chipman's, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y., successor. Hosiery. 61,376; renewed Mar. 19, 1927.
Chipman's, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y., successor. Hosiery. 64,131; renewed July 23, 1927.
Claflin Flour Mills, The. (See Colorado Milling & Elevator Co.)
Clark, Harriet, Candies. (See Brach, E. J., & Sons.)
Clements Mfg. Co., Chicago, Ill. Electric vacuum cleaners and portable electric blowers. 240,189; Mar. 20; Serial No. 250,295; published Jan. 10, 1928. Class 21.
Colorado Milling & Elevator Co., doing business as The Claflin Flour Mills, Denver, Colo., and Claflin, Kans. Wheat flour. 240,723; Mar. 20; Serial No. 257,618; published Jan. 17, 1928. Class 46.
Compania General de Tabacos de Filipinas, New York, N. Y. Cigars. 240,270; Mar. 20; Serial No. 255,332; published Jan. 17, 1928. Class 17.
Consolidated Millinery Company, Chicago, Ill. Ladies' and misses' hats. 240,165; Mar. 20; Serial No. 257,224; published Jan. 3, 1928. Class 39.
Cook & Cokefair, New York, N. Y. Lubricating oils and lubricating greases. 68,302; renewed Mar. 24, 1928.
Covel-Hanchett Co. (See Wilmarth & Morman Co., assignor.)
Craddock-Terry Company, Lynchburg, Va. Shoes. 240,048; Mar. 20; Serial No. 255,233; published Jan. 3, 1928. Class 39.
Crenshaw, Ida, Sacramento, Calif. Medicine. 240,141; Mar. 20; Serial No. 241,329; published Jan. 10, 1928. Class 6.
Crosley Radio Corporation, The, Cincinnati, Ohio. Radio receiving sets and parts thereof. 240,019; Mar. 20; Serial No. 256,812; published Jan. 10, 1928. Class 21.
Cuban-American Syrup Company, The, Little Rock, Ark. Table sirup. 240,039; Mar. 20; Serial No. 256,610; published Jan. 3, 1928. Class 46.
Cushion Spring Rubber Company, St. Louis, Mo. Rubber heels for boots and shoes. 240,052; Mar. 20; Serial No. 256,176; published Jan. 3, 1928. Class 39.
Dady, Charles B., Los Angeles, Calif. Therapeutic devices. 240,142; Mar. 20; Serial No. 240,488; published Jan. 10, 1928. Class 44.
Dallett Company, The, Philadelphia, Pa. Stencil composition. 240,309; Mar. 20. Class 50.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Pastes and powders for beautifying and preserving the teeth, skin, etc. 240,071; Mar. 20; Serial No. 258,167; published Jan. 10, 1928. Class 6.
Dawley & Shepard. (See New England Biscuit Co., assignor.)
Decker, Alfred, & Cohn, Inc., Chicago, Ill. Clothing. 240,287; Mar. 20; Serial No. 256,651; published Jan. 10, 1928. Class 39.
Delettrez of France, Inc., New York, N. Y. Combs, barrettes, hairpins, etc. 240,263; Mar. 20; Serial No. 248,880; published Jan. 10, 1928. Class 40.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hairpins. 69,404; renewed June 9, 1928.
Dent Laboratory. (See Bruette, Wm. A.)
Diana Manufacturing Company, Green Bay, Wis. Sanitary napkins. 240,187; Mar. 20; Serial No. 256,454; published Jan. 3, 1928. Class 44.
Diana Radio Tube Corp., New York, N. Y. Radio vacuum tubes. 240,021; Mar. 20; Serial No. 256,615; published Jan. 10, 1928. Class 21.
Dis-Solvs-It. (See Hughes, Raleigh E.)

Dodge Manufacturing Corporation, Mishawaka, Ind., and Oneida, N. Y. Power-transmission machinery, mill machinery, etc. 240,257; Mar. 20; Serial No. 245,191; published Jan. 17, 1928. Class 23.
Dorsey, Ray D., doing business as R. D. Dorsey, Binghamton, N. Y. Meats. 240,191; Mar. 20; Serial No. 249,708; published Jan. 10, 1928. Class 46.
Doubleday Page & Co., Garden City, N. Y. Magazine. 240,120; Mar. 20; Serial No. 257,972; published Jan. 3, 1928. Class 38.
Dowsley, Evelyn G., Lethbridge, Alberta, Canada. Medicinal tablets. 240,176; Mar. 20; Serial No. 252,242; published Jan. 10, 1928. Class 6.
Duluth-Superior Milling Company, Duluth, Minn., and New York, N. Y. Wheat flour. 69,358; renewed June 9, 1928.
Dyer, Frederick, Company. (See Magic Foot Draft Co.)
Dyer, Richard W., doing business as Dyer & Davis, Newfield, N. J. Canned squab-meat paste. 240,128; Mar. 20; Serial No. 257,404; published Jan. 10, 1928. Class 46.
Eastman Kodak Company, Rochester, N. Y. Chemical solutions, compounds, and preparations. 68,515; renewed Apr. 14, 1928.
Eastman Kodak Company, Rochester, N. Y. Photographic instruments and supplies. 68,635; renewed Apr. 21, 1928.
Edington Gasoline & Refining Company, Los Angeles, Calif. Petroleum products. 240,322; Mar. 20. Class 15.
Edwards, Dwight Company, Portland, Oreg. Coffee. 240,222; Mar. 20; Serial No. 241,401; published Apr. 5, 1927. Class 46.
Elco Paint Products, Inc., New York, N. Y. Penetrating stains, primers, cement coating, etc. 240,139; Mar. 20; Serial No. 256,285; published Jan. 3, 1928. Class 16.
Enterprise Manufacturing Company, The, Akron, Ohio. Reel oil. 240,145; Mar. 20; Serial No. 239,616; published Jan. 10, 1928. Class 15.
Enterprise Manufacturing Company, Akron, Ohio. Fishing reels. 240,196; Mar. 20; Serial No. 257,621; published Jan. 3, 1928. Class 22.
Equity Hosiery Mills, New York, N. Y. Work and dress shirts, undershirts, underwear, etc. 240,207; Mar. 20; Serial No. 248,291; published Jan. 3, 1928. Class 39.
Evans, Chauncey J., doing business as Cactus Mfg. Co., Los Angeles, Calif. Tire patches and tire boots made of rubber and fabric. 240,246; Mar. 20; Serial No. 234,507; published Jan. 17, 1928. Class 35.
F B O. Productions, Inc., New York, N. Y. Motion-picture films. 240,276; Mar. 20; Serial No. 255,706; published Jan. 17, 1928. Class 26.
Fear, Fred, & Co., New York, N. Y. Canned baked beans with pork, preserved fruits, etc. 240,293; Mar. 20; Serial No. 256,770; published Jan. 10, 1928. Class 46.
Fels, Walter T., South Ozone Park, N. Y. Artificial stone. 240,119; Mar. 20; Serial No. 253,496; published Dec. 6, 1927. Class 12.
Ferris, William W., Providence, R. I. Optical lenses. 240,279; Mar. 20; Serial No. 256,037; published Jan. 17, 1928. Class 26.
Fishman, Hyman, doing business as H. Fishman Paper Co., New York, N. Y. Wrapping paper, wax paper, and toilet paper. 240,256; Mar. 20; Serial No. 245,088; published May 10, 1927. Class 37.
Fiske Brothers Refining Co., New York, N. Y. Lubricating oil. 69,883; renewed July 14, 1928.
Flat Rock Canning Co., The, Flat Rock, Ind. Canned pumpkin. 240,318; Mar. 20. Class 46.
Florida Mustard & Spice Co. Inc., Tampa, Fla. Prepared mustard. 240,264; Mar. 20; Serial No. 254,903; published Jan. 10, 1928. Class 46.
Forest Hills Company, doing business as Old Colony Brewing Co., Boston, Mass. Malt syrup for food purposes. 240,054; Mar. 20. Class 46.
Forkner, James L., Princeton, W. Va. Semipaste house paint. 240,326; Mar. 20. Class 16.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 240,061–6; Mar. 20; Serial Nos. 258,324–9; published Jan. 10, 1928. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 240,075–6; Mar. 20; Serial Nos. 256,918–9; published Jan. 10, 1928. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 240,077; Mar. 20; Serial No. 256,921; published Jan. 10, 1928. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 240,298; Mar. 20; Serial No. 256,920; published Jan. 10, 1928. Class 42.
Foster Bolt & Nut Manufacturing Company, The, Cleveland, Ohio. Bolts and cap screws. 240,078; Mar. 20; Serial No. 256,927; published Jan. 10, 1928. Class 13.
Framae Importing Co. (See Macmonnies, Frank, Inc.)
Fritchle Home Company, The, Frederick, Md. Pencils and paper cutters. 240,277; Mar. 20; Serial No. 255,845; published Jan. 10, 1928. Class 37.
Fuller, W. P., & Co., San Francisco, Calif. Paints, lacquer, varnish, and enamel paint. 240,107; Mar. 20; Serial No. 256,116; published Jan. 3, 1928. Class 16.
Fuller, W. P., & Co., San Francisco, Calif. Paint, lacquer, varnish, and enamel paint. 240,107; Mar. 20; Serial No. 256,113; published Jan. 3, 1928. Class 16.
Fuller, W. P., & Co., San Francisco, Calif. Paint, lacquer, varnish, and enamel paints. 240,108; Mar. 20; Serial No. 256,110; published Jan. 3, 1928. Class 16.
G. P. Crafts Company, Manchester, N. H. Boots and shoes. 240,051; Mar. 20; Serial No. 255,744; published Jan. 3, 1928. Class 39.
Gale Shoe Manufacturing Co., Boston, Mass, and Manchester, N. H. Shoes. 240,265; Mar. 20; Serial No. 255,060; published Dec. 27, 1927. Class 39.
Garneau & de Bruyn, Inc., New York, N. Y. Canned fish. 240,261; Mar. 20; Serial No. 248,828; published Jan. 17, 1928. Class 46.
General Asbestos & Rubber Company. (See Charleston Metallic Packing Co., assignor.)
General Electric Company, Schenectady, N. Y. Synthetic resin. 240,134; Mar. 20; Serial No. 256,867; published Jan. 3, 1928. Class 6.
Geneva Preserving Company, Geneva, N. Y. Canned fruits and vegetables. 67,476; renewed Feb. 4, 1928.
Geneva Preserving Company, Geneva, N. Y. Canned fruits and vegetables. 67,493–5; renewed Feb. 4, 1928.
Gilette-Vibber Company, The, New London, Conn. Certain metal manufactures. 67,868; renewed Feb. 25, 1928.
Globe Laboratories, Fort Worth, Tex. Disinfectants. 240,085; Mar. 20; Serial No. 257,967; published Jan. 10, 1928. Class 6.
Globe Packing Company, Lubec and Eastport, Me., assignor to Globe Canning Company, Lubec, Me. Sardines. 67,432–3; renewed Feb. 4, 1928.
Goetze, William A., doing business as Baltimore Chewing Gum Co., Baltimore, Md. Candy and chewing gum. 240,330; Mar. 20. Class 46.
Goody Shop. (See Boston Candies and Luncheonette, Inc.)
Grasselli Chemical Company, The, Cleveland, Ohio. Accelerators for rubber vulcanization. 240,204; Mar. 20; Serial No. 258,264; published Jan. 10, 1928. Class 6.
Grennan Bakeries, Inc., Chicago, Ill. Bakery goods. 240,294; Mar. 20; Serial No. 256,775; published Jan. 17, 1928. Class 46.
Haan, R. M., Candy Company, Inc., New York, N. Y. Chocolates and bonbons. 240,152; Mar. 20; Serial No. 238,216; published Jan. 10, 1928. Class 46.
Haden, Chesley A., Crozet, Va. Fresh peaches. 240,179; Mar. 20; Serial No. 252,101; published Jan. 10, 1928. Class 46.
Hamilton, Oliver T., Indianapolis, Ind. Cigars. 240,728; Mar. 20; Serial No. 257,410; published Jan. 17, 1928. Class 17.
Harley, Horace G., 5 Mile, Navy Yard, S. C. Medical compounds for treating venereal diseases, cancer, etc. 240,089; Mar. 20; Serial No. 257,675; published Jan. 10, 1928. Class 6.
Harris and Tipograph, Inc., New York, N. Y. Hat and cap leather. 240,315; Mar. 20. Class 1.
Harris, Peter A., doing business as Harris Bitray Company, Chicago, Ill. Dental impression trays. 240,155; Mar. 20; Serial No. 234,910; published Jan. 3, 1928. Class 44.
Hartwell Brothers, Hollywood, Memphis, Tenn. Axe heads. 240,278; Mar. 20; Serial No. 255,848; published Jan. 17, 1928. Class 23.
Hearn Oil Company, Wilmington, Del. Gasoline. 240,031; Mar. 20; Serial No. 254,849; published Jan. 3, 1928. Class 15.
Henckels, J. A., Inc., New York, N. Y. Scissors. 240,227; Mar. 20; Serial No. 257,412; published Jan. 17, 1928. Class 23.
Henowitz, Ned, Newark, N. J. Electron vacuum tubes. 240,033; Mar. 20; Serial No. 257,283; published Jan. 10, 1928. Class 21.
Herrick Company, Boston, Mass. Sheet metal. 240,118; Mar. 20; Serial No. 254,672; published Jan. 10, 1928. Class 14.
Highway Maintenance Publishing Co. (See Abel, Stanley.)
Hilbert, A. J., & Co., The, De Pere, Wis. Perfume, toilet water, cold cream, vanishing cream, etc. 240,092; Mar. 20; Serial No. 257,627; published Jan. 10, 1928. Class 6.
Holmerden Co., The, Stratford, Conn. Compound for cleaning waste pipes. 240,166; Mar. 20; Serial No. 257,235; published Jan. 10, 1928. Class 6.
Honey Dew Butter Scotch Company. (See Aughinbaugh Caramel Company, The, assignor.)
Hoopeston Canning Co., Hoopeston, Ill. Canned vegetables. 240,210; Mar. 20; Serial No. 246,751; published Jan. 10, 1928. Class 46.
House of Tre-Jur, Inc., New York, N. Y. Depilatory. 240,081; Mar. 20; Serial No. 257,983; published Jan. 10, 1928. Class 6.
Hub Truckers Association, Inc., Robertsdale, Ala. Irish potatoes. 240,258; Mar. 20; Serial No. 246,683; published Jan. 17, 1928. Class 46.
Hughes, Raleigh E., doing business as Dis-Solvs-It, Stege, Calif. Solvent for paint and varnishes. 240,181; Mar. 20; Serial No. 251,840; published Jan. 10, 1928. Class 16.
Hurd, George B., & Co., assignor to George B. Hurd & Co. Inc., New York, N. Y. Writing paper and envelopes. 69,888–9; renewed July 14, 1928.

Hytron Corporation, Salem, Mass. Thermionic vacuum tubes for radio receiving and transmitting apparatus. 240,104; Mar. 20; Serial No. 257,236; published Jan. 10, 1928. Class 21.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Medicines. 240,067; Mar. 20; Serial No. 258,223; published Jan. 10, 1928. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Organic phosphorus compound. 240,068; Mar. 20; Serial No. 258,219; published Jan. 10, 1928. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Bismuth preparation. 240,069; Mar. 20; Serial No. 258,217; published Jan. 10, 1928. Class 6.

Indian Refining Company, Philadelphia, Pa., assignor, by mesne assignments, to The Palmolive-Peet Company, Chicago, Ill. Vegetable fat or oil compound. 69,454–6; renewed June 16, 1928.

International Milling Company, Minneapolis, Minn. Wheat flour. 240,732; Mar. 20; Serial No. 257,361; published Jan. 10, 1928. Class 46.

International Products Co., New York, N. Y. Malt sirup. 240,042; Mar. 20; Serial No. 253,418; published Jan. 3, 1928. Class 46.

Italian Hat Importers, Inc., New York, N. Y. Hats. 240,096; Mar. 20; Serial No. 257,510; published Jan. 3, 1928. Class 39.

Jarman Shoe Company, Nashville, Tenn. Rubber heels, soles, and half soles. 240,239; Mar. 20; Serial No. 257,734; published Jan. 10, 1928. Class 39.

Johansen, M. M., Candy Company, Dubuque, Iowa. Candy. 69,031; renewed May 12, 1928.

Juergens & Andersen Company, Chicago, Ill. Manufactured jewelry. 240,017; Mar. 20; Serial No. 257,011; published Jan. 3, 1928. Class 28.

Kansas City Macaroni & Importing Co., doing business as American Beauty Macaroni Co., Kansas City, Mo. Macaroni. 240,172; Mar. 20; Serial No. 257,364; published Jan. 3, 1928. Class 46.

Kansas Milling Company, The, doing business as The St. John Mills, St. John, Kans. Wheat flour. 240,266; Mar. 20; Serial No. 255,110; published Jan. 10, 1928. Class 46.

Kaplan, Nathan, doing business as Anchor Malt Products Company, New York, N. Y. Malt sirup. 240,049; Mar. 20; Serial No. 255,560; published Jan. 3, 1928. Class 46.

Kaysan, Heinrich A., Cassel, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Syringes and surgical irrigators. 68,169; renewed Mar. 10, 1928.

Keeran, Charles R., doing business as Keeran Products Co., assignor to Keeran Products Company, Chicago, Ill. Leads for pencils. 240,244; Mar. 20; Serial No. 217,785; published Jan. 17, 1928. Class 37.

Kenly Co., The, East Orange, N. J. Toy animals. 240,126; Mar. 20; Serial No. 257,240; published Dec. 27, 1927. Class 22.

Kimler, Barnet, Inc., doing business as Melrik Paint and Varnish Works, New York, N. Y. Paints, varnishes, and prepared shellac. 240,131; Mar. 20; Serial No. 257,015; published Jan. 10, 1928. Class 16.

Kleinert, I. B., Rubber Company, New York, N. Y. Sanitary-napkin shields. 240,105; Mar. 20; Serial No. 256,196; published Jan. 3, 1928. Class 44.

Kleinhans, Marshall P., Easton, Pa. Composition for removing tarvia, asphalt, and oils from automobiles and painted surfaces. 240,099; Mar. 20; Serial No. 257,421; published Jan. 10, 1928. Class 6.

Knelling, Michael, doing business as Knelling Co., Tacoma, Wash. Eye medicine. 240,034; Mar. 20; Serial No. 256,826; published Jan. 10, 1928. Class 6.

Krank, Alfred J., St. Paul, Minn. Hairdressing preparations. 240,308; Mar. 20. Class 6.

Kutnow, S. & Co., London, England, assignor by mesne assignments, to S. Kutnow and Company Limited, Leeds, England. Remedy for asthma, bronchitis, and catarrh. 30,754; renewed Oct. 26, 1927.

Labin, Frank, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y. Mechanical toy, airplanes, merry-go-rounds, etc. 240,214; Mar. 20; Serial No. 245,353; published Jan. 3, 1928. Class 22.

Labin, Frank, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y. Mechanical toy. 240,215; Mar. 20; Serial No. 245,352; published Jan. 3, 1928. Class 22.

Labin, Frank, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y. Mechanical toys. 240,216; Mar. 20; Serial No. 245,350; published Jan. 3, 1928. Class 22.

Lacoste, Gratia B., doing business as Gratia Barre, Minneapolis, Minn. Liquid cold cream, astringent, night cream, and face powder. 240,098; Mar. 20; Serial No. 257,422; published Jan. 10, 1928. Class 6.

Lambert Pharmacal Company, Wilmington, Del. Medicinal, antiseptic, and deodorant compound, tooth powder, etc. 240,162; Mar. 20; Serial No. 257,070; published Jan. 10, 1928. Class 6.

Lange Canning Co., Eau Claire, Wis. Canned fruits and vegetables. 240,327; Mar. 20. Class 46.

Lappe, Th., Neudietendorf, Thuringia, Germany. Aromatic stomach elixir. 240,219; Mar. 20; Serial No. 243,003; published Jan. 10, 1928. Class 6.

La Regina Products Company, The, Cleveland, Ohio. Medicinal preparations. 240,182; Mar. 20; Serial No. 251,622; published Jan. 10, 1928. Class 6.

La Valliere Company, The, New Orleans, La. Perfume extract, toilet water, powders, etc. 240,323; Mar. 20. Class 6.

Lawrenceburg Overall Mfg. Co., The, Lawrenceburg, Ind. Children's play suits, men's and boys' overalls, jackets, and pants. 240,173; Mar. 20; Serial No. 257,871; published Jan. 3, 1928. Class 30.

Lederer, Strauss & Co., Inc., Des Moines, Iowa. Hats. 240,643; Mar. 20; Serial No. 253,849; published Jan. 3, 1928. Class 39.

Lehon Company, The, Chicago, Ill. Asphalt roofing, shingles, etc. 240,306; Mar. 20. Class 12.

Lem-Cod Co., The. (See Lemler, Harry.)

Lemler, Harry, doing business as The Lem-Cod Co., Baltimore, Md. Laxative preparations. 240,084; Mar. 20; Serial No. 257,879; published Jan. 10, 1928. Class 6.

Levy Bros., Louisville, Ky. Overcoats, topcoats, tronsers, etc. 240,283; Mar. 20; Serial No. 256,411; published Jan. 10, 1928. Class 39.

Levy, Lucien, Paris, France. Electrifying apparatus. 240,187; Mar. 20; Serial No. 250,808; published Jan. 10, 1928. Class 21.

Levy's, Charles, Sons Inc., New York, N. Y. Hats. 240,290; Mar. 20; Serial No. 256,732; published Jan. 10, 1928. Class 39.

Liberty Electric Corporation, Stamford, Conn. Radio and automobile charging equipment. 240,192; Mar. 20; Serial No. 249,074; published Jan. 17, 1928. Class 21.

Lingner, Karl A., Dresden, Germany, assignor to The Odol Corporation, New York, N. Y. Mouth washes, powders, and paste used as dentifrices. 70,021; renewed July 21, 1928.

Lombardo, John L., doing business as J. L. Lombardo Co., Buffalo, N. Y. Alcohol rubbing compounds. 240,129; Mar. 20; Serial No. 257,174; published Jan. 10, 1928. Class 6.

Long, Chas. R., Jr., Co., Louisville, Ky. Paint. 70,215; renewed Aug. 11, 1928.

Looboyle Refining Company, Tulsa, Okla., and Joplin, Mo. Gasoline and lubricating oils. 240,018; Mar. 20; Serial No. 257,176; published Jan. 10, 1928. Class 15.

Lory, Dow H., New York, N. Y. Razors, shears, scissors, etc. 240,274; Mar. 20; Serial No. 255,521; published Jan. 17, 1928. Class 23.

Los Angeles Hat Company, Los Angeles, Calif. Hats. 240,038; Mar. 20; Serial No. 256,784; published Jan. 3, 1928. Class 39.

Lubro Company, The. (See Ruskin, Sidney H.)

Luckey Lime & Supply Co., The, Luckey, Ohio. Lime. 240,317; Mar. 20. Class 12.

Maas, Arthur R., doing business as A. R. Maas Chemical Co., Inc., Los Angeles, Calif. Disinfectant, deodorant, germicide, and antiseptic. 240,206; Mar. 20; Serial No. 248,309; published Dec. 27, 1927. Class 6.

Macmonnies, Frank, Inc., doing business as Framac Importing Co., New York, N. Y. Canned pimientos. 240,115; Mar. 20; Serial No. 255,066; published Jan. 10, 1928. Class 46.

Macy, R. H., & Co., Inc., New York, N. Y. Sweaters and knitted suits. 240,280; Mar. 20; Serial No. 256,129; published Jan. 10, 1928. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Leather gloves. 240,281; Mar. 20; Serial No. 256,130; published Jan. 10, 1928. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Underwear. 240,296; Mar. 20; Serial No. 256,876; published Jan. 10, 1928. Class 39.

Magic Foot Draft Co., to Frederick Dyer Company, Jackson, Mich., successor. Adhesive plasters. 70,109; renewed July 28, 1928.

Magruder, Lloyd M., New Orleans, La. Salve. 240,203; Mar. 20; Serial No. 258,131; published Jan. 10, 1928. Class 6.

Majestic Metal Specialties, Inc., New York, N. Y. Empty base-metal vanities, compact cases, and lip-stick containers. 240,299; Mar. 20; Serial No. 256,950; published Jan. 17, 1928. Class 2.

Mandel & Cohen, New York, N. Y. Hosiery and underwear. 240,211; Mar. 20; Serial No. 246,428; published Jan. 3, 1928. Class 39.

Many, Blanc & Company, Chicago, Ill. Maltless beverages and syrups and flavors for making the same. 240,251; Mar. 20; Serial No. 237,916; published Jan. 17, 1928. Class 45.

Marathon Shoe Co., Wausau, Wis. Shoe soles and heels. 240,238; Mar. 20; Serial No. 257,738; published Jan. 10, 1928. Class 39.

Marshak Maltmolak Co. Inc., Brooklyn, N. Y. Syrup consisting of cocoa, sugar, and malt. 240,205; Mar. 20; Serial No. 248,581; published Jan. 3, 1928. Class 46.

Marshall Company, The, Grand Rapids, Mich. Pillows, comforters, and beds. 240,231; Mar. 20; Serial No. 257,372; published Jan. 17, 1928. Class 32.

Martin Laboratories. (See Blau, M. Martin.)

Mautz Paint and Glass Company, Madison, Wis. Varnishes, lacquers, paste and ready-mixed paints. 240,122; Mar. 20; Serial No. 257,427; published Jan. 3, 1928. Class 16.

May Department Stores Company, The, St. Louis, Mo. Sanitary napkins. 240,135; Mar. 20; Serial No. 256,678; published Jan. 3, 1928. Class 44.

Mayer, Albert, Marseille, France. Foot-arch supporters. 240,136; Mar. 20; Serial No. 256,469; published Jan. 3, 1928. Class 44.

McCall, C. S., Bennettsville, S. C. Fertilizer distributors and pea hullers. 240,289; Mar. 20; Serial No. 256,679; published Jan. 17, 1928. Class 28.

McGovern and McGovern, Seattle, Wash. Canned salmon, fruits, berries, and vegetables. 240,114; Mar. 20; Serial No. 255,455; published Jan. 10, 1928. Class 46.

McGrath, William J., Little Rock, Ark. Candy. 240,190; Mar. 20; Serial No. 250,030; published Jan. 10, 1928. Class 46.

Mellish Hayward Company, Chicago, Ill. Air compressors. 240,260; Mar. 20; Serial No. 248,114; published Jan. 17, 1928. Class 23.

Melrik Paint and Varnish Works. (See Kimler, Barnet, Inc.)

Meltzit Chemical Company, Rochester, N. Y. Solution for cleaning false teeth. 240,072; Mar. 20; Serial No. 258,083; published Jan. 10, 1928. Class 6.

Merck, E., Darmstadt, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Derivative or substitute for ergot. 68,111; renewed Mar. 10, 1928.

Meyer Brothers Coffee & Spice Company, St. Louis, Mo. Coffee. 69,689; renewed June 30, 1928.

Meyerowich, Charles A., doing business as Yankee Chemical Co., Rosebank, N. Y. Carbonated orange-flavored laxative water. 240,036; Mar. 20; Serial No. 256,877; published Jan. 10, 1928. Class 6.

Meyrowitz, E. B., Inc., New York, N. Y. Cameras. 240,271; Mar. 20; Serial No. 255,388; published Jan. 17, 1928. Class 26.

Mica Insulator Company, New York, N. Y. Electrical insulating compound. 70,012; renewed July 21, 1928.

Mid-West Oil Company, Kansas City, Kans. Lubricating oils. 240,103; Mar. 20; Serial No. 257,245; published Jan. 10, 1928. Class 15.

Miller, I., & Sons, Inc., Long Island City, N. Y. Ornamental buckles. 240,074; Mar. 20; Serial No. 256,363; published Jan. 10, 1928. Class 28.

Miller, Nathan, New York, N. Y. Finger rings. 240,102; Mar. 20; Serial No. 257,554; published Jan. 10, 1928. Class 28.

Milward, Henry, & Sons, Limited, Redditch, England. Gut fishing lines, artificial flies, fishhooks, etc. 240,180; Mar. 20; Serial No. 252,055; published Jan. 3, 1928. Class 22.

Mitchell, Peter, doing business as Mitchell's Candy Shop, Bridgeport, Conn. Candy. 240,226; Mar. 20; Serial No. 257,483; published Jan. 17, 1928. Class 46.

Monmouth Products Company, The, Cleveland, Ohio. Sound-reproducing apparatus. 240,022; Mar. 20; Serial No. 256,576; published Jan. 10, 1928. Class 21.

Mu-Col Company, The, Buffalo, N. Y. Sanitary napkins. 240,198; Mar. 20; Serial No. 257,696; published Jan. 10, 1928. Class 44.

Murphy, George S., Inc., New York, N. Y. Confection. 240,316; Mar. 20. Class 46.

Musher and Company, Washington, D. C. Salad oil and mayonnaise. 240,167; Mar. 20; Serial No. 257,247; published Jan. 3, 1928. Class 46.

Myers Hats Inc., New York, N. Y. Ladies' hats. 240,170; Mar. 20; Serial No. 257,302; published Jan. 3, 1928. Class 39.

Nathan Manufacturing Co., New York, N. Y. Steam-boiler injectors and boiler feeders. 69,774; renewed July 7, 1928.

National Appliances Installations, Inc., assignor to The Serve-Well Appliances, Inc., New York, N. Y. Oil burners. 240,212; Mar. 20; Serial No. 246,805; published Jan. 10, 1928. Class 34.

National Mitten Works, The, Kokomo, Ind. Cotton work gloves and mittens and cotton jersey gloves. 240,224; Mar. 20; Serial No. 257,556; published Jan. 10, 1928. Class 39.

National Spring & Wire Co., Grand Rapids, Mich. Furniture cushion springs and furniture upholstery springs. 240,291; Mar. 20; Serial No. 256,739; published Jan. 17, 1928. Class 32.

Nestor Johnson Manufacturing Company, Chicago, Ill. Ice skates. 240,138; Mar. 20; Serial No. 256,348; published Dec. 27, 1927. Class 22.

New England Biscuit Co., Worcester, assignor to Dawley & Shepard, Westminster, Mass. Lunch biscuits and crackers. 69,240; renewed May 26, 1928.

Norfolk Paint & Varnish Company, Quincy and Atlantic, Mass. Paints. 240,111; Mar. 20; Serial No. 255,859; published Jan. 3, 1928. Class 16.

Northwood Products Co., The, Philadelphia, Pa. Furniture polish and automobile polish. 240,116; Mar. 20; Serial No. 254,930; published Jan. 10, 1928. Class 16.

Nugnes, Joseph, New York N. Y. Condiment. 240,250; Mar. 20; Serial No. 237,089; published Jan. 10, 1928. Class 46.

Nyanza Color & Chemical Co. Inc., New York, N. Y. Chemicals in liquid form used in dyeing operations. 240,201; Mar. 20; Serial No. 257,982; published Jan. 10, 1928. Class 6.

Old Ben Coal Corporation, Chicago, Ill. Coal. 240,328; Mar. 20. Class 1.

Old Colony Brewing Co. (See Forest Hills Company.)

Old Dominion Iron & Steel Works, Inc., Richmond and Belle Isle, Richmond, Va. Iron bars. 240,312; Mar. 20. Class 14.

Odol Corporation, The. (See Lingner, Karl A., assignor.)

Oriole Phonograph Company, Baltimore, Md. Phonographs and records. 240,015; Mar. 20; Serial No. 256,683; published Jan. 10, 1928. Class 36.

P. V. Chemical Co., Seattle, Wash. Medicinal preparation. 240,110; Mar. 20; Serial No. 255,869; published Jan. 10, 1928. Class 6.

Pacific Stationery & Printing Co., Portland, Oreg. Lead pencils. 240,319; Mar. 20. Class 37.

Pain Chex Co. of America, Valley Park, Mo. Medicated tablets for the relief of pain. 240,314; Mar. 20. Class 6.

Palmolive-Peet Company. (See India Refining Company, assignor.)

Parcell, John, New York, N. Y. Automatic coin-controlled phonograph machines or apparatuses. 240,730; Mar. 20; Serial No. 257,378; published Jan. 17, 1928. Class 26.

Parfumerie Caron. (See Daltroff, E., & Cie.)

Parke, Davis & Company, Detroit, Mich. Medicinal compound for the treatment of indigestion, etc. 240,199; Mar. 20; Serial No. 257,742; published Jan. 10, 1928. Class 6.

Parkhill Manufacturing Company, Fitchburg, Mass. Gingham piece goods. 240,237; Mar. 20; Serial No. 257,743; published Jan. 10, 1928. Class 42.

Pastene, P., & Co. Inc., doing business as Purity Products Co., Boston, Mass. Salad oil. 240,267; Mar. 20; Serial No. 255,129; published Jan. 10, 1928. Class 46.

Pathe Exchange, Inc., New York, N. Y. Films for projecting purposes. 240,268; Mar. 20; Serial No. 255,194; published Jan. 17, 1928. Class 26.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Toothbrushes. 240,200; Mar. 20; Serial No. 257,745; published Jan. 10, 1928. Class 29.

Pennsylvania Coal Products Company, Butler and Petrolia, Pa. Coal-tar derivatives. 240,202; Mar. 20; Serial No. 258,095; published Jan. 10, 1928. Class 6.

Planten, H., & Son Inc., Brooklyn, N. Y. Medicine. 240,093; Mar. 20; Serial No. 257,559; published Jan. 10, 1928. Class 6.

Pohlmeyer, Inc., Wallington, N. J. School and artists' oil and water colors. 240,130 Mar. 20; Serial No. 257,118; published Jan. 10, 1928. Class 16.

Polan, Katz & Co., Baltimore, Md. Umbrellas. 240,161; Mar. 20; Serial No. 257,380; published Jan. 3, 1928. Class 41.

Polk, James K., Inc., Atlanta, Ga. Phonographs, phonograph records and mainsprings, repair parts, tone arms, and needles. 240,262; Mar. 20; Serial No. 248,648; published Oct. 25, 1927. Class 36.

Pollack Roller Runner Sled Co., Inc., Boston, Mass. Sleds. 240,125; Mar. 20; Serial No. 257,252; published Jan. 3, 1928. Class 22.

Pompillo, Victor A., Mount Vernon, N. Y. Liquid preparation. 240,128; Mar. 20; Serial No. 257,195; published Jan. 10, 1928. Class 6.

Potato Implement Co., Traverse City, Mich. Potato planters, attachments therefor, and corn planters. 68,931; renewed May 5, 1928.

Procháska, F., Ltd., Prague, Czechoslovakia. Perfumes and face creams. 240,154; Mar. 20; Serial No. 235,070; published Jan. 10, 1928. Class 6.

Protex-A-Motor Manufacturing Company, Exeter and Pittston, Pa. Gasoline-purifying instrumentalities for explosion motors. 240,153; Mar. 20; Serial No. 236,959; published Feb. 1, 1927. Class 23.

Providence Malt Company, Providence, R. I. Malt extract. 240,168; Mar. 20; Serial No. 257,253; published Jan. 3, 1928. Class 46.

Purity Products Co. (See Pastene, P., & Co. Inc.)

Quaker Oats Company, The, Chicago, Ill. Pearled barley. 240,242; Mar. 20; Serial No. 257,636; published Jan. 10, 1928. Class 46.

Quaker Oil Products Corporation, Conshohocken, Pa. Insecticides. 240,088; Mar. 20; Serial No. 257,746; published Jan. 10, 1928. Class 6.

Reckitt & Sons, Limited, Hull, England, assignor to Reckitts (U. S. A.), Ltd., Hull, England, and New Brunswick, N. J. Metal polish. 68,712; renewed Apr. 28, 1928.

Rentz, Fred, Paper Company, Chicago, Ill. Greaseproof and waterproof wrapping paper. 240,234; Mar. 20; Serial No. 257,230; published Jan. 10, 1928. Class 37.

Roberts-Reitze Oil Corporation, Chicago, Ill. Lubricating oils. 240,177; Mar. 20; Serial No. 252,220; published Jan. 3, 1928. Class 15.

Robeson Rochester Corporation, Rochester, N. Y. Butlers' serving trays, percolators, coffee urns, etc. 240,252; Mar. 20; Serial No. 238,618; published Jan. 17, 1928. Class 18.

Rocky Hill Corporation, Exeter, Calif. Fruits. 240,225; Mar. 20; Serial No. 257,486; published Jan. 17, 1928. Class 46.

Roditi, Charles, Paris, France. Perfumes. 240,307; Mar. 20. Class 6.

Rollman, Michael A., Mount Joy, Pa. Electric sadirons. 240,026; Mar. 20; Serial No. 255,929; published Jan. 10, 1928. Class 21.

Rowland, Thad H., Oberlin, Ohio. Vending machines for confections or the like. 240,302; Mar. 20; Serial No. 257,119; published Jan. 17, 1928. Class 23.
Ruskin, Sidney H., doing business as The Lubro Company, Atlanta, Ga. Greases for lubricating purposes. 240,186; Mar. 20; Serial No. 250,863; published Jan. 10, 1928. Class 15.
Russell Manufacturing Company, Leicester, Mass. Parlor and table games. 240,156; Mar. 20; Serial No. 233,709; published Jan. 3, 1928. Class 22.
St. John Mills, The. (See Kansas Milling Company, The.)
Schrafft's Stores, The. (See Shattuck, Frank G., Company.)
Schwartz Ginger Ale Co. Inc., San Francisco, Calif. Bottled ginger ale. 240,321; Mar. 20. Class 45.
Seattle Hardware Company, Seattle, Wash. Tools and cutlery. 70,002; renewed July 21, 1928.
Seeman Brothers, Inc., New York, N. Y. Canned fish. 240,269; Mar. 20; Serial No. 255,319; published Jan. 17, 1928. Class 46.
Sefton National Fibre Can Co., Maplewood, Mo. Spiral and straight wound fiber cans. 240,241; Mar. 20; Serial No. 257,638; published Jan. 17, 1928. Class 2.
Serve-Well Appliances, Inc., The. (See National Appliances Installations, Inc., assignor.)
Shattuck, Frank G., doing business as The Schrafft's Stores, New York, N. Y. Cakes. 240,053; Mar. 20; Serial No. 255,773; published Jan. 3, 1928. Class 46.
Sheboygan Cheese Company, Sheboygan, Wis. Milk product. 240,285; Mar. 20; Serial No. 256,545; published Jan. 17, 1928. Class 46.
Shu-Stiles, Inc., St. Louis, Mo. Shoes. 240,097; Mar. 20; Serial No. 257,445; published Jan. 3, 1928. Class 39.
Sigma Alpha Epsilon Fraternity, Evanston, Ill. Fraternity badges, lapel buttons, cuff links, etc. 240,149; Mar. 20; Serial No. 239,490; published Jan. 3, 1928. Class 28.
Smith & Hartnett, Philadelphia, Pa. Ladies' hats. 240,163; Mar. 20; Serial No. 257,126; published Jan. 3, 1928. Class 39.
Society of The Sons of the Revolution in the State of Illinois, Chicago, Ill. Periodical. 240,243; Mar. 20; Serial No. 201,722; published Dec. 20, 1927. Class 38.
Solvay Process Company, The, Solvay, N. Y. Inorganic chemicals. 240,070; Mar. 20; Serial No. 258,197; published Jan. 10, 1928. Class 6.
Southern Oregon Sales, Inc., Medford, Oreg. Fresh deciduous and dried fruits. 240,247–8 Mar. 20; Serial Nos. 236,342–3; published Jan. 17, 1928. Class 46.
Southern Oregon Sales, Inc., Medford, Oreg. Fresh deciduous and dried fruits. 240,249; Mar. 20; Serial No. 236,345; published Jan. 17, 1928. Class 46.
Spahr, Otto, doing business as Spahr Electrical Appliance Company, Philadelphia, Pa. Electric sadirons. 240,144; Mar. 20; Serial No. 240,153; published Jan. 10, 1928. Class 21.
Spic Laboratories, Inc., Chicago, Ill. Deodorant. 240,073; Mar. 20; Serial No. 258,002; published Jan. 10, 1928. Class 6.
Spickelmier Fuel & Supply Co., Indianapolis, Ind. Stuccos and plaster wall finishes. 240,324; Mar. 20. Class 12.
Spielberger, Sigmund, New York, N. Y. Ladies' clothing. 240,209; Mar. 20; Serial No. 247,830; published Jan. 3, 1928. Class 39.
Spiro, Max, & Sons, Inc., New York, N. Y. Clothing. 240,040; Mar. 20; Serial No. 256,429; published Jan. 3, 1928. Class 39.
Stanard Tilton Milling Co., St. Louis, Mo. Wheat flour. 68,807; renewed Apr. 28, 1928.
Stevens, Chas. A., & Bros., Chicago, Ill. Ladies' dresses. 240,171; Mar. 20; Serial No. 257,320; published Jan. 3, 1928. Class 39.
Stone Candy Company, San Francisco, Calif. Candy. 240,143; Mar. 20; Serial No. 240,453; published Jan. 10, 1928. Class 46.
Stone & Goldenberg, Inc., New York, N. Y. Hats. 240,045; Mar. 20; Serial No. 253,858; published Jan. 3, 1928. Class 39.
Striker, Al, Newark, N. J. Liniment. 240,218; Mar. 20; Serial No. 243,893; published Jan. 10, 1928. Class 6.
Sunlight Lamp Co., The, Newton Falls, Ohio. Radio electron tubes. 240,028–9; Mar. 20; Serial Nos. 255,210–11; published Jan. 10, 1928. Class 21.
Superior Dress Co., Philadelphia, Pa. Dresses, skirts, and waists. 240,236; Mar. 20; Serial No. 257,747; published Jan. 10, 1928. Class 39.
Surges, J. A., & Company, Easthampton, Mass. Dairy, stock, and poultry feed. 240,282; Mar. 20; Serial No. 256,383; published Jan. 17, 1928. Class 46.
Texas Company, The, Houston, Tex., and New York, N. Y. Petroleum products. 240,032; Mar. 20; Serial No. 254,520; published Jan. 10, 1928. Class 15.
Tower, A. J., Company, Portland, Me., assignor, by mesne assignments, to A. J. Tower Company, Boston, Mass. Oiled clothing. 70,090; renewed July 28, 1928.
Townsend Manufacturing Company, Inc., New York, N. Y. Hair-waving solutions, brilliantine, and hair-setting solution. 240,083; Mar. 20; Serial No. 257,906; published Jan. 10, 1928. Class 6.
Union Specialty Works, Inc., Boonville, N. Y. Card tables, costumers, magazine stands, etc. 240,259; Mar. 20; Serial No. 247,501; published Jan. 17, 1928. Class 32.
United States Guano Co. Inc., The, Baltimore, Md. Fertilizer. 240,272; Mar. 20; Serial No. 255,410; published Jan. 17, 1928. Class 10.
Universal Art Crafts, Incorporated, Reno, Nev. Writing paper, envelopes, and blank post cards. 240,233; Mar. 20; Serial No. 257,324; published Jan. 17, 1928. Class 37.
University Laboratories, Inc., Milwaukee, Wis. Aseptic water-soluble preparation. 240,041; Mar. 20; Serial No. 256,317; published Jan. 3, 1928. Class 6.
Utility Manufacturing Company, Inc., Baltimore, Md. Bathroom fixtures. 240,275; Mar. 20; Serial No. 255,582; published Jan. 17, 1928. Class 13.
Valentine, Samuel, Co., Inc., New York, N. Y. Shirts, pajamas, and nightshirts. 240,007; Mar. 20; Serial No. 257,703; published Jan. 3, 1928. Class 39.
Vanderbeek, Andrew B., Paterson, N. J. Toilet preparations. 240,140; Mar. 20; Serial No. 255,883; published Jan. 10, 1928. Class 6.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Mineral oil used as an insulator and waterproofing in electric cables. 240,101; Mar. 20; Serial No. 257,516; published Jan. 10, 1928. Class 15.
Vaughan Novelty Mfg. Co., Chicago, Ill. Bottle openers and folding corkscrews. 240,729; Mar. 20; Serial No. 257,390; published Jan. 17, 1928. Class 23.
Verein für Chemische Industrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Varnishes and polishes. 240,217; Mar. 20; Serial No. 244,481; published Jan. 3, 1928. Class 16.
Vereinigte Ultramarinfabriken Aktien-Gesellschaft vormals Leverkus, Zeitner & Consorten, in Koln am Rhein, Cologne-on-Rhine, Germany, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Ultramarine blue. 68,080; renewed Mar. 3, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 67,408–9; renewed Feb. 4, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 67,682; renewed Feb. 11, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 68,321; renewed Mar. 31, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 69,246; renewed May 26, 1928.
Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C.; and Memphis, Tenn., assignor to Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 69,298; renewed June 2, 1928.
Viasto, Demetrius J., assignor to Atlantis, Inc., New York, N. Y. Newspapers. 29,904; renewed Apr. 27, 1927.
Waggener Finger Print Corporation, Memphis, Tenn. Finger-printing apparatus. 240,158; Mar. 20; Serial No. 221,677; published Jan. 10, 1928. Class 11.
Wallbrunn, Kling & Co., Chicago, Ill. Paints in oil, japan, and water. 240,213; Mar. 20; Serial No. 245,940; published Jan. 10, 1928. Class 16.
Wallerstein Company, Inc., New York, N. Y. Sugar-caramel color. 240,221; Mar. 20; Serial No. 242,324; published Jan. 10, 1928. Class 6.
Washburn Crosby Company, Minneapolis, Minn. Wheat flour. 240,235; Mar. 20; Serial No. 257,767; published Jan. 17, 1928. Class 46.
Waterfield, James B., Attleboro, Mass. Tableware and toilet ware. 240,016; Mar. 20; Serial No. 256,845; published Jan. 10, 1928. Class 28.
Watkins, J. R., Company, The, Winona, Minn. Capsules. 240,175; Mar. 20; Serial No. 252,630; published Jan. 10, 1928. Class 6.
Websters, Limited, Hull, England. Copper paints and anticorrosive and antifouling compositions in the nature of paint. 240,124; Mar. 20; Serial No. 257,259; published Jan. 10, 1928. Class 16.
Weiss', G., Sons, Inc., New York, N. Y. Meat and bone scraps for poultry. 240,305; Mar. 20; Serial No. 257,327; published Jan. 10, 1928. Class 46.
Weldmech Company, The, Hattiesburg, Miss. Steel bodies for automobiles, trucks, etc. 240,240; Mar. 20; Serial No. 257,648; published Jan. 17, 1928. Class 19.
Wenatchee-Okanogan Co-Operative Federation, Wenatchee, Wash. Apples. 240,113; Mar. 20; Serial No. 255,782; published Jan. 10, 1928. Class 46.
Wertheimer, E., & Cie., Paris, France, assignor to Bourjois, Inc., New York, N. Y. Perfumery and face tints. 69,142; renewed May 19, 1928.

Wertheimer, E., & Cie., Paris, France, assignor to Bourjois, Inc., New York, N. Y. Toilet powder. 69,144; renewed May 19, 1928.
Wheeling Stamping Co., Wheeling, W. Va. Lamp burners. 69,838; renewed July 7, 1928.
Wildman, Robert B., Leesburg, Va. Hams. 69,795; renewed July 7, 1928.
Wilmarth & Morman Co., Grand Rapids, Mich., assignor, by mesne assignments, to Covel-Hanchett Co., Big Rapids, Mich. Drill-grinding machines. 67,858; renewed Feb. 25, 1928.
Wimelbacher & Rice, New York, N. Y. Kid and fabric gloves. 240,043; Mar. 20; Serial No. 253,783; published Jan. 3, 1928. Class 39.
Wolcott Mfg. Co., Providence, R. I. Jewelry. 69,975; renewed July 21, 1928.
Wolcott Mfg. Co., Providence, R. I. Jewelry. 70,041; renewed July 28, 1928.
Woods, Marcus S., doing business as The M. S. Woods Company, Chattanooga, Tenn. Malt syrup. 240,208; Mar. 20; Serial No. 247,879; published Dec. 27, 1927. Class 46.
Woolsey, C. A., Paint & Color Co., Jersey City, N. J. Paints. 240,117; Mar. 20; Serial No. 254,881; published Jan. 3, 1928. Class 16.
Yankee Chemical Co. (See Meyerowich, Charles A.)
Yarnall Paint Company. (See Baker, Geo. H., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Barker, Edna C., San Diego, Calif. Bar-Klan Mud Pies. For Colored Dry Powder. 33,665; Mar. 20.
Bridge, George, South Plainfield, N. J. K-Mo-Cross A Novelty Card Game. For a Novelty Card Game. 33,666; Mar. 20.
Bunte Brothers, doing business as Bunte, Chicago, Ill. Assorted Nuts in Chocolate. For Candy. 33,667; Mar. 20.
Crown Cork & Seal Company, Inc., Baltimore, Md. Pyramid Bottle Caps. For Bottle Caps. 33,668; Mar. 20.
Crown Cork & Seal Company, Inc., Baltimore, Md. Home Use Bottle Caps. For Bottle Caps. 33,669; Mar. 20.
Federal Cartridge Corporation, Minneapolis, Minn. Non-Fouling 22 Cal. Long Rifle. For Loaded Metallic Cartridges. 33,670; Mar. 20.
Food Materials Corporation, Chicago, Ill. Food Materials Corporation—Verity Brand. For Food Colors. 33,671; Mar 20.
Helfritsh, Julius H., New Orleans, La. Dustless Dust Cloth. For a Dustless Dust Cloth. 33,672; Mar. 20.
Heller, B., & Company, Chicago, Ill. Freeze-Em-Pickle. For Meat-Curing Preparation. 33,673; Mar. 20.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Fly Killer. For Preparation For Killing Flies, Gnats, and Mosquitoes. 33,674; Mar. 20.
Hol-Ry Company, The, Duluth, Minn. Hol-Ry Health-Bread. For Bread. 33,675; Mar. 20.
Howey, W. J. Company, doing business as Howey-in-the-Hills Sanitarium, Howey, Fla. Certified Medicinal Grapefruit. For Canned and Fresh Grapefruit. 33,676; Mar. 20.
Krank, A. J., Mfg. Co., St. Paul, Minn. Honey-Rose. For Face Cream. 33,677; Mar. 20.
Matzo Bakers Union of G. N. Y., New York, N. Y. Union Made. For Matzos, Which is Unleavened Bread in the Form of Flat Thin Sheets. 33,678; Mar. 20.
Miller, V. N., Cincinnati, Ohio. Everybody Loves Lucky Lindy. For Candy. 33,679; Mar. 20.
Milwaukee Malt Syrup Company, Milwaukee, Wis. Milwaukee Club. For Malt Syrup. 33,680; Mar. 20.
Milwaukee Malt Syrup Company, Milwaukee, Wis. Sweet Adeline. For Malt Syrup. 33,681; Mar. 20.
Minute Jelly, Inc., Wilmington, Del., and Cranford, N. J. Minute Jelly Concentrate. For Concentrated Mixture of Fruit Juice, Sugar, Fruit Acid, and Powdered Pectin Used as a Base to Make Jelly. 33,682; Mar. 20.
Nif-Te-Pal Laboratories. (See Smith, Julius W.)
Pabst Corporation, Milwaukee, Wis. Barley Bloom. For Malt Syrup. 33,683; Mar. 20.
Pabst Corporation, Milwaukee, Wis. Heavy-Weight. For Malt Syrup. 33,684; Mar. 20.
Pabst Corporation, Milwaukee, Wis. Old Burley. For Malt Syrup. 33,685; Mar. 20.
Pabst Corporation, Milwaukee, Wis. Miner's Favorite. For Malt Syrup. 33,686; Mar. 20.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Waterspar Varnish. For Varnish. 33,687; Mar. 20.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Waterspar Enamel. For Paint Enamel. 33,688; Mar. 20.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Waterspar Lacquer. For Lacquer. 33,689; Mar. 20.
Polite's Pure Pepper Sauce Company, Wilmington, N. C. Polite's Pure Pepper Sauce. For Pepper Sauce. 33,690; Mar. 20.
Puritan Mills, Atlanta, Ga. My-T-Pure Flour. For Flour. 33,691; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Extract. For Food-Flavoring Extracts. 33,692; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Spices. For Spices. 33,693; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Preserves. For Preserves. 33,694; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Fruit Cookies. For Fruit Cookies. 33,695; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Condensed Liquid Bluing. For Bluing. 33,696; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Dry Pale Ginger Ale. For Ginger Ale. 33,697; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Asparagus. For Asparagus. 33,698; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Asparagus Tips. For Asparagus Tips. 33,699; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Spinach. For Spinach. 33,700; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Wonder Ammonia. For Ammonia. 33,701; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Bartlett Pears. For Bartlett Pears. 33,702; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Sliced Pineapple. For Sliced Pineapple. 33,703; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Apricots. For Apricots. 33,704; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Royal Anne Cherries. For Royal Anne Cherries. 33,705; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Yellow Cling Peaches. For Yellow Cling Peaches. 33,706; Mar. 20.
Rasmussen, Geo., Co., Chicago, Ill. Hazel Brand Peanut Butter. For Peanut Butter. 33,707; Mar. 20.
Schmid, Julius, Inc., New York, N. Y. Santro Nipple. For Nipples. 33,708; Mar. 20.
Smith, Julius W., doing business as Nif-Te-Pal Laboratories, St. Paul, Minn. Nif-Te-Pal. For Cold Cream. 33,709; Mar. 20.
Soos, Elizabeth, Chicago, Ill. Mrs. Soos' Secret Hungarian Goulash. For Hungarian Goulash. 33,710; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Electric Cigar Lighters. 33,711; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Radiator Hose. 33,712; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Hydrometers. 33,713; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Tester for Determining Freezing Point of Solutions of Water and Alcohol. 33,714; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For S. S. Transmission Lining. 33,715; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Universal Tire Flaps. 33,716; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Friction and Insulating Tape. 33,717; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Ash Receivers. 33,718; Mar. 20.
Super Service Corporation, Omaha, Nebr. Super Service. For Traffic Hydrometers. 33,719; Mar. 20.
Victory Chemical Co., Philadelphia, Pa. Killroach. For a Liquid Insecticide. 33,723; Mar. 20.
Whitman, Stephen F., & Son, Inc., doing business as Whitman's, Philadelphia, Pa. Joy Box. For Candy. 33,720; Mar. 20.
Wrigley, Wm., Jr., Company, Chicago, Ill. Wrigley's Pink P. K. For Chewing Gum. 33,721; Mar. 20.
Wrigley, Wm., Jr., Company, Chicago, Ill. Wrigley's Pink P. K. For Chewing Gum. 33,722; Mar. 20.
Yale Paint & Shellac Company, Newark, N. J. Yale Wonder-Kote. For a Gloss Primer. 33,724; Mar. 20.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden Chemical Co., Inc., doing business as Elizabeth Arden, New York, N. Y. Elizabeth Arden Evolves For You. For Venetian Toilet Preparations. 10,713; Mar. 20.
Bastian-Morley Co., La Porte, Ind. The Aristocrat of Water Heaters. For Water Heaters. 10,714; Mar. 20.
Bastian-Morley Co., La Porte, Ind. Keystone Insulated Automatic Storage Gas Water Heater. For Water Heaters. 10,715; Mar. 20.
C. G. Spring & Bumper Company, The, Detroit, Mich. Style. For Vehicle Bumpers. 10,717; Mar. 20.

Cream of Wheat Co., Minneapolis, Minn. A Welcome Dish On The Supper Tray—This Dainty, Nourishing Dessert. For Wheat Breakfast Food. 10,716; Mar. 20.
D & C Co. Inc., The, Wilmington, Del., and Brooklyn, N. Y. It's A Fact—For Dessert My-T-Fine. For Dessert Preparations. 10,718; Mar. 20.
D & C Co. Inc., The, Wilmington, Del., and Brooklyn, N. Y. Throughout The Year—My-T-Fine-For Dessert. For Dessert Preparations. 10,719; Mar. 20.
Heinz, H. J., Company, Pittsburgh, Pa. And Ours Are Garden Fresh—Too. For Ketchup. 10,720; Mar. 20.
Isaacson Clothing Company, Inc., Fort Smith, Ark. Truworth. For Men's and Boys' Suits. 10,721; Mar. 20.
Schmid, Julius, Inc., New York, N. Y. Santro Breast Form Nipples. For Nipples. 10,722; Mar. 20.
Texas Pacific Coal And Oil Company, Fort Worth, Tex. Amlo Aero Motor Lubricating Oil. For Motor Oil. 10,723; Mar. 20.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Brick Company, Fort Worth, Tex. Brick. 260,157; Mar. 20. Class 12.
Acme Wire Company, The, New Haven, Conn. Electrostatic condensers. 259,984; Mar. 20. Class 21.
Ajax Limited, London, England. Ultra-violet-ray generators. 254,223; Mar. 20. Class 44.
Albemarle Paper Manufacturing Co., The, Richmond, Va. Blotting paper. 260,306; Mar. 20. Class 37.
Allen, George B., doing business as The Charpure Company, Atlanta, Ga. Liquid-purifying device. 258,614; Mar. 20. Class 50.
Alpina, A. G., Gumligen, near Bern, Switzerland. Leathers. 257,751; Mar. 20. Class 1.
Aluminum Goods Manufacturing Co., Manitowoc, Wis. Electric percolators. 260,307; Mar. 20. Class 21.
American Cyanamid Company, New York, N. Y. Fertilizer mixtures. 259,753; Mar. 20. Class 10.
American Printing Ink Co., The, Cincinnati, Ohio. Printing inks. 260,617; Mar. 20. Class 11.
American Wholesale Corporation, (Baltimore Bargain House), Baltimore, Md. Ticking. 251,375; Mar. 20. Class 42.
American Writing Machine Company, Ilion, N. Y., and Newark, N. J. Plastic type cleaner. 261,093; Mar. 20. Class 4.
Ameseo Paint Comp. Inc., New York, N. Y. Ready-mixed exterior and interior paints. 260,371; Mar. 20. Class 16.
Astoria Photo-Engravers Supply Co., Long Island City, N. Y. Rubber cement. 260,708; Mar. 20. Class 5.
Atlantic Aircraft Corporation, Teterboro, Hasbrouck Heights, N. J. Airplanes, seaplanes, hydroplanes, etc. 228,589; Mar. 20. Class 19.
Atonna, Pasquale, doing business as Atonna's Laboratory, Corona, N. Y. Liniment for rheumatic pains, etc. 260,309; Mar. 20. Class 6.
Babyhood, Incorporated, Marion, Ind. Magazine. 259,097; Mar. 20. Class 38.
Baker Paint & Varnish Co., Jersey City, N. J. Dry, paste, and ready-mixed paints and varnishes. 245,244; Mar. 20. Class 16.
Baltimore Butterine Co., The, Baltimore, Md. Lard substitute. 260,869; Mar. 20. Class 46.
Bartles-Maguire Oil Company, The, Milwaukee, Wis. Gasoline, motor oil, and other lubricating oils and greases 261,095; Mar. 20. Class 15.
Beaudry Candy Company, Los Angeles, Calif. Candy. 251,025; Mar. 20. Class 46.
Beaver Valley Milling Company, Des Moines, Iowa. Wheat flour. 242,652; Mar. 20. Class 46.
Beker & Friedman, Inc., Brooklyn, N. Y. Boots and shoes. 258,397; Mar. 20. Class 39.
Bennett-Watts-Haywood Co., La Fayette, Ind. Periodical. 260,254; Mar. 20. Class 38.
Berkman, Felix T., New York, N. Y. Cough mixture. 259,990; Mar. 20. Class 6.
Blinker Toy Co., The. (See Evelyn, Harry C.)
Bradshaw, Frank F., doing business as Florida Liquid Glue Company, Marianna, Fla. Liquid glue. 260,210; Mar. 20. Class 5.
Breen Stone & Marble Company, Kasota, Minn. Blocks of stone sawed and polished and finished blocks of material sold as marble. 258,010; Mar. 20. Class 12.
Brownstein-Louis Company, Los Angeles, Calif. Shirts. 260,314; Mar. 20. Class 39.
Burt, John U., Inc., New York, N. Y. Parasols and umbrellas. 259,993; Mar. 20. Class 41.
California Supply Company, San Francisco, Calif. Tomato catsup, sauces, mincemeat, etc. 227,055; Mar. 20. Class 46.
Cambridge Supply Company. (See de Marco, Frank.)
Canoga Citrus Association, Owensmouth, Calif. Oranges, lemons, and grapefruit. 251,947; Mar. 20. Class 46.
Cedar Grove Shoe Mfg. Co., Cedar Grove, Wis. Shoes. 260,935; Mar. 20. Class 39.
Celanese Corporation of America, New York, N. Y. Sheets and foils containing organic derivatives of cellulose. 260,046–7; Mar. 20. Class 1.
Celanese Corporation of America, New York, N. Y. Neckwear. 260,319; Mar. 20. Class 39.
Celanese Corporation of America, New York, N. Y. Textile fabrics. 261,167–70; Mar. 20. Class 42.
Celanese Corporation of America, New York, N. Y. Textile fabrics. 261,174–9; Mar. 20. Class 42.
Celite Products Company, Los Angeles, Calif. Hydrated amorphous silica. 257,525; Mar. 20. Class 1.
Chadwick, Pink, Altus, Okla. Medicine for pyorrhea. 237,065; Mar. 20. Class 6.
Champion Table Co. (See Jones, C. H.)
Charpure Company, The. (See Allen, George B.)
Chase Mfg. Co., St. Louis, Mo. Electric steam vulcanizers. 260,489; Mar. 20. Class 21.
Cherokee Brick Company, Macon, Ga. Building brick. 259,532; Mar. 20. Class 12.
Coal Hill Mining Company, Inc., Dubois, Pa. Coal. 259,997; Mar. 20. Class 1.
Cobro Products Company, New York, N. Y. Cleaning fluids. 258,402; Mar. 20. Class 4.
Colonial Pen Company, The. (See National Novelty Company.)
Commercial Novelty Fire Works Mfg. Co., Willow Street, Pa. Torpedoes and flash salutes. 257,051; Mar. 20. Class 9.
Congoleum-Nairn, Inc., Philadelphia, Pa. Prepared floor coverings. 261,351; Mar. 20. Class 20.
Congoleum-Nairn, Inc., Philadelphia, Pa. Prepared floor coverings. 261,353–4; Mar. 20. Class 20.
Costa, J. T., & Co. (See Trentacoste, John.)
Crawford, George H., Washington, D. C. Pocketbooks and garter bags. 256,563; Mar. 20. Class 3.
Crawford, W. F., Company, Waco, Tex. Stockmen's textile bed sheets. 256,452; Mar. 20. Class 42.
Crawford, W. F., Company, Waco, Tex. Tents, tarpaulins, and wagon covers. 256,453; Mar. 20. Class 50.
Damerel-Allison Co., Covina, Calif. Oranges. 252,191; Mar. 20. Class 46.
Daroff, Harry, & Sons, Philadelphia, Pa. Outer suits for men and boys. 260,216; Mar. 20. Class 39.
De Marco, Frank, doing business as Cambridge Supply Company, Cambridge, Mass. Malt syrup. 245,427; Mar. 20. Class 46.
Diffenbacher, Mark M., doing business as Markeen Pen and Pencil Guard Co., San Francisco, Calif. Guards for pens and pencils. 260,105; Mar. 20. Class 37.
Dinjian, Geo. L., Fresno, Calif. Fresh fruits, vegetables, and melons. 254,268; Mar. 20. Class 46.
Dostal, John M., doing business as Dostal Products Company, Bucyrus, Ohio. Maltless beverages and sirups for making the same. 261,244; Mar. 20. Class 45.
Douglas, W. L., Shoe Co., Brockton, Mass. Boots and shoes. 254,777; Mar. 20. Class 39.
Duplex Electric Co., New York, N. Y. Electric protection and burglar-alarm systems and parts thereof. 260,005; Mar. 20. Class 21.
Eaton, Horace M., Lynn, Mass. Unbleached and undyed textile fabrics of cotton coated with an adhesive. 257,405; Mar. 20. Class 50.
Eavenson, J., & Sons, Incorporated, Philadelphia, Pa. Soap. 260,495; Mar. 20. Class 4.
Eden Washer Corporation, New York, N. Y. Clothes washers. 255,496–7; Mar. 20. Class 24.
El Camino Citrus Association, Claremont, Calif. Oranges, lemons, and grapefruit. 260,480–1; Mar. 20. Class 46.
Ely & Walker Dry Goods Company, St. Louis, Mo. Underwear. 248,891; Mar. 20. Class 39.
Evelyn, Harry C., doing business as The Blinker Toy Co., Chicago, Ill. Toys. 259,848; Mar. 20. Class 22.
Faye, Betty, Co., New Haven, Conn. Astringents, bleach creams, skin lotions, etc. 259,939; Mar. 20. Class 6.
Fidelity Laundry Machinery & Engineering Company, Minneapolis, Minn. Garment presses. 258,900; Mar. 20. Class 24.
Firestone-Apsley Rubber Company, Hudson, Mass. Boots and shoes. 231,912; Mar. 20. Class 39.
Fisk Rubber Company, The, Chicopee Falls, Mass. Pneumatic tires and tubes made wholly or partly of rubber. 260,680; Mar. 20. Class 35.
Fitler, Edwin H., Company, The, Philadelphia, Pa. Manila rope cable. 259,903; Mar. 20. Class 7.
Florida Liquid Glue Company. (See Bradshaw, Frank F.)
Fluegelman, N., & Co., Inc., New York, N. Y. Silk, cotton, etc., piece goods. 261,499; Mar. 20. Class 42.
Flying Publishing Company, The, New York, N. Y. Magazine. 260,565; Mar. 20. Class 38.
Foster & Reynolds Co., The, New York, N. Y. Guidebooks. 260,885–6; Mar. 20. Class 38.
Fox Company. (See Newton, Carl D.)

PUBLISHED FOR OPPOSITION.

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Fox, Sam, Pub. Co., Cleveland, Ohio. Musical composition. 258,998; Mar. 20. Class 38.
French Battery Company, Madison, Wis. Dry cells for electric batteries, etc. 255,748; Mar. 20. Class 21.
Gertenrich, Louis W., doing business as Lou Gertenrich Candy Company, Chicago, Ill. Candy. 261,252; Mar. 20. Class 46.
Glassman, Maurice H., Boston, Mass. Liquid dry cleaner. 260,442; Mar. 20. Class 4.
Goodlow Corporation, New York, N. Y. Men's and boys' hats and caps. 255,172; Mar. 20. Class 39.
Griffith-Durney Co., San Francisco, Calif. Canned fruits, vegetables, and fish. 259,401–2; Mar. 20. Class 46.
Hagerstown Shoe and Legging Co., The, Hagerstown, Md. Boots and shoes. 259,057; Mar. 20. Class 39.
Hauselmann-Johnson Company, Cincinnati, Ohio. Silks. 260,225; Mar. 20. Class 42.
Hansen, O. C., Mfg. Co., Milwaukee, Wis. Leather gloves. 261,056; Mar. 20. Class 39.
Harrower Laboratory, Inc., The, Wilmington, Del., and Glendale, Calif. Medicinal preparation. 259,907; Mar. 20. Class 6.
Heller, B., & Company, Chicago, Ill. Metal polishes. 243,492; Mar. 20. Class 4.
Hewes & Potter, Inc., Boston, Mass. Belts for outer wear. 259,174; Mar. 20. Class 39.
Heywood Boot & Shoe Company, Worcester, Mass. Boots and shoes. 259,853; Mar. 20. Class 39.
Holtite Mfg. Company, The, Baltimore, Md. 260,731; Mar. 20. Class 39.
"Hot-Cat Manufacturing Co." (See Smith, Joseph L.)
Housh Company, Inc., The, Boston, Mass. Albums. 261,059; Mar. 20. Class 37.
Huke, William, doing business as William Huke & Company, Boston, Mass. Publication. 255,512; Mar. 20. Class 38.
Hydraulic Development Company, Boston, Mass. Pipe-joint compound. 259,362; Mar. 20. Class 12.
Infants Underwear Corporation, New York, N. Y. Textile diapers. 260,570; Mar. 20. Class 42.
Jeddo-Highland Coal Company, Jeddo, Pa. Coal. 251,558; Mar. 20. Class 1.
Jones, C. H., doing business as Champion Table Co., Davenport, Iowa. Chiropractic adjusting tables. 259,630; Mar. 20. Class 44.
Keeler, Ralph W., doing business as The Physical-Religious Forum, New York, N. Y. Magazine. 258,471; Mar. 20. Class 38.
Kelley, D. N., & Son, Fairhaven, Mass. Outboard-motor boats. 253,897; Mar. 20. Class 19.
Kieffer Paper Mills, Brownstone, Ind. Indented packing paper. 260,508; Mar. 20. Class 37.
Kleffman, John, doing business as Kleffman Lock Snare Co., Hibbing, Minn. Snares. 260,179; Mar. 20. Class 50.
Kleman, John J., doing business as J. J. Kleman & Sons, Windber, Pa. Preparation for coughs, colds, etc. 256,525; Mar. 20. Class 6.
Kokomo Sanitary Pottery Company, Kokomo, Ind. Closet bowls and tanks and lavatories. 260,228; Mar. 20. Class 13.
Krone-Jacobson, Inc., New York, N. Y. Silk ties and mufflers. 259,564; Mar. 20. Class 39.
La Penna, Charles, New York, N. Y. Clothes for men. 258,230; Mar. 20. Class 39.
Lavo Company of America, Milwaukee, Wis. Cleaning powder for dishwashing, etc. 258,876; Mar. 20. Class 4.
Levine Leather Company Limited, Toronto, Ontario, Canada. Heels and soles for boots and shoes. 259,365; Mar. 20. Class 39.
Lincoln Oil and Paint Company, The, Cleveland, Ohio. Ready-mixed paints, varnishes, roof or surface coatings and preservers in the nature of paints, and paint pigments. 259,772; Mar. 20. Class 16.
Linehan Corset Company, Worcester, Mass. Corsets and girdles. 253,378; Mar. 20. Class 39.
Long, William R., St. Louis, Mo. Wall coating. 257,882; Mar. 20. Class 12.
Lustig, Elias, & Bros., New York, N. Y. Men's hats. 260,948–50; Mar. 20. Class 39.
M & M Knitting Mills, Inc., Philadelphia, Pa. Bathing suits and sweater coats. 260,062; Mar. 20. Class 39.
M & M Knitting Mills, Inc., Philadelphia, Pa. Bathing suits. 260,063; Mar. 20. Class 39.
Magen, Morris, Philadelphia, Pa. Furnaces, tank heaters, gas ranges, and parts thereof. 259,451; Mar. 20. Class 34.
Markeen Pen and Pencil Guard Co. (See Diffenbacher, Mark M.)
Marlowe, Julius F., doing business as J. F. Marlowe and Company, Memphis, Tenn. Coal. 258,339; Mar. 20. Class 1.
Marmet, Limited, New York, N. Y. Perambulators and gocarts. 224,030–1; Mar. 20. Class 19.
Maxwell-Burke, Incorporated, Chicago, Ill. Combined container and dispenser for dry groceries. 257,884; Mar. 20. Class 32.
Meadolake Milk Products Company, Sherman, Tex. Butter. 261,272; Mar. 20. Class 46.

Mecca Growers Association, Thermal, Calif. Fresh grapes. 235,159; Mar. 20. Class 46.
McKey Mfg. Co., The, Fort Scott, Kans. Overalls. 260,649; Mar. 20. Class 39.
National Novelty Company, doing business as The Colonial Pen Company, Minneapolis, Minn. Fountain pens and pencils. 258,531–2; Mar. 20. Class 37.
National Novelty Company, doing business as The Colonial Pen Company, Minneapolis, Minn. Fountain pens and pencils. 258,534; Mar. 20. Class 37.
National Novelty Company, doing business as The Colonial Pen Company, Minneapolis, Minn. Fountain pens and pencils. 259,015; Mar. 20. Class 37.
Nettleton, A. E., Company, Syracuse, N. Y. Gentlemen's shoes. 206,429; Mar. 20. Class 39.
Newton, Carl D., doing business as Fox Company, San Antonio, Tex. Hosiery, underwear, hats, dresses, etc. 255,304; Mar. 20. Class 39.
N. Y. Rayon Importing Co., Inc., New York, N. Y. Rayon yarns and threads. 258,881–4; Mar. 20. Class 43.
N. Y. Rayon Importing Co., Inc., New York, N. Y. Rayon yarns and threads. 259,250; Mar. 20. Class 43.
Nielsen Laboratories, Inc., Elyria, Ohio. Tonic food made from lactic-milk cultures. 258,483; Mar. 20. Class 46.
Nuckolls Packing Company, The, Pueblo, Colo. Hams, bacon, sliced bacon, and cooked hams. 254,933; Mar. 20. Class 46.
Old Ben Coal Corporation, Chicago, Ill. Coal. 259,867; Mar. 20. Class 1.
Overbrook Carpet Mills, Inc., Philadelphia, Pa. Textile carpets. 261,449; Mar. 20. Class 42.
Pabst Corporation, Milwaukee, Wis. Malt syrup. 260,349; Mar. 20. Class 46.
Paragraving Press, Inc., New York, N. Y. Invitations, announcement and greeting cards. 259,691; Mar. 20. Class 38.
Penney, J. C., Company, Wilmington, Del. Fountain pens, penholders, and pen points. 258,953; Mar. 20. Class 37.
Physical-Religious Forum, The. (See Keeler, Ralph W.)
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 238,871; Mar. 20. Class 46.
Pon Honor, Inc., Oakland, Calif. Eggs, butter, and ice cream. 240,732; Mar. 20. Class 46.
Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candy eggs. 261,143; Mar. 20. Class 46.
Quinby & Wallace, Morris, N. Y. Chocolates, bonbons, and chocolate-coated candy. 260,142; Mar. 20. Class 46.
Rainyday Club, The, New York, N. Y. Buttons, pins, and insignia made of gold, silver, and/or combinations thereof. 257,937; Mar. 20. Class 28.
Rapid Safety Cutter Co., Inc., New York, N. Y. Bread and roll cutting machines. 259,423; Mar. 20. Class 23.
Red Sun Products Company, Chicago, Ill. Malt syrup. 259,640; Mar. 20. Class 46.
Relay Motors Corporation, Lima, Ohio. Motor vehicles. 259,875; Mar. 20. Class 19.
Rhode Island Textile Company, Pawtucket, R. I. Braids and narrow webs, hat elastics, etc. 255,353; Mar. 20. Class 40.
Richey, Frank H., doing business as Richey & Gibilisco, San Francisco and Merced, Calif. Fresh grapes. 261,146; Mar. 20. Class 46.
Roberts Specialty Manufacturing Company, Inc., The, Boston, Mass. Bottle cap and combined bottle stopper and opener. 260,352; Mar. 20. Class 50.
Rosenblatt, Manfred, Frankfort-on-the-Main, Germany. Metal belt fastener. 260,100; Mar. 20. Class 13.
Rudy-Patrick Seed Company, Kansas City, Mo. Seeds. 258,194; Mar. 20. Class 1.
Sarah Ellen Candy Shops, Inc., Reading, Pa. Candy. 258,768; Mar. 20. Class 46.
Save-All Pie Plate Co., Inc., New York, N. Y. Pie plates made of glass. 260,533; Mar. 20. Class 33.
Schmidt, Robert W., Chicago, Ill. Window-cleaning implements. 250,864; Mar. 20. Class 29.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Heel liners for slippers or pumps. 260,472; Mar. 20. Class 39.
Schramm & Schmieg Company, Burlington, Iowa. Work clothes. 257,037; Mar. 20. Class 39.
Schreiber, A. H., Co., New York, N. Y. Women's and children's underwear and night wear. 256,977; Mar. 20. Class 39.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 260,757–8; Mar. 20. Class 39.
Shelby Gum Co., The, Shelby, Ohio. Chewing gum. 256,337; Mar. 20. Class 46.
Shields and Cameron, Los Angeles, Calif. Showers. 256,978; Mar. 20. Class 13.
Sigler, Irvin L., Pittsburgh, Pa. Sales-discount certificates. 261,078; Mar. 20. Class 13.
Sigma Tau, Ames, Iowa. Publication. 259,598; Mar. 20. Class 38.
Smith, Joseph L., doing business as "Hot-Cat Manufacturing Co.," Youngstown, Ohio. Prepared meats consisting of mixed meats ground and seasoned ready for cooking. 258,915; Mar. 20. Class 46.

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Sohmer, Harry J., doing business as Sohmer & Company, New York, N. Y. Pianos. 259,053; Mar. 20. Class 36.
Steellastic Company, Long Beach, Calif. Hose supporters, suspenders, sleeve bands, etc. 249,550; Mar. 20. Class 39.
Sterling Company, The, Chicago, Ill. Ladies' dresses and aprons. 260,148; Mar. 20. Class 39.
Stites, Edlin & Smith, Inc., New York, N. Y. Finger rings, brooches, and scarfpins. 260,858; Mar. 20. Class 28.
Strohmeyer & Arpe Co., New York, N. Y. Canned peas and canned sardines. 256,981; Mar. 20. Class 46.
Sun Oil Company, Philadelphia, Pa. Lubricating oil. 260,762–3; Mar. 20. Class 15.
Sun Oil Company, Philadelphia, Pa. Lubricating oil. 260,765–9; Mar. 20. Class 15.
Sun Oil Company, Philadelphia, Pa. Lubricating oil. 260,771–9; Mar. 20. Class 15.
Tapajna-Gary Paper Company, Gary, Ind. Toilet paper. 247,298; Mar. 20. Class 37.
"Tara-Blend" Tea Importing Co. Inc., The, New York, N. Y. Tea. 260,598; Mar. 20. Class 46.
Tebbetts & Garland Store, The, Chicago, Ill. Mint whips, chocolate creams, pimento, etc. 253,249; Mar. 20. Class 46.
Thurston, Carl H. P., Pasadena, Calif. Pottery and decorated earthenware. 259,657; Mar. 20. Class 30.
Titusville Iron Works Company, The, Titusville, Pa. Ferrous-metal castings, stampings, and forgings. 252,533; Mar. 20. Class 14.
Trentacoste, John, doing business as J. T. Costa & Co., Oakland, Calif. Tamales, mushroom sauce, etc. 235,325; Mar. 20. Class 46.
Tropical Garment Manufacturing Company, Tampa, Fla. Shirts and underwear. 259,187; Mar. 20. Class 39.
Ukiah Fruit Growers, Inc., Ukiah, Calif. Fresh pears in their natural state. 253,120; Mar. 20. Class 46.
United States Rubber Company, New Brunswick, N. J. Wearing apparel. 260,038; Mar. 20. Class 39.
Virginia Shoe Co., Fredericksburg, Va. Shoe soles. 259,380; Mar. 20. Class 39.
Warwood Tool Company, Piston Ring Department, Baltimore, Md. Piston rings. 242,639–40; Mar. 20. Class 35.
West Virginia Southern Coal Company, Huntington, W. Va. Coal. 260,203; Mar. 20. Class 1.
Western Pacific Paint Corporation, Los Angeles, Calif. Oil paints for use on the exterior and interior of buildings. 260,865; Mar. 20. Class 16.
Wheeling Steel Corporation, Wheeling, W. Va. Steel and tin mill sheets and steel plates. 256,598; Mar. 20. Class 14.
White Sewing Machine Corporation, Cleveland, Ohio. Sewing machines. 261,418; Mar. 20. Class 28.
Wisner, George, Clichy, France. Lubricating oils and greases. 249,560; Mar. 20. Class 15.
Wright, John H., New York, N. Y. Magazine. 261,028; Mar. 20. Class 38.
Zesinger, William R., South Bend, Ind. Portable tracks. 259,269; Mar. 20. Class 23.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Cabin Creek Consolidated Coal Company. 70,046; renewed July 28, 1928.
Coal. Campbell's Creek Coal Co. 70,045; renewed July 28, 1928.
Coal. Old Ben Coal Corporation. 240,328; Mar. 20.
Leather, Hat and cap. Harris and Tipograph, Inc. 240,315; Mar. 20.

CLASS 2.

Cans, Fiber. Sefton National Fibre Can Co. 240,241; Mar. 20; Serial No. 257,638; published Jan. 17, 1928.
Vanities, base-metal compact cases, etc., Empty base-metal. Majestic Metal Specialties, Inc. 240,299; Mar. 20; Serial No. 256,950; published Jan. 17, 1928.

CLASS 3.

Bags, Hand. Belber Trunk & Bag Company. 240,245; Mar. 20; Serial No. 222,494; published Jan. 10, 1928.

CLASS 4.

Polish, Metal. Reckitt & Sons, Limited. 68,712; renewed Apr. 28, 1928.
Soap. Barclay & Barclay. 69,175; renewed May 26, 1928.
Soap. Chemische Werke Hansa Gesellschaft mit beschränkter Haftung. 68,043; renewed Mar. 3, 1928.

CLASS 5.

Photographic instruments and supplies. Eastman Kodak Company. 68,635; renewed Apr. 21, 1928.

CLASS 6.

Alcohol rubbing compounds. J. L. Lombardo. 240,129; Mar. 20; Serial No. 257,174; published Jan. 10, 1928.
Antiseptic and germicide. W. A. Bruette. 240,095; Mar. 20; Serial No. 257,522; published Jan. 10, 1928.
Antiseptics. Barnes & Hille. 69,328; renewed June 9, 1928.
Aseptic water-soluble preparation. University Laboratories, Inc. 240,041; Mar. 20; Serial No. 256,317; published Jan. 3, 1928.
Astringents, beauty creams, rouges, etc. Boyd Manufacturing Company. 240,185; Mar. 20; Serial No. 251,047; published Jan. 10, 1928.
Bismuth preparation. I. G. Farbenindustrie Aktiengesellschaft. 240,069; Mar. 20; Serial No. 258,217; published Jan. 10, 1928.
Capsules. J. R. Watkins Company. 240,175; Mar. 20; Serial No. 252,630; published Jan. 10, 1928.
Chemical fire-extinguishing apparatus. American-La France Fire Engine Co. 69,796; renewed July 7, 1928.
Chemical solutions, compounds, and preparations. Eastman Kodak Company. 68,515; renewed Apr. 14, 1928.
Chemicals. Badische Anilin & Soda Fabrik. 67,964; renewed Mar. 3, 1928.
Chemicals in liquid form used in dyeing operations. Nyanza Color & Chemical Co. Inc. 240,201; Mar. 20; Serial No. 257,932; published Jan. 10, 1928.
Chemicals. Inorganic. Solvay Process Company. 240,070; Mar. 20; Serial No. 258,197; published Jan. 10, 1928.
Coal-tar derivatives. Pennsylvania Coal Products Company. 240,202; Mar. 20; Serial No. 258,095; published Jan. 10, 1928.
Composition for removing tarvia, asphalt, and oils from automobiles and painted surfaces. M. P. Kleinhans. 240,099; Mar. 20; Serial No. 257,421; published Jan. 10, 1928.
Compound for cleaning waste pipes. Holmerden Co. 240,166; Mar. 20; Serial No. 257,235; published Jan. 10, 1928.
Compound for treating hay fever. W. F. Brockett. 240,056; Mar. 20; Serial No. 258,456; published Jan. 10, 1928.
Cream, astringent, night cream, and face powder, Liquid cold. G. B. Lacoste. 240,098; Mar. 20; Serial No. 257,422; published Jan. 10, 1928.
Deodorant. Spic Laboratories, Inc. 240,073; Mar. 20; Serial No. 258,002; published Jan. 10, 1928.
Deodorants and germicides. Associated Chemists, Inc. 240,194; Mar. 20; Serial No. 257,501; published Jan. 10, 1928.
Depilatory. House of Tre-Jur, Inc. 240,081; Mar. 20; Serial No. 257,983; published Jan. 10, 1928.
Disinfectant, deodorant, germicide, and antiseptic. A. R. Maas. 240,206; Mar. 20; Serial No. 248,309; published Dec. 27, 1927.
Disinfectants. Globe Laboratories. 240,085; Mar. 20; Serial No. 257,867; published Jan. 10, 1928.
Dyestuffs. Badische Anilin & Soda Fabrik. 67,965; renewed Mar. 3, 1928.
Ergot, Derivative or substitute for. E. Merck. 68,111; renewed Mar. 10, 1928.
Hairdressing preparations. A. J. Krank. 240,808; Mar. 20.
Hair restorer. M. M. Blau. 240,127; Mar. 20; Serial No. 257,220; published Jan. 10, 1928.
Hair-waving solutions, brilliantine, and hair-setting solution. Townsend Manufacturing Company. 240,083; Mar. 20; Serial No. 257,906; published Jan. 10, 1928.
Insecticides. Quaker Oil Products Corporation. 240,088; Mar. 20; Serial No. 257,746; published Jan. 10, 1928.
Laxative preparations. H. Lemler. 240,084; Mar. 20; Serial No. 257,879; published Jan. 10, 1928.
Laxative water, Carbonated orange-flavored. C. A. Meyerowich. 240,036; Mar. 20; Serial No. 256,877; published Jan. 10, 1928.
Liniment. A. Striker. 240,718; Mar. 20; Serial No. 243,893; published Jan. 10, 1928.
Medical compounds for treating venereal diseases, cancer, etc. H. G. Harley. 240,089; Mar. 20; Serial No. 257,675; published Jan. 10, 1928.
Medicated preparation for the hair, scalp, and skin. Barclay & Barclay. 69,380; renewed June 9, 1928.
Medicated tablets for relief of pain. Pain Chex Co. of America. 240,314; Mar. 20.
Medicinal, antiseptic, and deodorant compound, tooth powder, etc. Lambert Pharmacal Company. 240,162; Mar. 20; Serial No. 257,070; published Jan. 10, 1928.

Medicinal compound for the treatment of indigestion, etc. Parke, Davis & Company. 240,199; Mar. 20; Serial No. 257,742; published Jan. 10, 1928.
Medicinal preparation. Bisodol Co. Inc. 240,086; Mar. 20; Serial No. 257,838; published Jan. 10, 1928.
Medicinal preparation. P. V. Chemical Co. 240,110; Mar. 20; Serial No. 255,869; published Jan. 10, 1928.
Medicinal preparations. La Regina Products Company. 240,182; Mar. 20; Serial No. 251,622; published Jan. 10, 1928.
Medicinal tablets. E. G. Dowsley. 240,176; Mar. 20; Serial No. 252,242; published Jan. 10, 1928.
Medicine. I. Crenshaw. 240,141; Mar. 20; Serial No. 241,329; published Jan. 10, 1928.
Medicine. H. Planten & Son Inc. 240,093; Mar. 20; Serial No. 257,559; published Jan. 10, 1928.
Medicine, Eye. M. Kneiling. 240,034; Mar. 20; Serial No. 256,826; published Jan. 10, 1928.
Medicines. I. G. Farbenindustrie Aktiengesellschaft. 240,067; Mar. 20; Serial No. 258,223; published Jan. 10, 1928.
Medicines and toilet preparations. Bokschizky and Rotkowitz. 68,238; renewed Mar. 17, 1928.
Mouth washes, powders, and pastes used as dentifrices. K. A. Lingner. 70,021; renewed July 21, 1928.
Oil, Muscle. H. S. Barkley. 240,037; Mar. 20; Serial No. 256,898; published Jan. 10, 1928.
Pastes, powders, etc. E. Daltroff & Cie. 240,071; Mar. 20; Serial No. 258,167; published Jan. 10, 1928.
Perfume extract, toilet water, powders, etc. La Valliere Company. 240,823; Mar. 20.
Perfume, toilet water, cold cream, vanishing cream, etc. A. J. Hilbert & Co. 240,097; Mar. 20; Serial No. 257,627; published Jan. 10, 1928.
Perfumery and face tints. E. Wertheimer & Cie. 69,142; renewed May 19, 1928.
Perfumes. C. Roditi. 240,807; Mar. 20.
Perfumes and face creams. F. Procháska Ltd. 240,154; Mar. 20; Serial No. 235,070; published Jan. 10, 1928.
Perfumes and hygienic products. Henri Bendel Inc. 240,057–9; Mar. 20; Serial Nos. 258,451–3; published Jan. 10, 1928.
Perfumes, toilet water, face powder, etc. Cheramy, Inc. 240,112; Mar. 20; Serial No. 255,838; published Jan. 10, 1928.
Phosphorus compound, Organic. I. G. Farbenindustrie Aktiengesellschaft. 240,068; Mar. 20; Serial No. 258,219; published Jan. 10, 1928.
Pills. Barclay & Barclay. 69,488; renewed June 16, 1928.
Pipes. A Jay Pipe Corp. 240,174; Mar. 20; Serial No. 257,549; published Jan. 10, 1928.
Plasters, Adhesive. Magic Foot Draft Co. 70,109; renewed July 28, 1928.
Powder, Toilet. E. Wertheimer & Cie. 69,144; renewed May 19, 1928.
Preparation for cleaning automobile radiators and motors. Afco Products Co. 240,169; Mar. 20; Serial No. 257,265; published Jan. 10, 1928.
Preparation, Liquid. V. A. Pompilio. 240,128; Mar. 20; Serial No. 257,195; published Jan. 10, 1928.
Preparations for inhaling. A. Brackmann. 240,046; Mar. 20; Serial No. 254,540; published Jan. 10, 1928.
Radiator stop leak. Black Duck Products, Inc. 240,074; Mar. 20; Serial No. 256,901; published Jan. 10, 1928.
Remedies. A. Fortier. 68,610; renewed Apr. 21, 1928.
Remedy for asthma, bronchitis, and catarrh. S. Kutnow & Co. 30,754; renewed Oct. 26, 1927.
Remedy for urinary diseases, Internal. Actien-Gesellschaft für Anilin-Fabrikation. 67,963; renewed Mar. 3, 1928.
Remedy, Headache, neuralgia, and nervous affections. J. K. Brown. 240,164; Mar. 20; Serial No. 257,221; published Jan. 10, 1928.
Repellants and insecticides, Rodent. H. T. Bottrell. 240,082; Mar. 20; Serial No. 257,963; published Jan. 10, 1928.
Resin, Synthetic. General Electric Company. 240,134; Mar. 20; Serial No. 256,867; published Jan. 3, 1928.
Rubber vulcanization, Accelerators for. Grasselli Chemical Company. 240,204; Mar. 20; Serial No. 258,264; published Jan. 10, 1928.
Salve. L. M. Magruder. 240,203; Mar. 20; Serial No. 258,131; published Jan. 10, 1928.
Sedative, Antispasmodic hypnotic. Associated Chemists, Inc. 240,121; Mar. 20; Serial No. 257,499; published Jan. 10, 1928.
Solution for cleaning false teeth. Meltzit Chemical Company. 240,012; Mar. 20; Serial No. 258,038; published Jan. 10, 1928.
Stomach elixir, Aromatic. Th. Lappe. 240,219; Mar. 20; Serial No. 243,003; published Jan. 10, 1928.
Sugar-caramel color. Wallerstein Company. 240,221; Mar. 20; Serial No. 242,824; published Jan. 10, 1928.
Toilet preparations. A. B. Vanderbeek. 240,140; Mar. 20; Serial No. 255,883; published Jan. 10, 1928.
Toilet preparations and medicines. Barclay & Barclay. 69,798; renewed July 7, 1928.
Tonic and tissue builder, Nutritive. W. A. Bruette. 240,094; Mar. 20; Serial No. 257,528; published Jan. 10, 1928.
Tonic, Liquid. Associated Chemists, Inc. 240,195; Mar. 20; Serial No. 257,502; published Jan. 10, 1928.
Tonics. Barnes & Hille. 69,377; renewed June 9, 1928.
Ultramarine Blue. Vereinigte Ultramarinfabriken Aktien-Gesellschaft vormals Leverkus, Zeltner & Consorten. 68,080; renewed Mar. 3, 1928.
Waterproofing liquid. Canvas Proofing & Striping Company. 240,055; Mar. 20; Serial No. 258,460; published Jan. 10, 1928.

CLASS 10.

Fertilizer. United States Guano Co. Inc. 240,272; Mar. 20; Serial No. 255,410; published Jan. 17, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 67,408–9; renewed Feb. 4, 1928.
Fertilizers. Virginian-Carolina Chemical Company. 67,682; renewed Feb. 11, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 68,321; renewed Mar. 31, 1928.
Fertilizers. Virginia-Carolina Chemical Company. 69,246; renewed May 26, 1928.
Fertilizers. Virginian-Carolina Chemical Company. 69,298; renewed June 2, 1928.
Lime for agricultural use, Hydrated. Chemical Lime Company. 240,254; Mar. 20; Serial No. 242,984; published Jan. 17, 1928.

CLASS 11.

Finger-printing apparatus. Waggener Finger Print Corporation. 240,158; Mar. 20; Serial No 221,677; published Jan. 10, 1928.

CLASS 12.

Brick. Acme Brick Company. 240,311; Mar. 20.
Brick. Acme Brick Company. 240,318; Mar. 20.
Lime. Luckey Lime & Supply Co. 240,317; Mar. 20.
Roofing, shingles, etc., Asphalt. Lehon Company. 240,300; Mar. 20.
Stone, Artificial. W. T. Fels. 240,119; Mar. 20; Serial No. 253,496; published Dec. 6, 1927.
Stuccos and plaster wall finishes. Spickelmier Fuel & Supply Co. 240,324; Mar. 20.

CLASS 13.

Bathroom fixtures. Utility Manufacturing Company. 240,275; Mar. 20; Serial No. 255,582; published Jan. 17, 1928.
Bolts and cap screws. Foster Bolt & Nut Manufacturing Company. 240,078; Mar. 20; Serial No. 256,927; published Jan. 10, 1928.
Metal manufactures. Gillette-Vibber Company. 67,868; renewed Feb. 25, 1928.
Strainers, Liquid. Buffalo Meter Company. 240,325; Mar. 20.
Trays, percolators, etc., Butlers' serving. Robeson Rochester Corporation. 240,252; Mar. 20; Serial No. 238,618; published Jan. 17, 1928.

CLASS 14.

Iron bars. Old Dominion Iron & Steel Works. 240,312; Mar. 20.
Lead and alloys used for bearing and packing metals, etc. Bearium Bearings, Inc. 240,220; Mar. 20; Serial No. 242,810; published Jan. 10, 1928.
Metal plates and sheets. American Sheet and Tin Plate Company. 68,758; renewed Apr. 28, 1928.
Metal, Sheet. Herrick Company. 240,118; Mar. 20; Serial No. 254,672; published Jan. 10, 1928.

CLASS 15.

Gasoline. Hearn Oil Company. 240,031; Mar. 20; Serial No. 254,849; published Jan. 3, 1928.
Gasoline and lubricating oils. Looboyle Refining Company. 240,018; Mar. 20; Serial No. 257,176; published Jan. 10, 1928.
Greases for lubricating purposes. S. H. Ruskin. 240,186; Mar. 20; Serial No. 250,863; published Jan. 10, 1928.
Lubricants containing graphite. Acheson Olidag Company. 240,027; Mar. 20; Serial No. 255,890; published Jan. 3, 1928.
Oil, Lubricating. Fiske Brothers Refining Co. 69,883; renewed July 14, 1928.
Oil, Reel. Enterprise Manufacturing Company. 240,145; Mar. 20; Serial No. 239,616; published Jan. 10, 1928.
Oil used as an insulator and waterproofing in electric cables, Mineral. R. T. Vanderbilt Company. 240,101; Mar. 20; Serial No. 257,516; published Jan. 10, 1928.
Oils and greases, Lubricating. R. H. Blackburn. 240,100; Mar. 20; Serial No. 257,781; published Jan. 10, 1928.
Oils and greases, Lubricating. Cook & Cokefair. 68,302; renewed Mar. 24, 1928.
Oils and lubricants, Lubricating. Chemische Werke Hansa Gesellschaft mit beschränkter Haftung. 68,059; renewed Mar. 8, 1928.
Oils, Lubricating. Bodie-Hoover Petroleum Corporation. 240,320; Mar. 20.
Oils, Lubricating. Mid-West Oil Company. 240,103; Mar. 20; Serial No. 257,245; published Jan. 10, 1928.
Oils, Lubricating. Roberts-Reitze Oil Corporation. 240,177; Mar. 20; Serial No. 252,220; published Jan. 3, 1928.
Petroleum products. Edington Gasoline & Refining Company. 240,322; Mar. 20.
Petroleum products. Texas Company. 240,032; Mar. 20; Serial No. 254,520; published Jan. 10, 1928.

CLASS 16.

Enamel. G. H. Baker. 69,436; renewed June 16, 1928.
Oil and water colors, School and artists'. Pohlmeyer, Inc. 240,130; Mar. 20; Serial No. 257,118; published Jan. 10, 1928.
Paint. Chas. R. Long, Jr. Co. 70,215; renewed Aug. 11, 1928.
Paint, lacquer, varnish, and enamel paints. W. P. Fuller & Co. 240,107; Mar. 20; Serial No. 256,113; published Jan. 3, 1928.
Paint, lacquer, varnish, and enamel paints, Ready-mixed. W. P. Fuller & Co. 240,108; Mar. 20; Serial No. 256,110; published Jan. 3, 1928.
Paint, Semipaste house. J. L. Forkner. 240,326; Mar. 20.
Paints. Norfolk Paint & Varnish Company. 240,111; Mar. 20; Serial No. 255,859; published Jan. 3, 1928.
Paints. C. A. Woolsey Paint & Color Co. 240,117; Mar. 20; Serial No. 254,881; published Jan. 3, 1928.
Paints, aeroplane and aircraft dopes, varnishes, etc. Celanese Corporation of America. 240,109; Mar. 20; Serial No. 255,962; published Jan. 10, 1928.
Paints and anticorrosive and antifouling compositions in the nature of paints. Copper Websters, Limited. 240,124; Mar. 20; Serial No. 257,259; published Jan. 10, 1928.
Paints and varnishes. Solvents for. R. E. Hughes. 240,181; Mar. 20; Serial No. 251,840; published Jan. 10, 1928.
Paints in oil, japan, and water. Wallbrunn, Kling & Co. 240,213; Mar. 20; Serial No. 245,940; published Jan. 10, 1928.
Paints, lacquer, varnish, and enamel paints. W. P. Fuller & Co. 240,106; Mar. 20; Serial No. 256,116; published Jan. 3, 1928.
Paints, varnishes, and prepared shellac. Barnet Kimler, Inc. 240,131; Mar. 20; Serial No. 257,015; published Jan. 10, 1928.
Polish, Furniture and automobile. Northwood Products Co. 240,116; Mar. 20; Serial No. 254,930; published Jan. 10, 1928.
Stains, primers, cement coating, etc., Penetrating. Elco Paint Products, Inc. 240,130; Mar. 20; Serial No. 256,285; published Jan. 3, 1928.
Varnishes and polishes. Verein für Chemische Industrie Aktiengesellschaft. 240,217; Mar. 20; Serial No. 244,481; published Jan. 3, 1928.
Varnishes, lacquers, paste and ready-mixed paints. Mantz Paint and Glass Company. 240,122; Mar. 20; Serial No. 257,427; published Jan. 3, 1928.

CLASS 17.

Cigars. C. O. Benner Cigar Co. 240,303; Mar. 20; Serial No. 257,218; published Jan. 17, 1928.
Cigars. Compania General de Tabacos de Filipinas. 240,270; Mar. 20; Serial No. 255,332; published Jan. 17, 1928.
Cigars. O. T. Hamilton. 240,228; Mar. 20; Serial No. 257,410; published Jan. 17, 1928.

CLASS 19.

Bodies for automobiles, trucks, etc., Steel. Weldmech Company. 240,240; Mar. 20; Serial No. 257,648; published Jan. 17, 1928.

CLASS 21.

Battery-charging equipment. Liberty Electric Corporation. 240,192; Mar. 20; Serial No. 249,074; published Jan. 17, 1928.
Boilers. Chicago Automatic Electric Boiler Company. 240,023; Mar. 20; Serial No. 256,450; published Jan. 10, 1928.
Electric vacuum cleaners and portable electric blowers. Clements Mfg. Co. 240,189; Mar. 20; Serial No. 250,295; published Jan. 10, 1928.
Electrical insulating compound. Mica Insulator Company. 70,012; renewed July 21, 1928.
Electrically-operated fans, pumps, vacuum cleaners, etc. Aktiebolaget Lux. 240,160; Mar. 20; Serial No. 193,980; published Jan. 10, 1928.
Electrifying apparatus. L. Levy. 240,187; Mar. 20; Serial No. 250,808; published Jan. 10, 1928.
Flash lights. Chase Companies. 240,014; Mar. 20; Serial No. 256,716; published Jan. 10, 1928.
Jars, cells, covers, etc., for storage batteries. American Hard Rubber Company. 240,025; Mar. 20; Serial No. 256,237; published Jan. 10, 1928.
Lamps for vehicles, Reflecting electric. A. Caminetti, jr. 240,178; Mar. 20; Serial No. 252,146; published Jan. 10, 1928.
Radio electron tubes. Sunlight Lamp Co. 240,028–0; Mar. 20; Serial Nos. 255,210–11; published Jan. 10, 1928.
Radio receiving sets and parts thereof. Crosley Radio Corporation. 240,019; Mar. 20; Serial No. 256,812; published Jan. 10, 1928.
Radio vacuum tubes. Diana Radio Tube Corp. 240,021; Mar. 20; Serial No. 256,615; published Jan. 10, 1928.
Sadirons, Electric. M. A. Rollman. 240,026; Mar. 20; Serial No. 255,929; published Jan. 10, 1928.
Sadirons, Electric. O. Spahr. 240,144; Mar. 20; Serial No. 240,153; published Jan. 10, 1928.
Sound-reproducing apparatus. Monmouth Products Company. 240,022; Mar. 20; Serial No. 256,576; published Jan. 10, 1928.
Vacuum tubes. Cable Supply Company. 240,020; Mar. 20; Serial No. 256,764; published Jan. 10, 1928.
Vacuum tubes, Electron. N. Henowitz. 240,033; Mar. 20; Serial No. 257,233; published Jan. 10, 1928.
Vacuum tubes, Thermionic. Hytron Corporation. 240,104; Mar. 20; Serial No. 257,236; published Jan. 10, 1928.

CLASS 22.

Fishing lines, artificial flies, fishhooks, etc., Gut. Henry Milward & Sons, Limited. 240,180; Mar. 20; Serial No. 252,055; published Jan. 3, 1928.
Fishing reels. Enterprise Manufacturing Company. 240,196; Mar. 20; Serial No. 257,621; published Jan. 3, 1928.
Games. Russell Manufacturing Company. 240,156; Mar. 20; Serial No. 233,709; published Jan. 3, 1928.
Skates, Ice. Nestor Johnson Manufacturing Company. 240,138; Mar. 20; Serial No. 256,348; published Dec. 27, 1927.
Sleds. Pollack Roller Runner Sled Co. 240,125; Mar. 20; Serial No. 257,252; published Jan. 3, 1928.
Toy airplanes, merry-go-rounds, etc., Mechanical. F. Labin. 240,214; Mar. 20; Serial No. 245,353; published Jan. 3, 1928.
Toy animals. Kenly Co. 240,126; Mar. 20; Serial No. 257,240; published Dec. 27, 1927.
Toy, Mechanical. F. Labin. 240,215; Mar. 20; Serial No. 245,352; published Jan. 3, 1928.
Toys, Mechanical. F. Labin. 240,216; Mar. 20; Serial No. 245,350; published Jan. 3, 1928.

CLASS 23.

Air compressors. Mellish Hayward Company. 240,260; Mar. 20; Serial No. 248,114; published Jan. 17, 1928.
Axe heads. Hartwell Brothers. 240,278; Mar. 20; Serial No. 255,848; published Jan. 17, 1928.
Boiler injectors and boiler feeders, Steam-. Nathan Manufacturing Co. 69,774; renewed July 7, 1928.
Bottle openers and folding corkscrews. Vaughan Novelty Mfg. Co. 240,229; Mar. 20; Serial No. 257,390; published Jan. 17, 1928.
Cutlery. D. H. Lory. 240,274; Mar. 20; Serial No. 255,521; published Jan. 17, 1928.
Fertilizer distributors and pea hullers. C. S. McCall. 240,289; Mar. 20; Serial No. 256,679; published Jan. 17, 1928.
Grinding machine, Drill. Wilmarth & Morman Co. 67,858; renewed Feb. 25, 1928.
Machinery, Power-transmission, mill, etc. Dodge manufacturing Corporation. 240,257; Mar. 20; Serial No. 245,191; published Jan. 17, 1928.
Motors, Gasoline-purifying instrumentalities for explosion. Protex-A-Motor Manufacturing Company. 240,153; Mar. 20; Serial No. 236,959; published Feb. 1, 1927.
Planters, attachments therefor, and corn planters, Potato. Potato Implement Co. 68,931; renewed May 5, 1928.
Printing machines. Addressograph Company. 70,013; renewed July 21, 1928.
Scissors. J. A. Henckels, Inc. 240,221; Mar. 20; Serial No. 257,412; published Jan. 17, 1928.
Tools and cutlery. Seattle Hardware Company. 70,002; renewed July 21, 1928.
Vending machines. T. H. Rowland. 240,302; Mar. 20; Serial No. 257,119; published Jan. 17, 1928.

CLASS 24.

Washers, tumblers, filters, etc. Butler Manufacturing Company. 240,329; Mar. 20.
Washing machines, Laundry. Barlow & Seelig Mfg. Co. 240,047; Mar. 20; Serial No. 254,990; published Jan. 10, 1928.

CLASS 25.

Catches, bolts, sash fasteners, locks, etc., Barn-door. Champion Hardware Company. 240,159; Mar. 20; Serial No. 205,392; published Mar. 1, 1927.

CLASS 26.

Cameras. E. B. Meyrowitz, Inc. 240,271; Mar. 20; Serial No. 255,388; published Jan. 17, 1928.
Films for projecting purposes. Pathe Exchange, Inc. 240,268; Mar. 20; Serial No. 255,194; published Jan. 17, 1928.
Films, Motion-picture. F B O Productions, Inc. 240,276; Mar. 20; Serial No. 255,706; published Jan. 17, 1928.
Lenses, Optical. W. W. Ferris. 240,279; Mar. 20; Serial No. 256,037; published Jan. 17, 1928.
Photograph machines or apparatuses, Automatic coin-controlled. J. Parcell. 240,730; Mar. 20; Serial No. 257,378; published Jan. 17, 1928.

CLASS 28.

Buckles, Ornamental. I. Miller & Sons, Inc. 240,024; Mar. 20; Serial No. 256,363; published Jan. 10, 1928.
Fraternity badges, lapel buttons, cuff links, etc. Sigma Alpha Epsilon Fraternity. 240,149; Mar. 20; Serial No. 239,490; published Jan. 3, 1928.
Jewelry. Wolcott Mfg. Co. 69,975; renewed July 21, 1928.

Jewelry. Wolcott Mfg. Co. 70,041; renewed July 28, 1928.
Jewelry, Manufactured. Juergens & Andersen Company. 240,017; Mar. 20; Serial No. 257,011; published Jan. 3, 1928.
Rings, Finger. N. Miller. 240,102; Mar. 20; Serial No. 257,554; published Jan. 10, 1928.
Tableware and toilet ware, Sterling-silver. J. B. Waterfield. 240,016; Mar. 20; Serial No. 256,845; published Jan. 10, 1928.

CLASS 29.

Powder puffs. Baronet Mills, Inc. 240,197; Mar. 20; Serial No. 257,656; published Jan. 10, 1928.
Toothbrushes. J. C. Penney Company. 240,200; Mar. 20; Serial No. 257,745; published Jan. 10, 1928.

CLASS 32.

Furniture cushion springs and upholstery springs. National Spring & Wire Co. 240,291; Mar. 20; Serial No. 256,739; published Jan. 17, 1928.
Pillows, comforters, and beds. Marshall Company. 240,231; Mar. 20; Serial No. 257,372; published Jan. 17, 1928.
Tables, costumers, folding chairs, etc., Card. Union Specialty Works, Inc. 240,259; Mar. 20; Serial No. 247,501; published Jan. 17, 1928.

CLASS 34.

Burners, Lamp. Wheeling Stamping Co. 60,838; renewed July 7, 1928.
Burners, Oil. National Appliances Installations, Inc. 240,212; Mar. 20; Serial No. 246,305; published Jan. 10, 1928.

CLASS 35.

Brake lining. Bendix Brake Company. 240,253; Mar. 20; Serial No. 242,077; published Jan. 17, 1928.
Packing, Rod and piston. Charleston Metallic Packing Co. 69,196; renewed May 26, 1928.
Tire patches and boots. C. J. Evans. 240,246; Mar. 20; Serial No. 234,507; published Jan. 17, 1928.

CLASS 36.

Phonographs and records. Oriole Phonograph Company. 240,015; Mar. 20; Serial No. 256,883; published Jan. 10, 1928.
Phonographs, phonograph records, and mainsprings, repair parts, etc. James K. Polk Inc. 240,262; Mar. 20; Serial No. 248,648; published Oct. 25, 1927.
Phonographs, talking machines, and sound plates and boxes. Bing Werke, vorm Gebrüder Bing A. G. 240,030; Mar. 20; Serial No. 255,159; published Jan. 3, 1928.

CLASS 37.

Paper. H. Fishman. 240,256; Mar. 20; Serial No. 245,088; published May 10, 1927.
Paper, envelops, and blank post cards, Writing. Universal Art Crafts, Incorporated. 240,233; Mar. 20; Serial No. 257,324; published Jan. 17, 1928.
Paper and envelops, Writing. George B. Hurd & Co. 69,888–9; renewed July 14, 1928.
Paper, Greaseproof and waterproof wrapping. Fred Rentz Paper Company. 240,234; Mar. 20; Serial No. 257,230; published Jan. 10, 1928.
Pencils and paper cutters. Fritchie Home Company. 240,277; Mar. 20; Serial No. 255,845; published Jan. 10, 1928.
Pencils, Lead. Pacific Stationery & Printing Co. 240,319; Mar. 20.
Pencils, Leads for. C. R. Keeran. 240,244; Mar. 20; Serial No. 217,785; published Jan. 17, 1928.

CLASS 38.

Magazine. Doubleday Page & Co. 240,120; Mar. 20; Serial No. 257,972; published Jan. 3, 1928.
Magazines. A. S. Abel. 240,035; Mar. 20; Serial No. 256,852; published Dec. 13, 1927.
Newspapers. D. J. Vlasto. 29,904; renewed Apr. 27, 1927.
Periodical. Society of the Sons of the Revolution in the State of Illinois. 240,243; Mar. 20; Serial No. 201,722; published Dec. 20, 1927.

CLASS 39.

Apparel, Women's and misses' wearing. J. T. Addison. 240,255; Mar. 20; Serial No. 243,077; published Jan. 10, 1928.
Boots and shoes. G. P. Crafts Company. 240,051; Mar. 20; Serial No. 255,744; published Jan. 3, 1928.
Caps and bonnets. E. Blumenthal. 240,297; Mar. 20; Serial No. 256,902; published Jan. 10, 1928.
Clothing. Alfred Decker & Cohn, Inc. 240,287; Mar. 20; Serial No. 256,651; published Jan. 10, 1928.
Clothing. Max Spiro & Sons, Inc. 240,040; Mar. 20; Serial No. 256,429; published Jan. 3, 1928.
Clothing, Ladies'. S. Spielberger. 240,209; Mar. 20; Serial No. 247,830; published Jan. 3, 1928.
Clothing, Oiled. A. J. Tower Company. 70,090; renewed July 28, 1928.
Dresses, Ladies'. Chas. A. Stevens & Bros. 240,171; Mar. 20; Serial No. 257,320; published Jan. 3, 1928.
Dresses, skirts, and waists. Superior Dress Co. 240,236; Mar. 20; Serial No. 257,747; published Jan. 10, 1928.
Gloves. Wimelbacher & Rice. 240,043; Mar. 20; Serial No. 253,783; published Jan. 3, 1928.
Gloves and mittens and cotton jersey gloves, Cotton work. National Mitten Works. 240,224; Mar. 20; Serial No. 257,556; published Jan. 10, 1928.
Gloves, Leather. R. H. Macy & Co. 240,281; Mar. 20; Serial No. 256,130; published Jan. 10, 1928.
Hats. Italian Hat Importers, Inc. 240,096; Mar. 20; Serial No. 257,510; published Jan. 3, 1928.
Hats. Charles Levy's Sons Inc. 240,200; Mar. 20; Serial No. 256,732; published Jan. 10, 1928.
Hats, Ladies'. Los Angeles Hat Company. 240,038; Mar. 20; Serial No. 256,784; published Jan. 3, 1928.
Hats, Ladies'. Myers Hats Inc. 240,170; Mar. 20; Serial No. 257,302; published Jan. 3, 1928.
Hats, Ladies'. Smith & Hartnett. 240,163; Mar. 20; Serial No. 257,126; published Jan. 3, 1928.
Hats, Ladies'. Stone & Goldenberg, Inc. 240,045; Mar. 20; Serial No. 253,858; published Jan. 3, 1928.
Hats, Ladies' and misses'. Consolidated Millinery Company. 240,165; Mar. 20; Serial No. 257,224; published Jan. 3, 1928.
Hats, Ladies' trimmed. Lederer, Strauss & Co. 240,044; Mar. 20; Serial No. 253,849; published Jan. 3, 1928.
Heels for boots and shoes, Rubber. Cushion Spring Rubber Company. 240,052; Mar. 20; Serial No. 256,176; published Jan. 3, 1928.
Heels, soles, and half soles, Rubber. Jarman Shoe Company. 240,739; Mar. 20; Serial No. 257,734; published Jan. 10, 1928.
Hosiery. Chas. Chipman's Sons. 59,430–1; renewed Jan. 8, 1927.
Hosiery. Chas. Chipman's Sons. 60,012; renewed Jan. 22, 1927.
Hosiery. Chas. Chipman's Sons. 61,376; renewed Mar. 19, 1927.
Hosiery. Chas. Chipman's Sons. 64,131; renewed July 23, 1927.
Hosiery and knitted underwear. Mandel & Cohen. 240,211; Mar. 20; Serial No. 246,423; published Jan. 3, 1928.
Overcoats, topcoats, trousers, etc. Levy Bros. 240,283; Mar. 20; Serial No. 256,411; published Jan. 10, 1928.
Shirts, drawers, underwear, etc. Equity Hosiery Mills. 240,207; Mar. 20; Serial No. 248,291; published Jan. 3, 1928.
Shirts, pajamas, and nightshirts. Samuel Valentine Co. 240,087; Mar. 20; Serial No. 257,763; published Jan. 3, 1928.
Shoes. Brauer Bros. Shoe Company. 240,284; Mar. 20; Serial No. 256,511; published Jan. 10, 1928.
Shoes. Craddock-Terry Company. 240,048; Mar. 20; Serial No. 255,233; published Jan. 3, 1928.
Shoes. Gale Shoe Manufacturing Co. 240,265; Mar. 20; Serial No. 255,060; published Dec. 27, 1927.
Shoes. Shu-Stiles, Inc. 240,097; Mar. 20; Serial No. 257,445; published Jan. 3, 1928.
Soles and heels, Shoe. Marathon Shoe Co. 240,238; Mar. 20; Serial No. 257,738; published Jan. 10, 1928.
Suits, men's and boys' overalls, jackets, and pants, Children's play. Lawrenceburg Overall Mfg. Co. 240,173; Mar. 20; Serial No. 257,371; published Jan. 3, 1928.
Suits, topcoats, and overcoats, etc. Aronberg & Pfeffer. 240,050; Mar. 20; Serial No. 255,623; published Jan. 3, 1928.
Sweaters and knitted suits. R. H. Macy & Co. 240,280; Mar. 20; Serial No. 256,129; published Jan. 10, 1928.
Underwear. R. H. Macy & Co. 240,296; Mar. 20; Serial No. 256,876; published Jan. 10, 1928.

CLASS 40.

Binding, Shoe. Wm. B. Bliss Jr. & Co. Inc. 240,288; Mar. 20; Serial No. 256,656; published Jan. 10, 1928.
Combs, barrettes, hairpins, etc. Delettrez of France, Inc. 240,263; Mar. 20; Serial No. 248,880; published Jan. 10, 1928.
Hairpins. De Long Hook and Eye Company. 60,404; renewed June 9, 1928.

CLASS 41.

Umbrellas. Polan, Katz & Co. 240,161; Mar. 20; Serial No. 257,380; published Jan. 3, 1928.

CLASS 42.

Cotton piece goods. Arthur Beir & Co. 240,091; Mar. 20; Serial No. 257,650; published Jan. 10, 1928.
Cotton, silk, silk and cotton, rayon, etc., piece goods. Arthur Beir & Co. Inc. 240,146–8; Mar. 20; Serial Nos. 239,559–61; published Jan. 10, 1928.
Fabrics, Pile. Sidney Blumenthal & Co. Inc. 240,184; Mar. 20; Serial No. 251,114; published Jan. 10, 1928.
Gingham piece goods. Barkhill Manufacturing Company. 240,737; Mar. 20; Serial No. 257,743; published Jan. 10, 1928.
Goods, Rayon and cotton, Piece. Arthur Beir & Co. 240,090; Mar. 20; Serial No. 257,651; published Jan. 10, 1928.
Handkerchiefs. Acheson Harden Co. 240,183; Mar. 20; Serial No. 251,312; published Aug. 23, 1927.
Silk, Artificial. Aberfoyle Mfg. Co. 240,060; Mar. 20; Serial No. 258,445; published Jan. 10, 1928.

Woolen piece goods. Forstmann & Huffmann Company. 240,061–6; Mar. 20; Serial Nos. 253,324–29; published Jan. 10. 1928.
Woolen piece goods. Forstmann & Huffmann Company. 240,075–6; Mar. 20; Serial Nos. 256,918–9; published Jan. 10, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 240,077; Mar. 20; Serial No. 256,921; published Jan. 10, 1928.
Woolen piece goods. Forstmann & Huffmann Company. 240,298; Mar. 20; Serial No. 256,920; published Jan. 10, 1928.

CLASS 44.

Arch supporters, Foot-. A. Mayer. 240,136; Mar. 20; Serial No. 256,469; published Jan. 3, 1928.
Dental impression trays. P. A. Harris. 240,155; Mar. 20; Serial No. 234,910; published Jan. 3. 1928.
Sanitary napkins. Diana Manufacturing Company. 240,137; Mar. 20; Serial No. 256,454; published Jan. 3. 1928.
Sanitary napkins. May Department Stores Company. 240,135; Mar. 20; Serial No. 256,678; published Jan. 3, 1928.
Sanitary napkins. Mu-Col Company. 240,198; Mar. 20; Serial No. 257,696; published Jan. 10. 1928.
Sanitary-napkin shields. I. B. Kleinert Rubber Company. 240,105; May 20; Serial No. 256,196; published Jan. 3. 1928.
Syringes and surgical irrigators. H. A. Kaysan. 68,169; renewed Mar. 10, 1928.
Therapeutic devices. C. B. Dady. 240,142; Mar. 20; Serial No. 240,488; published Jan. 10. 1928.

CLASS 45.

Beverages and syrups and flavors for making the same, Maltless. Many, Blanc & Company. 240,251; Mar. 20; Serial No. 237,016; published Jan. 17, 1928.
Ginger ale. Schwartz Ginger Ale Co. Inc. 240,321; Mar. 20.

CLASS 46.

Almond paste, Imitation-. Amerone Products Company. 240,304; Mar. 20; Serial No. 257,270; published Jan. 10, 1928.
Apples. Wenatchee-Okanogan Co-Operative Federation. 240,113; Mar. 20; Serial No. 255,782; published Jan. 10, 1928.
Bakery goods. Grennan Bakeries, Inc. 240,294; Mar. 20; Serial No. 256,775; published Jan. 17, 1928.
Barley, Pearled. Quaker Oats Company. 240,242; Mar. 20; Serial No. 257,636; published Jan. 10, 1928.
Biscuits. H. Bahlsen. 31,171; renewed Jan. 25, 1928.
Biscuits and crackers, Lunch. New England Biscuit Co. 69,240; renewed May 26, 1928.
Bread and cake. G. G. Barber. 240,292; Mar. 20; Serial No. 256,761; published Jan. 10. 1928.
Cakes. Frank G. Shattuck Company. 240,053; Mar. 20; Serial No. 255,773; published Jan. 3. 1928.
Candy. Aughinbaugh Caramel Company. 67,560; renewed Feb. 11, 1928.
Candy. E. J. Brach & Sons. 240,188; Mar. 20; Serial No. 250,367; published Jan. 10, 1928.
Candy. M. M. Johannsen Candy Company. 69,031; renewed May 12. 1928.
Candy. W. J. McGrath. 240,190; Mar. 20; Serial No. 250,030; published Jan. 10, 1928.
Candy. P. Mitchell. 240,226; Mar. 20; Serial No. 257,483; published Jan. 17. 1928.
Candy. Stone Candy Company. 240,143; Mar. 20; Serial No. 240,458; published Jan. 10, 1928.
Candy and chewing gum. W. A. Goetze. 240,330; Mar. 20.
Canned baked beans with pork, prepared fruits, etc. Fred Fear & Co. 240,293; Mar. 20; Serial No. 256,770; published Jan. 10. 1928.
Canned fish. Garneau & de Bruyn, Inc. 240,261; Mar. 20; Serial No. 248,828; published Jan. 17, 1928.
Canned fish. Seeman Brothers, Inc. 240,269; Mar. 20; Serial No. 255,319; published Jan. 17, 1928.
Canned fruits. California Co-Operative Producers. 240,133; Mar. 20; Serial No. 256,906; published Jan. 10. 1928.
Canned fruits and vegetables. Geneva Preserving Company. 67,476; renewed Feb. 4, 1928.
Canned fruits and vegetables. Geneva Preserving Company. 67,493–5; renewed Feb. 4, 1928.
Canned fruits and vegetables. Lange Canning Co. 240,327; Mar. 20.
Canned fruits, vegetables, and dried fruit. California Co-Operative Producers. 240,132; Mar. 20; Serial No. 256,907; published Jan. 10. 1928.
Canned pimientos. Frank Macmonnies, Inc. 240,115; Mar. 20; Serial No. 255,066; published Jan. 10. 1928.
Canned pumpkin. Flat Rock Canning Co. 240,318; Mar. 20
Canned salmon, fruits, berries, and vegetables. McGovern and McGovern. 240,114; Mar. 20; Serial No. 255,455; published Jan. 10. 1928.
Canned sardines. A/S Einar Hansvik & Co. 240,193; Mar. 20; Serial No. 248,740; published Jan. 10. 1928.
Canned squab-meat paste. R. W. Dyer. 240,123; Mar. 20; Serial No. 257,404; published Jan. 10. 1928.
Canned vegetables. Atlantic Canning Co. 240,151; Mar. 20; Serial No. 238,693; published Jan. 4, 1927.
Canned vegetables. Hoopeston Canning Co. 240,210; Mar. 20; Serial No. 246,751; published Jan. 10, 1928.
Cantaloupes, melons, Fresh. J. W. Asher Co. 240,157; Mar. 20; Serial No. 233,349; published Mar. 22, 1927.
Chocolates. Boston Candies and Luncheonette, Inc. 240,286; Mar. 20; Serial No. 256,560; published Jan. 17, 1928.
Chocolates and bonbons. R. M. Haan Candy Company. 240,152; Mar. 20; Serial No. 238,216; published Jan. 10, 1928.
Coffee. Dwight Edwards Company. 240,722; Mar. 20; Serial No. 241,401; published Apr. 5, 1927.
Coffee. Meyer Brothers Coffee & Spice Company. 69,689; renewed June 30, 1928.
Condiment. J. Nugnes. 240,250; Mar. 20; Serial No. 237,089; published Jan. 10, 1928.
Confection. George S. Murphy, Inc. 240,316; Mar. 20.
Extract, Malt. Providence Malt Company. 240,168; Mar. 20; Serial No. 257,253; published Jan. 3, 1928.
Feed, Dairy, stock, and poultry. J. A. Sturgess & Company. 240,282; Mar. 20; Serial No. 256,383; published Jan. 17. 1928.
Flour, Wheat. Colorado Milling & Elevator Co. 240,723; Mar. 20; Serial No. 257,618; published Jan. 17, 1928.
Flour, Wheat. Duluth-Superior Milling Company. 69,358; renewed June 9, 1928.
Flour, Wheat. International Milling Company. 240,232; Mar. 20; Serial No. 257,361; published Jan. 10, 1928.
Flour, Wheat. Kansas Milling Company. 240,266; Mar. 20; Serial No. 255,110; published Jan. 10. 1928.
Flour, Wheat. Stanard Tilton Milling Co. 68,807; renewed Apr. 28, 1928.
Flour, Wheat. Washburn Crosby Company. 240,235; Mar. 20; Serial No. 257,767; published Jan. 17, 1928.
Fruits, Fresh citrus. Rocky Hill Corporation. 240,225; Mar. 20; Serial No. 257,486; published Jan. 17, 1928.
Fruits, Fresh deciduous and dried. Southern Oregon Sales, Inc. 240,247–8; Mar. 20; Serial Nos. 236,342–3; published Jan. 17. 1928.
Fruits, Fresh deciduous and dried. Southern Oregon Sales, Inc. 240,249; Mar. 20; Serial No. 236,845; published Jan. 17, 1928.
Grapes, apples, lettuce, etc., Fresh. M. O. Best Fruit Company. 240,310; Mar. 20.
Hams. R. B. Wildman. 69,795; renewed July 7, 1928.
Macaroni. Kansas City Macaroni & Importing Co. 240,172; Mar. 20; Serial No. 257,364; published Jan. 3, 1928.
Meat and bone scraps for poultry. G. Weiss Sons, Inc. 240,305; Mar. 20; Serial No. 257,327; published Jan. 10, 1928.
Meats. R. D. Dorsey. 240,191; Mar. 20; Serial No. 249,708; published Jan. 10. 1928.
Milk product. Sheboygan Cheese Company. 240,285; Mar. 20; Serial No. 256,545; published Jan. 17, 1928.
Mincemeat. Atmore & Son, Inc. 240,300; Mar. 20; Serial No. 256,991; published Jan. 10, 1928.
Mustard, Prepared. Florida Mustard & Spice Co. Inc. 240,264; Mar. 20; Serial No. 254,903; published Jan. 10. 1928.
Oil, Salad. P. Pastene & Co. Inc. 240,267; Mar. 20; Serial No. 255,129; published Jan. 10, 1928.
Olives, pickles, salad dressing, and mayonnaise. Blanke-Baer Extract & Preserving Company. 240,295; Mar. 20; Serial No. 256,806; published Jan. 10, 1928.
Peaches, Fresh. C. A. Haden. 240,179; Mar. 20; Serial No. 252,101; published Jan. 10, 1928.
Potatoes, Irish. Hub Truckers Association, Inc. 240,258; Mar. 20; Serial No. 246,683; published Jan. 17. 1928.
Salad oil and mayonnaise. Musher and Company. 240,167; Mar. 20; Serial No. 257,247; published Jan. 3. 1928.
Sardines. Globe Packing Company. 67,482–3; renewed Feb. 4, 1928.
Syrup. Marshak Maltmolak Co. Inc. 240,205; Mar. 20; Serial No. 248,581; published Jan. 3, 1928.
Syrup, Malt. A. H. Bender. 240,079; Mar. 20; Serial No. 256,993; published Jan. 3, 1928.
Syrup, Malt. Best Malt Products Company. 240,080; Mar. 20; Serial No. 256,996; published Jan. 3. 1928.
Syrup, Malt. Best Malt Products Company. 240,273; Mar. 20; Serial No. 255,480; published Jan. 10. 1928.
Syrup, Malt. Best Malt Products Company. 240,301; Mar. 20; Serial No. 256,995; published Jan. 10. 1928.
Syrup, Malt. Forest Hills Company. 240,054; Mar. 20.
Syrup, Malt. International Products Co. 240,042; Mar. 20; Serial No. 253,418; published Jan. 3. 1928.
Syrup, Malt. N. Kaplan. 240,049; Mar. 20; Serial No. 255,560; published Jan. 3. 1928.
Syrup, Malt. M. S. Woods. 240,208; Mar. 20; Serial No. 247,879; published Dec. 27. 1927.
Syrup, Table. Cuban-American Syrup Company. 240,039; Mar. 20; Serial No. 256,610; published Jan. 3, 1928.
Vegetable fat or oil compound. India Refining Company. 69,454–6; renewed June 16. 1928.
Vegetables, Fresh. J. L. Budreau. 240,150; Mar. 20; Serial No. 238,770; published Jan. 25. 1927.

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Stencil composition. Dallett Company. 240,309; Mar. 20.

Assorted Nuts In Chocolate. For Candy. Bunte Brothers. 33,667; Mar. 20.
Bar-Klay Mud Pies. For Colored Dry Powder. E. C. Barker. 33,665; Mar. 20.
Barley Bloom. For Malt Syrup. Pabst Corporation. 33,683; Mar. 20.
Certified Medicinal Grapefruit. For Canned and Fresh Grapefruit. W. J. Howey Company. 33,676; Mar. 20.
Dustless Dust Cloth. For a Dustless Dust Cloth. J. H. Helfritsb. 33,672; Mar. 20.
Everybody Loves Lucky Lindy. For Candy. V. N. Miller. 33,679; Mar. 20.
Food Materials Corporation—Verity Brand. For Food Colors. Food Materials Corporation. 33,671; Mar. 20.
Freeze-Em-Pickle. For Meat-Curing Preparation. B. Heller & Company. 33,673; Mar. 20.
Hazel Brand Apricots. For Apricots. Geo. Rasmussen Co. 33,704; Mar. 20.
Hazel Brand Asparagus. For Asparagus. Geo. Rasmussen Co. 33,698; Mar. 20.
Hazel Brand Asparagus Tips. For Asparagus Tips. Geo. Rasmussen Co. 33,699; Mar. 20.
Hazel Brand Bartlett Pears. For Bartlett Pears. Geo. Rasmussen Co. 33,702; Mar. 20.
Hazel Brand Condensed Liquid Bluing. For Bluing. Geo. Rasmussen Co. 33,696; Mar. 20.
Hazel Brand Dry Pale Ginger Ale. For Ginger Ale. Geo. Rasmussen Co. 33,697; Mar. 20.
Hazel Brand Extract. For Food-Flavoring Extracts. Geo. Rasmussen Co. 33,692; Mar. 20.
Hazel Brand Fruit Cookies. For Fruit Cookies. Geo. Rasmussen Co. 33,695; Mar. 20.
Hazel Brand Peanut Butter. For Peanut Butter. Geo. Rasmussen Co. 33,707; Mar. 20.
Hazel Brand Preserves. For Preserves. Geo. Rasmussen Co. 33,694; Mar. 20.
Hazel Brand Royal Anne Cherries. For Royal Anne Cherries. Geo. Rasmussen Co. 33,705; Mar. 20.
Hazel Brand Sliced Pineapple. For Sliced Pineapple. Geo. Rasmussen Co. 33,703; Mar. 20.
Hazel Brand Spices. For Spices. Geo. Rasmussen Co. 33,693; Mar. 20.
Hazel Brand Spinach. For Spinach. Geo. Rasmussen Co. 33,700; Mar. 20.
Hazel Brand Wonder Ammonia. For Ammonia. Geo. Rasmussen Co. 33,701; Mar. 20.
Hazel Brand Yellow Cling Peaches. For Yellow Cling Peaches. Geo. Rasmussen Co. 33,706; Mar. 20.
Heavy-Weight. For Malt Syrup. Pabst Corporation. 33,684; Mar. 20.
Hol-Ry Health-Bread. For Bread. Hol-Ry Company. 33,675; Mar. 20.
Home Use Bottle Caps. For Bottle Caps. Crown Cork & Seal Company. 33,669; Mar. 20.
Honey-Rose. For Face Cream. A. J. Krank Mfg. Co. 33,677; Mar. 20.
Joy Box. For Candy. Stephen F. Whitman & Son, Inc. 33,720; Mar. 20.
K-Mo-Cross a Novelty Card Game. For a Novelty Card Game. G. Bridge. 33,666; Mar. 20.
Killroach. For a Liquid Insecticide. Victory Chemical Co. 33,723; Mar. 20.
Milwaukee Club. For Malt Syrup. Milwaukee Malt Syrup Company. 33,680; Mar. 20.
Miner's Favorite. For Malt Syrup. Pabst Corporation. 33,686; Mar. 20.
Minute Jelly Concentrate. For Concentrated Mixture of Fruit Juice, Sugar, Fruit Acid, and Powdered Pectin Used as a Base to Make Jelly. Minute Jelly, Inc. 33,682; Mar. 20.
Mrs. Soos' Secret Hungarian Goulash. For Hungarian Goulash. E. Soos. 33,710; Mar. 20.
My-T-Pure Flour. For Flour. Puritan Mills. 33,691; Mar. 20.
Nif-Te-Pal. For Cold Cream. J. W. Smith. 33,709; Mar. 20.
Non-Fouling 22 Cal. Long Rifle. For Loaded Metallic Cartridges. Federal Cartridge Corporation. 33,670; Mar. 20.
Old Burley. For Malt Syrup. Pabst Corporation. 33,685; Mar. 20.
$1000.00 Guaranteed Fly Killer. For Preparation for Killing Flies, Gnats, and Mosquitoes. B. Heller & Company. 33,674; Mar. 20.
Polite's Pure Pepper Sauce. For Pepper Sauce. Polite's Pure Pepper Sauce Company. 33,690; Mar. 20.
Pyramid Bottle Caps. For Bottle Caps. Crown Cork & Seal Company. 33,668; Mar. 20.
Santro Nipple. For Nipples. Julius Schmid, Inc. 33,708; Mar. 20.
Super Service. For Ash Receivers. Super Service Corporation. 33,718; Mar. 20.
Super Service. For Electric Cigar Lighters. Super Service Corporation. 33,711; Mar. 20.
Super Service. For Friction and Insulating Tape. Super Service Corporation. 33,717; Mar. 20.
Super Service. For Hydrometers. Super Service Corporation. 33,713; Mar. 20.
Super Service. For Radiator Hose. Super Service Corporation. 33,712; Mar. 20.
Super Service. For S. S. Transmission Lining. Super Service Corporation. 33,715; Mar. 20.
Super Service. For Tester For Determining Freezing Point of Solutions of Water and Alcohol. Super Service Corporation. 33,714; Mar. 20.
Super Service. For Traffic Hydrometers. Super Service Corporation. 33,719; Mar. 20.
Super Service. For Universal Tire Flaps. Super Service Corporation. 33,716; Mar. 20.
Sweet Adeline. For Malt Syrup. Milwaukee Malt Syrup Company. 33,681; Mar. 20.
Union Made. For Matzos, Which is Unleavened Bread in the Form of Flat Thin Sheets. Matzo Bakers Union of G. N. Y. 33,678; Mar. 20.
Waterspar Enamel. For Paint Enamel. Pittsburgh Plate Glass Company. 33,688; Mar. 20.
Waterspar Lacquer. For Lacquer. Pittsburgh Plate Glass Company. 33,689; Mar. 20.
Waterspar Varnish. For Varnish. Pittsburgh Plate Glass Company. 33,687; Mar. 20.
Wrigley's Pink P. K. For Chewing Gum. Wm. Wrigley Jr. Company. 33,721; Mar. 20.
Wrigley's Pink P. K. For Chewing Gum. Wm. Wrigley Jr. Company. 33,722; Mar. 20.
Yale Wonder-Kote. For a Gloss Primer. Yale Paint & Shellac Company. 33,724; Mar. 20.

ALPHABETICAL LIST OF PRINTS.

A Welcome Dish on the Supper Tray. This Dainty Nourishing Dessert. For Wheat Breakfast Food. Cream of Wheat Co. 10,716; Mar. 20.
Amlo Aero Motor Lubricating Oil. For Motor Oil. Texas Pacific Coal and Oil Company. 10,723; Mar. 20.
And Ours Are Garden Fresh—Too. For Ketchup. H. J. Heinz Company. 10,720; Mar. 20.
Elizabeth Arden Evolves For You. For Venetian Toilet Preparations. Arden Chemical Co. 10,713; Mar. 20.
It's A Fact—For Dessert My-T-Fine. For Dessert Preparations. D & C Co. Inc. 10,718; Mar. 20.
Keystone Insulated Automatic Storage Gas Water Heater. For Water Heaters. Bastian-Morley Co. 10,715; Mar. 20.
Santro Breast Form Nipples. For Nipples. Julius Schmid, Inc. 10,722; Mar. 20.
Style. For Vehicle Bumpers. C. G. Spring Bumper Company. 10,717; Mar. 20.
The Aristocrat of Water Heaters. For Water Heaters. Bastian-Morley Co. 10,714; Mar. 20.
Throughout The Year—My-T-Fine—For Dessert. For Dessert Preparations. D & C Co. Inc. 10,719; Mar. 20.
Truworth. For Men's and Boys' Suits. Isaacson Clothing Company. 10,721; Mar. 20.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Ackermann, Franz, Binningen, near Basle, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Vat dyestuff of the anthraquinone series containing the triazine ring and making same. 1,663,474; Mar. 20.

Acme Lace Works, Inc. (See Meads, Walter, assignor.)

Adams, Raleigh J., Chicago, Ill. Boiler. 1,663,034; Mar. 20.

Adams, Roger, J. M. Davidson, Urbana, Ill., and I. Gubelman, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. 3.4 diamino benzoyl o-benzoic acids and making the same. 1,663,229; Mar. 20.

Adams, Thomas O. (See Wise, W. J., and Adams.)

Adams, Thomas O., assignor, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio. Nozzle adjustment for vacuum cleaners. 1,663,364; Mar. 20.

Adams & Westlake Company, The. (See Legge, Thomas A., assignor.)

Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Repeater system. 1,662,876; Mar. 20.

Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture bracket or article of similar nature. Des. 74,708; Mar. 20.

Ahlquist, Eugene F., Minneapolis, Minn., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Envelope. 1,662,913; Mar. 20.

Albert, Frank J., Guttenberg, N. J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Device for eliminating the printing of impressions on impression-cylinder packings. Re16,905; Mar. 20.

Albertine, Herman, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc. Lubricating apparatus. 1,662,842; Mar. 20.

Albrecht, Arthur. (See Blackburn, J., and Albrecht.)

Aldendorff, Charlotte (heiress). (See Aldendorff, Fritz.)

Aldendorff, Friedrich E. (deceased). (See Aldendorff, Fritz.)

Aldendorff, Fritz, Berlin-Wilmersdorf, Germany; C. Aldendorff heiress of F. E. Aldendorff, deceased. Electromechanical telephone system. 1,663,230; Mar. 20.

Aldendorff, Fritz, Berlin-Wilmersdorf, Germany; C. Aldendorff, heiress of F. E. Aldendorff, deceased. Automatic telephone system. 1,663,231; Mar. 20.

Alfred, James, Brockton, Mass. Shoe. 1,662,814; Mar. 20.

Allfree, Edwin H., and A. R. Williams, assignors to The Ironton Engine Company, Ironton, Ohio. Conveyer. 1,662,808; Mar. 20.

Almquist, Milton L., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system employing machine-switching dial. 1,662,877; Mar. 20.

Altgilbers, Leo H., Fort Dodge, Iowa. Street or road snowplow. 1,662,809; Mar. 20.

Aluminum Company of America. (See Archer, Robert S., assignor.)

Ambler, Robert B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Strip-coating apparatus. 1,663,252; Mar. 20.

American Air Compressor Works. (See Muller, F. A., and Basberg.)

American Chain Company. (See Goetz, Oscar H., assignor.)

American Cyanamid Company. (See Griffith, Palmer W., assignor.)

American Cyanamid Company. (See Heuser, Ralph V., assignor.)

American Flange & Manufacturing Co. (See Schwartz, Morris, assignor.)

American Motor Body Corporation. (See Hansen, Conrad T., assignor.)

American Safety Device Company. (See Johnston, Frank B., assignor.)

American Sheet and Tin Plate Company. (See Davis, Stewart A., assignor.)

American Stove Company. (See Brumbaugh, Isaac V., assignor.)

American Stove Company. (See Fuldauer, Frederick L., assignor.)

American Stove Company. (See Moecker, H., jr., Thompson, and Hammermeister, assignors.)

American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)

American Telephone and Telegraph Company. (See Almquist, Milton L., assignor.)

American Telephone and Telegraph Company. (See Herman, Joseph, assignor.)

American Thermos Bottle Company. (See Wetmore, Miner P., assignor.)

American Throttle Company. (See Brown, Ray M., assignor.)

Ames, Chester L., Phoenix, Ariz. Bookrack. 1,663,432; Mar. 20.

Anchor Cap and Closure Corporation. (See Schofield, Edgar, assignor.)

Anderson, Alfred C., Worcester, Mass. Fluid clutch and reverse gear. 1,663,186; Mar. 20.

Anderson, Edmund A. (See Peirce, W. M., and Anderson.)

Anderson, Hiram C., New York, N. Y. Automobile tire. 1,663,511; Mar. 20.

Anderson, J. W. (See Rounds, John W., assignor.)

Angel, Augustus, Brooklyn, N. Y., assignor to Signode System, Inc., Chicago, Ill. Joint and making same. 1,662,914; Mar. 20.

Ansco Photoproducts, Inc. (See Klein, Rudolph, assignor.)

Ansco Photoproducts, Inc. (See Natheson, Avery A., assignor.)

Appleford Counter Check Book Company. (See Palmer, Ernest E., assignor.)

Archer, Robert S., Cleveland, Ohio, assignor to Aluminum Company of America. Aluminum-base alloy. 1,663,150; Mar. 20.

Armstrong Charles C., Huntington, W. Va. Stove. 1,663,151; Mar. 20.

Arnold Electric Company. (See Pursell, Arthur T., assignor.)

Arnold, Felix, Santa Barbara, Calif. Swimming device. 1,663,328; Mar. 20.

Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Levulose from soluble non-sugar carbohydrates of the dahlia. 1,663,234; Mar. 20.

Arsem, William C., assignor to Industrial Technics Corporation, Schenectady, N. Y. Preparation of levulose from purified dahlia juice. 1,663,233; Mar. 20.

Asbury, Dorsey F., Broomes Island, Md. Preventing leakage. 1,663,035; Mar. 20.

Ashe, William O., and H. M. Pflager, St. Louis, Mo., assignors to Commonwealth Steel Company, Granite City, Ill. Railway-vehicle structure. 1,663,036; Mar. 20.

Ashton Valve Company, The. (See Motherwell, Joseph, W., assignor.)

Atlas Devices Company. (See Weigele, Edmund, assignor.)

Atwood, Edwin H., W. E. Wanner, and T. L. Reese, Olean, assignors to Vacuum Oil Company, New York, N. Y. Brushing machine for circular objects. 1,662,995; Mar. 20.

Aumack, Raymond L., Roselle, N. J. Brake-drum mount for motor vehicles. 1,662,810; Mar. 20.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Forming and tapping machine. 1,663,329; Mar. 20.

Avery, W. & J., Limited. (See Bradley, Leslie C., assignor.)

Avery, W. & T., Limited. (See Timson, William, assignor.)

Backmyer, Christopher F., assignor to Magill-Weinsheimer Company, Chicago, Ill. Double envelope. 1,662,843; Mar. 20.

Badt, Henry C., Hoboken, N. J. Water-tube boiler. 1,662,815; Mar. 20.

Baeth, Henry R., Content, Mont. Gate Latch. 1,663,152; Mar. 20.

Bakelite Corporation. (See Schmidt, John H., assignor.)

Baker, Frank S., and J. L. Richards, assignors to Hydro-Press Machines Limited, London, England. Embossing machine. 1,663,330; Mar. 20.

Baker Perkins, Ltd. (See Lebert, Louis, assignor.)

Baker-Raulang Company, The. (See Remde, Edward H., assignor.)

Baltzley, Louis E., Glen Ridge, N. J. Wire terminal. 1,662,946; Mar. 20.

Bane, Robert. (See Lowman, M. C., Fentress, and Bane.)

Banker, Olin E., Wilkes-Barre, Pa. Radio operator's chair. 1,662,947; Mar. 20.

Bankers Equipment Company. (See Harrison, Cecil B., assignor.)

Banks, Joseph L. R., assignor to The Rolmonica Music Co., Baltimore, Md. Making records. 1,662,948; Mar. 20.

Banks, Joseph L., assignor to The Rolmonica Music Co., Baltimore, Md. Recording machine. 1,662,949; Mar. 20.

Banner, Elbert C., Buffalo, N. Y. Electric heater. Des. 74,709; Mar. 20.

Barcus, George N., Andrews, Ind. Spark plug. 1,662,878; Mar. 20.

Barker, Galen D. (See Culp, G. K., jr., Barker, and Sturgis.)

Barnes, Arthur C., Baltimore, Md. Game. 1,663,235; Mar. 20.

Barrett Company, The. (See Perry, Ray P., assignor.)

Barrett, Thomas J., Los Angeles, Calif. Multiple timer. 1,663,187; Mar. 20.

Barrows, George S., assignor to General Fire Extinguisher Company, Providence, R. I. Radiator. 1,663,529; Mar. 20.

Basberg, Lorentz L. (See Muller, F. A., and Basberg.)

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 74,710; Mar. 20.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 74,711; Mar. 20.

Baughman, George W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,662,950; Mar. 20.

Beam, Charles C., Cumberland, Md. Bowl or similar article. Des. 74,712; Mar. 20.

Beam, Charles C., Cumberland, Md. Pitcher or similar article. Des. 74,713; Mar. 20.

Behrens, Richard L. (See Schou, T., and Behrens.)

Beiger, Fred S. (See Eustis, R. I., and Beiger.)

Bell Telephone Laboratories, Incorporated. (See Foley, John W., assignor.)

Belle City Electric Company. (See Rittman, J. W., Rood, and Driver, assignors.)

Beloit Iron Works. (See Berry, Earl E., assignor.)

Belsch, Stanley G., Detroit, Mich. Sign. Des. 74,714; Mar. 20.

Bender, Charles M. (See White, Beverly, assignor.)

Bendix Brake Company. (See Bendix, Vincent, assignor.)

Bendix Brake Company. (See Dodge, Adiel Y., assignor.)

Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Lever mounting. 1,663,290; Mar. 20.

Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Planter attachment for tractors. 1,663,236; Mar. 20.

Bensley, Albert W., Pawtucket, R. I. Pole-supporting device. 1,663,153; Mar. 20.

Benson, Henry R., Seattle, Wash. Hook. 1,663,265; Mar. 20.

Benson, John B., Independence, Kans. Clamp. 1,663,433; Mar. 20.

Benzenberg, Rudolf, New York, N. Y. Pivoted window. 1,663,158; Mar. 20.

Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Overedge sewing machine. 663,488; Mar. 20.

Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Overedge sewing machine. 1,663,489; Mar. 20.

Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. 1,663,490; Mar. 20.

Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing machine. 1,663,491; Mar. 20.

Bergstrom, Alfred, Vancouver, British Columbia, Canada. Cable cutter. 1,663,189; Mar. 20.

Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Chain drive for driers. 1,663,237; Mar. 20.

Berry, Frank, Anita, Pa. Holder. 1,663,366; Mar. 20.

Bessman, Frank A., Hubbard, and E. Warmbier, Alden, Iowa. Hinged-drag drawbar. 1,663,108; Mar. 20.

Bethlehem Steel Company. (See West, Arthur J., assignor.)

Bigelow, Carle M., Newton, Mass. Surface coating articles. 1,662,816; Mar. 20.

Bilhorn, Peter P., Chicago, Ill. Folding organ. 1,663,238; Mar. 20.

Bissett, John W., Garrison, Pa. Pulley. 1,663,154; Mar. 20.

Black-Clawson Company, The. (See Kutter, Herman L., assignor.)

Blackburn, Jasper, Webster Groves, and A. Albrecht, St. Louis, Mo.; said A. Albrecht assignor to said J. Blackburn. Galvanizing. 1,663,037; Mar. 20.

Blair, Blucher. (See Wallace, Frank W., assignor.)

Block, Maurice, assignor to Block Porteller Company, Chicago, Ill. Lighting fixtures. Des. 74,715; Mar. 20.

Block, Maurice, assignor to Block Porteller Company, Chicago, Ill. Lighting fixtures. Des. 74,716; Mar. 20.

Block Portelier Company. (See Block, Maurice, assignor.)

Bloxham, Ralph H., assignor to Chicago Steel Foundry Company, Chicago, Ill. Track liner. 1,662,996; Mar. 20.

Boast, William F., Casper, Wyo. Rule. 1,663,190; Mar. 20.

Boatright, Lenore, Sausalito, Calif. Jar or similar container. Des. 74,717; Mar. 20.

Bollmann, August C., St. Louis, Mo., and W. Davies, Granite City, Ill. Plug for electric connections. 1,662,817; Mar. 20.

Booty, Philip C. P., assignor to Innovation Specialties Co., Inc., Chicago, Ill. Hair curler. 1,663,291; Mar. 20.

Borgwardt, Erich. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)

Born, Alfred, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Extrusion press. 1,663,331; Mar. 20.

Bosworth, Harry J., Chicago, Ill., assignor to Harry J. Bosworth Company. Dental burner. 1,662,997; Mar. 20.

Bosworth, Harry J., Company. (See Bosworth, Harry J., assignor.)

Boucek, James, J. Halick, and J. Trefney, Cleveland, Ohio. Hot-air furnace. 1,663,434; Mar. 20.

Bowen, Pauline B., Minneapolis, Minn. Vanity purse. Des. 74,718; Mar. 20.

Bowers, Dana W., Wilderness, Va. Ore-roasting apparatus. 1,662,811; Mar. 20.

Bradley, Addison B., Indianapolis, Ind. Hand washer for clothes. 1,663,109; Mar. 20.

Bradley, Leslie C., assignor to W. & T. Avery, Limited, Birmingham, England. Coin-freed delivery mechanism. 1,663,508; Mar. 20.

Bradner, Donald B., Edge Moor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing basic aluminum sulphate and the product thereof. 1,663,435; Mar. 20.

Brady, Charles T., Detroit, Mich. Illuminated hand magnifying glass. Des. 74,719; Mar. 20.

Bragg, Alfred O., Niagara Falls, N. Y., assignor to International Bleaching Corporation. Bleaching animal and vegetable materials. 1,662,951; Mar. 20.

Brandau, Harold L., assignor to Huttig Manufacturing Co., Muscatine, Iowa. Automatic core cutter and laying-up machine. 1,663,335; Mar. 20.

Brayton, Harold M., Dover, N. J. Locking device for fuses. 1,662,952; Mar. 20.

Brégeat, Jean H., Paris, France. Recovery of volatile solvents. 1,663,155; Mar. 20.

Bréguet, Louis, assignor to Societe Anonyme des Ateliers d'Aviation Louis Breguet, Paris, France. Propeller. 1,663,512; Mar. 20.

Bridgewater, Ernest R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Colored vulcanized rubber and making the same. 1,663,436; Mar. 20.

British Dyestuffs Corporation. (See Thornley, Sidney, assignor.)

Broido, Anna G. F., et al., administratora. (See Broido, Benjamin.)

Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Apparatus for draining and cleaning superheaters. 1,662,953; Mar. 20.

Broido, Benjamin, deceased, New York, N. Y.; A. G. F. Broido and The National City Bank of New York, administrators. Pipe joint. 1,662,954; Mar. 20.

Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Cover for dishwashers and the like. 1,662,818; Mar. 20.

Brown, Cal V., Santa Barbara, Calif. Holding device for smokers' articles. 1,663,156; Mar. 20.

Brown, Charles H., Breckenridge, Tex. Repairing tools. 1,663,367; Mar. 20.

Brown, Harold, Kansas City, and G. R. Uhl, Tongonoxie, Kans., assignors to The Mid-Continent Equipment and Supply Company. Air-venting valve. 1,663,157; Mar. 20.

Brown, Levander, jr. (See Edwards, G. O., and Brown.)

Brown, Lucy M. S., Winchester, Idaho. Fly-paper holder. 1,663,437; Mar. 20.

Brown, Ray M., Yonkers, assignor, by mesne assignments, to American Throttle Company, New York, N. Y. Balanced multiple throttle. 1,662,955; Mar. 20.

Brown, Samuel J., Maplewood, Mo. Toy. 1,662,998; Mar. 20.

Bruce, William M., jr., Springfield, Ohio. Radioreceiver. 1,663,110; Mar. 20.

Brumbaugh, Isaac V., Washington, D. C., assignor to American Stove Company, St. Louis, Mo. Stove. 1,663,438; Mar. 20.

Bruner, Francis A., Inc. (See Murray, Robert J., assignor.)

Bruner, Simon. (See Ritter, Saul, assignor.)

Bryant, Clarence R., and A. F. Weiss, St. Louis, Mo. Automobile radiator shutter. 1,662,844; Mar. 20.

Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph conductor. 1,662,956; Mar. 20.

Buckman, Frederick A., Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill. Disk for tillage implements. 1,663,239; Mar. 20.

Budd, Edward G., Manufacturing Company. (See D'Ardenne, Walter H., assignor.)

Budd, Edward G., Manufacturing Co. (See Deisley, Edward J., assignor.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Budd, Edward G., Manufacturing Co. (See Meadowcroft, Joseph W., assignor.)

Bull, Clinton H., assignor of one-half to C. C. Le May, Columbus, Ohio. Rock bit. 1,663,332; Mar. 20.

Bunnell, Maltby L., Oneonta, N. Y. Display rack. 1,663,397; Mar. 20.

Burke, Charles E. (See Reid, E. E., and Burke.)

Burke, Nora T., New York, N. Y. Fountain pen. 1,662,957; Mar. 20.

Burnelli, Vincent J., New York, N. Y. Airplane. 1,662,915; Mar. 20.

Burns, Frank, Gulfport, Miss. Timber conveyer. 1,662,812; Mar. 20.

Busch-Sulzer Bros.-Diesel Engine Co. (See Tacchella, Adolf, assignor.)

Busch-Sulzer Bros.-Diesel Engine Company. (See von Salis, Eduard, assignor.)

Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Safety guard and support for brake beams. 1,662,916; Mar. 20.

C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)

Cabot, Samuel, Jamaica Plain, assignor to Samuel Cabot, Boston, Mass. Colloidally dispersing solids. 1,662,999; Mar. 20.

Cabot, Samuel, Inc. (See Cabot, Samuel, assignor.)

Campus, Cesare C., Santa Monica, Calif. Lavatory. 1,663,111; Mar. 20.

Carbondale Machine Company. (See McCabe, Edward B., assignor.)

Carborundum Company, The. (See MacAulay, William T., assignor.)

Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making valve lifters. 1,663,191; Mar. 20.

Carlson, Seth, assignor to Weller Manufacturing Company, Chicago, Ill. Shovel-operating mechanism. 1,663,292; Mar. 20.

Carlson, Sperling. (See von Felden, Roy, assignor.)

Carmean, James H., Kansas City, Mo. Fuse. 1,663,333; Mar. 20.

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,663,240; Mar. 20.

Carstens, H., Mfg. Co. (See Joslyn, Dayton S., assignor.)

Cartzdafner, Roy E., Passaic, N. J. Dump-car-door-locking device. 1,663,475; Mar. 20.

Case Research Laboratory Incorporated. (See Case, Theodore W., assignor.)

Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Talking-picture machine. Re16,010; Mar. 20.

Caslow, Amos B., Elizabethtown, Pa. Tractor seat. 1,663,112; Mar. 20.

Caspler, Morris, South Norwalk, Conn. Making slippers. 1,662,917; Mar. 20.

Cassano, Erminio, Framingham, Mass. Shoe. 1,662,845; Mar. 20.

Cave, Isabel N., Brooklyn, N. Y. Garment hanger and container. 1,662,819; Mar. 20.

Cederleaf, Clarence A., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Visible-sheet binder. 1,662,879; Mar. 20.

Central Automatic Sprinkler Company. (See Lewis, Leroy M., assignor.)

Central Trust Company of Illinois, administrator. (See Pierce, Earl F.)

Chamberlain Co. (See Chamberlain, Lee, assignor.)

Chamberlain, Lee, Los Angeles, Calif., assignor to Chamberlain Co., Inc. Mud-laden fluid for oil and gas wells. 1,663,492; Mar. 20.

Champion Manufacturing Company. (See Dunbaugh, George J., jr., assignor.)

Chandler, Charles H., Newport, R. I. Decolorizing carbon and making same. 1,663,000; Mar. 20.

Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Support. 1,663,334; Mar. 20.

Chapman, Howard D., Baltimore, Md., assignor to C. M. Strickler, Washington, D. C. Iron. 1,662,880; Mar. 20.

Chapman, Penrose E., St. Louis, Mo. Armature-winding machine. 1,662,881; Mar. 20.

Chemische Fabrik auf Actien (vorm. E. Schering). (See Schoeller, W., Feldt, Gehrke, and Borgwardt, assignors.)

Cheshire, Edward, St. Petersburg, Fla. Saw blade. 1,663,241; Mar. 20.

Chesley, Frank P., assignor to J. L. MacInerney, Grand Rapids, Mich. Spring seat construction. 1,663,001; Mar. 20.

Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)

Chicago Rhopac Products Company. (See Johnson, Norman E., assignor.)

Chicago Steel Foundry Company. (See Bloxham, Ralph H., assignor.)

Chr. Gfeller Aktiengesellschaft. (See Trachsel, Fritz, assignor.)

Christianson, Magnus, Brooklyn, N. Y. Fountain washing apparatus. 1,663,439; Mar. 20.

Christopher, Calvin F., Canton, N. C. Measuring instrument. 1,663,440; Mar. 20.

Cincinnati Grinders Incorporated. (See Einstein, Sol, assignor.)

Clarinda Manufacturing Company. (See Criner, Harry J., assignor.)

Clark, Frederick A., Dayton, Ohio. Drafting device. 1,662,882; Mar. 20.

Clark, John M., New York, N. Y. Antenna. 1,662,846; Mar. 20.

Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Concaving heels. 1,663,038; Mar. 20.

Clawson, Aquiller D., Chicago, Ill. Box. 1,663,441; Mar. 20.

Clay, Harry C., assignor to Reeves Pulley Company, Columbus, Ind. Control for variable-speed mechanism. 1,663,493; Mar. 20.

Clayton, Sidney, Chicago, Ill. Electric soldering device. 1,663,113; Mar. 20.

Cleary, Janet E. (See Muller, F. A., and Basbert, assignors.)

Clemens, Oscar B., Grand Rapids, Mich. Fodder cutter and the like. 1,663,114; Mar. 20.

Cleveland Trust Company, The, executor. (See Plantinga, Pierre.)

Cobb, Alvin E., Des Moines, Iowa. Price-card device. 1,662,813; Mar. 20.

Coke-Hill, Lionel, Montreal, Quebec, Canada. Quay wall. 1,663,453; Mar. 20.

Colby, Vincent V., assignor to International Register Company, Chicago, Ill. Cutting. 1,663,267; Mar. 20.

Cole, Eugene M., Charlotte, N. C. Fertilizer distributor. 1,662,883; Mar. 20.

Commercial Shearing and Stamping Company, The. (See Proctor, Robert V., assignor.)

Commonwealth Steel Company. (See Ashe, W. O., and Pflager, assignors.)

Compton, John T., Montgomery, Ala. Ball-turning attachment for lathes. 1,663,192; Mar. 20.

Comstock, Corry B., assignor to Comstock Oven Company, Inc., New York, N. Y. Baker's oven. 1,663,115; Mar. 20.

Comstock, Corry B., assignor to Comstock Oven Company, Inc., New York, N. Y. Baker's oven. 1,663,116; Mar. 20.

Comstock, Corry B., assignor to Comstock Oven Company, Inc., New York, N. Y. Baker's oven. 1,663,117; Mar. 20.

Comstock, Corry B., assignor to Comstock Oven Company, Inc., New York, N. Y. Baker's oven and controlling the heating thereof. 1,663,118; Mar. 20.

Comstock Oven Company. (See Comstock, Corry B., assignor.)

Condupa, Michael, Greensburg, Pa. Oil filler for automobiles. 1,662,820; Mar. 20.

Consolidated Electric Sign Corporation. (See Russell, Harry G., assignor.)

Cook, Alvin B., assignor to The L. S. Starrett Company, Athol, Mass. Measuring ruler. 1,663,293; Mar. 20.

Cook, Frank J., Cleveland, Ohio. Electrical cooking apparatus. 1,662,847; Mar. 20.

Cooke & Cobb Company, The. (See Valleau, Thomas F., assignor.)

Cooke, Joe R., Odem, assignor of one-half to J. E. Palmer, Kerrville, Tex. Fish guard. 1,663,398; Mar. 20.

Coolidge, Cole. (See Stine, C. M. A., and Coolidge.)

Coolidge, Cole, Wilmington, Del., and H. E. Eastlack, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition and making the same. 1,663,119; Mar. 20.

Cosmetique Laboratories of America. (See Eaton, Clyde L., assignor.)

Cosper, Cecil, Walla Walla, Wash. Pad holder. 1,663,120; Mar. 20.

Cottrell, C. B., & Sons Company. (See Albert, Frank J., assignor.)

Coyle, Claud L., Clarence, Mo. Vanity case. 1,663,002; Mar. 20.

Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,662,848; Mar. 20.

Cranz, James M., Buffalo, N. Y., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Composition for use in forming rubber and the like. 1,662,958; Mar. 20.

Craven, Edward J., Springfield, Mass. Tennis racket. 1,663,039; Mar. 20.

Crawford, James O., Oakland, Calif., assignor to John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole ring. Des. 74,721; Mar. 20.

Crawford, James O., Oakland, Calif., assignor to John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole bracket. Des. 74,722; Mar. 20.

Criner, Harry J., Burlington, assignor to Clarinda Manufacturing Company, Clarinda, Iowa. Driving mechanism for washing machines. 1,663,494; Mar. 20.

Crofoot, John B., Arlington Heights, Ill. Stapling machine. 1,663,242; Mar. 20.

Crown Cork & Seal Company. (See McManus, Charles E., assignor.)

Crumrine, Kennedy H., Cleveland, Ohio, assignor to Gisholt Machine Company, Madison, Wis. Tool post. 1,662,959; Mar. 20.

Cruickshanks, Alexander, St. Louis, Mo. Sectional pole. 1,662,884; Mar. 20.

Culp, George K., jr., G. D. Barker, and W. J. Sturgis, Hamilton, Mo., assignors to Electromatic appliance Corp. Liquid-fuel-burning heater. 1,663,442; Mar. 20.

Cumming, William H. (See Smoyer, H., Cumming, and Thiele.)

Curtis, George W., assignor to The Timken Roller Bearing Company, Canton, Ohio. Conveyer roller. 1,663,003; Mar. 20.

Dagrosa, Agustal, New York, N. Y. Window screen. 1,663,243; Mar. 20.

Dailey, William H., Brooklyn, N. Y. Lawn mower. 1,662,849; Mar. 20.

Daniel, Earle H., Springfield, assignor to H. E. Pearce, Kenton, Ohio. Corn-husking machine. 1,663,266; Mar. 20.

Danna, Frank P., assignor of one-third to H. J. Lamson, Plaquemine, La. Storage battery. 1,663,193; Mar. 20.

Danziger, Leonard, New York, N. Y. Portfolio. 1,663,335; Mar. 20.

D'Ardenne, Walter H., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Punching machine. 1,663,448; Mar. 20.

Davidson, James M. (See Adams, R., Davidson, and Gubelmann.)

Davidson, John A., Glendale, N. Y. Perforating and scoring attachment for printing presses. 1,663,294; Mar. 20.

Davies, William. (See Bollmann, A. C., and Davies.)

Davis, Clark W., Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing aromatic amines. 1,663,476; Mar. 20.

Davis, Stewart A., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Tinning apparatus. 1,663,444; Mar. 20.

Davis, Stewart A., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Tin plate. 1,663,445; Mar. 20.

Day, James A., assignor to O. B. Wise, Knoxville, Tenn. Feed mill. 1,663,495; Mar. 20.

Dayton Scale Company. (See Hopkinson, Joseph, assignor.)

Deden, Freda L., Chicago, Ill. Comb. 1,663,399; Mar. 20.

De Ford, John W., Los Angeles, Calif. System and means for marking streets. 1,662,960; Mar. 20.

Deisley, Edward J., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Door mounting. 1,663,531; Mar. 20.

De La Mare, Thomas, Tooele, assignor to P. F. McKendrick, Garfield, Utah. Repairing pipe. 1,662,852; Mar. 20.

Dell, Samuel M., assignor to Samuel M. Dell & Co., Inc., Baltimore, Md. Combined display card and cabinet. 1,662,885; Mar. 20.

Dell, Samuel M., & Co. (See Dell, Samuel M., assignor.)

Delpini, José L., Buenos Aires, Argentina. Passenger vehicle. 1,662,961; Mar. 20.

De Mieres, Manuel Conte. (See Salazar, Edmundo A., assignor.)

Denman, Arthur G., Sedan, Kans. Wall brush. 1,663,194; Mar. 20.

Deppe, William P. (See Parsons, Charles E., assignor.)

Despecher, Mary F., Ralston, Nebr. Flag. 1,663,400; Mar. 20.

Devereaux, William C., Detroit, Mich. Door latch. 1,663,245; Mar. 20.

De Vries, Andrew, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Lamp standard. Des. 74,723; Mar. 20.

Dewey, Clarence L., Elkhart, Ind. Vanity box. 1,663,244; Mar. 20.

Dick, Samuel M., Pasadena, Calif., assignor of one-half to H. H. Ward. Variable-speed transmission mechanism. 1,663,158; Mar. 20.

Diener, Hyman, Washington, D. C., assignor to United States Hoffman Machinery Corporation, New York, N. Y. Plaiting attachment for pressing machines. 1,663,069; Mar. 20.

Diener, Hyman, Washington, D. C., assignor to United States Hoffman Machinery Corporation, New York, N. Y. Combination backplate and plaiting attachment for pressing machines. 1,663,368; Mar. 20.

Dion, Arsène, Berkeley, R. I. Shuttle threader block. 1,663,070; Mar. 20.

Dinley, Clarence F., assignor to Rex Products & Manufacturing Company, Detroit, Mich. Metal-cleaning solution. 1,663,446; Mar. 20.

Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Track liner. 1,663,071; Mar. 20.

Doane, Leroy C., Meriden, assignor to The Miller Company, Meriden, Conn. Holder for shades, reflectors, or the like. 1,662,853; Mar. 20.

Dobrowsky, Emmanuel. (See Merkel, S. B., and Dobrowsky.)

Dobson, John, Black River Falls, Wis. Bolt holder. 1,663,369; Mar. 20.

Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,663,295; Mar. 20.

Dodge, Harry, Danvers, Mass. Treatment for hides and skins. 1,663,401; Mar. 20.

Dodds, Ethan I., Central Valley, N. Y., assignor, by mesne assignments, to Flannery Bolt Company. Stay bolt for boilers. 1,663,336; Mar. 20.

Doetsch & Bauer Company. (See Bauer, Carl, assignor.)

Doolan, John T., Edmonton, Alberta, Canada. Draft hitching device. 1,663,246; Mar. 20.

Drem Products Corporation. (See Mayer, Emil, assignor.)

Drenning, Percy R. (See Symington, T. H., and Drenning.)

Driver, William. (See Rittman, J. W., Rood, and Driver.)

Du Barry, Edward G. (See Morris, M. D., and Du Barry.)

Duchsherer, Matthew, Balfour, N. Dak. Automatic railway gate. 1,663,040; Mar. 20.

Dudek, Benjamin F., and R. J. Mandery, Lincoln, Nebr. Toy vehicle. 1,663,121; Mar. 20.

Dunbaugh, George J., jr., assignor to Champion Manufacturing Company, Chicago, Ill. Liquid-level indicator. 1,663,041; Mar. 20.

Dunne, Maurice J., West Orange, N. J. Terminal. 1,662,822; Mar. 20.

Du Pont, E. I., de Nemours & Company. (See Bradner, Donald B., assignor.)

Du Pont, E. I., de Nemours & Company. (See Bridgwater, Ernest R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Coolidge, C., and Eastlack, assignors.)

Du Pont, E. I., de Nemours & Company. (See Davis, Clark W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Jordan, Henry, assignor.)

Du Pont, E. I., de Nemours & Company. (See Reid, Ebenezer E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Reid, E. E., and Burke, assignors.)

Du Pont, E. I., de Nemours & Company. (See Stine, C. M. A., and Coolidge, assignors.)

Du Pont, E. I., de Nemours & Company. (See Stine, Charles M., assignor.)

During, William J., Syracuse, assignor to Precision Castings Company Incorporated, Fayetteville, N. Y. Diecasting machine. 1,663,072; Mar. 20.

Dux, Frank J., Utica, N. Y. Armhole bead for garments. 1,663,042; Mar. 20.

Dwiggins, John W., assignor to The Parrish-Alford Fence and Machine Company, Knightstown, Ind. Wire-fence machine. 1,662,962; Mar. 20.

Eastlack, Herbert E. (See Coolidge, C., and Eastlack.)

Eastman, Ivan L., assignor of one-half to L. E. Eastman, Toledo, Ohio. Oil Concentrator. 1,662,963; Mar. 20.

Eastman Kodak Company. (See Riddell, William A., assignor.)

Eastman, Le Roy E. (See Eastman, Ivan L., assignor.)

Eaton, Clyde L., assignor to Cosmetique Laboratories of America, Portland, Oreg. Jar or similar container. Des. 74,724; Mar. 20.

Eaton, Clyde L., assignor to Cosmetique Laboratories of America, Portland, Oreg. Jar or similar container. Des. 74,725; Mar. 20.

Eaton, Clyde L., assignor to Cosmetique Laboratories of America, Portland, Oreg. Jar or similar container. Des. 74,726; Mar. 20.

Eaton, Clyde L., assignor to Cosmetique Laboratories of America, Portland, Oreg. Jar or similar container. Des. 74,727; Mar. 20.

Ebers, Karl, Ahrensburg, Germany. Purifying and bleaching heavy spar. 1,663,159; Mar. 20.

Ebenhart, Joseph, assignor of one-half to H. J. Silverman, New York, N. Y. Method and apparatus for laying up cloth. 1,663,496; May 20.

Ebner, Alfred J., assignor to Freyn Engineering Company, Chicago, Ill. Tuyère. 1,662,850; Mar. 20.

Ebner, Alfred J., assignor to Freyn Engineering Company, Chicago, Ill. Air-supply system for blast furnaces. 1,662,851; Mar. 20.

Edsall, William H., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery carrier. 1,663,122; Mar. 20.

Edwards, Don J., assignor to The Thomas Laughlin Company, Portland, Me. Link. 1,663,043; Mar. 20.

Edwards, George O., and L. Brown, jr., Montreal, Quebec, Canada. Mitering machine. 1,663,247; Mar. 20.

Edwards, Harry E., Niles, Ohio. Machine for charging and discharging annealing ovens, etc. 1,663,370; Mar. 20.

Efcolite Corporation. (See von Nessen, Walter, assignor.)

Egry Register Company, The. (See Neth, George J., assignor.)

Eickmeyer, Earl E., assignor to The National Recording Pump Company, Dayton, Ohio. Device for lapping in valves. 1,663,447; Mar. 20.

Einsele, Robert, assignor, to Rodi & Wienenberger Akt.-Ges. für Bijouterie- & Kettenfabrication, Pforzheim, Germany. Machine for the manufacturing of chain mail in tubular shape. 1,663,448; Mar. 20.

Einstein, Sol, assignor, by mesne assignments to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Internal grinder. 1,662,821; Mar. 20.

Ekstein, Joseph, New York, N. Y. Toy. Des. 74,728; Mar. 20.

Electrical Engineers' Equipment Company. (See Jacobs, Ernest H., assignor.)

Electromatic Appliance Corp. (See Culp, C. K., jr., Barker, and Sturgis, assignors.)

Elliott, Harmon, P., Watertown, Mass. Stencil printing system and apparatus. 1,662,964; Mar. 20.

Ellis, Carleton, Montclair, N. J. Coating and impregnating medium. 1,663,160; Mar. 20.

Eminger, Don, et al. (See Lindsey, George C., assignor.)

Engel, Joseph, assignor to Superloid Manufacturing Company, Incorporated, Brooklyn, N. Y. Lens mounting. 1,663,402; Mar. 20.

Ensign, Emory S., assignor to National Refrigerating Company, New Haven, Conn. Control system for refrigerating apparatus. 1,662,965; Mar. 20.

Enterprise Manufacturing Company, The. (See Pfluger, Charles T., assignor.)

Erskine, Ralph W., South Bend, Ind., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lighting unit. Des. 74,729; Mar. 20.

Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lighting standard. Des. 74,730; Mar. 20.

Eustis, Robert I., and F. S. Beiger, Los Angeles, Calif. Wall case. 1,663,337; Mar. 20.

Evans, George A., Layton, Utah. Fruit-jar sealer. 1,663,123; Mar. 20.

Evinrude Motor Company. (See Hillborn, Herbert J., assignor.)

Evinrude Motor Company. (See Mould, James A., assignor.)

Eynon, Thomas M., Philadelphia, Pa. Operating means for liquid-height indicators. 1,663,532; Mar. 20.

Faber, William C., Pawpaw, Ill. Adjustable deflector for silo fillers. 1,663,161; Mar. 20.

Falster, John H., Oakland, Calif. Locked closure for tank openings. 1,663,296; Mar. 20.

Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,731; Mar. 20.

Feldt, Adolf. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)

Fentress, George E. (See Lowman, M. C., Fentress, and Bane.)

Fiamma, Ermanno, Aquila, Italy. Radio telemechanic system. 1,663,073; Mar. 20.

Fibroc Insulation Company. (See Frederick, Louis T., assignor.)

Field, Jacob W., Peoria, Ill. Game device. 1,663,074; Mar. 20.

Fischer, Philip A., New York, N. Y. Adjustable hat. 1,663,124; Mar. 20.

Fischer, William H., Sharpsburg, Pa. Antiskid device. 1,662,886; Mar. 20.

Flannery Bolt Company. (See Dodds, Ethan I., assignor.)

Flexo-Motive Corporation. (See Schultze, Helmuth A., assignor.)

Foley, Agnes A., Youngstown, Ohio. Playhouse. 1,662,823; Mar. 20.

Foley, John R., Kelso, and M. Hart, Vancouver, Wash. Life preserver. 1,663,268; Mar. 20.

Foley, John W., Bogota, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Substation circuit. 1,662,966; Mar. 20.

Foltz, Irvin W., Reynoldsville, Pa. Ironing-board table. 1,663,449; Mar. 20.

Ford, Michael, Long Beach, Calif. Barrel spigot. 1,663,195; Mar. 20.

Foresman, Robert A., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace wall. 1,662,967; Mar. 20.

Fort Howard Paper Company. (See Shaffer, G. A., and Wirtz, assignors.)

Frailey, Pierre L., Cleveland, Ohio. Bottle. Des. 74,732; Mar. 20.

Fralick, Allan. (See Ridgway, A. O., and Fralick.)

Frazier, Pearl G., Ankey, Iowa. Rotary valve structure. 1,663,075; Mar. 20.

Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Composite gear and making same. 1,663,477; Mar. 20.

Frederics, E., Inc. (See Kavle, Oscar C., assignor.)

Freislinger, Josef, Vienna, Austria. Internal-combustion engine provided with an auxiliary charging pump. 1,662,854; Mar. 20.

French & Hecht, Inc. (See Hecht, Joseph L., assignor.)

Freyn Engineering Company. (See Ebner, Alfred J., assignor.)

Fried. Krupp Grusonwerk Aktiengesellschaft. (See Born, Alfred, assignor.)

Fried. Krupp Grusonwerk Aktiengesellschaft. (See Wieghardt, Paul, assignor.)

Fritsch, John A., Pittsburgh, Pa. Worktable. 1,663,248; Mar. 20.

Fruehauf, Oscar A., Detroit, Mich. Clothes-drying rack. 1,663,297; Mar. 20.

Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)

Fuel Corporation. (See Patterson, Reginald H., assignor.)

Fuldauer, Frederick L., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Lighter for burners of ranges. 1,663,371; Mar. 20.

Furbush, Frank L. (See Sargent, F. G., and Furbush.)

Furlong, James J., Youngstown, Ohio. Antitheft device for automobiles. 1,663,044; Mar. 20.

Gagne, Louis, Willow Bunch, Saskatchewan, Canada. Dispensing device. 1,663,338; Mar. 20.

Gallagher, Arthur D. (See Graham, W. S., and Gallagher.)

Garey, David, and W. B. Tishler, Providence, R. I. Combined lamp and reflector. Des. 74,734; Mar. 20.

Garner, Charlie R., Chase City, Va. Hack-saw frame. 1,663,076; Mar. 20.

Garrett, Lee, Borger, Tex. Tire alarm. 1,662,968; Mar. 20,

Gathmann, Emil, assignor to The Gathmann Engineering Company, Baltimore, Md. Shrink-head casing for ingot molds. 1,663,450; Mar. 20.

Gathmann Engineering Company, The. (See Gathmann, Emil, assignor.)

Gaume, Louis E., Akron, Ohio. Garment hanger. 1,662,855; Mar. 20.

Gaw-O'Hara Envelope Company. (See Ahlquist, Eugene F., assignor.)

Gear Grinding Machine Company, The. (See Logue, Charles H., assignor.)

Geer, William C., Akron, Ohio, and C. F. Sherwood, San Francisco, Calif., assignors to The B. F. Goodrich Company, New York, N. Y. Rubber filter sheet. 1,663,298; Mar. 20.

Gehrke, Max. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)

General Electric Company. (See Hilliard, John D., assignor.)

General Fire Extinguisher Company. (See Barrows, George S., assignor.)

Gerace, Giuseppe, and J. W. Weaver, Lebanon, Pa. Batter-measuring machine. 1,662,969; Mar. 20.

Gessner, George L., Toledo, Ohio. Coffeepot. 1,663,162; Mar. 20.

Geuring, Bernard A. and L. H., East Cleveland, Ohio. Gas burner. 1,663,339; Mar. 20.

Geurink, Louis H. (See Geurink, Bernard A. and L. H.)

Gibbons, John R., Pleasant Ridge, Mich. Door-operating mechanism. 1,663,196; Mar. 20.

Gibson, Jefferson C., Chicago, Ill. Oil burner. 1,663,045; Mar. 20.

Gillespie, Melvin E., Regina, Saskatchewan, Canada. Combination humidifier and decarbonizer. 1,663,163; Mar. 20.

Gilman, George H., Boston, Mass. Drilling machine. 1,663,403; Mar. 20.

Gisholt Machine Company. (See Grumrine, Kennedy H., assignor.)

Glasnapp, Charles W., assignor to The Kelsey Press Company, Meriden, Conn. Printing press. 1,663,197; Mar. 20.

Globe-Wernicke Co., The. (See Ringler, William A., assignor.)

Goetz, Oscar H., Bridgeport, Conn., assignor to American Chain Company, Inc. Automobile bumper bracket. 1,663,269; Mar. 20.

Goldman, Max, Los Angeles, Calif. Bow-tie rack. Des. 74,733; Mar. 20.

Goodrich, Chauncey M., Windsor, Ontario, Canada. Air-supply connection for turntables. 1,663,372; Mar. 20.

Goodrich, B. F., Company, The. (See Ambler, Robert R., assignor.)

Goodrich, B. F., Company, The. (See Geer, W. C., and Sherwood, assignors.)

Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)

Goodrich, B. F., Company, The. (See Mell, Tod J., assignor.)

Gottwald, Louis F., Syracuse, N. Y. Adjustable partition for dough troughs. 1,663,046; Mar. 20.

Gozzo, Michael, et al. (See Lindsey, George C., assignor.)

Graham, William S., and A. D. Gallagher, Canton, assignors, to International Harvester Company, Chicago, Ill. Tractor cultivator. 1,663,249; Mar. 20.

Graham, William S., Canton, Ill., assignor to International Harvester Company. Tractor hitch. 1,663,250; Mar. 20.

Grasselli Dyestuff Corporation. (See Guenther, A., Haller, and Köster, assignors.)

Gravenstine, George E., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Radiator cap. Des. 74,735; Mar. 20.

Gray, Garold C. J., Hastings, Nebr. Attachment for automobile radiators. 1,663,047; Mar. 20.

Green, J. Birchard, Chicago, Ill. Coating for welding or cutting rods. 1,663,004; Mar. 20.

Greengus, Isadore, Providence, R. I. Clock case. Des. 74,736; Mar. 20.

Gretchen Company, San Francisco, Calif. Doll. Des. 74,720; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories, Inc. Lamp column. Des. 74,737; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories Inc. Lamp column. Des. 74,738; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories Inc. Lamp column. Des. 74,739; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories Inc. Lamp arm. Des. 74,740; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories Inc. Lamp arm. Des. 74,741; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories Inc. Lamp arm. Des. 74,742; Mar. 20.

Grien, Joseph, Chicago, Ill., assignor to Hamilton-Ross Factories Inc. Lamp arm. Des. 74,743; Mar. 20.

Griffith, Palmer W., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Treating calcium cyanide. 1,663,125; Mar. 20.

Grimshaw, Benjamin F., Stockton, Calif. Signpost. Des. 74,744; Mar. 20.

Grist, George, Norton St. Philip, near Bath, assignor to R. A. Lister & Company Limited, Dursley, Gloucestershire, England. Power-driven vehicle. 1,663,299; Mar. 20,

Grosse, Carl, Berlin-Hermsdorf, Germany. Safety device for electric lines. 1,662,970; Mar. 20.
Gubelmann, Ivan. (See Adams, R., Davidson, and Gubelmann.)
Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Purification of 3:4-dichloroaniline. 1,663,251; Mar. 20.
Guenther, Alfred, Cologne-Riehl, J. Haller, Wiesdorf, and E. Köster, Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing with basic dyestuffs involving the use of aryl derivatives of amides of aromatic hydroxy-carboxylic acids as mordants. 1,663,451; Mar. 20.
Günther, Fred. Peru, Ill. Silo seal. 1,663,478; Mar. 20.
Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Unloading system. 1,662,918; Mar. 20.
Halick, James. (See Boucek, J., Halick, and Trefney.)
Haller, Josef. (See Guenther, A., Haller, and Köster.)
Hallock, William I., Los Angeles, Calif. Glue gun. 1,663,077; Mar. 20.
Halper, Samuel H., Detroit, Mich. Striker plate. 1,663,300; Mar. 20.
Hamilton-Ross Factories, Inc. (See Grien, Joseph, assignor.)
Hammermeister, Otto. (See Moecker, H., jr., Thompson, and Hammermeister.)
Hands, Sidney G., Davenport, Iowa. Indoor football game. 1,663,404; Mar. 20.
Hanna Engineering Works. (See Hanna, John C., assignor.)
Hanna, John C., Evanston, assignor to Hanna Engineering Works, Chicago, Ill. Suspension mechanism. 1,662,850; Mar. 20.
Hansen, Conrad T., Detroit, Mich., assignor to The American Motor Body Corporation, Philadelphia, Pa. Car-seat construction. 1,663,126; Mar. 20.
Hanson, Haakon P., assignor to Olson Manufacturing Company, Albert Lea, Minn. Water bowl for stock. 1,663,340; Mar. 20.
Harper, Solomon, assignor to C. L. Miller, New York, N. Y. Electrical hair-treating implement. 1,663,078; Mar. 20.
Harris, Harry A., Chicago, Ill. Window-washing machine. 1,662,887; Mar. 20.
Harrison, Cecil B., Hollywood, assignor, by mesne assignments, to Bankers Equipment Company, Los Angeles, Calif. Posting tray. 1,663,198; Mar. 20.
Harriss, Robert I., Punta Gorda, Fla. Lifting jack. 1,662,921; Mar. 20.
Hart, Charles A., Walla Walla, Wash. Bracelet link. 1,663,079; Mar. 20.
Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting and like machine. 1,663,374; Mar. 20.
Hart & Hutchinson Company, The. (See Hart, M. S., and Steele, assignors.)
Hart, Marjorie. (See Foley, J. R., and Hart.)
Hart, Maxwell S., New Britain, and M. G. Steele, Hartford, assignors to The Hart & Hutchinson Company, New Britain, Conn. Radiator. 1,663,301; Mar. 20.
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartson, Earl S., Los Angeles, Calif. Underreamer. 1,663,048; Mar. 20.
Harvey, Aro M., Kansas City, Mo. Press board. 1,663,373; Mar. 20.
Harwood, John F., New York, N. Y. Perfume-vending machine. 1,662,910; Mar. 20.
Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. Re16911; Mar. 20.
Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Yarn spool. 1,663,498; Mar. 20.
Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Machine for affixing ferrules to wooden rollers of the like. 1,663,499; Mar. 20.
Hawley, Charles G. (See Schutz, Joseph M., assignor.)
Hazeltine, Benjamin F., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Preventing oxidation of metal pipe while cooling. 1,663,497; Mar. 20.
Hecht, Joseph L., assignor, by mesne assignments, to French & Hecht, Inc., Davenport, Iowa. Wheel hub. 1,663,127; Mar. 20.
Heddon, Charles, assignor to James Heddon's Sons, Dowagiac, Mich. Fish bait. 1,663,080; Mar. 20.
Heddon's, James, Sons. (See Heddon, Charles, assignor.)
Helter, Henry L., Brooklyn, N. Y. Container. 1,662,857; Mar. 20.
Helman, August E., assignor to The W. S. Tyler Company, Cleveland, Ohio. Screen fastener. 1,663,164; Mar. 20.
Helmer, Moses J., St. Paul, Minn. Hydraulic jack. 1,662,922; Mar. 20.
Hendee, Lem E., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Solderless connecter. 1,663,005; Mar. 20.
Hendrick, Victor P., et al. (See Lindsey, George C., assignor.)
Herbrick, Milton B., Omaha, Nebr. Fuse holder for electrical circuit. 1,663,252; Mar. 20.
Hercules Powder Company. (See Murry, J. T., and Patterson, assignors.)
Herlick, Martin H., Long Beach, Calif. Bottle top. 1,663,405; Mar. 20.
Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Automatic volume control for telephone lines. 1,662,888; Mar. 20.
Hershman, Frank. (See Hershman, Helen G. and F.)
Hershman, Helen G. and F. Miller, S. Dak. Wheel-aligning device. 1,663,452; Mar. 20.
Hershman, Okla H., Indianapolis, Ind. Dispensing-pump casing. Des. 74,745; Mar. 20.
Hertzberg, Harry, Brooklyn, assignor to M. Propp Co., New York, N. Y. Snap switch. 1,663,081; Mar. 20.
Herzl, Mark, New York, N. Y. Auxiliary power system for aerial vessels. 1,663,302; Mar. 20.
Heuser, Ralph V., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Guanidine compound. 1,663,128; Mar. 20.
Hickok Manufacturing Company. (See Houghtaling, Guy R., assignor.)
Hill, Alvin J., and G. Purnell, Angleton, Tex. Advertising device. 1,663,165; Mar. 20.
Hill, Boardman J., Des Moines, Iowa. Ink-cleaning device for flat-bed cylinder printing presses. 1,663,049; Mar. 20.
Hillborn, Herbert J., assignor to Evinrude Motor Company, Milwaukee, Wis. Pump attachment for outboard-motor engines. 1,663,253; Mar. 20.
Hilliard, John D., assignor to General Electric Company, Schenectady, N. Y. Electric switch. Re16,912; Mar. 20.
Hiles, John N. (See Stump, O. R., and Hiles.)
Hines, Homer A. (See Snoddy, C. S., Hines, and Megonigle.)
Hirsch, Joseph, Yonkers, N. Y., assignor to Kops Bros. Inc. Elastic webbing. 1,663,303; Mar. 20.
Hirschman, William F., Buffalo, N. Y. Rotary ventilator. 1,663,199; Mar. 20.
Hoeckele, Carl, assignor to New Jersey Chain Corporation, Newark, N. J. Bracelet. 1,663,304; Mar. 20.
Holbrook, Newton D., Thomaston, Conn. Operating mechanism for timepieces. 1,662,920; Mar. 20.
Holmes, Harry W., and E. B. Phillips, assignors to Phillips and Davies, Kenton, Ohio. Sluice gate. 1,663,406; Mar. 20.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,824; Mar. 20.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,662,825; Mar. 20.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,662,826; Mar. 20.
Holzverkohlungs-Industrie A. G. (See Róka, Koloman, assignor.)
Hopkinson, Joseph, assignor to Dayton Scale Company, Dayton, Ohio. Weighing method. 1,663,129; Mar. 20.
Houghtaling, Guy R., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. 1,663,006; Mar. 20.
Houghton, Harry W., Glen Echo, Md., assignor to Safety Fumigant Company, Boston, Mass. Fumigant material and package. 1,663,082; Mar. 20.
Houghton, Herbert, Los Angeles, Calif. Ignition tester. 1,663,130; Mar. 20.
Howe, Fred M., Wellsboro, Pa. Cap gun. 1,662,971; Mar. 20.
Howse, Curtis L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Ram drive for underfeed stokers. 1,663,513; Mar. 20.
Hubbard, Albert S., New York, N. Y. Electric converter. 1,662,889; Mar. 20.
Hudson, James E., Galva, Ill. Paper holder. 1,663,305; Mar. 20.
Huey, Horace G., and D. Y. Pierson, Vineland, N. J. Device for picking poultry. 1,662,972; Mar. 20.
Hufferd, George H., Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio. Making tie-rod ends. 1,663,254; Mar. 20.
Hughes, John A., Waco, Tex. Desk. 1,663,407; Mar. 20.
Hume, Walter R., Melbourne, Victoria, Australia. Automatic control device for electric-arc welding apparatus. 1,662,858; Mar. 20.
Hume, Walter R., Melbourne, Victoria, Australia. Vehicle for transporting pipes and other loads. 1,662,923; Mar. 20.
Hussa, Oscar. (See Kemp, Irving L., assignor.)
Hutchinson, Oliver C. K., assignor to Illinois Glass Company, Alton, Ill. Checking molds designed for the molding of glassware. 1,663,306; Mar. 20.
Huttig Manufacturing Co. (See Brandau, Harold L., assignor.)
Hydro-Press Machines Limited. (See Baker, F. S., and Richards, assignors.)
Hynes & Cox Electric Corporation. (See Hynes, Lee P., assignor.)
Hynes, Lee P., Albany, assignor to Hynes & Cox Electric Corporation, Albany, N. Y. Electric pipe heater. 1,663,255; Mar. 20.
Ideal Electric & Manufacturing Company, The. (See Schou, T., and Behrens, assignors.)

Ihrig, Louis G., assignor to Standard Mattress and Furniture Manufacturing Company, San Diego, Calif. Mattress. 1,662,978; Mar. 20.
Illinois Glass Company. (See Hutchinson, Oliver C. K., assignor.)
Individual Drinking Cup Company. (See Wessman, Edwin G., assignor.)
Industrial Technics Corporation. (See Arsem, William C., assignor.)
Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
Innovation Specialties Co. (See Booty, Philip C. P., assignor.)
International Bleaching Corporation. (See Bragg, Alfred O., assignor.)
International Combustion Engineering Corporation. (See Schwartz, Carl, assignor.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Bucknam, Frederick A., assignor.)
International Harvester Company. (See Graham, William S., assignor.)
International Harvester Company. (See Graham, W. S., and Gallagher, assignors.)
International Register Company. (See Colby, Vincent V., assignor.)
Ironton Engine Company, The. (See Allfree, E. H., and Williams, assignors.)
Irving-Pitt Manufacturing Company. (See Cederleaf, Clarence A., assignor.)
Irving-Pitt Manufacturing Company. (See Van Valkenburgh, Richard M., assignor.)
Jackson, Glenn L., Chicago, Ill. Bookmark. 1,663,307; Mar. 20.
Jacobs, Ernest H., assignor to Electrical Engineers' Equipment Company, Chicago, Ill. Electric-conductor support. 1,663,007; Mar. 20.
James, Frederic W. (See Nelson, N. P., and James.)
Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 74,747; Mar. 20.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 74,746; Mar. 20.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Support arm. Des. 74,748; Mar. 20.
Jaques, Fernando O., jr., Providence, R. I. False-teeth tooth crown. 1,662,924; Mar. 20.
Jenkins, Carolyn T., Dunbar, Nebr. Udder protector. 1,663,407; Mar. 20.
Jenkins, Charles F., Washington, D. C. Light-concentrating device. 1,663,308; Mar. 20.
Johnson, Gust, Orrin, N. Dak. Draft equalizer. 1,663,270; Mar. 20.
Johnson, John O., New Haven, Conn. Screw-thread tolerance indicator. 1,663,341; Mar. 20.
Johnson, Lane, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Rolling-mill driving spindle. 1,663,533; Mar. 20.
Johnson, Norman E., assignor to Chicago Rhopac Products Company, Chicago, Ill. Mold for making packing or the like. 1,663,050; Mar. 20.
Johnson, Roy W., Chicago, Ill., assignor to Lester-Johnson Co., Minneapolis, Minn. Headlight reflector. 1,663,008; Mar. 20.
Johnson, William R., Seattle, Wash. Decoy. 1,663,009; Mar. 20.
Johnson, William W., Vincennes, Ind., assignor of one-half to W. Steincamp, Little Rock, Ark. Tire carrier and remover. 1,662,974; Mar. 20.
Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Co., New York, N. Y. Clamp. 1,662,859; Mar. 20.
Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Company, New York, N. Y. Scaffold. 1,663,131; Mar. 20.
Jones, Lester L., Oradell, N. J. Variable grid leak. 1,663,166; Mar. 20.
Jönsson, Anders, Hälsingborg, Sweden. Resistance welding machine. 1,663,200; Mar. 20.
Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Trisazo dyes for cotton and making the same. 1,663,454; Mar. 20.
Joslyn, Dayton S., assignor to H. Carstens Mfg. Co., Chicago, Ill. Pessary. 1,662,925; Mar. 20.
Judd, H. L., Company. (See Edsall, William H., assignor.)
Kadel, Henry D., Brooklyn, N. Y. Electric bulb. Des. 74,749; Mar. 20.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Variable element. 1,663,010; Mar. 20.
Katz, Harry M., New York, N. Y. Fender. 1,663,051; Mar. 20.
Kavle, Oscar C., Syracuse, assignor to E. Frederics, Inc., New York, N. Y. Spring reel for conductors. 1,663,083; Mar. 20.
Kehm, August, Chicago, Ill. Pipe fitting. 1,663,271; Mar. 20.
Keith, George, assignor to James Keith & Blackman Company, London, England. Apparatus for delivering a mixture of gas and air. Re16,906; Mar. 20.
Keith, James, & Blackman Company. (See Keith, George, assignor.)
Kellar, Francis A., assignor to J. L. MacInerney, Grand Rapids, Mich. Spring-containing strip. 1,663,272; Mar. 20.
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
Kelly, William J. (See Schunck, C. D., and Kelly.)
Kelsey Press Company, The. (See Glasnapp, Charles W., assignor.)
Kemp, Irving L., Milton, assignor to O. Hussa, Watertown, Mass. Boiler cleaner. 1,663,273; Mar. 20.
Kerns, Adln U., Altoona, Pa. Hopper car. 1,662,926; Mar. 20.
Kingman, Russell B., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Scouring device. 1,663,132; Mar. 20.
Kirchner, Henry W., St. Louis, Mo. Transportation system. 1,663,375; Mar. 20.
Kirk, Morris P., Los Angeles, Calif. Safety signal. 1,663,133; Mar. 20.
Kirsch, Charles W., assignor to Kirsch Manufacturing Company, Sturgis, Mich. Fixture mounting for metal window casings. 1,662,927; Mar. 20.
Kirsch, Charles W., assignor to Kirsch Manufacturing Company, Sturgis, Mich. Composite drapery suspension fixture. 1,662,928; Mar. 20.
Kirsch Manufacturing Company. (See Kirsch, Charles W., assignor.)
Klein, Rudolph, Rochester, assignor, by mesne assignments, to Ansco Photoproducts, Inc., Binghamton, N. Y. Photographic shutter. 1,662,827; Mar. 20.
Knaster, Leon, Union City, N. J. Home desk. 1,663,377; Mar. 20.
Kober, Philip A., Evanston, assignor to G. D. Searle & Co., Chicago, Ill. Making bismuth tartrates and product produced thereby. 1,663,201; Mar. 20.
Koehring Company. (See Russell, Leslie A., assignor.)
Koester, Walter, New York, N. Y. Massage apparatus. 1,663,167; Mar. 20.
Kohler Company. (See Brotz, Frank G., assignor.)
Koller, John, Johnstown, N. Y. Slipper. 1,663,376; Mar. 20.
Köllner, Josef, Schaffhausen, Switzerland. Feeding bottle for infants. 1,663,342; Mar. 20.
Kops Bros. Inc. (See Hirsch, Joseph, assignor.)
Köster, Erwin. (See Guenther, A., Haller, and Köster.)
Krause, Arthur, Woodhaven, N. Y., assignor to Lion Electric Manufacturing Company, Inc. Wall lighting fixture. Des. 74,750; Mar. 20.
Kritchevsky, Wolf, Chicago, Ill. Hair dye. 1,663,202; Mar. 20.
Kroder, John, and Henry Reubel Company. (See Crawford, James O., assignor.)
Kroh, Edward A., Stella, assignor of one-half to L. L. Poe, Lincoln, Nebr. Clear-vision device for automobile windshields. 1,663,500; Mar. 20.
Krotz, Alvaro S. (See Manning, Elmer J., assignor.)
Kuhns, Anthony R. (See Snell, John B., assignor.)
Kutter, Herman L., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper-making machine. 1,662,929; Mar. 20.
Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Line-conductor insulator. 1,663,011; Mar. 20.
La Coursiere, Louis C. (See Miller, Rudolph, assignor.)
Lalund, Per, Hovik, near Oslo, assignor to Nyegaard & Co., A/S, Oslo, Norway. Bactericidal preparation. 1,662,930; Mar. 20.
Lamson, Hubert J. (See Danna, Frank P., assignor.)
Landaiche, Joseph T., Thibodaux, La. Cane stripping and topping machine. 1,663,409; Mar. 20.
Landis Tool Company. (See Stoner, Paul, assignor.)
Landry, Louis, Berwick, Me. Centrifugal brake mechanism. 1,663,012; Mar. 20.
Lane, Alfred M., St. Louis, Mo. Metal window construction. 1,663,134; Mar. 20.
Lang, Matthew, Akron, Ohio. Apparatus for producing clay products. 1,663,309; Mar. 20.
Langmack, John J., Portland, Oreg. Automatic oil pump with sight feed. 1,663,052; Mar. 20.
Larson, Andrew G. (See Larson, Carl H. and A. G.)
Larson, Carl H. and A. G., San Francisco, Calif. Hose reel. 1,663,410; Mar. 20.
Latour Corporation. (See Latour, Marius, assignor.)
Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Static frequency multiplier and modulator. 1,663,135; Mar. 20.
Laubscher, Charles R., Richmond Hill, N. Y. Folding eyeglasses. 1,663,053; Mar. 20.
Laughlin, Thomas, Company, The. (See Edwards, Don J., assignor.)
Law, Cecil, Golders Green, England. Two-stroke-cycle internal-combustion engine. 1,662,828; Mar. 20.
Lea, Charles, Milton, assignor to Shawmut Engineering Company, Boston, Mass. Tube frame. 1,663,501; Mar. 20.
Lea, Charles Milton, assignor to Shawmut Engineering Company, Boston, Mass. Yarn spool for tube frames. 1,663,502; Mar. 20.

Lear, Max M., assignor to Monarch Refillable Fuse Company, Jamestown, N. Y. Renewable fuse. 1,663,343; Mar. 20.

Lebert, Louis, Pantin, assignor to Societe des Anciens Etablissements A. Savy, Jeanjean & Co., Courbevoie, France, Baker Perkins, Ltd., London, England, and himself. Waffle iron or mold. 1,663,378; Mar. 20.

Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment steam and air press. 1,662,975; Mar. 20.

Ledbetter, James C., New York, assignor to The Prosperity Company, Inc., Syracuse N. Y. Conveyer garment press. 1,662,976; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Door for automobile bodies. Re16,907; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile door. 1,663,514; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Pressed-metal sedan door. 1,663,515; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Door for automobile bodies. 1,663,516; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Door construction. 1,663,517; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Pressed-metal vehicle door. 1,663,518; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Door for automobile bodies. 1,663,519; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Pressed-metal vehicle door. 1,663,520; Mar. 20.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Pressed-metal vehicle door. 1,663,521; Mar. 20.

Legge, Thomas A., Chicago, Ill., assignor to The Adams & Westlake Company. Sash latch. 1,662,829; Mar. 20.

Le May, Clarence C. (See Bull, Clinton H., assignor.)

Leonard, Thomas C., Glasgow, Scotland. Endless belt conveyer. 1,663,344; Mar. 20.

Leslie, John L., New York, N. Y. Heat-insulated vessel for food. 1,662,860; Mar. 20.

Lester-Johnson Co. (See Johnson, Roy W., assignor.)

Lewis, Leroy M., Ardmore, assignor to Central Automatic Sprinkler Company, Philadelphia, Pa. Retarding valve for automatic sprinkler systems. 1,663,136; Mar. 20.

Lievre, Joseph R., Mexico, Mexico, assignor of one-tenth to L. D. Ornsby, Bexar County, Tex. Push rod. 1,663,345; Mar. 20.

Lindsey, George C., Los Angeles, Calif., assignor of seven thirty-seconds to M. Gozzo, one-eighth to D. Eminger, six thirty-seconds to V. P. Hendricks, and four thirty-seconds to R. Turner. Sound reproducer. 1,663,256; Mar. 20.

Line Material Company. (See Hendee, Lem E., assignor.)

Line Material Company. (See Kyle, William D., assignor.)

Ling, Stephen G., Cleveland, Ohio. Piston-ring compressor. 1,663,084; Mar. 20.

Lion Electric Manufacturing Company. (See Krause, Arthur, assignor.)

Lipper, Lawrence, Honston, Tex. Metal window guide. 1,663,274; Mar. 20.

Lippert, Aloysius C., Kenosha, Wis., assignor to The Norlipp Company, Chicago, Ill. Radiator cap. 1,663,054; Mar. 20.

Lister, R. A., & Company Limited. (See Grist, George, assignor.)

Little, William M., and J. L. Sherman, Norphlet, Ark. Separator. 1,663,411; Mar. 20.

Logan, Tom P., Columbus, Ohio. Battery terminal. 1,663,013; Mar. 20.

Logue, Charles H., Syracuse, N. Y., assignor to The Gear Grinding Machine Company, Detroit, Mich. Apparatus for testing bevel-gear teeth. 1,663,085; Mar. 20.

Long, Maurice B., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Indicating frequency changes. 1,663,086; Mar. 20.

Louzon, Duffey B. (See Shilling, C. S., and Louzon.)

Lowman, Malden C., and G. E. Fentress, Los Angeles, and R. Bane, Fullerton, Calif. Well-underreaming tool. 1,663,014; Mar. 20.

Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn-Loom Corporation, New York, N. Y. Harness mechanism for looms. 1,662,931; Mar. 20.

Lucas-Lamborn-Loom Corporation. (See Lucas, Jonathan, assignor.)

Luipersbek, Frank, Boundbrook, N. J. Banister-construction joint. 1,663,203; Mar. 20.

Lukomski, John B., Detroit, Mich. Molding apparatus. 1,663,455; Mar. 20.

Lund, George H., assignor to Made-Ready Plate Corporation, Chicago, Ill. Printer's register apparatus. 1,662,830; Mar. 20.

Lykken, Henry G. (See Wilson, W. E., and Lykken.)

Lyons, Edward, assignor to Parke, Davis & Company, Detroit, Mich. Organic mercury compound. 1,663,204; Mar. 20.

Lyons, Edward, assignor to Parke, Davis & Company, Detroit, Mich. Organic mercury compound. 1,663,205; Mar. 20.

MacAulay, William T., Brooklyn, assignor to The Carborundum Company, Niagara Falls, N. Y. Segmental grinding wheel. 1,663,310; Mar. 20.

MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making footwear. 1,663,456; Mar. 20.

MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making footwear. 1,663,457; Mar. 20.

MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Lasting machine. 1,663,458; Mar. 20.

MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Lasting machine. 1,663,459; Mar. 20.

MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making footwear. 1,663,460; Mar. 20.

MacDonald, Frank J., Ellet, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Manipulating device for sheet material. 1,663,461; Mar. 20.

MacDonald, Frank J., Ellet, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for forming shoe linings or the like. 1,663,462; Mar. 20.

MacInerney, J. L. (See Chesley, Frank P., assignor.)

MacInerney, James L. (See Kellar, Francis A., assignor.)

Mack, David F., Winnipeg, Manitoba, Canada. Price-indicating machine. 1,663,108; Mar. 20.

Mack, Richard, Berlin-Templehof, Germany. Electric spot-welding machine. 1,663,137; Mar. 20.

MacKenzie, Roderick A., Dishman, Wash. Grading machine. 1,663,257; Mar. 20.

MacMillan, Harry, assignor to National Metal Products Company, Philadelphia, Pa. Lavatory fixture. Re16,913; Mar. 20.

MacRae, Thomas, Florence, Ariz. Making and delivering quantitative mixtures. 1,663,206; Mar. 20.

Made-Ready Plate Corporation. (See Lund, George H., assignor.)

Mader, Joseph, assignor, by mesne assignments, to New Beeman Tractor Company, Minneapolis, Minn. Clutch. 1,663,015; Mar. 20.

Magill-Weinsheimer Company. (See Backmyer, Christopher F., assignor.)

Mallory, Marion, Toledo, Ohio. Engine ignition system. 1,663,207; Mar. 20.

Mandery, Roy J. (See Dudek, B. F., and Mandery.)

Manning, Elmer J., Janesville, assignor of one-half to A. S. Krotz, Janesville, Wis. Internal-combustion-engine cooling system. 1,663,016; Mar. 20.

Mapes, Oscar W., Middletown, N. Y. Egg factory. 1,663,479; Mar. 20.

Markon Mfg. Co. Inc. (See Whitehouse, John N., assignor.)

Marschner, Max A., Willow Grove, Pa. Making full-fashioned hosiery and product thereof. 1,663,087; Mar. 20.

Martin, Alfred M., Chicago, Ill. Partition sheet for loose-leaf devices. 1,663,017; Mar. 20.

Marx, Louis, Brooklyn, N. Y. Toy vehicle. 1,663,169; Mar. 20.

Marx, Louis, Brooklyn, N. Y. Roundabout toy. 1,663,379; Mar. 20.

Masche, Lawrence. (See Schultz, W. F., and Masche.)

Mason Fibre Company. (See Mason, William H., assignor.)

Mason, William H., assignor to Mason Fibre Company, Laurel, Miss. Making structural insulating boards of exploded ligno-cellulose fiber. 1,663,503; Mar. 20.

Mason, William H., assignor to Mason Fibre Company, Laurel, Miss. Press-dried structural insulating board and making same. 1,663,504; Mar. 20.

Mason, William H., assignor to Mason Fibre Company, Laurel, Miss. Hard grainless fiber products and making same. 1,663,505; Mar. 20.

Mason, William H., assignor to Mason Fibre Company, Laurel, Miss. Integral insulating board with hard welded surfaces. 1,663,506; Mar. 20.

Matheson, Avery A., assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Display receptacle. 1,663,088; Mar. 20.

Mathews, Benjamin, A., Shreveport, La. Life-saving and salvaging apparatus for use with marine vessels. 1,663,412; Mar. 20.

Matthiessen, Paul, and A. D. Möller, Hamburg, Germany. Testing dock for submarines. 1,663,346; Mar. 20.

Maybach, Karl, Friedrichshafen, assignor to Maybach Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Free-wheel mechanism. 1,663,380; Mar. 20.

Maybach Motorenbau Gesellschaft mit beschränkter Haftung. (See Maybach, Karl, assignor.)

Mayer, Emil, Vienna, Austria, assignor to Drem Products Corporation, New York, N. Y. Bromoil brush. 1,663,208; Mar. 20.

McAuley, Patrick F., Buckner, Ill. Pen and pencil holder. 1,663,055; Mar. 20.

McCabe, Edward B., assignor to Carbondale Machine Company, Carbondale, Pa. Heat interchanger. 1,663,209; Mar. 20.

McCann, George M., Newcastle, Del. Breech-opening mechanism. 1,662,977; Mar. 20.

McCarthy, Thomas F. (See Moss, M., and McCarthy.)

McClelland Casket Hardware Company. (See McClelland, Charles I., assignor.)

McClelland, Charles I., assignor to McClelland Casket Hardware Company, Richmond, Ind. Casket handle. Des. 74,751; Mar. 20.

McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Automatic die press. 1,663,018; Mar. 20.

McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Automatic die-press-stopping mechanism. 1,663,019; Mar. 20.

McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Automatic press-stopping mechanism. 1,663,020; Mar. 20.

McDonald Machine Co. (See McDonald, Charles D., assignor.)

McFarland, Ross, Portland, Oreg. Nail file and clip therefor. 1,663,089; Mar. 20.

McGrew, Earl E., assignor to McGrew Machine Company, Lincoln, Nebr. Bed leg. 1,663,210; Mar. 20.

McGrew Machine Company. (See McGrew, Earl E., assignor.)

McKeever, Garnett R. (See Rich, David, assignor.)

McKendrick, Percy F. (See De La Mare, Thomas, assignor.)

McKinley, Arthur, Kansas City, Mo. Shoe protector. 1,663,381; Mar. 20.

McLaughlin, John E., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming apparatus. 1,662,861; Mar. 20.

McManus, Charles E., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Bottle-cap-assembling machine. 1,662,862; Mar. 20.

McNab, Alexander, Bridgeport, Conn. Logometer. 1,663,211; Mar. 20.

McQuiddy, Robert H., Marshall, Mo. Piston for internal-combustion engines. 1,663,212; Mar. 20.

Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Electrode clamp. 1,663,258; Mar. 20.

Meads, Walter, assignor to Acme Lace Works, Inc., Hightstown, N. J. Lace medallion. Des. 74,752; Mar. 20.

Megling, George C., Canton, Ohio. Scrubbing and drying machine. 1,663,056; Mar. 20.

Megonigle, Hamilton A. (See Snoddy, C. S., Hines, and Megonigle.)

Meissner, Charles, assignor of one-third to C. R. Robinson, San Diego, Calif. Regulating-valve mechanism for gasoline lanterns. 1,662,978; Mar. 20.

Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Producing grained rubber articles. 1,663,275; Mar. 20.

Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)

Merkel, Sonya B., and E. Dobrowsky, New York, N. Y. Water silencer. 1,663,382; Mar. 20.

Metal Textile Corporation. (See Kingman, Russell B., assignor.)

Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor regulator and unloader. 1,663,530; Mar. 20.

Meyer, Otto, San Antonio, Tex. Washing machine. 1,663,463; Mar. 20.

Meyer, William, Chicago, Ill. Holder for manicure preparations and the like. 1,663,021; Mar. 20.

Mid-Continent Equipment and Supply Company. (See Brown, H., and Uhl, assignors.)

Mid-West Metal Products Company. (See Smith, E. F., and Wilson, assignors.)

Miles, Lester H., Los Angeles, Calif. Apparatus for elevating fluids. 1,663,311; Mar. 20.

Miles, Lester H., Los Angeles, Calif. Apparatus for elevating oil and other fluids. 1,663,312; Mar. 20.

Miles, Thomas V., assignor of one-half to Newton Chambers & Company Limited, near Sheffield, England. Wall for building construction. 1,663,276; Mar. 20.

Miller, Clifford L. (See Harper, Solomon, assignor.)

Miller Company, The. (See Doane, Leroy C., assignor.)

Miller, Murry, New York, N. Y. Bag latch. 1,663,383; Mar. 20.

Miller, Norman B., New York, N. Y. Packing. 1,663,314; Mar. 20.

Miller, Rudolph, assignor of one-half to L. C. La Coorstere, Detroit, Mich. Marine vessel. 1,663,347; Mar. 20.

Milligan, John F. (See Schauman, B. M., and Milligan.)

Millington, John, Bondi, near Sydney, New South Wales, Australia. Clutch and accelerator interlocking mechanism for automobile engines. 1,663,413; Mar. 20.

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Miscampbell, Hugh, Duluth, Minn. Hydrating unit. 1,662,932; Mar. 20.

Mitchell, Ralph W. (See Samuelson, E. A., and Mitchell.)

Mitchell, Woodbury Company. (See Phillips, John E., assignor.)

Mize, Albert H., Greenville, S. C. Variable-speed pulley. 1,663,414; Mar. 20.

Moecker, Henry, jr., Flossmoor, T. Thompson, and O. Hammermeister, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo. Gas-range construction. 1,663,348; Mar. 20.

Möller, Adolf D. (See Matthiessen, P., and Möller.)

Monarch Refillable Fuse Company. (See Lear, Max M., assignor.)

Monroe Auto Equipment Manufacturing Co. (See Myers, Don D., assignor.)

Monroe, William H., Colfax, Iowa. Heater for incubators. 1,663,057; Mar. 20.

Morgan, John R. (See Jandus, H. S., and Morgan.)

Morin, Joseph A., Newark, N. J. Carroting machine. 1,662,933; Mar. 20.

Morris, Milton, D., Buffalo, and E. G. Du Barry, Hamburg, N. Y. Adjustable coupling. 1,663,259; Mar. 20.

Morrison, George A., Park Ridge, assignor to Torchweld Equipment Company, Chicago, Ill. Valve device. 1,663,384; Mar. 20.

Morse, William J., Attleboro, Mass. Belt slide. Des. 74,753; Mar. 20.

Moss, Michael, and T. F. McCarthy, New York, N. Y. Toothpick dispenser. 1,662,831; Mar. 20.

Motherwell, Joseph W., Melrose, Mass., assignor to The Ashton Valve Company. Adjusting mechanism for pressure gauges. 1,663,313; Mar. 20.

Mould, James A., assignor to Evinrude Motor Company, Milwaukee, Wis. Outboard-motor bracket. 1,663,260; Mar. 20.

Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)

Mueller, Arthur W., Cincinnati, Ohio. Cutting machine. 1,662,890; Mar. 20.

Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Gas-stop seal. 1,662,863; Mar. 20.

Mullendore, William W., Knoxville, Tenn. Window shade and curtain hanger. 1,663,090; Mar. 20.

Muller, Carl G. (See Muller, Ernst F. and C. G.)

Muller, Ernst F. and C. G., Oakland, Calif. Piercing machine. 1,663,213; Mar. 20.

Muller, Frederick A., Richmond Hill, and L. L. Basberg, assignors to J. E. Cleary, trading under name of American Air Compressor Works, Brooklyn, N. Y. Compressor-unloader mechanism. 1,663,214; Mar. 20.

Murray, Robert J., assignor to Francis A. Bruner, Inc., Philadelphia, Pa. Valance for window draperies. Des. 74,754; Mar. 20.

Murray, Robert J., assignor to Francis A. Bruner, Inc., Philadelphia, Pa. Valance for window draperies. Des. 74,755; Mar. 20.

Murray, Robert J., assignor to Francis J. Brunner, Inc., Philadelphia, Pa. Valance for window draperies. Des. 74,756; Mar. 20.

Murry, Jasper T., and C. B. Patterson, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del. Apparatus for harvesting stumps. 1,663,277; Mar. 20.

Mutscheller, Arthur, New York, N. Y. Combined vacuum tube and transformer. 1,662,891; Mar. 20.

Myers, Don D., Toledo, Ohio, assignor to Monroe Auto Equipment Manufacturing Co., Monroe, Mich. Recoil-checking device. 1,663,022; Mar. 20.

Nasmith, John W., Manchester, England. Combing machine for textile fibers. 1,663,170; Mar. 20.

National City Bank of New York, The, et al., administrators. (See Broido, Benjamin.)

National Metal Products Company. (See MacMillan, Harry, assignor.)

National Recording Pump Company, The. (See Eickmeyer, Earl E., assignor.)

National Refrigerating Company. (See Ensign, Emory S., assignor.)

National Survault Company. (See Plaggmier, Robert C., assignor.)

Nees, Bernard M., Hyattsville, and Z. Rubottom, Takoma Park, Md. Indention device for typographical machines. 1,662,934; Mar. 20.

Neff, James A., Lakewood, Ohio. Luminous fishing tackle. 1,663,465; Mar. 20.

Nelson, Nels P., and F. W. James, assignors to N. P. Nelson Iron Works Inc., Passaic, N. J. Wagon-loading device for tractors. 1,662,832; Mar. 20.

Nelson, N. P., Iron Works Inc. (See Nelson, N. P., and James, assignors.)

Nelson, Paul R., U. S. Army, Fort Totten, N. Y. Circuit closer. 1,662,979; Mar. 20.

Neth, George J., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. 1,663,023; Mar. 20.

Neumann, R., Hardware Co., The. (See Stuart, Frank T., assignor.)

New Beeman Tractor Company. (See Mader, Joseph, assignor.)

New Beeman Tractor Company. (See Peters, Cornelius A., assignor.)

New Jersey Chain Corporation. (See Hoeckele, Carl, assignor.)

New Jersey Zinc Company, The. (See Peirce, W. M., and Anderson, assignors.)

Newport Company, The. (See Adams, R., Davidson, and Gubelmann, assignors.)

Newport Company, The. (See Gubelmann, I., Welland, and Stallmann, assignors.)

Newton Chambers & Company Limited. (See Miles, Thomas V., assignor.)

Newton, Harry A. (See Yudowitch, Harry.)
New York Lighting Fixture Mfg. Co., The. (See Aglow, Harry, assignor.)
Noblit, Rufus R., Meadville, Pa. Torpedo placer. 1,663,415; Mar. 20.
Nordstrom, Sven J., assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,662,892; Mar. 20.
Norlipp Company, The. (See Lippert, Aloysius C., assignor.)
Norton, George M., Minneapolis, Minn. Cigar lighter. Des. 74,757; Mar. 20.
Noyes, Harry W., West Haven, Conn. Game apparatus. 1,663,024; Mar. 20.
Nyegaard & Co. A/S. (See Laland, Per, assignor.)
Oates, Thomas L., Rhodhiss, N. C. Conveying-pipe cotton cleaner. 1,663,091; Mar. 20.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Connecter for mine cars and the like. 1,662,893; Mar. 20.
Odell, John B., Riverside, Calif. Electric steam radiator. 1,662,935; Mar. 20.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Ohio Rubber Company, The. (See Reynolds, William A., assignor.)
Olson Manufacturing Company. (See Hanson, Haakon P., assignor.)
Oltersdorf, Frederick W., Detroit, Mich. Rotary swing. 1,663,278; Mar. 20.
Ornsby, L. D. (See Lievre, Joseph B., assignor.)
Osborn, Arthur E., Marion, Ind. Paper portfolio. 1,663,171; Mar. 20.
Otto, Alfred Taylor, and R. Otto, Lee County, Tex. Sign-letter plate. 1,663,349; Mar. 20.
Otto, Robert. (See Otto, Alfred and R.)
Owens Bottle Company, The. (See Cramer, Albert N., assignor.)
Owens Bottle Company, The. (See McLaughlin, John E., assignor.)
Palmer, Ernest E., Toronto, assignor to Appleford Counter Check Book Company, Limited, Hamilton, Ontario, Canada. Packaging waxed-paper sheets. 1,662,980; Mar. 20.
Palmer, Jesse E. (See Cooke, Joe R., assignor.)
Parke, Davis & Company. (See Lyons, Edward, assignor.)
Parker, Charles F., San Francisco, Calif., assignor to Western Safety Manufacturing Company, Inc. Switch-operating mechanism. 1,663,138; Mar. 20.
Parrish-Alford Fence and Machine Company, The. (See Dwiggins, John W., assignor.)
Parsels, William B., Pleasantville, N. J. Casket-retaining device. 1,663,172; Mar. 20.
Parsons, Charles E., Englewood, N. J., assignor to W. P. Deppe, New York, N. Y. Preparing a dry gaseous-fuel mixture for internal-combustion engines. 1,663,507; Mar. 20,
Parys, Andy, Canton, Ohio. Shearing machine. 1,663,092; Mar. 20.
Pass & Seymour Inc. (See Thompson, Don N., assignor.)
Patterson, Clare B. (See Murry, J. T., and Patterson.)
Patterson, Reginald H., assignor to Fuelo Corporation, Washington, D. C. Oil burner. 1,662,895; Mar. 20.
Pawling, George F., Philadelphia, Pa. Attaching means for steel laths. 1,662,896; Mar. 20.
Pazowski, Andrew P., Edmonton, Alberta, Canada. Buttonless drawers. 1,662,981; Mar. 20.
Pearce, H. E. (See Daniel, Earle H., assignor.)
Peck, Jacob G., Portland, Oreg. Refrigerator for two-temperature cabinets. 1,663,481; Mar. 20.
Peck, Jacob G., Portland, Oreg. Two-temperature refrigerating and cooling cabinet. 1,663,482; Mar. 20.
Peerless Pump Company. (See Wintroath, John A., assignor.)
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Manufacture of glass tubing and cane. 1,663,093; Mar. 20.
Peppin, Joseph, Sciota, N. Y. Gliding projectile. 1,663,058; Mar. 20.
Perkins, Freeman, Seabrook, N. H. Shoe and making the same. 1,663,094; Mar. 20.
Permold Company, The. (See Vaughan, Conrad, assignor.)
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Building material. 1,663,095; Mar. 20,
Peters, Cornelius A., assignor, by mesne assignments, to New Beeman Tractor Company, Minneapolis, Minn. Tractor. 1,662,982; Mar. 20.
Petersen, Christian, Portland, Me. Game board. 1,662,864; Mar. 20.
Peterson, John J., Steubenville, Ohio. Cleaning and abrasive device. 1,663,059; Mar. 20.
Pfager, Harry M. (See Ashe, W. O., and Pfager.)
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Hook holder for fishing rods. 1,662,983; Mar. 20.
Philipp, Robert, Washington, D. C. Chamfering device. 1,662,936; Mar. 20.
Philips and Davies. (See Holmes, H. W., and Philips, assignors.)
Philips, Erwin B. (See Holmes, H. W., and Philips.)
Phillips, John E., Chicago, Ill., assignor to Mitchell, Woodbury Company, Boston, Mass. Plate or similar article. Des. 74,758; Mar. 20.
Phipps, John T., Huntington Park, assignor to H. C. Smith Manufacturing Company, Whittier, Calif. Core drill. 1,663,025; Mar. 20.
Phipps, John T., Huntington Park, assignor to H. C. Smith Manufacturing Company, Whittier, Calif. Core drill. 1,663,096; Mar. 20.
Pierce, Earl F., deceased, Chicago, Ill.; Central Trust Company of Illinois, administrator, assignor to F. E. Pierce. Indicating means. 1,663,483; Mar. 20.
Pierce, Earl F., deceased, Winnetka, Ill.; Central Trust Company of Illinois, administrator, assignor to F. E. Pierce. Liquid-level gauge. 1,663,484; Mar. 20.
Pierce, Earl F., deceased, Winnetka, Ill.; Central Trust Company of Illinois, administrator, assignor to F. E. Pierce. Liquid-level gauge. 1,663,485; Mar. 20.
Pierce, Edwin B., Brooklyn, N. Y. Feeding device for book-sewing machines. 1,662,897; Mar. 20.
Pierce, Florence E. (See Pierce, Earl F., assignor.)
Pierce, Willis M., and E. A. Anderson, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Zinc-base alloy. 1,663,215; Mar. 20.
Pierson, Donald Y. (See Huey, H. G., and Pierson.)
Ploda, Louis E. W., San Francisco, Calif. Process of and apparatus for controlling the movement of masses of solids of various sizes. 1,663,173; Mar. 20.
Pittoni, Louis E., Jamaica, and G. F. Sisbower, Flushing, N. Y., assignors to Rome Metallic Bedstead Company. Connecting means for springs. 1,663,315; Mar. 20.
Plaggmier, Robert C., Taylor, assignor to National Survault Company, Bismarck, N. Dak. Burial vault. 1,663,464; Mar. 20.
Plantinga, Pierre, deceased, Cleveland, Ohio; The Cleveland Trust Company, executor. Carbonizing and gas-making apparatus. 1,663,522; Mar. 20.
Poe, L. L. (See Kroh, Edward A., assignor.)
Poldy, Joseph L., New York, N. Y. Cigar-bunch-making machine. 1,663,174; Mar. 20.
Portt, Byron A., Bay City, Mich. Window scaffold. 1,663,279; Mar. 20.
Powell, Alvah L., assignor to The A. L. Powell Power Company, Incorporated, Miles City, Mont. Engine. 1,663,261; Mar. 20.
Powell, A. L., Power Company, The. (See Powell, Alvah L., assignor.)
Powell, John W., Martins Ferry, Ohio. Coating metal articles. 1,662,865; Mar. 20.
Precision Castings Company Incorporated. (See During, William J., assignor.)
Prieur, Ernest, Flint, Mich. Fish lure. Des. 74,759; Mar. 20.
Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to United Shoe Machinery Corporation, Boston, Mass. Automatic shoe-making machine. 1,663,097; Mar. 20.
Proctor, Robert V., assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio. Making sheet-metal articles. 1,663,316; Mar. 20.
Propp, M., Co. (See Hertzberg, Harry, assignor.)
Prosperity Company, The. (See Ledbetter, James C., assignor.)
Prosperity Company, The. (See Stoddard, Hart A., assignor.)
Purnell, Guy. (See Hill, A. J., and Purnell.)
Pursell, Arthur T., Chicago, Ill., assignor to Arnold Electric Company, Racine, Wis. Liner for citrus-fruit-juice extractors. 1,662,898; Mar. 20.
Putnam, Willis E., Worcester, Mass. Transom adjuster. 1,663,175; Mar. 20.
Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
Rainey, Austin E., Grove City, Pa. Child's convertible toy. 1,663,060; Mar. 20.
Ramsdell, Chauncey, Forestville, N. Y. Water power. 1,662,937; Mar. 20.
Raus, Joseph F., New York, N. Y. Plastering machine. 1,663,416; Mar. 20.
Reese, Thomas L. (See Atwood, E. H., Wanner, and Reese.)
Reeves Pulley Company. (See Clay, Harry C., assignor.)
Reid, Ebenezer E., Baltimore, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxidation of hydrocarbon oils. 1,663,523; Mar. 20.
Reid, Ebenezer E., Baltimore, Md., and C. E. Burke, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of acids. 1,663,524; Mar. 20.
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Truck platform. 1,662,833; Mar. 20.
Reid, William L., Lima, Ohio. Locomotive fire box. 1,663,216; Mar. 20.
Reilly, Helen, administratrix. (See Reilly, William J.)
Reilly, William J., deceased, Brooklyn; H. Reilly, administratrix, New York, N. Y. Matting. 1,663,139; Mar. 20.
Reinheimer, Arthur F., Detroit, Mich. Game. 1,663,385; Mar. 20.

Reintjes, George P., Kansas City, Mo. Furnace-wall construction. 1,663,280; Mar. 20.
Reiter, Daniel I., New York, N. Y. Fastening device. 1,662,834; Mar. 20.
Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,663,140; Mar. 20.
Remington Typewriter Company. (See Hart, Frederick A., assignor.)
Remington Typewriter Company. (See Walsoe, Sigurd L., assignor.)
Reyher, Henry E., assignor to The Silent Salesman Co., Kendallville, Ind. Display rack for garments and the like. 1,663,176; Mar. 20.
Reynolds, Drew, Denver, Colo. Headlight dimmer. 1,663,177; Mar. 20.
Reynolds, William A., assignor to The Ohio Rubber Company, Cleveland, Ohio. Bulb for hydrometer syringe. Des. 74,760; Mar. 20.
Rex Products & Manufacturing Company. (See Diniey, Clarence F., assignor.)
Rice, Cyril M., Montreal, Quebec, Canada. Transparent sign and making same. 1,663,386; Mar. 20.
Rice, Steven A. (See Ruegg, Paul, assignor.)
Rich, David, assignor of two-fifths to G. R. McKeever, Spooner, Wis. Railway-rail-lifting bar. 1,663,061; Mar. 20.
Richards, John L. (See Baker, F. S., and Richards.)
Richheimer, Isaac C., New York, N. Y. Spout for coffee-pots and the like. 1,663,317; Mar. 20.
Richmond, Joseph F., Fort Leavenworth, Kans. Humidifier. 1,662,938; Mar. 20.
Richter, Arthur, Bergisdorf, Erzgebirge, Germany. Device on cotton frames for the production of bodily thickenings of patterns. 1,663,387; Mar. 20.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. 1,663,178; Mar. 20.
Ridgway, Alfred O., and A. Fralick, Los Angeles, Calif. Combined container and toy stage. 1,662,899; Mar. 20.
Riley Stoker Corporation. (See Howse, Curtis L., assignor.)
Ringler, William A., Philadelphia, Pa., assignor to The Globe-Wernicke Co. Index-element carrier. 1,662,900; Mar. 20.
Ripley, Charles T., assignor to S. & T. Metal Company, Chicago, Ill. Journal bearing. 1,662,901; Mar. 20.
Ritter, Saul, New York, assignor to S. Bruner, Far Rockaway, N. Y. Display case. Des. 74,761; Mar. 20.
Rittman, John W., J. Rood, and W. Driver, assignors to Bell City Electric Company, Racine, Wis. Drink heater. Re16,908; Mar. 20.
Roach, Harry F., St. Louis, Mo. Structure having coincidence of normally eccentric axes of force and mass. 1,663,281; Mar. 20.
Roberson, Israel F., Springfield, Ohio. Golf tee. 1,663,282; Mar. 20.
Robinson, Charles R. (See Meissner, Charles, assignor.)
Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
Rodi & Wienenberger Akt.-Ges. für Bijouterie- & Kettenfabrication. (See Einsele, Robert, assignor.)
Roe, Alpheus E., Oakland, Calif. Can-cap-soldering apparatus. 1,663,062; Mar. 20.
Rogers Products Co. (See Albertine, Herman, assignor.)
Róka, Koloman, Konstanz, assignor to Holzverkohlungs-Industrie A. G., Konstanz, Germany. Producing acetone. 1,663,350; Mar. 20.
Rollins, Le Roy W. (See Seely, T. H., and Rollins.)
Rollmonica Music Co., The. (See Banks, Joseph L., assignor.)
Rome Metallic Bedstead Company. (See Pittoni, L. E., and Sisbower, assignors.)
Rona, Gustave G., New York, N. Y. Holder for shoes. 1,663,388; Mar. 20.
Rood, John. (See Rittman, J. W., Rood, and Driver.)
Rose, William H., Jersey City, N. J. Container closure. 1,663,480; Mar. 20.
Ross, Edward P., Riddlesburg, Pa. Treating pig iron. 1,663,351; Mar. 20.
Ross, Samuel E. (See Scott, B. H., and Ross.)
Rostal, Albert J., Chicago, Ill. Neutralizing bar. 1,663,466; Mar. 20.
Roth, Frederick J., New York, N. Y. Renewable fuse. 1,663,179; Mar. 20.
Rounds, John W., assignor of one-half to J. W. Anderson, Boscobel, Wis. Combined folding box and paste board. 1,663,525; Mar. 20.
Rubber Service Laboratories Company, The. (See Crane, James M., assignor.)
Ruben, Samuel, New York, N. Y. Soldering material. 1,663,141; Mar. 20.
Rubottom, Z. (See Nees, B. M., and Rubottom.)
Ruegg, Paul, assignor to S. A. Rice, San Francisco, Calif. Speed signal switch. 1,663,098; Mar. 20.
Rushe, Nick, Detroit, Mich. Toilet device. 1,663,282; Mar. 20.
Russell, Harry G., Battle Creek, Mich., assignor to Consolidated Electric Sign Corporation, Chicago, Ill. Sign. Des. 74,762; Mar. 20.
Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Shovel-crane boom. 1,662,902; Mar. 20.
Rutter, Argyle R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,662,835; Mar. 20.
Ryan, Edward J., Torrington, Conn. Caliper and depth gauge. 1,663,217; Mar. 20.
S & T Metal Company. (See Ripley, Charles T., assignor.)
Safety Fumigant Company. (See Houghton, Harry W., assignor.)
Salazar, Edmundo A., Madrid, assignor of one-half to M. Conte de Mieres, Mieres del Camino, Austrias, Spain. Secondary battery or accumulator. 1,662,886; Mar. 20.
Salinger, Hans, and J. Stahl, Berlin, Germany. Telegraph cable with loading coils. 1,663,353; Mar. 20.
Samuelson, Ernest A., and R. W. Mitchell, Kansas City, Mo. Waxing strip for Marcel irons. 1,663,389; Mar. 20.
Saoutchik, Jacques, Neuilly-sur-Seine, France. Device for raising or lowering window panes. 1,663,352; Mar. 20.
Sargent, Frederick G., Westford, assignor to C. C. Sargent's Sons Corporation, Graniteville, Mass. Automatic damper-operating device for drying machines. 1,663,180; Mar. 20.
Sargent, Frederick G., and F. L. Furbush, Westford, assignors to C. G. Sargent's Sons Corporation, Graniteville, Mass. Exhaust-fan control for drying machines. 1,663,181; Mar. 20.
Sargent's, C. G., Sons Corporation. (See Sargent, Frederick G., assignor.)
Sargent's, C. G., Sons Corporation. (See Sargent, F. G., and Furbush, assignors.)
Scharphuis, Rolf, Port Townsend, Wash. Ice-cream-cone tongs or lifter. 1,662,867; Mar. 20.
Schauman, Bror M., New York, N. Y., and J. F. Milligan, Ridgefield Park, N. J., assignors to Thord-Gray Holding Corporation, New York, N. Y. Vehicle brake-operating means. 1,662,868; Mar. 20.
Schein, Alexander E., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Radial bearing. 1,662,903; Mar. 20.
Schmidt, John H., Chicago, Ill., assignor to Bakelite Corporation, New York, N. Y. Phthalic anhydride-glycerol resins and preparing same. 1,663,183; Mar. 20.
Schneider, Henry, Alden, Minn. Hay sling. 1,663,063; Mar. 20.
Schnyder, Adolph P., Poag, Ill. Well-excavating apparatus. 1,662,904; Mar. 20.
Schoeller, Walter, A. Feldt, M. Gehrke, and E. Borgwardt, assignors to the firm: Chemische Fabrik auf Actien, (vorm. E. Schering), Berlin, Germany. Pharmaceutical product. 1,663,390; Mar. 20.
Schou, Theodor, and R. L. Behrens, assignors to The Ideal Electric & Manufacturing Company, Mansfield, Ohio. Electric machine. 1,663,818; Mar. 20.
Schultz, William F., and L. Masche, Ripon, Wis. Pressure carburetor-control device. 1,663,218; Mar. 20.
Schultze, Helmuth A., assignor to Flexo-Motive Corporation, Chicago, Ill. Transmission mechanism. 1,663,026; Mar. 20.
Schumacher, John, Los Angeles, Calif. Plaster-board walling. 1,663,219; Mar. 20.
Schunck, Carl D., Brooklyn, and W. J. Kelly, Jamaica, N. Y. Door-knob and spindle fastening. 1,663,417; Mar. 20.
Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to C. G. Hawley, Cleveland, Ohio. Apparatus for smelting the metallic dust and recovering the heat from blast-furnace gases. 1,662,939; Mar. 20.
Schwartz, Carl, New Rochelle, N. Y., assignor to International Combustion Engineering Corporation. Fuel-conditioning system. 1,663,220; Mar. 20.
Schwartz, Frederick, Brooklyn, N. Y. Bridge lamp or the like. Des. 74,763; Mar. 20.
Schwartz, Morris, assignor to American Flange & Manufacturing Co., Chicago, Ill. Bushing structure. 1,663,099; Mar. 20.
Scofield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Friction-retained closure. 1,663,142; Mar. 20.
Scott, Bernard H., Glendale, and S. E. Ross, Long Beach, assignors to Scott-Ross and Company, Los Angeles, Calif. Rotary casing head. 1,662,984; Mar. 20.
Scott, Otis. (See Yake, David H., assignor.)
Scott-Ross Company. (See Scott, B. H., and Ross, assignors.)
Scott, Walter J., Woonsocket, R. I. Stop motion for gill boxes. 1,663,283; Mar. 20.
Scroggins, Philip, Galt, Ontario, Canada. Hockey boot. 1,663,221; Mar. 20.
Searle, G. D., & Co. (See Kober, Philip A., assignor.)
Seely, Thomas H., and L. W. Rollins, Malden, Mass., assignors to United Shoe Repairing Machine Company, Portland, Me. Shaping and testing device for awls. 1,662,905; Mar. 20.
Seguchi, Hiromu, Horigai, Taichu-Shu, Taiwan, Japan. Beating of bagasse for the imbibition of same in cane-sugar-making industry. 1,663,418; Mar. 20.
Selle, Herbert L., Waco, Tex. Signboard. Des. 74,764; Mar. 20.

Semmler, Frank, West Allis, Wis. Line-tightening tool. 1,663,182; Mar. 20.

Setright, Henry R., Newtown, New South Wales, Australia. Ticket printing and issuing machine. 1,663,467; Mar. 20.

Shaffer, Glenn A., and F. H. Wirtz, assignors to Fort Howard Paper Company, Green Bay, Wis. Folded sheet and folding the same. 1,663,391; Mar. 20.

Shakeshaft, Arthur T. (See Young, H. A., and Shakeshaft.)

Sharp, Robert W., Baton Rouge, La. Spraying nozzle for macerating machines and the like. 1,663,263; Mar. 20.

Shawmut Engineering Company. (See Hathaway, Edgar F., assignor.)

Shawmut Engineering Company. (See Lea, Charles, assignor.)

Shedd, Hugh E., Minneapolis, Minn. Calendar. 1,662,906; Mar. 20.

Shepard-Thomason Co. (See Thomason, Hjalmar, assignor.)

Sher, Louis, Philadelphia, Pa. Spring-power marine propulsion device. 1,663,143; Mar. 20.

Sherman, Jessie L. (See Little, W. M., and Sherman.)

Sherwood, Charles F. (See Geer, W. C., and Sherwood.)

Shilling, Carl S., and D. B. Lonzon, Chicago, Ill. Door latch. 1,662,907; Mar. 20.

Sievern, Fredrick, McKeesport, Pa. Chain hook. 1,662,940; Mar. 20.

Signode System, Inc. (See Angel, Augustus, assignor.)

Signore, James W., Ellicottville, N. Y. Door-latching mechanism for automobiles. 1,662,985; Mar. 20.

Silent Salesman Co., The. (See Keyher, Henry E., assignor.)

Silverman, Harry J. (See Ebenhart, Joseph, assignor.)

Simon, Stone W., Beaumont, Tex. Milk-bottle-cap remover. 1,662,941; Mar. 20.

Sisbower, George F. (See Pottoni, L. E., and Sisbower.)

Skinner, Allan D., assignor to Skinner Engine Company, Erie, Pa. Engine. 1,663,144; Mar. 20.

Skinner Engine Company. (See Skinner, Allan D., assignor.)

Skene, Andrew A., Wilkinsburg, and H. A. Thompson, Edgewood Borough, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,663,222; Mar. 20.

Sletager, Andrew O., Fertile, Minn. Oil and water burner stove. 1,663,284; Mar. 20.

Smith, Allie, Minneapolis, Minn. Door-key retainer. 1,663,354; Mar. 20.

Smith, Charles F., A. C. Thiele, and L. P. Walker, assignors to Smith Engineering Works, Milwaukee, Wis. Conical crushing mill. 1,663,355; Mar. 20.

Smith, Charles W., Grand Rapids, Mich. Curtain pole. 1,663,356; Mar. 20.

Smith, Earl F., and G. K. Wilson, assignors to Mid-West Metal Products Company, Muncie, Ind. Brace strut. 1,663,487; Mar. 20.

Smith Engineering Works. (See Smith, C. F., Thiele, and Walker, assignors.)

Smith, H. C., Manufacturing Company. (See Phipps, John T., assignor.)

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott-Fisher Company, New York, N. Y. Manifold-web-printing machine. 1,663,145; Mar. 20.

Smith, John C., Chicago, Ill. Illuminated advertising sign. 1,663,392; Mar. 20.

Smolensky, Michael, Cleveland, Ohio. Check-valve body. 1,662,869; Mar. 20.

Smoyer, Henry, W. H. Cumming, and H. W. Thiele, North Tonawanda, N. Y. Burner. 1,662,986; Mar. 20.

Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,662,987; Mar. 20.

Snell, John B., Los Angeles, Calif., assignor of one-half to A. R. Kuhns, Colorado Springs, Colo. Shoe and forming the same. 1,663,319; Mar. 20.

Snoddy, Claude S., H. A. Hines, and H. A. Megonigle, Bartlesville, Okla. Attachment for pump pistons. 1,662,942; Mar. 20.

Snyder, Orlow C., Long Island City, N. Y. Nut lock. 1,663,393; Mar. 20.

Societe Anonyme des Ateliers d'Aviation Louis Breguet. (See Breguet, Louis, assignor.)

Societe des Anciens Etablissements a Savy, Jeanjean & Co. (See Lebert, Louis, assignor.)

Society of Chemical Industry in Basle. (See Ackermann, Franz, assignor.)

Socin, Joseph C., Brooklyn, N. Y. Musical instruments. 1,663,146; Mar. 20.

Sonora Phonograph Company. (See Wolff, Joseph, assignor.)

Sorensen, Severin N., St. Paul, Minn. Dockage screen for thrashing machines. 1,663,027; Mar. 20.

Sperry Gyroscope Company, The. (See Schein, Alexander E., assignor.)

Spotz, Chester A., Greenwich, Conn. Hydraulic brake. 1,663,147; Mar. 20.

Stafford, Earl C., Philadelphia, Pa., assignor to The United States Train Signal Company, Portland, Me. Train-signal system. 1,662,988; Mar. 20.

Stahl, Johann. (See Salinger, H., and Stahl.)

Stallmann, Otto. (See Gubelmann, I., Weiland, and Stallmann.)

Stancliffe, Cecil W., Stamford, Conn., assignor to Stancliffe Engineering Corporation, New York, N. Y. Grooved-plate heat interchanger. 1,662,870; Mar. 20.

Stancliffe Engineering Corporation. (See Stancliffe, Cecil W., assignor.)

Standard Mattress and Furniture Manufacturing Company. (See Ihrig, Louis G., assignor.)

Stanton, Frederick L., New York, N. Y. Intra-oral cassette. 1,662,838; Mar. 20.

Starrett, L. S., Company, The. (See Cook, Alvin B., assignor.)

Steele, Maurice G. (See Hart, M. S., and Steele.)

Stefan, Geza, Chicago, Ill. Lighting fixture. 1,663,357; Mar. 20.

Steincamp, William. (See Johnson, William W., assignor.)

Steinle, Adolf, assignor to the firm, Carl Zeiss, Jena, Germany. Method of and device for testing the position of two axial directions. 1,662,836; Mar. 20.

Stellingwerf, Peter, Orange City, Iowa. Rail joint. 1,663,419; Mar. 20.

Stephenson, Jay G., Athens, Tenn. Combined protective and signaling device. 1,663,358; Mar. 20.

Stevens, Harry P., New York, N. Y. Internal-combustion engine. 1,662,908; Mar. 20.

Stine, Charles M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition containing rubber and drying oils and making same. 1,663,100; Mar. 20.

Stine, Charles M. A., and C. Coolidge, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating compositions and making the same. 1,663,101; Mar. 20.

Stirckler, Cary M. (See Chapman, Howard D., assignor.)

Stocking, Bert A., Des Moines, Iowa. Washing-machine gear. 1,663,028; Mar. 20.

Stoddard, Edgar R., and L. C. Zilky, assignors to The Studebaker Corporation, South Bend, Ind. Glass-grinding machine. 1,663,320; Mar. 20.

Stoddard, Hart A., Saugatuck, Conn., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Press timer. 1,663,526; Mar. 20.

Stoddard, Hart A., Saugatuck, Conn., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Press timer. 1,663,527; Mar. 20.

Stokes, Robert D., Bristol, Va. Railroad gate. 1,663,184; Mar. 20.

Stoll, Fred W., Cleveland, Ohio. Grinding tool. 1,663,420; Mar. 20.

Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Grinding machine. 1,663,148; Mar. 20.

Straight, Halver R., Adel, Iowa. Tunnel kiln. 1,663,020; Mar. 20.

Stranss, Joseph B., Chicago, Ill. Bridge. 1,663,359; Mar. 20.

Stroud, Francis H., Seattle, Wash. Cylinder head. 1,662,989; Mar. 20.

Stroud, John B., Pass Christian, Miss. Extension step. 1,663,321; Mar. 20.

Stuart, Frank T., Maplewood, N. J., assignor to The R. Neumann Hardware Co. Interengaging and aligning the members of hinged bag frames. 1,662,837; Mar. 20.

Stubbings, Edwin L., Huntington, N. Y. Line breaker. 1,663,421; Mar. 20.

Studebaker Corporation, The. (See Stoddard, E. R., and Zilky, assignors.)

Stump, Orville R., and J. N. Hiles, Long Beach, Calif. Pipe retainer for derricks. 1,663,285; Mar. 20.

Sturgis, William J. (See Culp, G. K., jr., Barker, and Sturgis.)

Sullivan Machinery Company. (See Holmes, Morris P., assignor.)

Superheater Company, The. (See Broido, Benjamin, assignor.)

Superheater Company, The. (See Thomsen, Peter, assignor.)

Superioid Manufacturing Company. (See Engel, Joseph, assignor.)

Svenson, Anders W., Vanersborg, Sweden. Apparatus for assorting coins. 1,663,422; Mar. 20.

Swift, George W., jr., assignor to G. W. Swift, jr., Inc., Bordentown, N. J. Angularly adjustable rotary cutter, slitter, creaser, and the like. 1,662,871; Mar. 20.

Swift, George W., jr., Inc. (See Swift, George W., jr., assignor.)

Symington, T. H., & Son, Inc. (See Symington, T. H., and Drenning, assignors.)

Symington Thomas H., and P. R. Drenning, assignors to T. H. Symington & Sons, Inc., Baltimore, Md. Truck bolster with absorption mechanism. 1,663,394; Mar. 20.

Tacchella, Adolph, assignor to Busch-Sulzer Bros-Diesell Engine Co., St. Louis, Mo. Bearing. 1,663,528; Mar. 20.

Tanaka, Kay T., Salt Lake City, Utah. Rake. 1,663,395; Mar. 20.

Tatum, Duke, Dothan, Ala. Railway switch. 1,663,423; Mar. 20.

Taylor, Dallas, Lorain, Ohio. Shipping crate. 1,663,102; Mar. 20.

Taylor, Huston, Detroit, Mich. Vehicle impact bar. 1,663,424; Mar. 20.

Tekavec, John, Cleveland, Ohio. Gasoline and oil filter. 1,663,322; Mar. 20.

Temple, William C., Munson, Fla. Railway tie and rail chair therefor. 1,663,425; Mar. 20.

Thiele, Arthur C. (See Smith, C. F., Thiele, and Walker.)

Thiele, Herbert W. (See Smoyer, H., Cumming, and Thiele.)

Thomason, Hjalmar, assignor to Shepard-Thomason Co., Los Angeles, Calif. Adjustable reamer. 1,663,223; Mar. 20.

Thompson, Don N., Syracuse, assignor to Pass & Seymour Inc., Solvay, N. Y. Lamp retainer for lamp sockets. 1,663,264; Mar. 20.

Thompson, Fred A., Newark, N. J. Advertising display form. Des. 74,765; Mar. 20.

Thompson, Fred W., Denver, Colo. Weight container. 1,663,103; Mar. 20.

Thompson, Howard A. (See Skene, A. A., and Thompson.)

Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,662,990; Mar. 20.

Thompson Products Inc. (See Hufferd, George H., assignor.)

Thompson, Theodore. (See Moecker, H., jr., Thompson, and Hammermeister.)

Thomsen, Peter, Cassell, Germany, assignor to The Superheater Company, New York, N. Y. Air preheater. 1,662,991; Mar. 20.

Thomson, S. H., Manufacturing Company, The. (See Gravenstine, George E., assignor.)

Thord-Gray Holding Corporation. (See Schauman, B. M., and Milligan, assignors.)

Thornely, Sidney Blackley, Manchester, assignor to British Dyestuffs Corporation, Limited, Manchester, England. Acylamino flavanthrones and making same. 1,662872; Mar. 20.

Timken Roller Bearing Company, The. (See Curtis, George W., assignor.)

Timson, William, assignor to W. & T. Avery, Limited, Birmingham, England. Weighing apparatus. 1,663,509; Mar. 20.

Tishler, William B. (See Garey, D., and Tishler.)

Torchweld Equipment Company. (See Morrison, George A., assignor.)

Trachsel, Fritz, Bern, assignor to "Chr. Gfeller Aktiengesellschaft," Bern-Bumpliz, Switzerland. Switch device for automatic telephone exchange systems. 1,663,360; Mar. 20.

Trefney, Joseph. (See Boucek, J., Halick, and Tefney.)

Trent Process Corporation. (See Trent, Walter E., assignor.)

Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Preventing mine explosions. Re16,914; Mar. 20.

Trepanier, Ivan, Waterbury, Conn. Combination lock. 1,662,943; Mar. 20.

Tronso, Ernest S., Akron, Ohio. Gas valve. 1,663,426; Mar. 20.

True-Tile Corporation. (See Warfield, John R., assignor.)

Tryon, Frederick D., New York, N. Y. Adjustable back rest for baby carriages. 1,663,149; Mar. 20.

Turner, Robert. (See Lindsey, George C., assignor.)

Turturro, Nicola, New York, N. Y. Guitar or similar article. Des. 74,766.

Tyden, Emil, Evanston, Ill. Dry-pipe-valve accelerator. 1,662,839; Mar. 20.

Tyler, W. S., Company, The. (See Helman, August E., assignor.)

Uhl, Frank L., Detroit, Mich. Gas cock. 1,663,427; Mar. 20.

Uhl, George R. (See Brown, H., and Uhl.)

Ulrich, Carl J., Mankato, Minn. Machine for washing serving trays. 1,663,288; Mar. 20.

Underwood, Carl J. and J. A., Huntington Beach, Calif. Cigar lighter and advertising cabinet. 1,663,030; Mar. 20.

Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)

Underwood, James. A. (See Underwood, Carl J. and J. A.)

Union Special Machine Company. (See Berger, Joseph, assignor.)

Union Switch & Signal Company, The. (See Baughman, George W., assignor.)

Union Switch & Signal Company, The. (See Skene, A. A., and Thompson, assignors.)

Union Switch & Signal Company, The. (See Snavely, Clarence S., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

United Engineering and Foundry Company. (See Johnson, Lane, assignor.)

United Shoe Machinery Corporation. (See Prindle, Edwin J., assignor.)

United Shoe Repairing Machine Company. (See Seely, T. H., and Rollins, assignors.)

United States Hoffman Machinery Corporation. (See Diener, Hyman, assignor.)

United States Train Signal Company, The. (See Stafford, Earl C., assignor.)

Utility Manufacturing Company, The. (See Wertz, Howard G., assignor.)

Vacuum Oil Company. (See Atwood, E. H., Wanner, and Reese, assignors.)

Valleau, Thomas F., assignor to The Cooke & Cobb Company, Brooklyn, N. Y. File, binder, and the like. 1,662,873; Mar. 20.

Van der Kley, Francesca, New York, N. Y. Beauty case. 1,663,224; Mar. 20.

Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Binder. 1,662,874; Mar. 20.

Vaughan, Conrad, assignor to The Permold Company, Cleveland, Ohio. Mold and method of casting. 1,663,286; Mar. 20.

Vaughan, Howard R., Victoria, Va. Torch. 1,663,064 Mar. 20.

Vaughn, Joseph V., De Land, Fla. Comb. 1,663,468; Mar. 20.

Verjrosta, Frank, Silver Lake, Minn. Blocking and cultivating device. 1,663,065; Mar. 20.

Viberg, Ernest R., Montreal, Quebec, Canada. Buffer mechanism for car doors. 1,663,428; Mar. 20.

Visible Records Equipment Company. (See Wirt, Van A., assignor.)

Volence, Anthony, Browerville, Minn. Cow-tail holder. 1,663,287; Mar. 20.

Von Feiden, Roy, assignor of one-half to S. Carlson, Duluth, Minn. Adjustable valve-controlling means. 1,663,066; Mar. 20.

Von Nessen, Walter, New York, N. Y., assignor to Etcolite Corporation. Lighting-fixture wall bracket. Des. 74,767; Mar. 20.

Von Salis, Eduard, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-injection device for internal-combustion engines. 1,663,469; Mar. 20.

Von Salis, Eduard, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-injection device for internal-combustion engines. 1663,470; Mar. 20.

Von Salis, Eduard, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-injection device for solid-oil engines. 1,663,471; Mar. 20.

Von Salis, Eduard, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-injection device for internal-combustion engines. 1,663,472; Mar. 20.

Vulcan Last Company. (See Clausing, George, assignor.)

Wagner Electric Corporation. (See Wolff, Carl H., assignor.)

Wagonseller, William R., Montague, Tex. Dirigible axle for agricultural implements. 1,663,361; Mar. 20.

Wales, Rowland T., New Rochelle, N. Y. Wire anchor. 1,663,104; Mar. 20.

Walker, Lloyd P. (See Smith, C. F., Thiele, and Walker.)

Wallace, Frank W., assignor of one-half to B. Blair, Chattanooga, Tenn. Ice-handling device. 1,663,067; Mar. 20.

Walliser, Robert E., Chicago, Ill. Fringe-tasseling machine. 1,663,534; Mar. 20.

Walsh, James M., assignor to James M. Walsh Co., Milwaukee, Wis. Harness construction. 1,663,105; Mar. 20.

Walsh, James M., Co. (See Walsh, James M., assignor.)

Walsoe, Sigurd L., Lyndhurst, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,663,362; Mar. 20.

Wanner, Walter E. (See Atwood, E. H., Wanner, and Reese.)

Ward, H. H. (See Dick, Samuel M., assignor.)

Warfield, John R., Los Angeles, Calif., assignor to True-Tile Corporation, Reno, Nev. Producing handmade tile. 1,663,106; Mar. 20.

Warmbier, Emil. (See Bessman, F. A., and Warmbier.)

Watry, John T. (See Werra, C., and Watry.)

Weaver, Joseph W. (See Gerace, G., and Weaver.)

Webb, William E., and E. P. Williams, Edmonton, Alberta, Canada. Tag. 1,663,185; Mar. 20.

Weigele, Edmund, Bergenfield, N. J., assignor to Atlas Devices Company, Inc. Pneumatic-dispatch system. 1,663,031; Mar. 20.

Weiland, Henry J. (See Gubelmann, I., Weiland, and Stallmann.)

Weiss, Albert F. (See Bryant, C. R., and Weiss.)

Weller Manufacturing Company. (See Carlson, Seth, assignor.)

Wentworth, Philip C., Providence, R. I. Ring traveler and producing same. 1,663,289; Mar. 20.

Werra, Conrad, and J. T. Watry, Waukesha, Wis. Disk wheel. 1,662,944; Mar. 20.

Wertz, Howard G., Wichita, Kans, assignor to The Utility Manufacturing Company. Portable and convertible machine. 1,663,486; Mar. 20.

Weseloh, Henry, Lincoln Center, Kans. Weeder. 1,663,396; Mar. 20.

Wessman, Edwin G., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Dispensing device. 1,663,429; Mar. 20.

Wessman, Edwin G., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Dispensing device. 1,663,510; Mar. 20.

West, Arthur J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Internal-combustion engine. Re16,909; Mar. 20.

Western Electric Company. (See Buckley, Oliver E., assignor.)

Western Electric Company. (See Long, Maurice B., assignor.)
Western Safety Manufacturing Company. (See Parker, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See de Vries, Andrew, assignor.)
Westinghouse Electric & Manufacturing Company. (See Erskine, Ralph W.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rutter, Argyle R., assignor.)
Westrate, Matthew, Grand Rapids, Mich. Rotary tool mechanism. 1,662,992; Mar. 20.
Wetmore, Miner P., assignor to The American Thermos Bottle Company, Norwich, Conn. Double-walled vacuum receptacle. 1,663,032; Mar. 20.
Whalen, Milton W., Baltimore, Md. Hub-liner lubricator. 1,663,033; Mar. 20.
Whatmough, Wilfred A., Finchley, England. Production of emulsions. 1,663,323; Mar. 20.
Wheeling Steel Corporation. (See Hazeltine, Benjamin P., assignor.)
White, Beverly, assignor of one-half to C. M. Bender, Chicago, Ill. Towel holder. 1,663,107; Mar. 20.
White, John F., assignor to White Products Company, Chicago, Ill. Sealing cap for automobile radiators. 1,662,909; Mar. 20.
White, John F., assignor to White Products Company, Chicago, Ill. Automobile radiator cap. 1,662,910; Mar. 20.
White, John F., assignor to White Products Company, Chicago, Ill. Radiator cap. 1,662,911; Mar. 20.
White Products Company. (See White, John F., assignor.)
Whitehouse, John N., assignor to Markon Mfg. Co., Inc., New York, N. Y. Sleeping doll. 1,663,324; Mar. 20.
Widman, Frank J., Oak Park, Ill. Tool. 1,663,225; Mar. 20.
Wieghardt, Paul, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Platen printing press. 1,663,363; Mar. 20.
Wielage, Marcus F., Miami, Fla. Soldering device. 1,662,945; Mar. 20.
Williams, Albert R. (See Allfree, E. H., and Williams.)
Williams, Ernest P. (See Webb, W. E., and Williams.)
Williams, Louis, Seattle, Wash. Wall radiator. 1,662,993; Mar. 20.
Wilson, Guy K. (See Smith, E. F., and Wilson.)
Wilson, William E., Mason City, Iowa, and H. G. Lykken, Minneapolis, Minn. Tunnel-kiln fire box. 1,662,912; Mar. 20.
Windeknecht, Carl A., Berlin, Germany. Building. 1,663,473; Mar. 20.
Wintroath, John A., assignor to Peerless Pump Company, Los Angeles, Calif. Nonreversing means for pump heads. 1,663,226; Mar. 20.
Wirt, Van A., Chicago, Ill., assignor to Visible Records Equipment Company. Loose-leaf binder. 1,663,430; Mar. 20.
Wirtz, Franklin H. (See Shaffer, G. A., and Wirtz.)
Wise-McClung Corporation. (See Adams, Thomas O., assignor.)
Wise-McClung Corporation. (See Wise, W. J., and Adams, assignors.)
Wise, O. B. (See Day, James A., assignor.)
Wise, William J., and T. O. Adams, assignors, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio. Brush for vacuum cleaners. 1,663,365; Mar. 20.
Wolff, Carl H., assignor to Wagner Electric Corporation, St. Louis, Mo. Automatic switch mechanism. 1,663,325; Mar. 20.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 74,768; Mar. 20.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 74,769; Mar. 20.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. 1,663,326; Mar. 20.
Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
Woloohojian, Harry J., Providence, R. I. Handle protector. 1,662,994; Mar. 20.
Wood, Straud K., Hutchinson, Kans. Combined hasp and seal for box cars. 1,663,068; Mar. 20.
Woodard, William E., Forest Hills, N. Y. Locomotive. 1,662,841; Mar. 20.
Woodard, William E., Forest Hills, N. Y. Locomotive equalizing mechanism. 1,663,227; Mar. 20.
Wolverton, Clair C., Indianapolis, Ind. Buckle. 1,662,840; Mar. 20.
Yake, David H., Los Angeles, assignor of one-half to O. Scott, Whittier, Calif. Safety dog for trucks and cars. 1,663,327; Mar. 20.
Young, Harlan A., and A. T. Shakeshaft, Topeka, Kans. Seesaw. 1,662,875; Mar. 20.
Yudowitch, Harry, now, by change of name, H. A. Newton, Brooklyn, N. Y. Edible fat. Re16,915; Mar. 20.
Zaiser, William, Rockville Center, N. Y. Grand piano. Des. 74,770; Mar. 20.
Zaiser, William, Rockville Center, N. Y. Grand piano. Des. 74,771; Mar. 20.
Zaiser, William, Rockville Center, N. Y. Grand piano. Des. 74,772; Mar. 20.
Zaiser, William, Rockville Center, N. Y. Grand-piano leg. Des. 74,773; Mar. 20.
Zaiser, William, Rockville Center, N. Y. Grand-piano leg. Des. 74,774; Mar. 20.
Zaiser, William, Rockville Center, N. Y. Grand-piano leg. Des. 74,775; Mar. 20.
Zeis, Firm Carl. (See Steinle, Adolf, assignor.)
Zeis, Firm Carl. (See Steinle, Adolf, assignor.)
Ziegler, Harold B., Duncan, Okla. Draw works. 1,663,431; Mar. 20.
Zilky, Louis C. (See Stoddard, E. R., and Zilky.)
Zublin, John A., Los Angeles, Calif. Sectional barrel for oil-well pumps. 1,663,228; Mar. 20.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acetone, Producing. K. Róka. 1,663,350; Mar. 20.
Acids, Production of. E. E. Reid and C. E. Burke. 1,663,524; Mar. 20.
Acylamino flavanthrones and making same. S. Thornley. 1,662,872; Mar. 20.
Adjustable coupling. M. D. Morris and E. G. Du Barry. 1,663,259; Mar. 20.
Advertising device. A. J. Hill and G. Purnell. 1,663,165; Mar. 20.
Advertising display form. F. A. Thompson. Des. 74,765; Mar. 20.
Aerial vessels, Auxiliary power system for. M. Herzl. 1,663,302; Mar. 20.
Airplane. V. J. Burnelli. 1,662,915; Mar. 20.
Air preheater. P. Thomsen. 1,662,901; Mar. 20.
Alarm: *See*—
Fire alarm.
Alloy, Aluminum-base. R. S. Archer. 1,663,150; Mar. 20.
Alloy, Zinc-base. W. M. Pierce and E. A. Anderson. 1,663,215; Mar. 20.
Aluminum sulphate and the product thereof, Producing basic. D. B. Bradner. 1,663,435; Mar. 20.
Amines, Producing aromatic. C. W. Davis. 1,663,476; Mar. 20.
Anchor, Wire. R. T. Wales. 1,663,104; Mar. 20.
Antenna. J. M. Clark. 1,662,846; Mar. 20.
Antiskid device. W. H. Fischer. 1,662,886; Mar. 20.
Armature-winding machine. P. E. Chapman. 1,662,881; Mar. 20.
Autographic register. G. J. Neth. 1,663,023; Mar. 20.
Automobiles, Antitheft device for. J. J. Furlong. 1,663,044; Mar. 20.
Awls, Shaping and testing device for. T. H. Seely and L. R. W. Rollins. 1,662,905; Mar. 20.
Axial directions, Method of and device for testing the position of two. A. Steinle. 1,662,836; Mar. 20.
Axle for agricultural implements, Dirigible. W. R. Wagonseller. 1,663,361; Mar. 20.
Bactericidal preparation. P. Laland. 1,662,930; Mar. 20.
Bag frames, Interengaging and aligning the members of hinged. F. T. Stuart. 1,662,837; Mar. 20.
Banister construction joint. F. Luipersbek. 1,663,203; Mar. 20.
Bar: *See*—
Neutralizing bar. Vehicle impact bar.
Railway-rail-lifting bar.
Barrel for oil-well pumps, Sectional. J. A. Zublin. 1,663,228; Mar. 20.
Battery: *See*—
Storage battery.
Battery or accumulator, Secondary. E. A. Salazar. 1,662,866; Mar. 20.
Battery terminal. T. P. Logan. 1,663,013; Mar. 20.
Bearing. A. Tacchella. 1,663,528; Mar. 20.
Bearing, Journal. C. T. Ripley. 1,662,901; Mar. 20.
Bearing, Radial. A. E. Schein. 1,662,903; Mar. 20.
Beauty case. F. van der Kley. 1,663,224; Mar. 20.
Bed leg. E. E. McGrew. 1,663,210; Mar. 20.
Belt conveyer, Endless. T. C. Lennard. 1,663,844; Mar. 20.
Belt slide. W. J. Morse. Des. 74,758; Mar. 20.
Binder. R. M. Van Valkenburgh. 1,662,874; Mar. 20.
Binder, Loose-leaf. V. A. Wirt. 1,663,430; Mar. 20.
Binder, Visible-sheet. C. A. Cederleaf. 1,662,879; Mar. 20.
Bismuth tartrates and product produced thereby, Making. P. A. Kober. 1,663,201; Mar. 20.
Bit: *See*—
Rock bit.
Blade, Saw. E. Cheshire. 1,663,241; Mar. 20.
Bleaching animal and vegetable materials. A. O. Bragg. 1,662,951; Mar. 20.
Block: *See*—
Shuttle threader block.
Blocking and cultivating device. F. Verjrosta. 1,663,065; Mar. 20.
Board: *See*—
Game board. Press board.
Boiler: *See*—
Water-tube boiler.
Boiler. R. J. Adams. 1,663,084; Mar. 20.
Boiler cleaner. I. L. Kemp. 1,663,278; Mar. 20.
Boilers, stay bolt for. E. I. Dodds. 1,663,336; Mar. 20.
Bolt holder. J. Dobson. 1,663,369; Mar. 20.
Bookmark. G. L. Jackson. 1,663,307; Mar. 20.
Bookrack. C. L. Ames. 1,663,432; Mar. 20.
Boot, Hockey. P. Scroggins. 1,663,221; Mar. 20.
Bottle. P. L. Frailey. Des. 74,732; Mar. 20.
Bottle-cap-assembling machine. C. E. McManus. 1,662,862; Mar. 20.
Bottle-cap remover, Milk-. S. W. Simon. 1,662,941; Mar. 20.
Bottle for infants, Feeding. J. Kollner. 1,663,842; Mar. 20.
Bottle top. M. H. Herlick. 1,663,405; Mar. 20.
Bow-tie rack. M. Goldman. Des. 74,733; Mar. 20.
Bowl for stock, Water. H. P. Hanson. 1,663,340; Mar. 20.
Bowl or similar article. C. C. Beam. Des. 74,712; Mar. 20.
Box: *See*—
Locomotive fire box. Vanity box.
Tunnel-kiln fire box.
Box. A. D. Clawson. 1,663,441; Mar. 20.
Box and paste board, Combined folding. J. W. Rounds. 1,663,525; Mar. 20.
Boxes, Stop motion for gill. W. J. Scott. 1,663,283; Mar. 20.
Bracelet. C. Hoeckele. 1,663,304; Mar. 20.
Bracelet link. C. A. Hart. 1,663,079; Mar. 20.
Brace strut. E. F. Smith and G. K. Wilson. 1,663,487; Mar. 20.
Bracket: *See*—
Adjustable bumper bracket. Outboard-motor bracket.
Brake: *See*—
Hydraulic brake.
Brake. A. Y. Dodge. 1,663,295; Mar. 20.
Brake mechanism, Centrifugal. L. Landry. 1,663,012; Mar. 20.
Breech-opening mechanism. G. M. McCann. 1,662,977; Mar. 20.
Bridge. J. B. Strauss. 1,663,359; Mar. 20.
Brush, Bromoil. E. Mayer. 1,663,208; Mar. 20.
Brush for vacuum cleaners. W. J. Wise and T. O. Adams. 1,663,365; Mar. 20.
Brush, Wall. A. G. Denman. 1,663,194; Mar. 20.
Brushing machine for circular objects. E. H. Atwood, W. E. Wanner, and T. L. Reese. 1,662,995; Mar. 20.
Buckle. C. C. Wolverton. 1,662,840; Mar. 20.
Buckle, Belt. G. R. Houghtaling. 1,663,006; Mar. 20.
Building. C. A. Windeknecht. 1,663,478; Mar. 20.
Building material. R. P. Perry. 1,663,095; Mar. 20.
Bumper bracket, Adjustable. O. H. Goetz. 1,663,269; Mar. 20.
Bumper, Vehicle. H. S. Jandus and J. R. Morgan. Des. 74,746; Mar. 20.
Burner: *See*—
Dental burner. Oil burner.
Gas burner.
Burner. H. Smoyer, W. H. Cumming, and H. W. Thiele. 1,662,986; Mar. 20.
Bushing structure. M. Schwartz. 1,663,099; Mar. 20.
Cabinet, Two-temperature refrigerating and cooling. J. G. Peck. 1,663,482; Mar. 20.
Cable cutter. A. Bergstrom. 1,663,189; Mar. 20.
Cable with loading coils, Telegraph. H. Salinger and J. Stahl. 1,663,353; Mar. 20.
Calcium cyanide, Treating. P. W. Griffith. 1,663,125; Mar. 20.
Calendar. H. E. Shedd. 1,662,906; Mar. 20.
Caliper and depth gauge. E. J. Ryan. 1,663,217; Mar. 20.
Cane stripping and topping machine. J. T. Landaiche. 1,663,409; Mar. 20.
Cane-sugar-making industry, Beating of bagasse for the imbibition of same in. H. Seguchi. 1,663,418; Mar. 20.
Car, Hopper. A. U. Kerns. 1,662,926; Mar. 20.
Car-locking device, Dump-. R. E. Cartdafner. 1,663,475; Mar. 20.
Car-seat construction. C. T. Hansen. 1,663,126; Mar. 20.
Cars, Combined hasp and seal for box. S. K. Wood. 1,663,068; Mar. 20.
Carbon and making same, Decolorizing. C. H. Chandler. 1,663,000; Mar. 20.
Carbonizing and gas-making apparatus. P. Plantinga. 1,663,522; Mar. 20.
Carburetor-control device, Pressure. W. F. Schultz and L. Masche. 1,663,218; Mar. 20.

Card and cabinet. Combined display. S. M. Dell. 1,662,885; Mar. 20.
Card device, Price-. A. E. Cobb. 1,662,813; Mar. 20.
Carriages, Adjustable back rest for baby. F. D. Tryon. 1,663,149; Mar. 20.
Carrier: *See*—
Drapery carrier. Inder-element carrier.
Catroting machine. J. A. Norin. 1,662,933; Mar. 20.
Case: *See*—
Beauty case. Wall case.
Vanity case.
Casing head, Rotary. B. H. Scott and S. E. Ross. 1,662,984; Mar. 20.
Casket handle. C. I. McClelland. Des. 74,751; Mar. 20.
Casket-retaining device. W. B. Parsels. 1,663,172; Mar. 20.
Cassette, Intra-oral. F. L. Stanton. 1,662,838; Mar. 20.
Chain drive for driers. E. E. Berry. 1,663,237; Mar. 20.
Chain hook. F. Sievern. 1,662,940; Mar. 20.
Chair: *See*—
Radio operator's chair.
Chamfering device. R. Philipp. 1,662,936; Mar. 20.
Checking device, Recoiling-. D. D. Myers. 1,663,022; Mar. 20.
Cigar-bunch-making machine. J. L. Poldy. 1,663,174; Mar. 20.
Circuit closer. P. B. Nelson. 1,662,979; Mar. 20.
Circuit, Substation. J. W. Foley. 1,662,966; Mar. 20.
Clamp: *See*—
Electrode clamp.
Clamp. J. B. Benson. 1,663,433; Mar. 20.
Clamp. F. B. Johnston. 1,662,859; Mar. 20.
Clamp plate. H. S. Jandus. Des. 74,747; Mar. 20.
Clay products, Apparatus for producing. M. Lang. 1,663,309; Mar. 20.
Cleaner: *See*—
Boiler cleaner. Conveying-pipe cotton cleaner.
Cleaning and abrasive device. J. J. Peterson. 1,663,059; Mar. 20.
Cleaning solution, Metal-. C. F. Dinley. 1,663,446; Mar. 20.
Clock case. I. Greengus. Des. 74,736; Mar. 20.
Closure, Friction-retained. E. Scofield. 1,663,142; Mar. 20.
Cloth, Method and apparatus for laying up. J. Ebenhart. 1,663,496; Mar. 20.
Clutch. J. Mader. 1,663,015; Mar. 20.
Clutch and reverse gear, Fluid. A. C. Anderson. 1,663,186; Mar. 20.
Coating and impregnating medium. C. Ellis. 1,663,160; Mar. 20.
Coating article, Surface. C. M. Bigelow. 1,662,816; Mar. 20.
Coating composition and making the same. C. Coolidge and H. E. Eastlack. 1,663,119; Mar. 20.
Coating composition and making the same. C. M. A. Stine and C. Coolidge. 1,663,101; Mar. 20.
Coating composition containing rubber and drying oils and making same. C. M. Stine. 1,663,100; Mar. 20.
Coating for welding or cutting rods. J. B. Green. 1,663,004; Mar. 20.
Cock, Gas. F. L. Uhl. 1,663,427; Mar. 20.
Coffeepot. G. L. Gesaner. 1,663,162; Mar. 20.
Coin-freed delivery mechanism. L. C. Bradley. 1,663,508; Mar. 20.
Coins, Apparatus for assorting. A. W. Svenson. 1,663,422; Mar. 20.
Comb. F. L. Deden. 1,663,390; Mar. 20.
Comb. J. V. Vaughn. 1,663,468; Mar. 20.
Combination lock. I. Trepanier. 1,662,943; Mar. 20.
Combing machine for textile fibers. J. W. Nasmith. 1,663,170; Mar. 20.
Compressor regulator and unloader. C. W. Metzgar. 1,663,530; Mar. 20.
Concentrator, Oil. I. L. Eastman. 1,662,963; Mar. 20.
Connecter for mine cars and the like. J. F. O'Connor. 1,662,893; Mar. 20.
Connecter, Solderless. L. E. Hendee. 1,663,005; Mar. 20.
Container. H. L. Helter. 1,662,857; Mar. 20.
Container and toy stage, Combined. A. O. Ridgway and A. Fralick. 1,662,899; Mar. 20.
Container closure. W. H. Rose. 1,663,480; Mar. 20.
Controlling mechanism. M. P. Holmes. 1,662,826; Mar. 20.
Conveyer. E. H. Allfree, and A. R. Williams. 1,662,808; Mar. 20.
Conveyer garment press. J. C. Ledbetter. 1,662,976; Mar. 20.
Conveyer roller. G. W. Curtis. 1663,003; Mar. 20.
Cooking apparatus, Electrical. F. J. Cook. 1,662,847; Mar. 20.
Core cutter and laying-up machine, Automatic. H. L. Brandan. 1,663,535; Mar. 20.
Core drill. J. T. Phipps. 1,663,025; Mar. 20.
Core drill. J. T. Phipps. 1,663,096; Mar. 20.
Cotton cleaner, Conveying-pipe. T. L. Oates. 1,663,091; Mar. 20.
Cotton frames for the production of bodily thickenings of patterns, Device on. A. Richter. 1,663,387; Mar. 20.
Coupling: *See*—
Adjustable coupling.
Cow-tail holder. A. Volence. 1,663,287; Mar. 20.
Crate, Shipping. D. Taylor. 1,663,102; Mar. 20.
Crushing mill, Conical. C. F. Smith, A. C. Thiele, and L. P. Walker. 1,663,355; Mar. 20.
Cultivator, Tractor. W. S. Graham and A. D. Gallagher. 1,663,249; Mar. 20.
Curtain-pole bracket. J. O. Crawford. Des. 74,722; Mar. 20.
Curtain-pole ring. J. O. Crawford. Des. 74,721; Mar. 20.
Cutter: *See*—
Cable cutter.
Cutter, slitter, creaser, and the like, Angularly-adjustable rotary. G. W. Swift, jr. 1,662,871; Mar. 20.
Cutting. V. V. Colby. 1,663,267; Mar. 20.
Cutting machine. A. W. Mueller. 1,662,890; Mar. 20.
Cylinder head. F. H. Stroud. 1,662,989; Mar. 20.
Decoy. W. P. Johnson. 1,663,009; Mar. 20.
Dental burner. H. J. Boaworth. 1,662,997; Mar. 20.
Derricks, pipe retainer for. O. R. Stump and J. N. Hiles. 1,663,285; Mar. 20.
Desk. J. A. Hughes. 1,663,407; Mar. 20.
Desk, Home. L. Knaster. 1,663,377; Mar. 20.
Die-casting machine. W. J. During. 1,663,072; Mar. 20.
Die press, Automatic. C. D. McDonald. 1,663,018; Mar. 20.
Die-press-stopping mechanism, Automatic. C. D. McDonald. 1,663,010; Mar. 20.
Dishwashers and the like, Cover for. F. G. Brotz. 1,662,818; Mar. 20.
Disk for tillage implements. F. A. Bucknan. 1,663,239; Mar. 20.
Disk wheel. C. Werra and J. T. Watry. 1,662,944; Mar. 20.
Dispatch system, Pneumatic-. E. Weigele. 1,663,031; Mar. 20.
Dispensing device. L. Gagne. 1,663,338; Mar. 20.
Dispensing device. E. G. Wessman. 1,663,429; Mar. 20.
Dispensing device. E. G. Wessman. 1,663,510; Mar. 20.
Display case. S. Ritter. Des. 74,761; Mar. 20.
Display rack. M. L. Bunnell. 1,663,397; Mar. 20.
Doll. G. Cormany. Des. 74,720; Mar. 20.
Doll, Sleeping. J. N. Whitehouse. 1,663,324; Mar. 20.
Door, Automobile. J. Ledwinka. 1,663,514; Mar. 20.
Door construction. J. Ledwinka. 1,663,517; Mar. 20.
Door for automobile bodies. J. Ledwinka. Re16,907; Mar. 20.
Door for automobile bodies. J. Ledwinka. 1,663,516; Mar. 20.
Door for automobile bodies. J. Ledwinka. 1,663,519; Mar. 20.
Door-knob and spindle fastening. C. D. Schunck and W. J. Kelly. 1,663,417; Mar. 20.
Door-latching mechanism for automobiles. J. W. Signore. 1,662,985; Mar. 20.
Door mounting. E. J. Deisley. 1,663,531; Mar. 20.
Door-operating mechanism. J. R. Gibbons. 1,663,196; Mar. 20.
Door, Pressed-metal sedan. J. Ledwinka. 1,663,515; Mar. 20.
Door, Pressed-metal vehicle. J. Ledwinka. 1,663,518; Mar. 20.
Door, Pressed-metal vehicle. J. Ledwinka. 1,663,520–1; Mar. 20.
Doors, Buffer mechanism for car. E. R. Viberg. 1,663,428; Mar. 20.
Draft equalizer. G. Johnson. 1,663,270; Mar. 20.
Drafting device. F. A. Clark. 1,662,882; Mar. 20.
Drapery carrier. W. H. Edsall. 1,663,122; Mar. 20.
Drapery suspension fixture, Composite. C. W. Kirsch. 1,662,928; Mar. 20.
Drawbar, Hinged-drag. F. A. Bessman and E. Warmbier. 1,663,108; Mar. 20.
Drawers, Buttonless. A. P. Pazowski. 1,662,981; Mar. 20.
Draw works. H. B. Ziegler. 1,663,431; Mar. 20.
Drill: *See*—
Core drill.
Drilling machine. G. H. Gilman. 1,663,403; Mar. 20.
Drink heater. J. W. Rittman, J. Rood, and W. Driver. Re16,908; Mar. 20.
Drying machines, Automatic damper-operating device for. F. G. Sargent. 1,663,180; Mar. 20.
Drying machines, Exhaust-fan control for. F. G. Sargent and F. L. Furbush. 1,663,181; Mar. 20.
Drying rack, Clothes-. O. A. Fruehauf. 1,663,297; Mar. 20.
Dye, Hair. W. Kritchevsky. 1,663,202; Mar. 20.
Dyes for cotton and making the same, Trisazo. H. Jordan. 1,663,454; Mar. 20.
Dyestuff of the anthraquinone series containing the triazine ring and making same, Vat. F. Ackermann. 1,663,474; Mar. 20.
Dyestuffs involving the use of aryl derivatives of amides of aromatic hydroxycarboxylic acids as mordants, Dyeing with basic. A. Guenther, J. Haller, and E. Köster. 1,663,451; Mar. 20.
Egg factory. O. W. Mapes. 1,663,479; Mar. 20.
Elastic webbing. J. Hirsch. 1,663,303; Mar. 20.
Electric bulb. H. D. Kadel. Des. 74,749; Mar. 20.
Electric-conductor support. E. H. Jacobs. 1,663,007; Mar. 20.
Electric converter. A. S. Hubbard. 1,662,889; Mar. 20.
Electric heater. E. C. Banner. Des. 74,709; Mar. 20.
Electric lines, Safety device for. C. Grosse. 1,662,970; Mar. 20.

Electric machine. T. Schou and R. L. Behrens. 1,663,318; Mar. 20.
Electric switch. J. D. Hilliard. Re16,912; Mar. 20.
Electrical circuits, Fuse holder for. M. B. Herbrick. 1,663,252; Mar. 20.
Electrode clamp. J. W. Meadowcroft. 1,663,258; Mar. 20.
Embossing machine. F. S. Baker and J. L. Richards. 1,663,330; Mar. 20.
Emulsions, Production of. W. A. Whatmough. 1,663,323; Mar. 20.
Engine: *See*—
Internal-combustion engine.
Engine. A. L. Powell. 1,663,261; Mar. 20.
Engine. A. D. Skinner. 1,663,144; Mar. 20.
Engine cooling system, Internal-combustion-. E. J. Manning. 1,663,016; Mar. 20.
Engine ignition system. M. Mallory. 1,663,207; Mar. 20.
Engine provided with an auxiliary charging pump, Internal-combustion. J. Freislinger. 1,662,854; Mar. 20.
Engines, Clutch and accelerator interlocking mechanism for automobile. J. Millington. 1,663,413; Mar. 20.
Engines, Fuel injection device for internal-combustion. E. von Salis. 1,663,469–70; Mar. 20.
Engines, Fuel-injection device for internal-combustion. E. von Salis. 1,663,472; Mar. 20.
Engines, Fuel-injection device for solid-oil. E. von Salis. 1,663,471; Mar. 20.
Engines, Preparing a dry gaseous-fuel mixture for internal-combustion. C. E. Parsons. 1,663,507; Mar. 20.
Engines, Pump attachment for outboard-motor. H. J. Hillborn. 1,663,253; Mar. 20.
Envelope. E. F. Ahlquist. 1,662,918; Mar. 20.
Envelope, Double. C. F. Backmyer. 1,662,848; Mar. 20.
Excavating apparatus, Well. A. P. Schnyder. 1,662,904; Mar. 20.
Extrusion press. A. Born. 1,663,331; Mar. 20.
Eyeglasses, Folding. C. R. Laubscher. 1,663,053; Mar. 20.
Fastener. F. S. Carr. 1,663,240; Mar. 20.
Fastener, Screen. A. E. Helman. 1,663,164; Mar. 20.
Fastening device. D. I. Reiter. 1,662,834; Mar. 20.
Fat, Edible. H. Yudowitch. Re16,915; Mar. 20.
Feed mill. J. A. Day. 1,663,495; Mar. 20.
Fender. H. M. Katz. 1,663,051; Mar. 20.
Ferrules to wooden rollers or the like, Machines for affixing. E. F. Hathaway. 1,663,499; Mar. 20.
Fertilizer distributor. E. M. Cole. 1,662,883; Mar. 20.
Fiber products and making same, Hard grainless. W. H. Mason. 1,663,505; Mar. 20.
File, binder, and the like. T. F. Valleau. 1,662,878; Mar. 20.
Filter, Gasoline and oil. J. Tekavec. 1,663,322; Mar. 20.
Filter sheet, Rubber. W. C. Geer. 1,663,298; Mar. 20.
Fire box, Tunnel-kiln. W. E. Wilson. 1,662,912; Mar 20.
Fish bait. C. Heddon. 1,663,080; Mar. 20.
Fish guard. J. B. Cooke. 1,663,398; Mar. 20.
Fish lure. E. Prieur. Des. 74,759; Mar. 20.
Fishing rods, Hook holder for. C. T. Pflueger. 1,662,983; Mar. 20.
Fishing tackle, Luminous. J. A. Neff. 1,663,465; Mar. 20.
Flag. M. F. Despecher. 1,663,400; Mar. 20.
Fluid, Apparatus for elevating. L. H. Miles. 1,663,311; Mar. 20.
Fly-paper holder. L. M. S. Brown. 1,663,437; Mar. 20.
Fodder cutter and the like. O. B. Clemens. 1,663,114; Mar. 20.
Folded sheet and folding the same. G. A. Shaffer and P. H. Wirtz. 1,663,301; Mar. 20.
Footwear, Method and apparatus for making. F. J. MacDonald. 1,663,456–7; Mar. 20.
Footwear, Method and apparatus for making. F. J. MacDonald. 1,663,460; Mar. 20.
Forming and tapping machine. A. O. Austin. 1,663,329; Mar. 20.
Fountain washing apparatus. M. Christianson. 1,663,439; Mar. 20.
Frame: *See*—
Hack-saw frame. Tube frame.
Frames, Yarn spool for tube. C. Lea. 1,663,502; Mar. 20.
Frequency changes, Indicating. M. B. Long. 1,663,086; Mar. 20.
Fringe-tasseling machine. R. E. Walliser. 1,663,534; Mar. 20.
Fuel-burning heater, Liquid-. G. K. Culp, jr., C. D. Barker, and W. J. Sturgis. 1,663,442; Mar. 20.
Fuel-conditioning system. C. Schwartz. 1,663,220; Mar. 20.
Fumigant material and package. H. W. Houghton. 1,663,082 Mar. 20.
Furnace: *See*—
Hot-air furnace.
Furnace wall. R. A. Foresman. 1,662,967; Mar. 20.
Furnace-wall construction. G. P. Reintjes. 1,663,280; Mar. 20.
Furnaces, Air-supply system for blast. A. J. Ebner. 1,662,851; Mar. 20.
Fuse. J. H. Carmean. 1,663,333; Mar. 20.
Fuse, Renewable. M. M. Lear. 1,663,348; Mar. 20.
Fuse, Renewable. F. J. Roth. 1,663,179; Mar. 20.
Fuses, Locking device for. H. M. Brayton. 1,662,952; Mar. 20.
Galvanizing. J. Blackburn and A. Albrecht. 1,663,037; Mar. 20.
Game. A. C. Barnes. 1,663,235; Mar. 20.
Game. A. F. Reinheimer. 1,663,385; Mar. 20.
Game apparatus. H. W. Noyes. 1,663,024; Mar. 20.
Game board. C. Petersen. 1,662,864; Mar. 20.
Game device. J. W. Field. 1,663,074; Mar. 20.
Game, Indoor football. S. G. Handa. 1,663,404; Mar. 20.
Garment hanger. L. E. Gaume. 1,663,855; Mar. 20.
Garment steam and air press. J. C. Ledbetter. 1,662,975; Mar. 20.
Garments, Armhole bead for. F. J. Dux. 1,663,042; Mar. 20.
Gas and air, Apparatus for delivering a mixture of. G. Keith. Re16,906; Mar. 20.
Gas burner. B. A. and L. H. Geurink. 1,663,339; Mar. 20.
Gas-stop seal. P. Mueller. 1,662,863; Mar. 20.
Gases, Apparatus for smelting the metallic dust and recovering the heat from blast-furnace. J. M. Schutz. 1,662,939; Mar. 20.
Gate: *See*—
Automatic railway gate. Sluice gate.
Railroad gate.
Gauge: *See*—
Liquid-level gauge.
Gauges, Adjusting mechanism for pressure. J. W. Motherwell. 1,663,313; Mar. 20.
Gear and making same, Composite-. L. T. Frederick. 1,663,477; Mar. 20.
Gear teeth, Apparatus for testing bevel-. C. H. Logue. 1,663,085; Mar. 20.
Gear, Washing-machine. B. A. Stocking. 1,663,028; Mar. 20.
Glass-forming apparatus. J. E. McLaughlin. 1,662,861; Mar. 20.
Glass-forming machine. A. N. Cramer. 1,662,848; Mar. 20.
Glue gun. W. I. Hallock. 1,663,077; Mar. 20.
Golf tee. I. F. Roberson. 1,663,262; Mar. 20.
Grading machine. R. A. MacKenzie. 1,663,257; Mar. 20.
Grid leak, Variable. L. L. Jones. 1,663,166; Mar. 20.
Grinder, Internal. S. Einstein. 1,662,821; Mar. 20.
Grinding machine. P. Stoner. 1,663,148; Mar. 20.
Grinding machine, Glass-. E. R. Stoddard and L. C. Zilky. 1,663,320; Mar. 20.
Grinding wheel, Segmental. W. T. MacAulay. 1,663,310; Mar. 20.
Guanidine compound. R. V. Heuser. 1,663,128; Mar. 20.
Guard and support for brake beams, Safety. E. G. Busse. 1,662,916; Mar. 20.
Guitar or similar article. N. Turturro. Des. 74,766; Mar. 20.
Gun, Cap. F. M. Howe. 1,662,971; Mar. 20.
Hair curler. P. C. P. Booty. 1,663,291; Mar. 20.
Hair-treating implement, Electrical. S. Harper. 1,663,078; Mar. 20.
Handle protector. H. J. Woloohojian. 1,662,994; Mar. 20.
Hanger: *See*—
Garment hanger.
Window shade and curtain hanger.
Hanger and container, Garment. I. N. Cave. 1,662,819; Mar. 20.
Harness construction. J. M. Walsh. 1,663,105; Mar. 20.
Hat, Adjustable. P. A. Fischer. 1,663,124; Mar. 20.
Hay sling. H. Schneider. 1,663,063; Mar. 20.
Headlight dimmer. D. Reynolds. 1,663,177; Mar. 20.
Headlight reflector. R. W. Johnson. 1,663,008; Mar. 20.
Heater: *See*—
Drink heater. Incubator heater.
Electric pipe heater. Liquid-fuel-burning heater.
Heat interchanger. E. B. McCabe. 1,663,209; Mar. 20.
Heat interchanger, Grooved-plate. C. W. Stancliffe. 1,662,870; Mar. 20.
Heels, Concaving. G. Clausing. 1,663,038; Mar. 20.
Hides and skins, Treatment for. H. Dodge. 1,663,401; Mar. 20.
Hitching device, Draft. J. T. Doolan. 1,663,246; Mar. 20.
Holder. F. Berry. 1,663,366; Mar. 20.
Holder for glasses. S. W. Farber. Des. 74,731; Mar. 20.
Holder for manicure preparations and the like. W. Meyer. 1,663,021; Mar. 20.
Holder for shoes. G. G. Rona. 1,663,388; Mar. 20.
Holding device for smokers' articles. C. V. Brown. 1,663,156; Mar. 20.
Hook: *See*—
Chain hook.
Hook. H. R. Benson. 1,663,265; Mar. 20.
Hose reel. C. H. and A. G. Larson. 1,663,410; Mar. 20.
Hosiery and product thereof, Making full-fashioned. M. A. Marschner. 1,663,087; Mar. 20.
Hot-air furnace. J. Boucek, J. Halick, and J. Trefney. 1,663,434; Mar. 20.
Hub-liner lubricator. M. W. Whalen. 1,663,033; Mar. 20.
Hub, Wheel. J. L. Hecht. 1,663,127; Mar. 20.
Humidifier. J. F. Richmond. 1,662,938; Mar. 20.

Humidifier and decarbonizer, Combination. M. E. Gillespie. 1,663,163; Mar. 20.
Husking machine, Corn-. E. H. Daniel. 1,663,266; Mar. 20.
Hydrating unit. H. Miscampbell. 1,662,932; Mar. 20.
Hydraulic brake. C. A. Spotz. 1,663,147; Mar. 20.
Hydraulic jack. M. J. Helmer. 1,662,922; Mar. 20.
Ice-handling device. F. W. Wallace. 1,663,067; Mar. 20.
Ignition tester. H. Houghton. 1,663,130; Mar. 20.
Incubator heater. W. H. Monroe. 1,663,057; Mar. 20.
Index-element carrier. W. A. Ringler. 1,662,900; Mar. 20.
Indicating means. E. F. Pierce. 1,663,483; Mar. 20.
Indicator: *See*—
Liquid-level indicator.
Screw-thread tolerance indicator.
Ingot molds, Shrink-head casing for. E. Gathmann. 1,663,450; Mar. 20.
Insulated vessel for food, Heat-. J. L. Leslie. 1,662,860; Mar. 20.
Insulating board and making same, Press-dried structural. W. H. Mason. 1,663,504; Mar. 20.
Insulating board with hard welded surfaces, Integral. W. H. Mason. 1,663,506; Mar. 20.
Insulating boards of exploded ligno-cellulose fiber, Making structural. W. H. Mason. 1,663,503; Mar. 20.
Insulator, Line-conductor. W. D. Kyle. 1,663,011; Mar. 20.
Internal-combustion engine. H. P. Stevens. 1,662,908; Mar. 20.
Internal-combustion engine. A. J. West. Re16,909; Mar. 20.
Internal-combustion engine, Two-stroke-cycle. C. Law. 1,662,828; Mar. 20.
Iron: *See*—
Treating pig iron.
Iron. H. D. Chapman. 1,662,880; Mar. 20.
Iron, Treating pig. E. P. Ross. 1,663,351; Mar. 20.
Ironing-board table. I. W. Foltz. 1,663,449; Mar. 20.
Jack: *See*—
Hydraulic jack. Lifting jack.
Jar or similar container. L. Boatright. Des. 74,717; Mar. 20.
Jar or similar container. C. L. Eaton. Des. 74,724–7; Mar. 20.
Jar sealer, Fruit-. G. A. Evans. 1,663,123; Mar. 20.
Joint: *See*—
Pipe joint. Rail joint.
Joint and making same. A. Angell. 1,662,914; Mar. 20.
Key retainer, Door-. A. Smith. 1,663,354; Mar. 20.
Lace medallion. W. Meads. Des. 74,752; Mar. 20.
Lamp and reflector, Combined. D. Garey and W. B. Tishler. Des. 74,734; Mar. 20.
Lamp arm. J. Grien. Des. 74,740–3; Mar. 20.
Lamp column. J. Grien. Des. 74,737–9; Mar. 20.
Lamp or the like, Bridge. F. Schwartz. Des. 74,763; Mar. 20.
Lamp sockets, Lamp retainer for. D. N. Thompson. 1,663,264; Mar. 20.
Lamp standard. A. de Vries. Des. 74,723; Mar. 20.
Lanterns, Regulating-valve mechanism for gasoline. C. Meissner. 1,662,978; Mar. 20.
Lasting machine. F. J. MacDonald. 1,663,458; Mar. 20.
Latch, Bag. M. Miller. 1,663,383; Mar. 20.
Latch, Door. W. C. Devereaux. 1,663,245; Mar. 20.
Latch, Door. C. S. Shilling, and D. B. Louzon. 1,662,907; Mar. 20.
Latch, Gate. H. R. Baeth. 1,663,152; Mar. 20.
Latch, Sash. T. A. Legge. 1,662,829; Mar. 20.
Lathes, Ball-turning attachment for. J. T. Compton. 1,663,192; Mar. 20.
Laths, Attaching means for steel. G. F. Pawling. 1,662,896; Mar. 20.
Lavatory. C. C. Campus. 1,663,111; Mar. 20.
Lavatory fixture. H. MacMillan. Re16,923; Mar. 20.
Leakage, Preventing. D. F. Asbury. 1,663,035; Mar. 20.
Lens mounting. J. Engel. 1,663,402; Mar. 20.
Lever mounting. V. Bendix. 1,663,290; Mar. 20.
Levulose from purified dahlia juice, Preparation of. W. C. Arsem. 1,663,233; Mar. 20.
Levulose from soluble nonsugar carbohydrates of the dahlia. W. C. Arsem. 1,663,234; Mar. 20.
Life preserver. J. R. Foley. 1,663,268; Mar. 20.
Life-saving and salvaging apparatus for use with marine vessels. B. A. Mathews. 1,663,412; Mar. 20.
Lifter: *See*—
Valve lifter.
Lifting bar, Railway-rail-. D. Rich. 1,663,061; Mar. 20.
Lifting jack. R. I. Harris. 1,662,921; Mar. 20.
Light-concentrating device. C. F. Jenkins. 1,663,308; Mar. 20.
Light signal. C. S. Snavely. 1,662,987; Mar. 20.
Lighter and advertising cabinet, Cigar. C. J. and J. A. Underwood. 1,663,030; Mar. 20.
Lighter, Cigar. G. M. Norton. Des. 74,757; Mar. 20.
Lighter for burners of ranges. F. L. Fuldauer. 1,663,371; Mar. 20.
Lighting fixture. M. Block. Des. 74,715–16; Mar. 20.
Lighting fixture. G. Stefan. 1,663,357; Mar. 20.
Lighting-fixture bracket or article of similar nature. H. Aglow. Des. 74,708; Mar. 20.
Lighting fixture, Wall. A. Krause. Des. 74,750; Mar. 20.
Lighting-fixture wall bracket. W. Von Nessen. Des. 74,767; Mar. 20.
Lighting standard. R. W. Erskine. Des. 74,730; Mar. 20.
Lighting unit. R. W. Erskine. Des. 74,729; Mar. 20.
Line breaker. E. L. Stubbings. 1,663,421; Mar. 20.
Liner for citrus-fruit-juice extractors. A. T. Pursell. 1,662,898; Mar. 20.
Link. D. J. Edwards. 1,663,043; Mar. 20.
Liquid height indicators, Operating means for. T. M. Bynon. 1,663,532; Mar. 20.
Liquid-level gauge. E. F. Pierce. 1,663,484–5; Mar. 20.
Liquid-level indicator. G. J. Dunbaugh, jr. 1,663,041; Mar. 20.
Lock: *See*—
Combination lock. Nut lock.
Locomotive. W. E. Woodard. 1,662,841; Mar. 20.
Locomotive equalizing mechanism. W. E. Woodard. 1,663,227; Mar. 20.
Locomotive fire box. W. L. Reid. 1,663,216; Mar. 20.
Logometer. A. McNab. 1,663,211; Mar. 20.
Looms, Harness mechanism for. J. Lucas. 1,662,931; Mar. 20.
Loose-leaf devices, Partition sheet for. A. M. Martin. 1,663,017; Mar. 20.
Lubricating apparatus. H. Albertine. 1,662,842; Mar. 20.
Lubricator: *See*—
Hub-liner lubricator.
Machine for charging and discharging annealing ovens, etc. H. E. Edwards. 1,663,370; Mar. 20.
Machine for manufacturing of chain mail in tubular shape. R. Einsele. 1,663,448; Mar. 20.
Machine for washing serving trays. C. J. Ulrich. 1,663,288; Mar. 20.
Machine, Portable and convertible. H. G. Wertz. 1,663,486; Mar. 20.
Magnifying glass, Illuminated hand. C. T. Brady. Des. 74,719; Mar. 20.
Marcel irons, Waxing strip for. E. A. Samuelson and R. W. Mitchell. 1,663,389; Mar. 20.
Massage apparatus. W. Koester. 1,663,167; Mar. 20.
Matting. W. J. Reilly. 1,663,139; Mar. 20.
Mattress. L. G. Ihrig. 1,662,973; Mar. 20.
Measuring instrument. C. F. Christopher. 1,663,440; Mar. 20.
Measuring instrument, Electrical. A. R. Rutter. 1,662,835; Mar. 20.
Measuring machine, Batter-. G. Gerace and J. W. Weaver. 1,662,969; Mar. 20.
Mercury compound, Organic. E. Lyons. 1,663,204–5; Mar. 20.
Metal articles, Coating. J. W. Powell. 1,662,865; Mar. 20.
Metal articles, Making sheet-. R. V. Proctor. 1,663,316; Mar. 20.
Metal pipe while cooling, Preventing oxidation of. B. P. Hazeltine. 1,663,497; Mar. 20.
Mill: *See*—
Conical crushing mill. Feed mill.
Mill driving spindle, Rolling-. L. Johnson. 1,663,533; Mar. 20.
Mine explosions, Preventing. W. E. Trent. Re16,914; Mar. 20.
Mining machine. M. P. Holmes. 1,662,824–5; Mar. 20.
Mitering machine. G. O. Edwards and L. Brown, jr. 1,663,247; Mar. 20.
Mixtures, Making and delivering quantitative. T. MacRae. 1,663,206; Mar. 20.
Mold and casting. C. Vaughan. 1,663,286; Mar. 20.
Mold for making packing or the like. N. E. Johnson. 1,663,050; Mar. 20.
Molds designed for the molding of glassware, Checking. O. C. K. Hutchinson. 1,663,306; Mar. 20.
Molding apparatus. J. B. Lukomski. 1,663,455; Mar. 20.
Motor bracket, Outboard-. J. A. Mould. 1,663,260; Mar. 20.
Mounting for metal window casings, Fixture. C. W. Kirsch. 1,662,927; Mar. 20.
Mower, Lawn. W. H. Dailey. 1,662,849; Mar. 20.
Musical instrument. J. C. Socin. 1,663,146; Mar. 20.
Nail file and clip therefor. R. McFarland. 1,663,089; Mar. 20.
Neutralizing bar. A. J. Rostal. 1,663,466; Mar. 20.
Nozzle adjustment for vacuum cleaners. T. O. Adams. 1,663,364; Mar. 20.
Nozzle for macerating machines and the like, Spraying. R. W. Sharp. 1,663,263; Mar. 20.
Nut lock. O. C. Snyder. 1,663,393; Mar. 20.
Oil and gas wells, Mud-laden fluid for. L. Chamberlain. 1,663,492; Mar. 20.
Oil and other fluids, Apparatus for elevating. L. H. Miles. 1,663,312; Mar. 20.
Oil burner. J. C. Gibson. 1,663,045; Mar. 20.
Oil burner. R. H. Patterson. 1,662,895; Mar. 20.
Oil filler for automobiles. M. Condupa. 1,662,820; Mar. 20.
Oils, Oxidation of hydrocarbon. E. E. Reid. 1,663,523; Mar. 20.
Ore-roasting apparatus. D. W. Bowers. 1,662,811; Mar. 20.
Organ, Folding. P. P. Bilhorn. 1,663,238; Mar. 20.
Oven and controlling the heating thereof, Baker's. C. B. Comstock. 1,663,113; Mar. 20.
Oven, Baker's. C. B. Comstock. 1,663,115–17; Mar. 20.
Packing. N. B. Miller. 1,663,314; Mar. 20.
Pad holder. C. Cosper. 1,663,120; Mar. 20.
Paper holder. J. E. Hudson. 1,663,305; Mar. 20.

Paper-making machine. H. L. Kutter. 1,662,929; Mar. 20.
Paper sheets, Packaging waxed-. E. E. Palmer. 1,662,980; Mar. 20.
Pen and pencil holder. P. F. McAuley. 1,663,055; Mar. 20.
Pen, Fountain. N. T. Burke. 1,662,957; Mar. 20.
Pessary, D. S. Joslyn. 1,662,925; Mar. 20.
Pharmaceutical product. W. Schoeller, A. Feldt, M. Gehrke, and E. Borgwardt. 1,663,390; Mar. 20.
Photographic shutter. R. Klein. 1,662,827; Mar. 20.
Photographic shutter. W. A. Riddell. 1,663,178; Mar. 20.
Photographic shutter. A. Wollensak. 1,663,326; Mar. 20.
Piano, Grand. W. Zaiser. Des. 74,770–2; Mar. 20.
Piano leg, Grand-. W. Zaiser. Des. 74,773–5; Mar. 20.
Picking poultry, Device for. H. G. Huey and D. Y. Pierson. 1,662,972; Mar. 20.
Picture machine, Talking-. T. W. Case. Re16,910; Mar. 20.
Piercing machine. E. F. and C. G. Muller. 1,663,213; Mar. 20.
Pipe: *See*—
Repairing pipe.
Pipe fitting. A. Kehm. 1,663,271; Mar. 20.
Pipe heater, Electric. L. P. Hynes. 1,663,255; Mar. 20.
Pipe joint. B. Broido. 1,662,954; Mar. 20.
Piston for internal-combustion engines. R. H. McQuiddy. 1,663,212; Mar. 20.
Piston-ring compressor. S. G. Ling. 1,663,084; Mar. 20.
Pitcher or similar article. C. C. Beam. Des. 74,718; Mar. 20.
Planter attachment for tractors. B. R. Benjamin. 1,663,236; Mar. 20.
Plaster-board walling. J. Schumacher. 1,663,219; Mar. 20.
Plastering machine. J. F. Raus. 1,663,416; Mar. 20.
Plate or similar article. J. B. Phillips. Des. 74,758; Mar. 20.
Playhouse. A. A. Foley. 1,662,823; Mar. 20.
Plug for electric connections. A. C. Bollmann and W. Davies. 1,662,817; Mar. 20.
Pole, Curtain. C. W. Smith. 1,663,356; Mar. 20.
Pole-supporting device. A. W. Bensley. 1,663,153; Mar. 20.
Portfolio. L. Danziger. 1,663,335; Mar. 20.
Portfolio, Paper. A. E. Osborn. 1,663,171; Mar. 20.
Post: *See*—
Tool post.
Posting tray. C. B. Harrison. 1,663,198; Mar. 20.
Press: *See*—
Automatic die press. Garment steam and air press.
Conveyer garment press. Platen printing press.
Extrusion press. Printing press.
Press board. A. M. Harvey. 1,663,373; Mar. 20.
Press-stopping mechanism, Automatic. C. D. McDonald. 1,663,020; Mar. 20.
Press timer. H. A. Stoddard. 1,663,526–7; Mar. 20.
Pressing machines, Combination back plate and plaiting attachment for. H. Diener. 1,663,368; Mar. 20.
Pressing machines, Plaiting attachment for. H. Diener. 1,663,069; Mar. 20.
Printer's register apparatus. G. H. Lund. 1,662,880; Mar. 20.
Printing machine, Manifold-web-. J. A. B. Smith. 1,663,145; Mar. 20.
Printing machines, Perforating and scoring attachment for. J. A. Davidson. 1,663,294; Mar. 20.
Printing of impressions on impression-cylinder packings, Device for eliminating the. F. J. Albert. Re16,905; Mar. 20.
Printing press. C. W. Glasnapp. 1,663,197; Mar. 20.
Printing press, Platen. P. Wieghardt. 1,663,363; Mar. 20.
Printing presses, Ink-cleaning device for flat-bed cylinder. B. J. Hill. 1,663,049; Mar. 20.
Printing system and apparatus, Stencil. H. P. Elliott. 1,662,964; Mar. 20.
Prize-indicating machine. D. F. Mack. 1,663,168; Mar. 20.
Projectile, Gliding. J. Peppin. 1,663,058; Mar. 20.
Propeller. L. Breguet. 1,663,512; Mar. 20.
Propulsion device, Spring-power marine. L. Sher. 1,663,143; Mar. 20.
Protective and signaling device, Combined. J. G. Stephenson. 1,663,358; Mar. 20.
Pulley. J. W. Bissett. 1,663,154; Mar. 20.
Pulley, Variable-speed. A. H. Mize. 1,663,414; Mar. 20.
Pump casing, Dispensing-. O. H. Hershman. Des. 74,745; Mar. 20.
Pump heads, Nonreversing means for. J. A. Wintroath. 1,663,226; Mar. 20.
Pump pistons, Attachment for. C. S. Snoddy, H. A. Hines, and H. A. Megonigle. 1,662,942; Mar. 20.
Pump with sight feed, Automatic oil. J. J. Langmack. 1,663,052; Mar. 20.
Punching machine. W. H. D'Ardenne. 1,663,443; Mar. 20.
Purse, Vanity. P. B. Bowen. Des. 74,718; Mar. 20.
Push rod. J. B. Lievre. 1,663,345; Mar. 20.
Rack: *See*—
Clothes-drying rack. Display rack.
Rack for garments and the like, Display. H. E. Reyher. 1,663,176; Mar. 20.
Radiator. G. S. Barrows. 1,663,529; Mar. 20.
Radiator. M. S. Hart and G. Steele. 1,663,301; Mar. 20.
Radiator cap. G. E. Gravenstine. Des. 74,735; Mar. 20.
Radiator cap. A. C. Lippert. 1,663,054; Mar. 20.
Radiator cap. J. F. White. 1,662,911; Mar. 20.
Radiator cap, Automobile. J. F. White. 1,662,910; Mar. 20.
Radiator, Electric steam. J. B. Odell. 1,662,935; Mar. 20.
Radiator shutter, Automobile. C. R. Bryant and A. F. Weiss. 1,662,844; Mar. 20.
Radiator, Wall. L. Williams. 1,662,998; Mar. 20.
Radiators, Attachment for automobile. G. C. J. Gray. 1,663,047; Mar. 20.
Radiators, Sealing cap for automobile. J. F. White. 1662,909; Mar. 20.
Radiocabinet. J. Wolff. Des. 74,768–9; Mar. 20.
Radio operator's chair. O. E. Banker. 1,662,947; Mar. 20.
Radioreceiver. W. M. Bruce, jr. 1,663,110; Mar. 20.
Radio signaling system employing machine-switching dial. M. L. Almquist. 1,662,877; Mar. 20.
Radio telemechanic system. E. Fiamma. 1,663,078; Mar. 20.
Rail joint. P. Stellingwerf. 1,663,419; Mar. 20.
Railroad gate. R. D. Stokes. 1,663,184; Mar. 20.
Railway gate, Automatic. M. Duchsherer. 1,663,040; Mar. 20.
Railway switch. D. Tatum. 1,663,423; Mar. 20.
Railway tie and rail chair therefor. W. C. Temple. 1,663,425; Mar. 20.
Railway vehicle structure. W. O. Ashe and H. M. Pflager. 1,663,036; Mar. 20.
Rake. K. T. Tanaka. 1,663,395; Mar. 20.
Range construction, Gas-. H. Hoecker, jr., T. Thompson, and O. Hammermeister. 1,663,348; Mar. 20.
Reamer, Adjustable. H. Thomason. 1,663,223; Mar. 20.
Receptacle, Display. A. A. Matheson. 1,663,088; Mar. 20.
Receptacle, Double-walled vacuum. M. P. Wetmore. 1,663,032; Mar. 20.
Recording machine. J. L. R. Banks. 1,662,949; Mar. 20.
Records, Making. J. L. R. Banks. 1,662,948; Mar. 20.
Reel: *See*—
Hose reel.
Reel for conductors, Spring. O. C. Kavle. 1,663,083; Mar. 20.
Refrigerating apparatus, Control system for. E. S. Ensign. 1,662,965; Mar. 20.
Refrigerator for two-temperature cabinets. J. G. Peck. 1,663,481; Mar. 20.
Register: *See*—
Autographic register.
Repairing pipe. T. De La Mare. 1,662,852; Mar. 20.
Repeater system. H. A. Affel. 1,662,876; Mar. 20.
Resins and preparing same, Phthalic anhydride-glycerol. J. H. Schmidt. 1,663,183; Mar. 20.
Ring traveler and producing same. P. C. Wentworth. 1,663,289; Mar. 20.
Rock bit. C. H. Bull. 1,663,332; Mar. 20.
Rod: *See*—
Push rod.
Roller: *See*—
Conveyer roller.
Rotary ventilator. W. F. Hirschman. 1,663,199; Mar. 20.
Rubber and making the same, Colored vulcanized. E. R. Bridgwater. 1,663,436; Mar. 20.
Rubber and the like, Composition for use in forming. J. M. Crane. 1,662,958; Mar. 20.
Rubber articles, Producing grained. T. J. Mell. 1,663,275; Mar. 20.
Rule. W. F. Boast. 1,663,190; Mar. 20.
Ruler, Measuring. A. B. Cook. 1,663,293; Mar. 20.
Safety signal. M. P. Kirk. 1,663,132; Mar. 20.
Saw frame, Hack-. C. R. Garner. 1,663,076; Mar. 20.
Scaffold. F. B. Johnston. 1,663,131; Mar. 20.
Scaffold, Window. B. A. Portt. 1,663,279; Mar. 20.
Scouring device. R. B. Kingman. 1,663,132; Mar. 20.
Screen: *See*—
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Scrubbing and drying machine. G. C. Megling. 1,663,056; Mar. 20.
Seat: *See*—
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Seat construction, Spring-. F. P. Chesley. 1,663,001; Mar. 20.
Sectional pole. A. Cruickshanks. 1,662,884; Mar. 20.
Seesaw. H. A. Young and A. T. Shakeshaft. 1,662,875; Mar. 20.
Separator. W. M. Little and J. L. Sherman. 1,663,411; Mar. 20.
Settee frame or similar article. C. Bauer. Des. 74,710–11; Mar. 20.
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Sewing machines, Feeding device for book-. E. B. Pierce. 1,662,897; Mar. 20.
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Shade and curtain hanger, Window. W. W. Mullendore. 1,663,090; Mar. 20.
Shades, reflectors, or the like, Holder for. L. C. Doane. 1,662,853; Mar. 20.
Shearing machine. A. Parys. 1,663,092; Mar. 20.

Sheet material, Manipulating device for. F. J. MacDonald. 1,663,461; Mar. 20.
Shock-absorbing mechanism, Friction. S. B. Haseltine. Re16,911; Mar. 20.
Shoe. J. Alfred. 1,662,814; Mar. 20.
Shoe. E. Cassano. 1,662,845; Mar. 20.
Shoe and forming the same. J. B. Snell. 1,663,319; Mar. 20.
Shoe and making the same. F. Perkins. 1,663,094; Mar. 20.
Shoe linings or the like, Method and apparatus for forming. F. J. MacDonald. 1,663,462; Mar. 20.
Shoe-making machine, Automatic. E. J. Prindle. 1,663,097; Mar. 20
Shoe protector. A. McKinley. 1,663,381; Mar. 20.
Shovel-crane boom. L. A. Russell. 1,662,902; Mar. 20.
Shovel-operating mechanism. S. Carlson. 1,663,292; Mar. 20.
Shuttle threader block. A. Dion. 1,663,070; Mar. 20.
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Sign. H. G. Russell. Des. 74,762; Mar. 20.
Sign and making same, Transparent. C. M. Rice, 1,663,386; Mar. 20.
Sign, Illuminated advertising. J. C. Smith. 1,663,892; Mar. 20.
Sign-letter plate. A. and R. Otto. 1,663,849; Mar. 20.
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Signal switch, Speed. P. Ruegg. 1,663,098; Mar. 20.
Signboard. H. L. Selle. Des. 74,764; Mar. 20.
Signpost. B. F. Grimshaw. Des. 74,744; Mar. 20.
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Silo seal. F. Günther. 1,663,478; Mar. 20.
Slipper. J. Koller. 1,663,376; Mar. 20.
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Solids, Colloidally dispersing. S. Cabot. 1,662,999; Mar. 20.
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Solvents, Recovery of volatile. J. H. Brégeat. 1,663,155; Mar. 20.
Sound reproducer. G. C. Lindsey. 1,663,256; Mar. 20.
Spar, Purifying and bleaching heavy. K. Ebers. 1,663,159; Mar. 20.
Spark plug. G. N. Barcus. 1,662,878; Mar. 20.
Speed mechanism, Control for variable-. H. C. Clay. 1,663,493; Mar. 20.
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Mill driving spindle.
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Spout for coffeepots and the like. I. C. Richheimer. 1,663,317; Mar. 20.
Spring-containing strip. F. A. Kellar. 1,663,272; Mar. 20.
Springs, Connecting means for. L. E. Pittoni and G. F. Sisbower. 1,663,315; Mar. 20.
Stapling machine. J. B. Crofoot. 1,663,242. Mar. 20.
Static frequency multiplier and modulator. M. Latour. 1,663,135; Mar. 20.
Step, Extension. J. B. Stroud. 1,663,321; Mar. 20.
Stokers, Ram drive for underfeed. C. L. Howse. 1,663,513; Mar. 20.
Storage battery. F. P. Danna. 1,663,193; Mar. 20.
Stove. C. C. Armstrong. 1,663,151; Mar. 20.
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Stove, Oil and water burner. A. O. Sletager. 1,663,284; Mar. 20.
Streets, System and means for marking. J. W. De Ford. 1,662,960; Mar. 20.
Striker plate. S. H. Halper. 1,663,800; Mar. 20.
Strip-coating apparatus. R. R. Ambler. 1,663,232; Mar. 20.
Structure having coincidence of normally eccentric axes of force and mass. H. F. Roach. 1,663,281; Mar. 20.
Stumps, Apparatus for harvesting. J. T. Murry and C. B. Patterson. 1,663,277; Mar. 20.
Submarines, Testing dock for. P. Matthiessen and A. D. Möller. 1,663,346; Mar. 20.
Superheaters, Apparatus for draining and cleaning. B. Broido. 1,662,953; Mar. 20.
Support. H. P. Chandler. 1,663,334; Mar. 20.
Support arm. H. S. Jandus and J. R. Morgan. Des. 74,748; Mar. 20.
Suspension mechanism. J. C. Hanna. 1,662,856; Mar. 20.
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Switch: *See*—
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Switch mechanism, Automatic. C. H. Wolff. 1,663,325; Mar. 20.
Switch-operating mechanism. C. F. Parker. 1,663,188; Mar. 20.
Syringe, Bulb for hydrometer. W. A. Reynolds. 74,760; Mar. 20.
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Tag. W. E. Webb and E. P. Williams. 1,663,185; Mar. 20.
Tank openings, Locked closure for. J. H. Falster. 1,663,296; Mar. 20.
Telegraph conductor. O. E. Buckley. 1,662,956; Mar. 20.
Telephone-exchange system, Switch device for automatic. F. B. Trachsel 1,663,360; Mar. 20.
Telephone lines, Automatic volume control for. J. Herman. 1,662,888; Mar. 20.
Telephone system, Automatic. F. Aldendorff. 1,663,231; Mar. 20.
Telephone system, Electromechanical. F. Aldendorff. 1,663,230; Mar. 20.
Tennis racket. E. J. Craven. 1,663,039; Mar. 20.
Terminal. M. J. Dunne. 1,662,822; Mar. 20.
Thrashing machines, Dockages screen for. S. N. Sorensen. 1,663,027; Mar. 20.
3,4 diamino benzoyl o-benzoic acids and making the same. R. Adams, J. M. Davidson and I. Gubelmann. 1,663,229; Mar. 20.
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Throttle, Balanced multiple. R. M. Brown. 1,662,955; Mar. 20.
Ticket printing and issuing machine. H. R. Setright. 1,663,407; Mar. 20.
Tie-rod ends, Making. G. H. Hufferd. 1,663,254; Mar. 20.
Tile, Producing handmade. J. R. Warfield. 1,663,106; Mar. 20.
Timber conveyer. F. Burns. 1,662,812; Mar. 12.
Timepieces, Operating mechanism for. N. D. Holbrook. 1,662,920; Mar. 20.
Timer, Multiple. T. J. Barrett. 1,663,187; Mar. 20.
Tin plate. S. A. Davis. 1,663,445; Mar. 20.
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Tire alarm. L. Garrett. 1,662,968; Mar. 20.
Tire, Automobile. H. C. Anderson. 1,663,511; Mar. 20.
Tire carrier and remover. W. W. Johnson. 1,662,974; Mar. 20.
Toilet device. N. Rushe. 1,663,282; Mar. 20.
Tolerance indicator, Screw-thread. J. O. Johnson. 1,663,341; Mar. 20.
Tongs or lifter, Ice-cream-cone. R. Scharphuis. 1,662,867; Mar. 20.
Tool. F. J. Widman. 1,663,225; Mar. 20.
Tool, Grinding. F. W. Stoll. 1,663,420; Mar. 20.
Tool, Line-tightening. F. Semmler. 1,663,182; Mar. 20.
Tool mechanism, Rotary. M. Westrate. 1,662,992; Mar. 20.
Tool post. K. H. Crumrine. 1,662,959; Mar. 20.
Tool, Well underreaming. M. C. Lowman, G. E. Fentress, and R. Bane. 1,663,014; Mar. 20.
Tools, Repairing. C. H. Brown. 1,663,367; Mar. 20.
Tooth crown, False-teeth. F. O. Jaques, jr. 1,662,924; Mar. 20.
Toothpick dispenser. M. Moss and T. F. McCarthy. 1,662,831; Mar. 20.
Torch. H. R. Vaughan. 1,663,064; Mar. 20.
Torpedo placer. R. R. Noblit. 1,663,415; Mar. 20.
Towel holder. B. White. 1,663,107; Mar. 20.
Toy. S. J. Brown. 1,662,998; Mar. 20.
Toy. J. Ekstein. Des. 74,728; Mar. 20.
Toy, Child's convertible. A. E. Rainey. 1,663,060; Mar. 20.
Toy, Roundabout. L. Marx. 1,663,379; Mar. 20.
Toy vehicle. B. F. Dudek and R. J. Mandery. 1,663,121; Mar. 20.
Toy vehicle. L. Marx. 1,663,169; Mar. 20.
Track liner. R. H. Bloxham. 1,662,996; Mar. 20.
Track liner. C. A. Disbrow. 1,663,071; Mar. 20.
Tractor. C. A. Peters. 1,662,982; Mar. 20.
Tractor hitch. W. S. Graham. 1,663,250; Mar. 20.
Tractor seat. A. B. Caslow. 1,663,112; Mar. 20.
Tractors, Wagon-loading device for. N. P. Nelson and F. W. James. 1,662,832; Mar. 20.
Traffic-controlling apparatus, Railway-. G. W. Baughman. 1,662,950; Mar. 20.
Traffic-controlling apparatus, Railway-. A. A. Skene and H. A. Thompson. 1,663,222; Mar. 20.
Traffic-controlling apparatus, Railway-. H. A. Thompson. 1,662,990; Mar. 20.
Train-signal system. E. C. Stafford. 1,662,988; Mar. 20.
Transmission mechanism. H. A. Schultze. 1,663,026; Mar. 20.
Transmission mechanism, Variable-speed. S. M. Dick. 1,663,158; Mar. 20.
Transom adjuster. W. E. Putnam. 1,663,175; Mar. 20.
Transportation system. H. W. Kirchner. 1,663,375; Mar. 20.
Troughs, Adjustable partition for dough. L. F. Gottwald. 1,663,046; Mar. 20.

Truck bolster with absorption mechanism. T. H. Symington and P. R. Dreuning. 1,663,394; Mar. 20.
Truck, Industrial. E. H. Remde. 1,663,140; Mar. 20.
Truck platform. F. M. Reid. 1,662,833; Mar. 20.
Trucks and cars, Safety dog for. D. H. Yake. 1,663,327; Mar. 20.
Tube frame. C. Lea. 1,663,501; Mar. 20.
Tubing and cane, Manufacture of glass. K. E. Peller. 1,663,093; Mar. 20.
Tunnel kiln. H. R. Straight. 1,663,029; Mar. 20.
Turntables, Air-supply connection for. C. M. Goodrich. 1,663,872; Mar. 20.
Tuyère. A. J. Ebner. 1,662,850; Mar. 20.
Typewriting and like machine. F. A. Hart. 1,663,374; Mar. 20.
Typewriting machine. S. L. Walsoe. 1,663,362; Mar. 20.
Typographical machines, Indention device. B. M. Nees and Z. Rubottom. 1,662,934; Mar. 20.
Udder protector. C. T. Jenkins. 1,663,408; Mar. 20.
Underreamer. E. S. Hartson. 1,663,048; Mar. 20.
Unloader mechanism, Compressor. F. A. Muller and L. L. Basberg. 1,663,214; Mar. 20.
Unloading system. H. V. Haight. 1,662,918; Mar. 20.
Vacuum tube and transformer, combined. A. Mutscheller. 1,662,891; Mar. 20.
Valance for window draperies. R. J. Murray. Des. 74,754–6; Mar. 20.
Valve. S. J. Nordstrom. 1,662,892; Mar. 20.
Valve accelerator, Dry-pipe-. E. Tyden. 1,662,839; Mar. 20.
Valve, Air-venting. H. Brown and G. R. Uhl. 1,663,157; Mar. 20.
Valve body, Check-. M. Smolensky. 1,662,869; Mar. 20.
Valve-controlling means, Adjustable. R. von Felden. 1,663,066; Mar. 20.
Valve device. G. A. Morrison. 1,663,384; Mar. 20.
Valve for automatic sprinkler systems, Retarding. L. M. Lewis. 1,663,136; Mar. 20.
Valve, Gas. E. S. Tronzo. 1,663,426; Mar. 20.
Valve lifters, Making. H. G. Carlson. 1,663,191; Mar. 20.
Valve structure, Rotary. P. G. Frazier. 1,663,075; Mar. 20.
Valves, Device for lapping in. E. E. Eickmeyer. 1,663,447; Mar. 20.
Vanity box. C. L. Dewey. 1,663,244; Mar. 20.
Vanity case. C. L. Coyle. 1,663,002; Mar. 20.
Variable element. W. Kaisling. 1,663,010; Mar. 20.
Vault, Burial. R. C. Plaggmier. 1,663,464; Mar. 20.
Vehicle brake-operating means. B. M. Schauman and J. F. Milligan. 1,662,868; Mar. 20.
Vehicle for transporting pipes and other loads. W. R. Hume. 1,662,923; Mar. 20.
Vehicle impact bar. H. Taylor. 1,663,424; Mar. 20.
Vehicle, Passenger. J. L. Delpini. 1,662,961; Mar. 20.
Vehicle, Power-driven. G. Grist. 1,663,299; Mar. 20.
Vehicles, Brake-drum mount for motor. R. L. Aumack. 1,662,810; Mar. 20.
Vending machine, Perfume-. J. F. Harwood. 1,662,919; Mar. 20.
Ventilator: *See*—
Rotary ventilator.
Vessel, Marine. R. Miller. 1,663,347; Mar. 20.
Waffle iron or mold. L. Lebert. 1,663,378; Mar. 20.
Wall case. R. I. Eustis and F. S. Beiger. 1,663,337; Mar. 20.
Wall for building construction. T. V. Miles. 1,663,276; Mar. 20.
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Washing machine. O. Meyer. 1,663,463; Mar. 20.
Washing machines, Driving mechanism for. H. J. Criner. 1,663,494; Mar. 20.
Water power. C. Ramsdell. 1,662,937; Mar. 20.
Water silencer. S. B. Merkel and E. Dobrowsky. 1,663,382; Mar. 20.
Water-tube boiler. H. C. Bady. 1,662,815; Mar. 20.
Weeder. H. Weseloh. 1,663,396; Mar. 20.
Weighing apparatus. W. Timson. 1,663,509; Mar. 20.
Weighing method. J. Hopkinson. 1,663,129; Mar. 20.
Weight container. F. W. Thompson. 1,663,103; Mar. 20.
Welding apparatus, Automatic control device for electric-arc. W. R. Hume. 1,662,858; Mar. 20.
Welding machine, Electric spot-. R. Mack. 1,663,137; Mar. 20.
Welding machine, Resistance. A. Jönsson. 1,663,200; Mar. 20.
Wheel: *See*—
Disk-wheel. Segmental grinding wheel.
Hub wheel.
Wheel-aligning device. H. G. and F. Hershman. 1,663,452; Mar. 20.
Wheel mechanism, Free-. K. Maybach. 1,663,380; Mar. 20.
Window construction, Metal. A. M. Lane. 1,663,134; Mar. 20.
Window guide, Metal. L. Lipper. 1,663,274; Mar. 20.
Window panes, Raising or lowering. J. Saoutchik. 1,663,352; Mar. 20.
Window, Pivoted. R. Benzenberg. 1,663,188; Mar. 20.
Window screen. A. Dagrosa. 1,663,243; Mar. 20.
Window-washing machine. H. A. Harris. 1,662,887; Mar. 20.
Windshields, Clear-vision device for automobile. E. A. Kroh. 1,663,500; Mar. 20.
Wire-fence machine. J. W. Dwiggins. 1,662,962; Mar. 20.
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CLASSIFICATION OF PATENTS

ISSUED MARCH 20, 1928.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abercrombie & Fitch Co., Inc., New York, N. Y. Playing cards, chess, checkers, etc. 240,424–5; Mar. 27; Serial Nos. 252,077–8; published Jan. 17, 1928. Class 22.

Acme Brick Company, Fort Worth, Tex. Brick. 240,538; Mar. 27. Class 12.

Agmel Corporation, The, Los Angeles, Calif. Tonic. 240,364; Mar. 27; Serial No. 239,782; published Jan. 17, 1928. Class 6.

Agmel Corporation, The, Los Angeles, Calif. Tonic. 240,365; Mar. 27; Serial No. 240,052; published Jan. 17, 1928. Class 6.

Alber, Louis J., Cleveland, Ohio. Printed books, booklets. 240,374; Mar. 27; Serial No. 251,023; published Jan. 17, 1928. Class 38.

Alesi, John, Exterminating Company, Chicago, Ill. Insecticides. 240,550; Mar. 27. Class 6.

All-Ready Paint and Varnish Works. (See Sheldon, Albert K., Company.)

Alzamora, Julius C., doing business as Revelation Chemical Company, San Francisco, Calif. Insecticide, deodorant, and disinfectant. 240,416; Mar. 27; Serial No. 258,711; published Jan. 17, 1928. Class 6.

American Beauty Macaroni Co. (See Kansas City Macaroni & Importing Co.)

American Import Company, The, San Francisco, Calif. Fishing baskets, fishing gut, gut leaders, etc. 240,532; Mar. 27. Class 22.

Andel Co. (See White, Thomas F.)

Arco Chemical Corp. (See Ratto, Andrew.)

Ardelle, Helen, Candy Company, Seattle, Wash. Candy. 240,470; Mar. 27; Serial No. 258,617; published Jan. 17, 1928. Class 46.

Arkansas Natural Gas Company, Pittsburgh, Pa. Liquefied petroleum gas. 240,539; Mar. 27. Class 6.

Athey Truss Wheel Co., Chicago, Ill. Trailer-type vehicles and parts thereof. 240,535; Mar. 27. Class 19.

Atwood & Company, Minneapolis, Minn. Coffee. 240,368; Mar. 27; Serial No. 242,874; published May 31, 1927. Class 46.

Automobile Owners Association of America, Baltimore, Md. Maps. 240,344; Mar. 27; Serial No. 257,851; published Jan. 17, 1928. Class 38.

Baisden, William, doing business as Baisden's Indian Herb Company, Lincoln Park, Mich. Medicinal preparation for treatment of rheumatism. 240,396; Mar. 27; Serial No. 257,779; published Jan. 17, 1928. Class 6.

Bankert Brothers, Taneytown, Md. Canned vegetables. 240,565; Mar. 27. Class 46.

Barnes Emulsion Co., San Francisco, Calif. Medicinal preparation. 240,357; Mar. 27; Serial No. 234,814; published Jan. 17, 1928. Class 6.

Baron, H., & Co. Inc., New York, N. Y. Maltless concentrated sirups. 240,483; Mar. 27; Serial No. 251,815; published Jan. 17, 1928. Class 45.

Belknap Hardware & Manufacturing Company, Louisville, Ky. Coaster wagons. 240,444; Mar. 27; Serial No. 248,091; published Jan. 17, 1928. Class 22.

Belknap Hardware & Manufacturing Company, Louisville, Ky. Automobile and furniture polish. 240,447; Mar. 27; Serial No. 249,258; published Jan. 17, 1928. Class 16.

Belknap Hardware & Manufacturing Company, Louisville, Ky. Coaster wagons. 240,448; Mar. 27; Serial No. 249,693; published Jan. 17, 1928. Class 22.

Belknap Hardware & Manufacturing Company, Louisville, Ky. Pneumatic tires, inner tubes, etc. 240,494; Mar. 27; Serial No. 249,257; published Jan. 17, 1928. Class 85.

Benrus Watch Company, New York, N. Y. Watches. 240,399; Mar. 27; Serial No. 258,015; published Jan. 17, 1928. Class 27.

Bergen Bros. Auto Tire Co., Hartford, Conn. Batteries for automobiles and radios. 240,460; Mar. 27; Serial No. 256,442; published Jan. 17, 1928. Class 21.

Berent, Craft & Kauffman Milling Company, St. Louis, Mo. Wheat flour. 240,549; Mar. 27. Class 46.

Big Store Co., The, Cincinnati, Ohio. Hosiery, underwear, blouses, etc. 240,493; Mar. 27; Serial No. 249,508; published Jan. 10, 1928. Class 39.

Blaul's, John, Sons Co., Burlington, Iowa. Tea, coffee, cocoa, spices, dried fruits, canned berries, etc. 240,432; Mar. 27; Serial No. 235,194; published Jan. 11, 1927. Class 46.

Blish Milling Company, Seymour, Ind. Self-rising wheat flour. 240,487; Mar. 27; Serial No. 250,961; published Jan. 17, 1928. Class 46.

Blish Milling Company, Seymour, Ind. Wheat flour. 240,488; Mar. 27; Serial No. 250,959; published Jan. 17, 1928. Class 46.

Böde, Hans A., doing business as Royal Hawaiian Laboratories, Honolulu, Hawaii. Medicinal preparations, etc. 240,346; Mar. 27; Serial No. 257,659; published Jan. 17, 1928. Class 6.

Boune, Chow D., New York, N. Y. Preparation for the treatment of venereal diseases. 240,336; Mar. 27; Serial No. 258,513; published Jan. 17, 1928. Class 6.

Boyd-Richardson Company, St. Louis, Mo. Jackets, sweaters, vests, etc. 240,475; Mar. 27; Serial No. 254,538; published Jan. 10, 1928. Class 39.

Brinly-Hardy Company, Louisville, Ky. Plows, cultivators, etc. 240,500; Mar. 27; Serial No. 258,109; published Jan. 17, 1928. Class 23.

Brock, Frederick C., and Ivan L. Smith, Cleveland, Ohio. Automobile seat covers. 240,519; Mar. 27. Class 19.

Brooks, William H., doing business as Greenline Bakeries, Inc., San Francisco, Calif. Bread, cake, etc. 240,371; Mar. 27; Serial No. 248,810; published Aug. 23, 1927. Class 46.

Brundage, H., San Francisco, Calif. Cigarettes. 240,499; Mar. 27; Serial No. 258,111; published Jan. 17, 1928. Class 17.

Bryant Electric Company, The, Bridgeport, Conn. Attachment-plug caps and bodies and cord connecters. 240,449; Mar. 27; Serial No. 258,208; published Jan. 17, 1928. Class 21.

Bulliard, Edmond, doing business as Evangeline Pepper Products Ed. Bulliard, St. Martinville, La. Foods and ingredients of foods. 240,438; Mar. 27; Serial No. 243,477; published May 3, 1927. Class 46.

Burkhardt Bros. Co., The, Cincinnati, Ohio. Men's flannel suits. 240,521; Mar. 27. Class 39.

Burkholder, John D., doing business as Magnetic Life Blanket Co., Philadelphia, Pa. Therapeutic appliances. 240,386; Mar. 27; Serial No. 257,146; published Jan. 17, 1928. Class 44.

Burnett, Joseph, Company, Boston, Mass. Food-flavoring extract. 240,461; Mar. 27; Serial No. 256,659; published Jan. 17, 1928. Class 46.

C & H Products Corporation, New York, N. Y. Artist's relief paint. 240,377–8; Mar. 27; Serial Nos. 257,000–1; published Jan. 17, 1928. Class 16.

Cape County Milling Company, Jackson, Mo. Flour. 240,512; Mar. 27. Class 46.

Carter, Edward C., doing business as Carter Pharmaceutical Co., Fort Wayne, Ind. Powder for cleansing dental plates. 240,423; Mar. 27; Serial No. 251,607; published Jan. 10, 1928. Class 4.

Charles Bond Company, Philadelphia, Pa. Leather belting. 240,501; Mar. 27; Serial No. 258,061; published Jan. 17, 1928. Class 35.

Chevrolet Motor Company, Detroit, Mich. Printed circulars. 240,345; Mar. 27; Serial No. 257,784; published Jan. 10, 1928. Class 38.

Chicago Mail Order Company, Chicago, Ill. Corsets and corselets. 240,522; Mar. 27. Class 39.

"Chinoin" Gyógyszer és Végyészeti Termékek Gyára Részvéntytársaság, Ujpest, near Budapest, Hungary. White crystalline powder. 240,537; Mar. 27. Class 6.

City Mills Company, Columbus, Ga. Chicken feed. 240,496; Mar. 27; Serial No. 258,163; published Jan. 17, 1928. Class 46.

Clark Tructractor Company, Buchanan, Mich. Tractors. 240,492; Mar. 27; Serial No. 250,064; published Jan. 17, 1928. Class 23.

Collier, Robert, and Robert Collier, Inc. (See Personal Arts Company.)

Columbia Steel Company, The, Elyria, Ohio. Sheet metal formed of iron and steel. 240,563; Mar. 27. Class 14.

Con's Shoe Grease Co., Troy, Mont. Shoe grease and leather dressing. 240,420; Mar. 27; Serial No. 250,678; published Jan. 17, 1928. Class 4.

Consolidated Mills Flour Company. (See Prina, Frank R., Corporation, The.)

Consumers Biscuit Company, New Orleans, La. Biscuits, candy, and ice-cream cones. 240,468; Mar. 27; Serial No. 256,811; published Jan. 17, 1928. Class 46.

Consumers Glue Co., St. Louis, Mo. Paste. 240,498; Mar. 27; Serial No. 258,114; published Jan. 10, 1928. Class 5.

Cooley, Charles G. Comus, Md. Stock medicine. 240,352; Mar. 27; Serial No. 256,608; published Jan. 17, 1928. Class 6.

Cooper Laboratories, Inc., The, Dayton, Ohio. Medicinal tonic. 240,384; Mar. 27; Serial No. 257,960; published Jan. 17, 1928. Class 6.

Cottrell, Norman M., doing business as Master-Craft Products Co., Chicago, Ill. Radio tube rejuvenator. 240,523; Mar. 27. Class 21.

Cramer, R. W., & Company Inc., New York, N. Y. Medical apparatus. 240,457; Mar. 27; Serial No. 256,246; published Jan. 17, 1928. Class 44.

Crescent Specialty Company, Inc., Brooklyn, N. Y. Sanitary napkins. 240,454; Mar. 27; Serial No. 255,971; published Jan. 17, 1928. Class 44.

D. N. D. Mfg. Co., The, Chattanooga, Tenn. Relish. 240,387; Mar. 27; Serial No. 257,149; published Jan. 17, 1928. Class 46.

Daily Pantagraph, The, Bloomington, Ill. Daily newspaper. 240,339; Mar. 27; Serial No. 258,404; published Jan. 17, 1928. Class 38.

Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Pastes and powders for beautifying and preserving the teeth, skin, and hair, and perfumery. 240,341; Mar. 27; Serial No. 258,165; published Jan. 17, 1928. Class 6.

Dart, Robert H., Sacramento, Calif. Fresh grapes. 240,515; Mar. 27. Class 46.
Demuth, William, & Company, New York, N. Y. Tobacco pipes, cigar and cigarette holders. 240,529; Mar. 27. Class 8.
De Nobili Cigar Company, New York, N. Y. Cigars, cigarettes, etc. 240,355; Mar. 27; Serial No. 254,128; published Jan. 24, 1928. Class 17.
De Nobili Cigar Company, New York, N. Y. Cigars, cigarettes, tobacco, etc. 240,478; Mar. 27; Serial No. 253,532; published Jan. 17, 1928. Class 17.
Detroit Harvestor Company, Detroit, Mich. Power unit for agricultural and other machines. 240,520; Mar. 27. Class 23.
Dillard-Nalle Company, Washington, D. C. Chewing gum containing aspirin. 240,417; Mar. 27; Serial No. 258,732; published Jan. 17, 1928. Class 6.
Don-Ark Company, Cleveland, Ohio. Face creams. 240,358; Mar. 27; Serial No. 232,583; published Jan. 17, 1928. Class 6.
Du-Klene Co., The, Los Angeles, Calif. Preparation for cleaning artificial dentures. 240,388; Mar. 27; Serial No. 257,282; published Jan. 10, 1928. Class 4.
Dundee Textile Company, Passaic, N. J. Silk piece goods. 240,473; Mar. 27; Serial No. 258,573; published Jan. 17, 1928. Class 42.
Du Pont Cereal Products Company, The. (See Moore, William J.)
Eisenkramer, Oskar, New York, N. Y. Sanitary belts, aprons, etc. 240,431; Mar. 27; Serial No. 230,617; published Jan. 17, 1928. Class 44.
Elam Mills, Inc., Chicago, Ill. Flour, meal, oatmeal, etc. 240,534; Mar. 27. Class 46.
Empire Milling Company, Minneapolis, Minn. Wheat flour. 240,356; Mar. 27; Serial No. 216,900; published Oct. 20, 1925. Class 46.
Eshelman, John W., & Sons, Lancaster, Pa. Livestock foods. 240,559; Mar. 27. Class 46.
Evangeline Pepper Products Ed. Bulliard. (See Bulliard, Edmond.)
Fawcett Publications, Inc., Robbinsdale, Minn. Publication. 240,340; Mar. 27; Serial No. 258,258; published Jan. 17, 1928. Class 38.
Finlay, Holt & Co. Ltd., New York, N. Y. Cotton and cotton-mixed goods. 240,485; Mar. 27; Serial No. 253,141; published Jan. 17, 1928. Class 42.
Firestone Tire and Rubber Company, The, Akron, Ohio. Inner tubes. 240,531; Mar. 27. Class 35.
First National Laboratories, Incorporated, Lehighton, Pa. Preparation used in the treatment of coughs, colds, etc. 240,418; Mar. 27; Serial No. 258,789; published Jan. 17, 1928. Class 6.
Fletcher, Terry Company, The, Bristol, Conn. Glass cutters. 240,373; Mar. 27; Serial No. 249,715; published Dec. 27, 1927. Class 23.
Forest Hills Company, doing business as Old Colony Brewing Co., Boston, Mass. Malt extracts. 240,394; Mar. 27; Serial No. 257,864; published Jan. 17, 1928. Class 46.
Forest Hills Company, doing business as Old Colony Brewing Co., Boston, Mass. Beverages. 240,480; Mar. 27; Serial No. 252,466; published Jan. 17, 1928. Class 48.
Foster, C. B., Packing Co., Inc., Biloxi, Miss. Canned shrimp. 240,561; Mar. 27. Class 46.
Franklin, D. R., Co., Inc., New York, N. Y. Household cleaner. 240,400; Mar. 27; Serial No. 258,022; published Jan. 10, 1928. Class 4.
Geyer, Andrew, Inc., New York, N. Y. Publication. 240,334; Mar. 27; Serial No. 258,632; published Jan. 17, 1928. Class 38.
Gezelius, Carl F., doing business as La Ilson Gezelius, Hulan (Dalarne), Sweden, Chicago, Ill. Plasters for treatment of boils, pimples, etc. 240,348; Mar. 27; Serial No. 257,356; published Jan. 17, 1928. Class 6.
Goldman, Sigmund L., doing business as Royal Red Malt Co., Chicago, Ill. Hop-flavored malt syrup. 240,370; Mar. 27; Serial No. 243,853; published Jan. 10, 1928. Class 46.
Graham Paper Company, St. Louis, Mo. Book paper. 240,555; Mar. 27. Class 37.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. House organ. 240,331; Mar. 27; Serial No. 258,685; published Jan. 17, 1928. Class 38.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Publication issued from time to time. 240,343; Mar. 27; Serial No. 257,925; published Jan. 10, 1928. Class 38.
Greenline Bakeries, Inc. (See Brooks, William H.)
Grunhut, Leich & Ellison, Inc., New York, N. Y. Dress shirts, blouses, lumber jackets, etc. 240,477; Mar. 27; Serial No. 253,592; published Nov. 1, 1927. Class 39.
Gutradt, Joseph Company, San Francisco, Calif. Face cream, antiseptic ointment, hair tonic, etc. 240,360; Mar. 27; Serial No. 238,223; published Jan. 17, 1928. Class 6.
Hamblin & Russell Mfg. Co., Worcester, Mass. Kitchen blenders. 240,544; Mar. 27. Class 23.
Health Laboratories, Inc., Long Beach, Calif. Health-food remedies. 240,412; Mar. 27; Serial No. 258,635; published Jan. 17, 1928. Class 6.
Hillman, David, doing business as Hillman Dry Goods Company, Orlando, Fla. Hosiery. 240,363; Mar. 27; Serial No. 239,655; published Dec. 6, 1927. Class 39.
Hirschberg & Company, New York, N. Y. Boys' caps. 240,490–1; Mar. 27; Serial Nos. 250,538–9; published Jan. 10, 1928. Class 39.
Holman, H. J., & Sons Inc., Sheboygan, Wis. Shirts, overalls, coats, etc. 240,479; Mar. 27; Serial No. 252,706; published Jan. 10, 1928. Class 39.
Hupp Motor Car Corporation, Richmond, Va., and Detroit, Mich. Tire covers. 240,497; Mar. 27; Serial No. 258,124; published Jan. 17, 1928. Class 35.
Hynson, Wescott & Dunning, Baltimore, Md. Antiseptics and disinfectants. 240,410; Mar. 27; Serial No. 258,579; published Jan. 17, 1928. Class 6.
Infectacene Laboratories. (See Malone, Sarah B.)
Institute of Current Literature. (See Porter, Louis.)
International Magazine Company, Inc., New York, N. Y. Magazine section. 240,350; Mar. 27; Serial No. 257,237; published Jan. 10, 1928. Class 38.
Inter-Tribal Indian Ceremonial Association, Gallup, N. Mex. Annual publications. 240,362; Mar. 27; Serial No. 239,620; published Jan. 10, 1928. Class 38.
Iowa Soap Company, Burlington, Iowa. Soap flakes. 240,558; Mar. 27. Class 4.
Jiffy Products Corporation, Buffalo, N. Y. Battery terminal. 240,467; Mar. 27; Serial No. 256,779; published Jan. 17, 1928. Class 21.
John, Robert, Long Branch, N. J. Compound for treating hydrocarbon fuel. 240,366; Mar. 27; Serial No. 240,607; published Jan. 17, 1928. Class 6.
Johnson Coffee Co., Chattanooga, Tenn. Coffee. 240,372; Mar. 27; Serial No. 240,478; published July 12, 1927. Class 46.
Jordan, Harry I., Auburn, Me. Golf balls. 240,455; Mar. 27; Serial No. 255,993; published Jan. 17, 1928. Class 22.
Kaempfer, Fred W., doing business as Kaempfer's, Chicago, Ill. House organ. 240,347; Mar. 27; Serial No. 257,630; published Jan. 17, 1928. Class 38.
Kansas City Macaroni & Importing Co., doing business as American Beauty Macaroni Co., Kansas City, Mo. Macaroni for use in making salads. 240,391; Mar. 27; Serial No. 257,363; published Jan. 17, 1928. Class 46.
Kappner, Max, doing business as The Kappner Manufacturing Company, Cincinnati, Ohio. Medicines and remedies. 240,381; Mar. 27; Serial No. 257,365; published Jan. 17, 1928. Class 6.
Kascht, John C., Waterloo, Iowa. Cigars. 240,509; Mar. 27. Class 17.
Kaufman, John, Prairie du Sac, Wis. Vegetable slicers. 240,541; Mar. 27. Class 23.
Kip Corporation, The, Los Angeles, Calif. Salves. 240,351; Mar. 27; Serial No. 256,944; published Jan. 17, 1928. Class 6.
Kurfees, J. F., Paint Company, Incorporated, Louisville, Ky. Prepared liquid paint. 240,389; Mar. 27; Serial No. 257,293; published Jan. 17, 1928. Class 16.
Laboratoire de Pharmacologie, Inc., New York, N. Y. Tablets for the treatment of sore throat, coughs, etc. 240,335; Mar. 27; Serial No. 258,550; published Jan. 17, 1928. Class 6.
La Gren Products Co., Des Moines, Iowa. Inhalant and medicated oil. 240,379; Mar. 27; Serial No. 257,294; published Jan. 17, 1928. Class 6.
Lambert Tire & Rubber Company, Barberton, Ohio. Pneumatic tires. 240,564; Mar. 27. Class 35.
Leffler, Eli S., doing business as Leffler & Co., St. Louis, Mo. Soap. 240,404; Mar. 27; Serial No. 258,281; published Jan. 10, 1928. Class 4.
Lem-Cod Co., The. (See Lemler, Harry.)
Lemler, Harry, doing business as The Lem-Cod Co., Baltimore, Md. General tonics. 240,397; Mar. 27; Serial No. 257,880; published Jan. 17, 1928. Class 6.
Lemur Company, The, Cleveland, Ohio. Cosmetics. 240,466; Mar. 27; Serial No. 256,730; published Jan. 17, 1928. Class 6.
Levinson, Meyer, doing business as The Mazzalina Products Co., Colorado, Tex. Wheat flour, corn flour, and a mixture of corn and wheat flour. 240,480; Mar. 27; Serial No. 250,807; published Jan. 10, 1928. Class 46.
Liberty Electric Corporation, Stamford, Conn. Electricity rectifiers, etc. 240,445; Mar. 27; Serial No. 249,073; published Jan. 17, 1928. Class 21.
Liebovitz, S., & Sons, Inc., New York, N. Y. Dress shirts and pajamas. 240,530; Mar. 27. Class 39.
Lincoln Electric Company, The, Cleveland, Ohio. Electric motors, arc welders, and motor-generator sets. 240,429; Mar. 27; Serial No. 199,429; published Sept. 21, 1926. Class 21.
Luckey, Eugene, Portland, Oreg. Piston rings. 240,543; Mar. 27. Class 35.
Macy, R. H., & Co., Inc., New York, N. Y. Coats, suits, and dresses. 240,503; Mar. 27; Serial No. 257,804; published Jan. 10, 1928. Class 39.
Magnetic Life Blanket Co. (See Burkholder, John D.)
Malone, Sarah B., doing business as Infectacene Laboratories, Akron, Ohio. General healing salve or ointment. 240,411; Mar. 27; Serial No. 258,582; published Jan. 17, 1928. Class 6.
Marbro's Mens Shop. (See Markowitz, Louis J.)
Marinello Company, New York, N. Y. Magazine. 240,333; Mar. 27; Serial No. 258,641; published Jan. 17, 1928. Class 38.
Markey-Harmon Co., Tampa, Fla. Canned vegetables, shrimp, oysters, and pickles. 240,442; Mar. 27; Serial No. 248,238; published Jan. 17, 1928. Class 46.

Markowitz, Louis J., doing business as Marbro's Mens Shop, New York, N. Y. Men's shirts. 240,481; Mar. 27; Serial No. 251,921; published Jan. 10, 1928. Class 39.
Marsh, Harry B., Indianapolis, Ind. Handles for shovels, forks, spades, and the like. 240,542; Mar. 27. Class 23.
Martin, Emil F., doing business as The Solvent Company, New York, N. Y. Hair tonic. 240,540; Mar. 27. Class 6.
Master-Craft Products Co. (See Cottrell, Norman M.)
Mazzalina Products Co., The. (See Levinson, Meyer.)
McCaffrey, Charles G., doing business as Old Pilgrim Malt Extract Company, Pittsburgh, Pa. Malt syrup. 240,390; Mar. 27; Serial No. 257,296; published Jan. 17, 1928. Class 46.
Merlino, A., & Sons, Seattle, Wash. Canned tomatoes, peas, beans, dried codfish, bottled vinegar, etc. 240,430; Mar. 27; Serial No. 209,307; published May 17, 1927. Class 46.
Missouri Valley Creamery Co., The, Washington, Mo. Ice cream. 240,426; Mar. 27; Serial No. 252,344; published Jan. 17, 1928. Class 46.
Montana Flour Mills Company, Lewistown, Mont. Wheat flour. 240,507; Mar. 27; Serial No. 257,843; published Jan. 10, 1928. Class 46.
Moore, John A., doing business as Western Metal Co., Bloomington, Ill. Aseptic coating. 240,553; Mar. 27. Class 6.
Moore, William J., doing business as The Du Pont Cereal Products Company, Chicago, Ill. Prepared cereals. 240,508; Mar. 27; Serial No. 258,234; published Jan. 10, 1928. Class 46.
Morgan, William A., Atlanta, Ga. Preparation for use in the treatment of cataracts of the eyes. 240,528; Mar. 27. Class 6.
Mox, Incorporated, Los Angeles, Calif. Construction materials. 240,547; Mar. 27. Class 12.
Mueller Brass Co., Port Huron, Mich. Metal pipe, pipe fittings, bolts, etc. 240,495; Mar. 27; Serial No. 255,391; published Jan. 24, 1928. Class 13.
Munsch-Protzmann Co., New York, N. Y. Preparation for the treatment of skin diseases. 240,337; Mar. 27; Serial No. 258,480; published Jan. 17, 1928. Class 6.
Murena, Joseph A., Jersey City, N. J. Liquid preparation for cleaning footwear. 240,459; Mar. 27; Serial No. 256,368; published Jan. 10, 1928. Class 4.
Murine Company, Inc., The, Chicago, Ill. Eye remedies. 240,437; Mar. 27; Serial No. 243,227; published Jan. 17, 1928. Class 6.
Musher and Company, Washington, D. C. Medicinal tonic. 240,385; Mar. 27; Serial No. 257,246; published Jan. 17, 1928. Class 6.
Nee Tee Garter Company. (See Smith, Charles A.)
New York Clock Corporation, The, New York, N. Y. Clocks. 240,443; Mar. 27; Serial No. 248,968; published Jan. 17, 1928. Class 27.
Niles Tool Works Company, The, New York, N. Y. Metal-cutting machines. 240,510; Mar. 27. Class 23.
Nu-Glo Auto-Products Co. (See Nunes, Henry.)
Nunes, Henry, doing business as Nu-Glo Auto-Products Co., San Francisco, Calif. Automobile cleaning fluid. 240,450; Mar. 27; Serial No. 253,174; published Jan. 10, 1928. Class 4.
Occidental Publishing Company, Los Angeles, Calif. Publication. 240,354; Mar. 27; Serial No. 254,716; published Jan. 17, 1928. Class 38.
Odell Company, Inc., The, Newark, N. J. Toilet requisites. 240,361; Mar. 27; Serial No. 239,540; published Feb. 8, 1927. Class 6.
Old Colony Brewing Co. (See Forest Hills Company.)
Old Pilgrim Malt Extract Company. (See McCaffrey, Charles G.)
Pabst, Edmund F., doing business as Pabst Chemical Co., Chicago, Ill. Genito-urinary antiseptic and diuretic. 240,439; Mar. 27; Serial No. 244,626; published Oct. 4, 1927. Class 6.
Palmolive-Peet Company, The, Chicago, Ill. Rouge, powder, cold cream, etc. 240,421; Mar. 27; Serial No. 250,858; Jan. 17, 1928. Class 6.
Panama Mfg. Co., Inc., New York, N. Y. Cotton and woolen piece goods and combinations. 240,471–2; Mar. 27; Serial Nos. 258,587–8; published Jan. 17, 1928. Class 42.
Panoff, Nichola, Kittanning, Pa. Herb tonic. 240,393; Mar. 27; Serial No. 257,761; published Jan. 17, 1928. Class 6.
Pan Oils Chemical Co. (See Potaris, Gregory.)
Parfumerie Caron. (See Daltroff, E., & Cie.)
Parker Pencil Company, Inc., Los Angeles, Calif. Pencils. 240,557; Mar. 27. Class 37.
Parker Stamp Works, Inc., The, Hartford, Conn. Preparation for use in the heat treatment of steels. 240,413; Mar. 27; Serial No. 258,649; published Jan. 17, 1928. Class 6.
Parker & Waterman Manufacturing Co., Los Angeles, Calif. Decalcomania transfers, transfer signs, etc. 240,357; Mar. 27; Serial No. 226,677; published Jan. 10, 1928. Class 38.
Patch, E. L., Company, The, Stoneham, Mass. Cough syrup. 240,349; Mar. 27; Serial No. 257,307; published Jan. 17, 1928. Class 6.
Patriarche, Hugh R., North Vancouver, British Columbia, Canada. Novelty confection. 240,516; Mar. 27. Class 46.
Paulus-Ullmann Printing Corporation, New York, N. Y. Price or stock tags. 240,560; Mar. 27. Class 37.
Peirce, O. W., Company, La Fayette, Ind. Coffee. 240,513; Mar. 27. Class 46.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Sanitary aprons, belts, and step-ins. 240,441; Mar. 27; Serial No. 246,566; published May 10, 1927. Class 44.
Personal Arts Company, doing business as Robert Collier and Robert Collier, Inc., Scranton, Pa. Periodicals. 240,338; Mar. 27; Serial No. 258,425; published Jan. 17, 1928. Class 38.
Pierce, S. S., Co., Boston, Mass. Perfumes, toilet waters, powders, etc. 240,469; Mar. 27; Serial No. 256,886; published Jan. 17, 1928. Class 6.
Pilcher, J. V., Mfg. Co., Louisville, Ky. Compact or vanity cases. 240,451; Mar. 27; Serial No. 255,076; published Jan. 17, 1928. Class 28.
Pomona Manufacturing Company, Pomona, Calif. Plunger pumps and turbine pumps. 240,482; Mar. 27; Serial No. 251,854; published Jan. 17, 1928. Class 23.
Porcelain Products, Inc., Findlay, Ohio. Lightning arresters. 240,405; Mar. 27; Serial No. 258,288; published Jan. 17, 1928. Class 21.
Portales Valley Sweet Potato Growers Association, Portales, N. Mex. Sweet potatoes. 240,474; Mar. 27; Serial No. 258,540; published Jan. 17, 1928. Class 46.
Porter, Louis, doing business as Institute of Current Literature, Cambridge, Mass. Booklets. 240,375; Mar. 27; Serial No. 253,731; published Jan. 17, 1928. Class 38.
Porter, Otey J., Columbia, Tenn. Depilatory preparations. 240,446; Mar. 27; Serial No. 249,093; published Jan 17, 1928. Class 6.
Porzellanfabrik Waldershof A. G. vorm. Johann Haviland, Waldershof, Germany. Porcelain ware. 240,536; Mar. 27. Class 30.
Posner Hosiery, Inc., New York, N. Y. Hosiery, pajamas, shoes, etc. 240,518; Mar. 27. Class 39.
Potaris, Gregory, doing business as Pan Oils Chemical Co., New York, N. Y. Floor and furniture polish. 240,380; Mar. 27; Serial No. 257,030; published Jan. 17, 1928. Class 16.
Prina, Frank R., Corporation, The, doing business as Consolidated Mills Flour Company, New York, N. Y. Wheat flour. 240,514; Mar. 27. Class 46.
Procter & Gamble Company, The, Cincinnati, Ohio. Toilet and bath soap. 240,433; Mar. 27; Serial No. 237,333; published Feb. 1, 1927. Class 4.
Quality Flour House, The. (See Rosenberg, Adolph D.)
Radia-Device Inc., The, Los Angeles, Calif. Radium-containing bodies used for therapeutic purposes. 240,452; Mar. 27; Serial No. 255,607; published Jan. 17, 1928. Class 44.
Radiant Mills Company, The, Elyria, Ohio. Hosiery. 240,436; Mar. 27; Serial No. 241,066; published Feb. 1, 1927. Class 39.
Rallet Corporation of America, Wilmington, Del., and New York, N. Y. Perfume, toilet water, face powder, etc. 240,342; Mar. 27; Serial No. 258,098; published Jan. 3. 1928. Class 6.
Rapinwax Paper Company, St. Paul, Minn. Tissue wrapping paper. 240,546; Mar. 27. Class 37.
Rare Chemicals Inc., New York, N. Y. Prophylactic mouth wash. 240,332; Mar. 27; Serial No. 258,652; published Jan. 17, 1928. Class 6.
Raskas, Louis S., St. Louis, Mo. Dairy products. 240,486; Mar. 27; Serial No. 251,082; published Jan. 17, 1928. Class 46.
Ratto, Andrew, doing business as Arco Chemical Corp., Oakland, Calif. Bleaching solutions. 240,548; Mar. 27. Class 6.
Reeder, Oliver, & Son, Incorporated, Baltimore, Md. Antifouling composition. 240,527; Mar. 27. Class 16.
Revelation Chemical Company. (See Alzamora, Julius C.)
Roach, W. R., & Co., Grand Rapids, Mich. Canned foods. 240,376; Mar. 27; Serial No. 256,973; published Jan. 17, 1928. Class 46.
Rode, Frederick W., doing business as Rode Bros., Philadelphia, Pa. Malt syrup. 240,462; Mar. 27; Serial No. 256,687; published Jan. 17, 1928. Class 46.
Rollman, Michael A., Mount Joy, Pa. Electric sadirons and portable electric kits. 240,453; Mar. 27; Serial No. 255,930; published Jan. 17, 1928. Class 21.
Roseman, Joseph A., Evanston, Ill. Golf clubs and balls. 240,463; Mar. 27; Serial No. 256,688; published Jan. 10, 1928. Class 22.
Rosenberg, Adolph D., doing business as The Quality Flour House, Chicago, Ill. Wheat flour. 240,554; Mar. 27. Class 46.
Royal Hawaiian Laboratories. (See Bödе, Hans A.)
Royal Red Malt Co. (See Goldman, Sigmund L.)
Safety Lift Company. (See Stetson, John P.)
Saleme, R. E., & Son, San Mateo, Calif. Shoe cleaner and polish. 240,402; Mar. 27; Serial No. 258,099; published Jan. 10, 1928. Class 4.
Schell, Harry A., Philadelphia, Pa. Medicated dental adhesive poultice. 240,407; Mar. 27; Serial No. 258,356; published Jan. 17, 1928. Class 6.
Schranck, H. C., Company, Milwaukee, Wis. Malt extracts and syrups. 240,369; Mar. 27; Serial No. 247,218; published July 12, 1927. Class 46.
Sheldon, Albert K., Company, doing business as All-Reed Paint and Varnish Works, Cambridge, Mass. Mixed paints and varnishes. 240,562; Mar. 27. Class 16.

Shirtcraft Company, Inc., The, New York, N. Y. Clothing. 240,502; Mar. 27; Serial No. 257,897; published Jan. 10, 1928. Class 39.
Sholts, John H., doing business as J. H. Sholts & Co., Pontiac, Mich. Hand soap. 240,382; Mar. 27; Serial No. 257,082; published Jan. 17, 1928. Class 4.
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric refrigerating apparatus and systems and parts thereof. 240,476; Mar. 27; Serial No. 253,963; published Oct. 18, 1927. Class 31.
Simmons, George W., Corporation, New York, N. Y. Toothpicks. 240,406; Mar. 27; Serial No. 258,295; published Jan. 17, 1928. Class 44.
Simmons, George W., Corporation, New York, N. Y. Toilet paper. 240,511; Mar. 27. Class 37.
Simpson-Ashby Co., Los Angeles, Calif. Canned vegetables and fruits, spices, candy, etc. 240,517; Mar. 27. Class 46.
Smith, Alfred H., Co., New York, N. Y. Brushes, powder puffs, brooms, etc. 240,533; Mar. 27. Class 29.
Smith, Charles A., doing business as Nee Tee Garter Company, New York, N. Y. Garters. 240,504; Mar. 27; Serial No. 257,818; published Jan. 10, 1928. Class 39.
Solvent Company, The. (See Martin, Emil F.)
Spanish American Fruit Company, Inc., Vega Baja, P. R. Canned grapefruit. 240,367; Mar. 27; Serial No. 242,508; published Oct. 4, 1927. Class 46.
Speidel Bros., Providence, R. I. Key chains, buckles, collar fasteners, knife handles, etc. 240,395; Mar. 27; Serial No. 257,899; published Jan. 17, 1928. Class 28.
Spirer, Frederick, & Sons, New York, N. Y. Coats, collars, scarfs, and cuffs of fur. 240,526; Mar. 27. Class 39.
Spitz, Edward E., Boston, Mass. Face creams, face powders, rouges, etc. 240,552; Mar. 27. Class 6.
Sprague, William F., & Co., Inc., New York, N. Y. Musical powder boxes, musical cigarette cases, etc. 240,428; Mar. 27; Serial No. 254,605; published Jan. 17, 1928. Class 36.
Spyco Smelting & Refining Co., Minneapolis, Minn. Inlay gold, gold solder, etc., for dental use. 240,458; Mar. 27; Serial No. 256,311; published Jan. 17, 1928. Class 44.
Squills and De Lacy Limited, Clitheroe, England. Preparations for the prevention and treatment of diseases of pigeons or poultry. 240,408; Mar. 27; Serial No. 258,542; published Jan. 17, 1928. Class 6.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Gasoline. 240,427; Mar. 27; Serial No. 252,401; published Jan. 17, 1928. Class 15.
Standard Oil Company of New Jersey, Wilmington, Del. Chemical compound used in compounding lubricating oils and greases. 240,409; Mar. 27; Serial No. 258,543; published Jan. 17, 1928. Class 6.
Standard Pneumatic Action Company, New York, N. Y. Player pianos and actions for player pianos. 240,551; Mar. 27. Class 36.
Starnes, Henry, Augusta, Ga. Salve. 240,414; Mar. 27; Serial No. 258,661; published Jan. 17, 1928. Class 6.
Stein-Bloch Co., The, Rochester, N. Y. Men's sack coats and men's overcoats. 240,545; Mar. 27. Class 39.
Stetson, John P., doing business as Safety Lift Company, New York, N. Y. Automobile greasing stands of the elevator type. 240,525; Mar. 27. Class 23.
Supplee-Biddle Hardware Company, Philadelphia, Pa. Coaster wagons. 240,419; Mar. 27; Serial No. 249,760; published Jan. 17, 1928. Class 22.
Swinova Company Laboratories, Sioux Rapids, Iowa. Medicated oil emulsion. 240,422; Mar. 27; Serial No. 251,420; published Jan. 17, 1928. Class 6.
Theta Chi Fraternity, New York, N. Y. Fraternity badges, lapel buttons, cuff links, etc. 240,435; Mar. 27; Serial No. 240,455; published Jan. 17, 1928. Class 28.
Thybony & Bengtson, Chicago, Ill. Wall paper. 240,505; Mar. 27; Serial No. 257,822; published Jan. 10, 1928. Class 37.
Triple-Light Co., Denver, Colo. Electric lights. 240,556; Mar. 27. Class 21.
Tripoint Pneumatic Utility Co., Chicago, Ill. Vacuum cleaners. 240,506; Mar. 27; Serial No. 257,823; published Jan. 17, 1928. Class 23.
Twin Disc Clutch Company, Racine, Wis. Clutches. 240,524; Mar. 27. Class 23.
Tyrman Electric Corporation, Chicago, Ill. Dials, transformers, and vacuum-tube sockets. 240,392; Mar. 27; Serial No. 257,646; published Jan. 17, 1928. Class 21.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Insecticides. 240,415; Mar. 27; Serial No. 258,664; published Jan. 17, 1928. Class 6.
Usem Company, New York, N. Y. Automatic electric emergency lighting systems. 240,403; Mar. 27; Serial No. 258,102; published Jan. 17, 1928. Class 21.
Vickers Petroleum Company, The, Wichita, Kans. Gasoline. 240,464–5; Mar. 27; Serial Nos. 256,698–9; published Jan. 17, 1928. Class 15.
Vincent Bach Corporation, New York, N. Y. Musical instruments. 240,440; Mar. 27; Serial No. 246,138; published May 31, 1927. Class 36.
Vita-Rica Pharmacal Co., Inc., New York, N. Y. Tonic pill. 240,353; Mar. 27; Serial No. 254,768; published Jan. 17, 1928. Class 6.
Wanamaker, John, New York, New York, N. Y. Golf balls. 240,434; Mar. 27; Serial No. 239,906; published Jan. 17, 1928. Class 22.
Waverly Oil Works Company, Pittsburgh, Pa. Soap. 240,456; Mar. 27; Serial No. 256,024; published Jan. 17, 1928. Class 4.
Western Metal Co. (See Moore, John A.)
White, Thomas F., doing business as Andel Co., New York, N. Y. Medicated soap. 240,398; Mar. 27; Serial No. 258,008; published Jan. 10, 1928. Class 4.
Wilder Mfg. Co., St. Louis, Mo. Board games. 240,383; Mar. 27; Serial No. 257,132; published Jan. 10, 1928. Class 22.
Wolfer, Paul C., Company, Everett, Mass. Boots, shoes, and slippers, etc. 240,484; Mar. 27; Serial No. 251,255; published Nov. 1, 1927. Class 39.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Pianos, player pianos, and piano players. 240,401; Mar. 27; Serial No. 258,055; published Jan. 17, 1928. Class 36.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Agneau Laboratory. (See Lamb, H. W., sr.)
Bonner, James J., doing business as Pine-Tree Products, Boston, Mass. Pine-Tree Air-A-Tor. For Deodorizer and Air Conditioner. 33,725; Mar. 27.
Coffnip Company, The, Yakima, Wash. Coffnip. For Cough Remedy. 33,726; Mar. 27.
Dexter, Stephen B., Los Angeles, Calif. Stop-To-Bac. For Cigars. 33,727; Mar. 27.
Drug Products Co. Inc., The, Long Island City, N. Y. Medident. For Tooth Paste. 33,728; Mar. 27.
E-W Products Co. (See Strange, R. R., jr.)
Gross, Alexander S., Inc., New York, N. Y. Dresses of Tailored-Simplicity. For Ladies' and Misses' Dresses. 33,729; Mar. 27.
Grupe, Charles L., doing business as Twin Rose Company, Chicago, Ill. Soluble Sulphur Shampoo. For Shampoo in Liquid Form. 33,730; Mar. 27.
Helde, Henry, Inc., New York, N. Y. Helde's Panglo Chocolate Raisins. For Candy. 33,731; Mar. 27.
Helde, Henry, Inc., New York, N. Y. Helde's Panglo Chocolate Coconut. For Candy. 33,732; Mar. 27.
Helde, Henry, Inc., New York, N. Y. Helde's Panglo Chocolate Mints. For Candy. 33,733; Mar. 27.
Helde, Henry, Inc., New York, N. Y. Helde's Panglo Chocolate Peanuts. For Candy. 33,734; Mar. 27.
Helthol Medicine Co., The, Cleveland, Ohio. Helthol. For Medicine. 33,735; Mar. 27.
Hillyard Chemical Company, St. Joseph, Mo. Blox-Odor. For a Deodorant. 33,736; Mar. 27.
Lamb, H. W., sr., doing business as Agneau Laboratory, Vineland, N. J. Agneau Creme. For Face Cream. 33,737; Mar. 27.
Marie Rose Perfume Co., Inc., New York, N. Y. Marie Rose. For Face Powder. 33,738; Mar. 27.
Marie Rose Perfume Co., Inc., New York, N. Y. Marie Rose. For Cleansing Cream. 33,739; Mar. 27.
Marsan, E. P., Company, The, Chicago, Ill. Ajarof. For Bean Salads. 33,740; Mar. 27.
Merchants' Publishing Co., San Antonio, Tex. Merchants' Cook Book and Household Guide. For Merchants' Cook Book and Household Guides and Containers Thereof. 33,741; Mar. 27.
Pine-Tree Products. (See Bonner, James J.)
Quong Sun Company, Inc., New Orleans, La. Green Dragon Brand Dry Pack Shrimp. For Shrimp. 33,742; Mar. 27.
Rosen, J., & Sons, Paterson, N. J. Sunshine Satin. For Ribbons. 33,743; Mar. 27.
Schmitt, Wm. S., doing business as Schmitt's Bakery, Kenosha, Wis. Schmitt's Bakery Butter Kreme Kake. For Cake. 33,744; Mar. 27.
Simplex Heat Regulator Company, Minneapolis, Minn. Thermostatic Heat Controls. For Heat Regulators. 33,745; Mar. 27.
Strange, R. R., jr., doing business as E-W Products Co., San Francisco, Calif. E-W Brandy Sauce. For Brandy Sauce. 33,746; Mar. 27.
Tetzlaff & Meyer, Los Angeles, Calif. Renate Tetzlaff Cold Cream. For Cold Cream. 33,747; Mar. 27.
Twin Rose Company. (See Grupe, Charles L.)
Walker Properties Association, Austin, Tex. Walker's Fancy Beans With Chile Gravy. For Canned Beans with Chile Gravy. 33,748; Mar. 27.
Werlin, Arthur, Philadelphia, Pa. Bohemia Real. For Malt Syrup. 33,749; Mar. 27.
Wrigley, Wm., Jr., Company, Chicago, Ill. Wrigley's P. K. Peppermint—Pink P. K. For Chewing Gum. 33,750–1; Mar. 27.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Baer & Wilde Company, The, Attleboro, Mass. Swank Collars Holder—Looks Like a Pin But Isn't. For Collar Holders. 10,724; Mar. 27.
Baer & Wilde Company, The, Attleboro, Mass. Kum-A-Part Kuff Button For French Cuffs. For Cuff Buttons. 10,725; Mar. 27.
Coty, Inc., Wilmington, Del., and New York, N. Y. Les Pastels Coty. For Rouge. 10,726; Mar. 27.
Gordon, B. M., Schenectady, N. Y. Minteaz "Peps-In" Gum "Takes The 'Die' From Indigestion." For Chewing Gum. 10,727; Mar. 27.
Hewson, Dr., Dental Co., Inc., Boston, Mass. Roofless Upper—Lockin Lower. For Sets of Teeth. 10,728; Mar. 27.
Knapp, Otto, New York, N. Y. Picture Frame Clap. For Picture-Frame Clamps. 10,729; Mar. 27.
North American Cement Corp., Albany, N. Y. Security Cement. For Cement. 10,730; Mar. 27.
Pabst, Edmund, doing business as Pabst Chemical Co., Chicago, Ill. When In Trouble Use Pabst's Okay Specific. For a Medicinal Preparation. 10,731; Mar. 27.
Postum Company, Incorporated, New York, N. Y. I Have Left a Letter For You With The Grocer. For Postum Cereal and Instant Postum. 10,732; Mar. 27.
Postum Company, Incorporated, New York, N. Y. Here Is The Letter I Promised You. A Personal Message From Carrie Blanchard. For Instant Postum and Postum Cereal. 10,733; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. More Miles to The Gallon. For Betholine Motor Fuel. 10,734; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. Power. For Betholine Motor Fuel. 10,735; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. Head & Shoulders Above Them All. For Betholine Motor Fuel. 10,736; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. Unchanging As the Leopard's Spots. For Betholine Motor Fuel. 10,737; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. Leadership. For Betholine Motor Fuel. 10,738; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. Best In Cold Weather. For Betholine Motor Fuel. 10,739; Mar. 27.
Sherwood Bros. Inc., Baltimore, Md. Nothing Else Like It! For Betholine Motor Fuel. 10,740; Mar. 27.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abboloid Novelty Company, Chicago, Ill. Novelty products made of pyralin. 256,275; Mar. 27. Class 40.
Aktiebolaget Stridsberg & Biorck, Trollhattan, Sweden. Circular saws, machine plane irons, etc. 258,853; Mar. 27. Class 23.
Albany Boat Corporation, Watervliet, N. Y. Chairs. 260,707; Mar. 27. Class 32.
Allen-Spiegel Shoe Mfg. Co., Belgium, Wis. Shoes. 258,933; Mar. 27. Class 39.
Ambory, Louise, doing business as Jiffy Electric Water Heater Company, Detroit, Mich. Electric water heaters. 260,868; Mar. 27. Class 21.
American Cone and Pretzel Company, Philadelphia, Pa. Pretzels. 261,545; Mar. 27. Class 46.
American Dyewood Company, New York, N. Y. Chemical product. 261,092; Mar. 27. Class 6.
American Import Company, The, San Francisco, Calif. Fishing poles. 260,614; Mar. 27. Class 22.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Wire. 255,327; Mar. 27. Class 14.
Anderson, John L., New York, N. Y. Miniature pot and saucer. 260,669; Mar. 27. Class 22.
Andresen, F. C. & Associates, Inc., Pittsburgh, Pa. Magazine. 260,790; Mar. 27. Class 38.
Annetta Waist & Dress Co. Inc., New York, N. Y. Gowns, dresses, wraps, and coats. 257,913; Mar. 27. Class 39.
Apex Laboratories, Inc., Chicago, Ill. Lighter liquid. 260,618; Mar. 27. Class 6.
Association of Electragists, International, New York, N. Y. Magazine. 254,566; Mar. 27. Class 38.
Atkins, E. C., & Company, Indianapolis, Ind. Crosscut saws. 259,233; Mar. 27. Class 23.
Autostrop Safety Razor Company, Inc., New York, N. Y. Razor blades. 261,337; Mar. 27. Class 28.
B-Z-B Knitting Co., Rockford, Ill. Hosiery. 259,938; Mar. 27. Class 39.
Badger Equipment Company, Omaha, Nebr. Grain and roughage mills. 260,252–3; Mar. 27. Class 23.
Balmer, J. H., Co., Newark, N. J. Bathroom fixtures. 243,129; Mar. 27. Class 13.
Becker Baking Company, The, Baltimore, Md. Pretzels. 260,548; Mar. 27. Class 46.
Beebe Laboratories, Inc., St. Paul, Minn. Disinfectant, antiseptic, deodorant, etc. 260,793; Mar. 27. Class 6.
Belding Heminway Company, New York, N. Y. Silk thread. 260,794; Mar. 27. Class 43.
Bennett Pumps Corporation, Muskegon, Mich. Combined liquid tanks and measuring dispensing pumps. 261,605; Mar. 27. Class 26.
Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Collars, pajamas, night robes, etc. 242,875; Mar. 27. Class 39.
Bersch, Arthur, doing business as Bersch Candy Company, Winneconne, Wis. Candy. 256,071; Mar. 27. Class 46.
Best-Clymer Co., The, St. Louis, Mo. Apple butter, imitation apricot jam, etc. 244,278; Mar. 27. Class 46.
Better Apples Co., Inc., The, Yakima, Wash. Fresh apples. 259,616; Mar. 27. Class 46.
Blud-Life Company, Atlanta, Ga. General tonic, stomachic, laxative, and appetizer. 260,310; Mar. 27. Class 6.
Blue Buckle Overall Co., Inc., Lynchburg, Va. Men's youths' and boys' overalls and coats. 261,235; Mar. 27. Class 39.
Board of Trustees of the Philadelphia Museums, doing business as the Philadelphia Commercial Museum, Philadelphia, Pa. Magazine. 260,933; Mar. 27. Class 38.
Bofinger & Klingler, Inc., Oakland, Calif. Sweaters. 255,545; Mar. 27. Class 39.
Bon Ami Company, The, New York, N. Y. Scouring soap. 258,934; Mar. 27. Class 4.
Bosisto, J., & Co. Proprietary Limited, Melbourne, Victoria, Australia. Oil of eucalyptus or eucalyptus oil. 260,977; Mar. 27. Class 6.
Boston Woven Hose & Rubber Company, Cambridge, Mass. Rubber belting, stitched canvas belting, etc. 261,548; Mar. 27. Class 35.
Bowman, Robert T., doing business as R. T. Bowman Co., Trenton, N. J. Portable buildings. 260,711; Mar. 27. Class 12.
Bradley, John T., doing business as J. T. Bradley Co., Lorain, Ohio. Polish and cleaner. 260,374; Mar. 27. Class 16.
Bronston Bros. and Co. Inc., New York, N. Y. Waterproof products. 256,172; Mar. 27. Class 50.
Brown, Salena W., Brooklyn, N. Y. Pillows and mattresses. 261,484; Mar. 27. Class 32.
Butler Brothers, Chicago, Ill. Handkerchiefs. 260,796; Mar. 27. Class 42.
Cadillac Motor Car Company, Detroit, Mich. Printed publication. 261,166; Mar. 27. Class 38.
Cadillac Stamp Company, Inc., Detroit, Mich. Special steel stamps, embossing and marking dies, power and hand marking machines. 260,488; Mar. 27. Class 23.
California Fruit Confections Company, Inc., also doing business as California Confection Co., Camarillo, Calif. Crystallized citrus peel and fruit confections. 258,937; Mar. 27. Class 46.
Carnes, S. J., Camden, Ark. Pottery, crockery, and earthenware. 257,839; Mar. 27. Class 30.
Carter Dry Goods Company, Louisville, Ky. Hosiery. 260,797; Mar. 27. Class 39.
Carter Dry Goods Company, Louisville, Ky. Cotton piece goods and muslins in the piece. 260,798; Mar. 27. Class 42.
Celanese Corporation of America, New York, N. Y. Sheets and foils made of or containing cellulose derivatives. 260,211; Mar. 27. Class 1.
Celanese Corporation of America, New York, N. Y. Sheets and foils made of or containing cellulose derivatives. 260,213; Mar. 27. Class 1.
Celite Products Company, Los Angeles, Calif. Hydrated amorphous silica. 257,526; Mar. 27. Class 1.
Central Chemical Company, The, Hagerstown, Md. Fertilizers. 259,108; Mar. 27. Class 10.
Chandler, E. L., Corporation, Orleans, Vt. Furniture. 260,423; Mar. 27. Class 32.
Chandler, E. L., Corporation, doing business as Orleans Furniture Co., Orleans, Vt. Furniture. 260,424; Mar. 27. Class 32.
Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 261,350; Mar. 27. Class 42.
Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Pomade. 261,043; Mar. 27. Class 6.
Citrus Fruit Association of Ontario, Ontario, Calif. Oranges and grapefruit. 245,141; Mar. 27. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Claremont Citrus Association, Claremont, Calif. Fresh citrus fruits. 253,576; Mar. 27. Class 46.
Clark, W., Limited, Montreal, Quebec, Canada. Sauces for relishing meats. 210,044; Mar. 27. Class 46.
Clay Products Company, Brazil, Ind. Glazed and unglazed clay building tile. 260,492; Mar. 27. Class 12.
Cleveland-Sandusky Company, The, Cleveland, Ohio. Ginger beer. 261,421; Mar. 27. Class 45.
Cohen, A., & Sons Corp., New York, N. Y. Clocks and parts thereof, watches, watchcases, watch movements, and parts thereof. 260,099; Mar. 27. Class 27.
Cohen, S., & Company, Inc., Fort Fairfield, Me. Potatoes. 260,259; Mar. 27. Class 46.
Colgate & Company, Jersey City, N. J., and New York, N. Y. Face cream. 261,241; Mar. 27. Class 6.
Colgate & Company, Jersey City, N. J., and New York, N. Y. Face powder. 251,242; Mar. 27. Class 6.
Columbian Enameling & Stamping Co., Terre Haute, Ind. Enameled steel wares. 259,761; Mar. 27. Class 13.
Condon, Patrick S., Brooklyn, N. Y. Chemical composition. 260,260; Mar. 27. Class 6.
Consolidated Bakers Service, Greenville, S. C. Cakes. 259,762; Mar. 27. Class 46.
Continental Specialties Manufacturing Company. (See Wimmer, Leopold.)
Coudurier, Fructus & Descher, Lyon, France. Silk piece goods. 257,403; Mar. 27. Class 42.
Crawford, McGregor and Canby Company, The, Dayton, Ohio. Golf balls. 260,165; Mar. 27. Class 22.
Crosley Radio Corporation, The, Cincinnati, Ohio. Refrigerating apparatus and referigerators. 257,225; Mar. 27. Class 31.
Culver Military Academy, Culver, Ind. Magazine. 260,321; Mar. 27. Class 38.
Davis, Sherman L., doing business as Ucoline Products Company, Indianapolis, Ind. Activated cod-liver oil. 259,896; Mar. 27. Class 6.
Daviss, Bessie N., doing business as Shamrock Cordial Co., Austin, Tex. Frozen cordials. 252,370; Mar. 27. Class 46.
De Bernardi, D. F., & Co. Inc., San Francisco, Calif. Cheese. 259,846; Mar. 27. Class 46.
Delettrez, Inc., New York, N. Y. Astringents, bleach creams, cold creams, etc. 260,981–3; Mar. 27. Class 6.
Delettrez, Inc., New York, N. Y. Astringents, bleach creams, beauty creams, etc. 260,985–6; Mar. 27. Class 6.
Demuth, William, & Company, New York, N. Y. Tobacco pipes, cigar and cigarette holders. 259,796; Mar. 27. Class 8.
Denver Fire Clay Company, The, Denver, Colo. High-temperature cement or mortar. 260,881; Mar. 27. Class 12.
Detroit Vapor Stove Co., The, Detroit, Mich. Gas and oil stoves. 238,431; Mar. 27. Class 34.
Diana Manufacturing Company, New York, N. Y. Radio electron tubes. 254,996; Mar. 27. Class 21.
Diana Manufacturing Company, New York, N. Y. Radio tubes. 254,997; Mar. 27. Class 21.
Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Dolezal, Edward, doing business as Ko-Tar Products Company, Cedar Rapids, Iowa. Insecticides. 258,929; Mar. 27. Class 6.
Doraldina, Inc., Los Angeles, Calif. Cold cream, cleansing cream, tissue cream, etc. 260,379–80; Mar. 27. Class 6.
Dryped Chemical Co. (See Jaynes, Silas R.)
Dubraks, Joseph W., Houston, Tex. Frozen confections. 260,381; Mar. 27. Class 46.
Duluth-Superior Milling Company, Duluth, Minn., and New York, N. Y. Wheat mixed and other stock feed. 259,398; Mar. 27. Class 46.
Duplexalite Division of the Miller Company, Meriden, Conn. Glass globes and reflectors. 261,743; Mar. 27. Class 33.
Duplexalite Division of the Miller Company, Meriden, Conn. Glass globes and reflectors. 261,745; Mar. 27. Class 33.
Durnil, Albert J., Los Angeles, Calif. Fresh vegetables and fruits. 261,356; Mar. 27. Class 46.
Eastern Connecticut Poultry Producers, Inc., Willimantic, Conn. Eggs. 261,493; Mar. 27. Class 46.
Elmore Milling Company, Oneonta, N. Y. Chicken feed. 260,434; Mar. 27. Class 46.
Er Mann Laboratories. (See Mann, Irving L.)
Esoteric Products Co. (See Smithline, Sydney.)
Esposito, Ernest, doing business as Remedor Foot Powder Co., New York, N. Y. Powder for treatment of foot ailment. 259,627; Mar. 27. Class 6.
Everseal Manufacturing Co. Inc., New York, N. Y. Paints, paste paint, and paint colors. 260,219; Mar. 27. Class 16.
Fashion Park Incorporated, Rochester, N. Y. Men's coats, vests, pants, and overcoats. 260,438; Mar. 27. Class 39.
Fax Laboratories, Inc., The, Dayton, Ohio. Deodorants, insecticides, and disinfectants. 260,170; Mar. 27. Class 6.
Fessler Manufacturing Company, Kansas City, Mo. Electric refrigerators. 260,994; Mar. 27. Class 31.
Fiberfraks Incorporated, Lockport and New York, N. Y. Fireboards and irregular shapes pressed from mixtures of various fibers and bonding material. 260,562; Mar. 27. Class 12.
Fisher, Elmo H., Pittsburgh, Pa. Product for plating of all grades of steel products with chromium electrolytically. 261,620; Mar. 27. Class 6.
Flintkote Company, The, Boston, Mass. Composition shingles, asphalt roll roofing, paper-roofing cement, etc. 260,722; Mar. 27. Class 12.
Flintkote Company, The, Boston, Mass. Composition shingles, asphalt roll roofing, roofing cement, etc. 260,724; Mar. 27. Class 12.
Foster, C. B., Packing Co., Inc., Biloxi, Miss. Canned oysters. 260,941; Mar. 27. Class 46.
Fox Case Corporation, New York, N. Y. Motion pictures. 261,500; Mar. 27. Class 26.
Fox, William, New York, N. Y. Motion pictures. 261,560; Mar. 27. Class 26.
Friedricks Bros. & Co., New York, N. Y. Coats for misses and women. 256,771; Mar. 27. Class 39.
Garfunkle, Jacob N., doing business as Reflecto Safety Razor Appliance Company, Clifton, Cincinnati, Ohio. Safety-razor mirror appliances. 259,205; Mar. 27. Class 32.
Gavro, Savich, Akron, Ohio. Medicinal preparation for the treatment of venereal diseases. 260,964; Mar. 27. Class 6.
Grady Manufacturing Company, The, Long Island City, N. Y. Metal polish. 259,284; Mar. 27. Class 4.
Griffith-Durney Co., San Francisco, Calif. Canned fruits and fish. 259,403; Mar. 27. Class 45.
Griggs, Cooper & Co., St. Paul, Minn. Borax. 256,040; Mar. 27. Class 6.
Griggs, Cooper & Company, St. Paul, Minn. Grape juice. 261,506; Mar. 27. Class 45.
Grigsby-Grunow-Hinds Co., Chicago, Ill. Battery eliminators. 238,581; Mar. 27. Class 21.
Grigsby-Grunow-Hinds Co., Chicago, Ill. Battery eliminators. 258,687; Mar. 27. Class 21.
Gulf & Valley Cotton Oil Co., Ltd., Gretna, La. Lard substitutes, semisolid products, etc. 257,064; Mar. 27. Class 46.
Gum-Num Company. (See Liss, Michael.)
Hair-Rite Chemical Co. (See Smithline, Herman.)
Hammond Standish & Company, Detroit, Mich. Lard, sauerkraut, meats. 251,499; Mar. 27. Class 46.
Hanes, P. H., Knitting Co., Winston-Salem, N. C. Union suits, undershirts, and drawers. 253,372; Mar. 27. Class 39.
Hansen, Christian R. A., doing business as Renzyme Laboratories Limited, St. Mary's and Toronto, Ontario, Canada, and New York, N. Y. Compound for the treatment of indigestion. 251,500; Mar. 27. Class 6.
Harter, Alice E., doing business as Sunny Jeans Co., Berkeley, Calif. Child's health garment. 252,959; Mar. 27. Class 39.
Heddon's, James, Sons, Dowagiac, Mich. Artificial baits. 261,116; Mar. 27. Class 22.
Heller, B., & Company, Chicago, Ill. Empty barrels, drums, cases, etc. 243,403; Mar. 27. Class 2.
Herrick, Marlin R., Sarepta, La. Inhalant for treating tuberculosis, etc. 261,004; Mar. 27. Class 6.
Herrmann, A. S., Inc., New York, N. Y. Table linens, towels, sheets, etc. 260,383; Mar. 27. Class 42.
Hinckley & Schmitt, Chicago, Ill. Mineral water, ginger ale, and root beer. 261,057; Mar. 27. Class 45.
Hoffmann-Hayman Coffee Co., San Antonio, Tex. Coffee. 260,825; Mar. 27. Class 46.
Hoffmann-Hayman Coffee Co., San Antonio, Tex. Coffee. 261,103; Mar. 27. Class 46.
Hudnut, Richard, New York, N. Y. Powder puffs. 260,388; Mar. 27. Class 29.
Hughes, E. Griffiths, Inc., Rochester, N. Y. Aperient and diuretic in tablet form. 250,996; Mar. 27. Class 6.
Huiskamp Bros. Co., The, Keokuk, Iowa. Boots, shoes, and oxfords. 247,271; Mar. 27. Class 39.
Hunt, William S., Oxford, N. C. Medicinal preparation for headache, etc. 245,012; Mar. 27. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Medicines for worms. 260,325; Mar. 27. Class 6.
Ideal Bath Robe Co. Inc., Brooklyn, N. Y. Infants' and children's bath robes, buntings, and sacques. 244,402; Mar. 27. Class 39.
International Company, The, by change of name to The C. M. Pitt & Sons Company, Baltimore, Md. Sirups and beverages, fruit juices, etc. 241,100; Mar. 27. Class 45.
Ipswich Mills, Ipswich, Mass. Hosiery. 261,001; Mar. 27. Class 39.
Jaynes, Silas R., doing business as Dryped Chemical Co., Springfield, Oreg. Grease in the nature of waterproofing material. 253,151; Mar. 27. Class 4.

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Jensen, Peter, New York, N. Y. Plastic paint. 259,806; Mar. 27. Class 16.
Jiffy Electric Water Heater Company. (See Ambory, Louise.)
Kalich, Mitchel L., doing business as M. L. Kalich & Company, Watsonville, Calif. Apples and lettuce. 237,553; Mar. 27. Class 46.
Kalogerakou, Demetra D., Newark, N. J. Medicine for rheumatism. 256,156; Mar. 27. Class 6.
Kappa Phi Kappa, Hanover, N. H. Magazines published monthly. 261,261; Mar. 27. Class 38.
Kerkoff. (See Vivaudou, V., Inc.)
Komo Chemical Company, Philadelphia, Pa. Insecticides. 261,065; Mar. 27. Class 6.
Ko-Tar Products Company. (See Dolezal, Edward.)
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Coffee, tea, spices, etc. 259,770; Mar. 27. Class 46.
Lambert, Clara B., Pasadena, Calif. Pie-crust mixer and flaker. 259,364; Mar. 27. Class 23.
Lambert Tire & Rubber Company, Barberton, Ohio. Pneumatic tires. 261,443; Mar. 27. Class 35.
Lavidalie, Jean E., Bordeaux, France. Mechanically-actuated signals for automobiles. 244,700; Mar. 27. Class 23.
Lawrence, Edwin O., Port Jefferson Station, N. Y. Septic tanks. 252,658; Mar. 27. Class 13.
Lehne, John C., doing business as John C. Lehne Sales Co., New York, N. Y. Game device for batting and catching balls. 259,771; Mar. 27. Class 22.
Leniger, Arthur J., Danville, Pa. Indigestion tablets. 250,951; Mar. 27. Class 6.
Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 261,368; Mar. 27. Class 42.
Lilly, Eli, and Company, Indianapolis, Ind. Liver extracts. 260,281; Mar. 27. Class 6.
Lilly, Eli, and Company, Indianapolis, Ind. Medicine or pharmaceutical preparation. 261,320; Mar. 27. Class 6.
Limoneira Company, Santa Paula, Calif. Oranges, lemons, and grapefruit. 250,849; Mar. 27. Class 46.
Liss, Michael, doing business as Gum-Num Company, Newark, N. J. Anæsthetics and antiseptics. 260,230; Mar. 27. Class 6.
L'Oecysol, Grenoble, France. Chemical product for destroying weed or parasitic animals. 253,283; Mar. 27. Class 6.
Ludw. Loewe & Co. Actiengesellschaft, Berlin, Germany. Cutting machines, slotting machines, pumps, lathe tools, etc. 239,762; Mar. 27. Class 23.
Lulu Belle House Frocks, Philadelphia, Pa. Ladies' house dresses. 261,012; Mar. 27. Class 39.
Lynch, Thomas C., Providence, R. I. Liniment. 260,575; Mar. 27. Class 6.
MacFarlane, Angus D., Hartford, Conn. Electric lamps for automobiles and other vehicles. 254,115; Mar. 27. Class 21.
Maimlin, H., Company Incorporated, New York, N. Y. Cloth-cutting machines. 261,069; Mar. 27. Class 23.
Mallinson, H. R., & Company, Inc., New York, N. Y. Silk piece goods and silk-mixed piece goods. 260,641; Mar. 27. Class 42.
Mann, Irving L., doing business as Er Mann Laboratories, Bridgeport, Conn. Depilatories. 260,576; Mar. 27. Class 6.
Marburg Brothers Inc., New York, N. Y. Wire, wire rods, bars, and strips. 257,631; Mar. 27. Class 14.
Maress Company, Kansas City, Mo. Hair lotion. 260,282; Mar. 27. Class 6.
Menke, Knufmann & Co. Inc., New York, N. Y. Silk in the piece. 261,825; Mar. 27. Class 42.
Mercantile Products Co., St. Louis, Mo. Ethyl alcohol and whisky. 259,453; Mar. 27. Class 49.
Milton, Lloyd W., doing business as Milton Laboratories, Chicago, Ill. Compound for preventing runs in silk hosiery. 260,069; Mar. 27. Class 6.
Monarch Beverage Company, Chicago, Ill. Ginger ale. 260,342; Mar. 27. Class 45.
Morals, Cyril G., Newark, N. J. Typewriters, duplicating machines, and vacuum cleaners. 250,778; Mar. 27. Class 23.
Mülhens, Paul P., doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps and shaving sticks. 242,103; Mar. 27. Class 4.
Mutton Hollow Fire Brick Company, The, Woodbridge, N. J. Bricks. 259,921; Mar. 27. Class 12.
National Textile Distributors Corporation, New York, N. Y. Textile blankets, sheets, pillowcases, bed covers, and quilts. 259,570; Mar. 27. Class 42.
National Textile Distributors Corporation, New York, N. Y. Men's and boys' outer wear shirts, etc. 259,571; Mar. 27. Class 39.
Nebraska Seed Co., The, Omaha, Nebr. Blue and Sudan grass seeds. 259,456; Mar. 27. Class 1.
Nelson, Andrew W., doing business as The Onlie Shoe Company, Quincy, Mass. Boots and shoes of leather, etc. 260,234; Mar. 27. Class 39.
Newport Company, The, Carrollville, Wis. Vat dyes. 237,749; Mar. 27. Class 6.
Nito Corporation, The, Charleston, W. Va. Chemical preparation to be added to gasoline to lubricate the cylinder walls. 260,581; Mar. 27. Class 6.
North American Dye Corporation, Mount Vernon, N. Y. House organ. 260,906; Mar. 27. Class 38.
North and Judd Manufacturing Company, New Britain, Conn. Catches, handles for hoods, robe rails, etc. 242,848–9; Mar. 27. Class 13.
Nutrena Feed Mills, Inc., Kansas City, Kans. Stock and poultry feeds. 256,052; Mar. 27. Class 46.
O'Neil Lumber Company, Inc., St. Louis, Mo., and East St. Louis, Ill. Cement, wall plaster, shingles, etc. 259,068; Mar. 27. Class 12.
Onlie Shoe Company, The. (See Nelson, Andrew W.)
Oriental Silk Printing Company, Haledon, N. J. Textile fabrics. 261,279; Mar. 27. Class 42.
Orleans Furniture Co. (See Chandler, E. L., Corporation.)
Parke, Davis & Company, Detroit, Mich. Cold cream. 260,287; Mar. 27. Class 6.
Parker Brothers Inc., Portland, Me., and Salem, Mass. Game played with cards. 261,450; Mar. 27. Class 22.
Parrish, Robert E., doing business as R. E. Parrish Drug Company, Bennington, Okla. Medicine. 259,307; Mar. 27. Class 6.
Pendleton Woolen Mills, Portland, Oreg. Wool blankets. 260,461; Mar. 27. Class 42.
Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 260,462; Mar. 27. Class 42.
Penn Building Block Company, Philadelphia, Pa. Dry powdery cementitious material. 259,575; Mar. 27. Class 12.
Pennsylene Oil Company, Inc., The, Brooklyn, N. Y. Lubricating oils and lubricating greases. 260,584; Mar. 27. Class 15.
Pennsylvania Oil Company, Chicago, Ill. Lubricating oil. 254,765; Mar. 27. Class 15.
Philadelphia Commercial Museum. (See Board of Trustees of the Philadelphia Museums.)
Phillipsen, Karen S., Levan, Utah. Salve. 260,525; Mar. 27. Class 6.
Pitt, C. M., & Sons Company, The. (See International Company, The.)
Plumbers Trade Journal Publishing Co., New York, N. Y. Trade publication. 260,909; Mar. 27. Class 38.
Poultry Producers of Central California, San Francisco, Calif. Eggs. 261,383; Mar. 27. Class 46.
Price-Rose Manufacturing Co., Inc., East Stroudsburg, Pa. Preparation for cleaning hands. 257,810; Mar. 27. Class 4.
Pyrodon Corporation, The, New York, N. Y. Dentifrice and mouth wash. 249,865; Mar. 27. Class 6.
Queen Anne Candy Company, Hammond, Ind. Candy. 260,406; Mar. 27. Class 46.
Rawlings, Marjorie K., Rochester, N. Y. Titles of newspaper sections or features. 260,850; Mar. 27. Class 38.
Red Sun Products Company, Chicago, Ill. Malt syrup. 258,354; Mar. 27. Class 46.
Reflecto Safety Razor Appliance Company. (See Garfunkle, Jacob N.)
Reinhard, Martin, doing business as Reinhard & Schmidt, Fabrik Chem. & Cosmet. Präparate "Bavaria," Wurzburg, Germany. Embrocation for soothing the heart, bath salts. 256,262; Mar. 27. Class 6.
Remedor Foot Powder Co. (See Esposito, Ernest.)
Renzyme Laboratories Limited. (See Hansen, Christian R. A.)
Richmond-Chase Company, San Jose, Calif. Canned vegetables. 261,147; Mar. 27. Class 46.
Ritter, Paul N., doing business as The Vigatol Company, New York, N. Y. Medicinal preparation for epilepsy. 260,530; Mar. 27. Class 6.
Riverside Manufacturing Co., St. Louis, Mo. Neutral soap compounds. 259,583; Mar. 27. Class 4.
Robbins, David, Brooklyn, N. Y. Chewing gum. 259,591; Mar. 27. Class 46.
Rocky Hill Corporation, Exeter, Calif. Fresh deciduous fruits. 259,424; Mar. 27. Class 46.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Aluminum cleanser. 260,958; Mar. 27. Class 4.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Fruit preserves. 260,960; Mar. 27. Class 46.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 233,845–6; Mar. 27. Class 39.
Romac Motor Accessories, Limited, London, England. Tire and tube repair kits, tire linings, etc. 257,315; Mar. 27. Class 35.
Rombro, Jacob, doing business as Rombro Brothers, Baltimore, Md. Men's and boys' work shirts. 260,407; Mar. 27. Class 39.
Rothschild Greenfield Co., St. Louis, Mo. Hats and caps for men. 253,630; Mar. 27. Class 39.
Rower-Beine Paint Manufacturing Company, St. Louis, Mo. Paints, enamels, varnishes, and driers. 260,752; Mar. 27. Class 16.
Royal Manufacturing Company, Allentown, Pa. Textile-fabric underwear. 258,406; Mar. 27. Class 39.
Runci, Joseph, doing business as Joseph Runci & Sons Co., Roxbury, Mass. Hair tonic, toilet water, shampoo, etc. 260,293; Mar. 27. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Russell Playing Card Company, Milltown, N. J. Playing cards. 261,459–60; Mar. 27. Class 22.
Salol Chemical Co., Chicago, Ill. Vaginal suppositories. 260,032; Mar. 27. Class 6.
Santiago Lopez Barredo S. A., Santander, Spain. Preserved fish. 191,658; Mar. 27. Class 46.
Sawdey & Hunt, Los Angeles, Calif. Fresh vegetables. 258,653; Mar. 27. Class 46.
Schloss & Kahn Grocery Co., Montgomery, Ala. Canned fruits and vegetables, roller oats, etc. 244,186; Mar. 27. Class 46.
Schon, Joan, New York, N. Y. Medicinal oil. 259,650; Mar. 27. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Gaiters. 258,655; Mar. 27. Class 39.
Senior, Renwick T., doing business as Senex Chemical Company, Montgomery, N. Y. Perfumes. 259,968; Mar. 27. Class 6.
Service Station Equipment Company, Bryan, Ohio. Reels for hose pipes. 255,684; Mar. 27. Class 23.
Service Station Equipment Company, Bryan, Ohio. Pressure gauges. 259,880; Mar. 27. Class 26.
Service Station Equipment Company, Bryan, Ohio. Air compressors. 259,970; Mar. 27. Class 23.
Shamrock Cordial Co. (See Daviss, Bessie N.)
Shane, C. B., Co., Chicago, Ill. Men's overcoats and topcoats. 261,023; Mar. 27. Class 39.
Sharples Solvents Corporation, The, Philadelphia, Pa. Amyl acetate. 251,153; Mar. 27. Class 6.
Sherwin-Williams Company, The, Cleveland, Ohio. Pigment for mixing with other paints or paint vehicles to make a heavy-bodied coating or plastic compound. 261,221; Mar. 27. Class 16.
Smith Facing & Supply Co., The, Cleveland, Ohio. Core washes, plumbagos, core compounds, etc. 257,819; Mar. 27. Class 1.
Smithline, Herman, doing business as Hair-Rite Chemical Co., New York, N. Y. Dressing cream for the hair. 261,592; Mar. 27. Class 6.
Smithline, Sydney, doing business as Esoteric Products Co., New York, N. Y. Incense. 258,358; Mar. 27. Class 6.
Sonneborn Brothers, Inc., New York, N. Y. Coats, vests, trousers, and overcoats. 260,361; Mar. 27. Class 39.
Sprayer, G. V., Co., The, Wichita, Kans., and Lebanon, Tenn. Hand portable sprayers. 242,922; Mar. 27. Class 23.
Stafford, Sylvia, Incorporated, New York, N. Y. Preparation for cleansing and beautifying the skin. 261,081; Mar. 27. Class 6.
Standard Rice Company, Inc., Houston, Tex. Rice. 259,222–3; Mar. 27. Class 46.
Stein, A., & Company, Chicago, Ill. Garters. 257,902; Mar. 27. Class 39.
Stern & Kellner, New York, N. Y. Leather shoes. 261,152; Mar. 27. Class 39.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Electric cigar lighters. 258,964; Mar. 27. Class 21.
Strong Electric Company, The, Toledo, Ohio. Lenses. 260,198; Mar. 27. Class 26.
Sunny Jeans Co. (See Harter, Alice E.)
Sunset Produce Co., San Francisco, Calif. Fresh deciduous and citrus fruits. 261,402; Mar. 27. Class 46.
Tanfield, Stanley W., London, England. Laxatives. 255,879; Mar. 27. Class 6.
Tanfield, Stanley W., London, England. Laxatives. 255,944; Mar. 27. Class 6.
Tantum, Horace, Nutley, N. J. Mouth-wash cleansing and sweetening powder. 258,889; Mar. 27. Class 6.
Textile Electric Machinery Company, Philadelphia, Pa. Yarn moisteners. 260,414; Mar. 27. Class 23.
Thalysia Paul Garms Gesellschaft mit beschränkter Haftung, Leipzig, Germany. Footwear. 256,800; Mar. 27. Class 39.
Town Tidings Company. (See Wettlaufer, Conrad E.)
Transkutan, Inc., New York, N. Y. Medicinal bath preparation for the treatment of muscular and joint afflictions. 260,476; Mar. 27. Class 6.
Triangle Tire and Rubber Company, The, Canton, Ohio. Inner tubes. 244,034; Mar. 27. Class 35.
Twin City Wholesale Grocer Co., St. Paul, Minn. Wheat flour. 260,537; Mar. 27. Class 46.
Ucoline Products Company. (See Davis, Sherman L.)
United States Products Corporation, San Jose, Calif. Canned fruit salad. 260,299; Mar. 27. Class 46.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Machines for vending sanitary napkins. 253,339; Mar. 27. Class 23.
Vanette, Inc., New York, N. Y. Hair dye. 260,477; Mar. 27. Class 6.
Vaughn & Maloof, Ashville, N. C. Preparation for eczema and other diseases. 258,304; Mar. 27. Class 6.
Vedoe-Peterson Company, Norfolk Downs, Quincy, Mass. Electrical windshield wipers. 259,828; Mar. 27. Class 29.
Vigatol Company, The. (See Ritter, Paul N.)
Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 260,539; Mar. 27. Class 10.
Vivaudou, V., Inc., doing business as Kerkoff, New York, N. Y. Astringent cerates, bleach creams, beauty creams, etc. 260,608; Mar. 27. Class 6.
Waite, Ralph B., Springfield, N. Y. Medicament. 250,585; Mar. 27. Class 6.
Wallerstein Company, Inc., New York, N. Y. Liquid hop flavoring for malt beverages. 242,322; Mar. 27. Class 48.
Warwick Mills, Centerville, R. I., and Boston, Mass. Two-ply cotton-yarn marquisette. 234,601; Mar. 27. Class 42.
Washington Building Lime Co., The, Woodville, Ohio; Engle, W. Va.; Strasburg, Va.; and Baltimore, Md. Building lime. 259,661; Mar. 27. Class 12.
Weathersby-Brunner Co., Memphis, Tenn. Coffee. 261,086; Mar. 27. Class 46.
Western Ignition Company, Chicago, Ill. Electric tire inflators. 245,769; Mar. 27. Class 23.
Wettlaufer, Conrad E., doing business as Town Tidings Company, Buffalo, N. Y. Monthly magazine. 261,226; Mar. 27. Class 38.
White's Quaint Shop, Westfield, Mass. Boxes containing Christmas, birthday, and other greeting cards and books. 261,027; Mar. 27. Class 38.
Wickwire Spencer Steel Company, New York, N. Y. Card clothing and napper clothing for textile machines. 245,129; Mar. 27. Class 23.
Williamson-Haisell-Frasier Co., The, Oklahoma City, Okla. Canned fish, fruits, vegetables, etc. 260,866; Mar. 27. Class 46.
Willits, Green & Marston, Los Angeles, Calif. Peanut butter. 260,479; Mar. 27. Class 46.
Wimmer, Leopold, doing business as Continental Specialties Manufacturing Company, Muskegon, Mich. Automobile radiator and boiler compounds. 259,829; Mar. 27. Class 6.
Wohl, M. J., & Co. Inc., New York, N. Y. Arc lamps used for medical purposes. 260,610; Mar. 27. Class 44.
Wolverine Brass Works, Grand Rapids, Mich. Rubber tank valve balls. 260,415; Mar. 27. Class 13.
Wright, William E., and Sons Company, Orange, N. J. Ribbons, silks, cottons, etc. 261,544; Mar. 27. Class 42.
Wyle, J. J., & Bros., Inc., New York, N. Y. Ribbons and laces in the piece. 259,515; Mar. 27. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 4.

Cleaner and polish, Shoe. R. E. Salerno & Son. 240,402; Mar. 27; Serial No. 258,099; published Jan. 10, 1928.
Cleaner, Household. D. R. Franklin Co. 240,400; Mar. 27; Serial No. 258,022; published Jan. 10, 1928.
Cleaning fluid, Automobile. H. Nunes. 240,450; Mar. 27; Serial No. 253,174; published Jan. 10, 1928.
Powder for cleansing dental plates. E. C. Carter. 240,423; Mar. 27; Serial No. 251,607; published Jan. 10, 1928.
Preparation for cleaning artificial dentures. Du-Klene Co. 240,388; Mar. 27; Serial No. 257,282; published Jan. 10, 1928.
Preparation for cleaning footwear, Liquid. J. A. Nurena. 240,459; Mar. 27; Serial No. 256,368; published Jan. 10, 1928.
Shoe grease and leather dressing. Con's Shoe Grease Co. 240,420; Mar. 27; Serial No. 250,678; published Jan. 17, 1928.
Soap. E. S. Leffler. 240,404; Mar. 27; Serial No. 258,231; published Jan. 10 1928.
Soap. Procter & Gamble Company. 240,433; Mar. 27; Serial No. 237,333; published Feb. 1, 1927.
Soap, J. H. Sholts. 240,382; Mar. 27; Serial No. 257,082; published Jan. 17, 1928.
Soap. Waverly Oil Works Company. 240,456; Mar. 27; Serial No. 256,024; published Jan. 17, 1928.
Soap flakes. Iowa Soap Company. 240,558; Mar. 27.
Soap, Medicated. T. F. White. 240,398; Mar. 27; Serial No. 258,008; published Jan. 10, 1928.

CLASS 5.

Paste. Consumers Glue Co. 240,498; Mar. 27; Serial No. 258,114; published Jan. 10, 1928.

CLASS 6.

Antiseptic and diuretic. E. F. Pabst. 240,439; Mar. 27; Serial No. 244,626; published Oct. 4, 1927.

Antiseptics and disinfectants. Hynson, Wescott & Dunning. 240,410; Mar. 27; Serial No. 258,579; published Jan. 17, 1928.
Aseptic coating. J. A. Moore. 240,553; Mar. 27.
Bleaching solutions. A. Ratto. 240,548; Mar. 27.
Chemical compound. Standard Oil Company of New Jersey. 240,409; Mar. 27; Serial No. 258,543; published Jan. 17, 1928.
Compound for treating hydrocarbon fuel. R. John. 240,366; Mar. 27; Serial No. 240,607; published Jan. 17, 1928.
Cosmetics. Lemur Company. 240,466; Mar. 27; Serial No. 256,730; published Jan. 17, 1928.
Cough syrup. E. L. Patch Company. 240,349; Mar. 27; Serial No. 257,307; published Jan. 17, 1928.
Cream, antiseptic ointment, hair tonic, etc., Face. Joseph Gutradt Company. 240,360; Mar. 27; Serial No. 238,223; published Jan. 17, 1928.
Creams, Face. Don-Ark Company. 240,358; Mar. 27; Serial No. 232,583; published Jan. 17, 1928.
Creams, face powders, rouges, etc., Face. E. E. Spitz. 240,552; Mar. 27.
Crystalline powder, White. "Chinoin" Gyógyszer és Vegyészeti Termékek Gyára Részvénytársaság. 240,537; Mar. 27.
Depilatory preparations. O. J. Porter. 240,446; Mar. 27; Serial No. 249,093; published Jan. 17, 1928.
Gas, Liquefied petroleum. Arkansas Natural Gas Company. 240,539; Mar. 27.
Gum containing aspirin, Chewing. Dillard-Nalle Company. 240,417; Mar. 27; Serial No. 258,732; published Jan. 17, 1928.
Inhalant and medicated oil. La Gren Products Co. 240,379; Mar. 27; Serial No. 257,294; published Jan. 17, 1928.
Insecticide, deodorant, and disinfectant. J. C. Alzamora. 240,416; Mar. 27; Serial No. 258,711; published Jan. 17, 1928.
Insecticides. John Alesi Exterminating Company. 240,550; Mar. 27.
Insecticides. U. S. Sanitary Specialties Corporation. 240,415; Mar. 27; Serial No. 258,664; published Jan. 17, 1928.
Medicated dental adhesive poultice. H. A. Schell. 240,407; Mar. 27; Serial No. 258,356; published Jan. 17, 1928.
Medicated oil emulsion. Swinova Company Laboratories. 240,422; Mar. 27; Serial No. 251,420; published Jan. 17, 1928.
Medicinal preparation. W. Baisden. 240,396; Mar. 27; Serial No. 257,779; published Jan. 17, 1928.
Medicinal preparation. Barnes Emulsion Co. 240,359; Mar. 27; Serial No. 234,814; published Jan. 17, 1928.
Medicinal preparations, etc. H. A. Bode. 240,346; Mar. 27; Serial No. 257,659; published Jan. 17, 1928.
Medicine, Stock. C. G. Cooley. 240,352; Mar. 27; Serial No. 256,608; published Jan. 17, 1928.
Medicines and remedies. M. Kappner. 240,381; Mar. 27; Serial No. 257,365; published Jan. 17, 1928.
Mouth wash, Prophylactic. Rare Chemicals Inc. 240,332; Mar. 27; Serial No. 258,652; published Jan. 17, 1928.
Pastes and powders for beautifying and preserving the teeth, skin, hair, and perfumery. E. Daltroff & Cie. 240,341; Mar. 27; Serial No. 258,165; published Jan. 17, 1928.
Perfume, toilet water, face powder, etc. Rallett Corporation of America. 240,342; Mar. 27; Serial No. 258,098; published Jan. 3, 1928.
Perfumes, toilet waters, face powder, etc. S. S. Pierce Co. 240,469; Mar. 27; Serial No. 256,886; published Jan. 17, 1928.
Plasters. C. F. Gezelius. 240,348; Mar. 27; Serial No. 257,356; published Jan. 17, 1928.
Preparation for the treatment of skin diseases. Munsch-Protzmann Co. 240,337; Mar. 27; Serial No. 258,480; published Jan. 17, 1928.
Preparation for the treatment of venereal diseases. C. D. Bonne. 240,336; Mar. 27; Serial No. 258,513; published Jan. 17, 1928.
Preparation for use in the heat treatment of steels. Parker Stamp Works, Inc. 240,413; Mar. 27; Serial No. 258,649; published Jan. 17, 1928.
Preparation for use in the treatment of cataracts of the eyes. W. A. Morgan. 240,528; Mar. 27.
Preparation used in the treatment of coughs, colds, etc. First National Laboratories, Incorporated. 240,418; Mar. 27; Serial No. 258,739; published Jan. 17, 1928.
Preparations for treatment of diseases of poultry. Squills and De Lacy Limited. 240,408; Mar. 27; Serial No. 258,542; published Jan. 17, 1928.
Remedies, Eye. Murine Company. 240,437; Mar. 27; Serial No. 243,227; published Jan. 17, 1928.
Remedies, Health-food. Health Laboratories, Inc. 240,412; Mar. 27; Serial No. 258,635; published Jan. 17, 1928.
Rouge, face powder, talcum powder, etc. Palmolive-Peet Company. 240,421; Mar. 27; Serial No. 250,858; published Jan. 17, 1928.
Salve, H. Starnes. 240,414; Mar. 27; Serial No. 258,661; published Jan. 17, 1928.
Salve or ointment, General healing. S. B. Malone. 240,411; Mar. 27; Serial No. 258,582; published Jan. 17, 1928.
Salves. Kip Corporation. 240,351; Mar. 27; Serial No. 256,944; published Jan. 17, 1928.
Tablets for the treatment of sore throat, etc. Laboratoire de Pharmacologie, Inc. 240,335; Mar. 27; Serial No. 258,550; published Jan. 17, 1928.
Toilet requisites. Odell Company. 240,361; Mar. 27; Serial No. 239,540; published Feb. 8, 1927.
Tonic. Agmel Corporation. 240,364; Mar. 27; Serial No. 239,782; published Jan. 17, 1928.
Tonic. Agmel Corporation. 240,365; Mar. 27; Serial No. 240,052; published Jan. 17, 1928.
Tonic, Hair. E. F. Martin. 240,540; Mar. 27.
Tonic, Herb. N. Panoff. 240,393; Mar. 27; Serial No. 257,761; published Jan. 17, 1928.
Tonic, Medicinal. Cooper Laboratories, Inc. 240,384; Mar. 27; Serial No. 257,969; published Jan. 17, 1928.
Tonic, Medicinal. Musher and Company. 240,385; Mar. 27; Serial No. 257,246; published Jan. 17, 1928.
Tonic pill. Vita-Rica Pharmacal Co. 240,353; Mar. 27; Serial No. 254,768; published Jan. 17, 1928.
Tonics. H. Lemler. 240,397; Mar. 27; Serial No. 257,880; published Jan. 17, 1928.

CLASS 8.

Pipes, cigar and cigarette holders, Tobacco. William Demuth & Company. 240,529; Mar. 27.

CLASS 12.

Brick. Acme Brick Company. 240,538; Mar. 27.
Construction materials. Mox, Incorporated. 240,547; Mar. 27.

CLASS 13.

Pipe, pipe fittings, bolts, etc., Metal. Mueller Brass Co. 240,495; Mar. 27; Serial No. 255,391; published Jan. 24, 1928.

CLASS 14.

Metal formed of iron and steel, Sheet. Columbia Steel Company. 240,563; Mar. 27.

CLASS 15.

Gasoline. Standard Oil Company. 240,427; Mar. 27; Serial No. 252,401; published Jan. 17, 1928.
Gasoline. Vickers Petroleum Company. 240,464–5; Mar. 27; Serial Nos. 256,698–9; published Jan. 17, 1928.

CLASS 16.

Composition, Antifouling. Oliver Reeder & Son, Incorporated. 240,527; Mar. 27.
Paint, Artist's relief. C & H Products Corporation. 240,377–8; Mar. 27; Serial Nos. 257,000–1; published Jan. 17, 1928.
Paint, Prepared liquid. J. F. Kurfees Paint Company. 240,389; Mar. 27; Serial No. 257,293; published Jan. 17, 1928.
Paints and varnishes, Mixed. Albert K. Sheldon Company. 240,562; Mar. 27.
Polish, Automobile and furniture. Belknap Hardware & Manufacturing Company. 240,447; Mar. 27; Serial No. 249,258; published Jan. 17, 1928.
Polish, Floor and furniture. G. Potaris. 240,380; Mar. 27; Serial No. 257,030; published Jan. 17, 1928.

CLASS 17.

Cigarettes. H. Brundage. 240,499; Mar. 27; Serial No. 258,111; published Jan. 17, 1928.
Cigars. J. C. Kascht. 240,509; Mar. 27.
Cigars, cigarettes, etc. De Nobili Cigar Company. 240,355; Mar. 27; Serial No. 254,128; published Jan. 24, 1928.
Cigars, cigarettes, smoking tobacco, etc. De Nobili Cigar Company. 240,478; Mar. 27; Serial No. 258,532; published Jan. 17, 1928.

CLASS 19.

Automobile seat covers. Frederick C. Brock and Ivan L. Smith. 240,519; Mar. 27.
Vehicles and parts thereof, Trailer-type. Athey Truss Wheel Co. 240,535; Mar. 27.

CLASS 21.

Attachment plug caps and bodies and cord connecters. Bryant Electric Company. 240,449; Mar. 27; Serial No. 258,208; published Jan. 17, 1928.
Batteries for automobiles and radios. Bergen Bros. Auto Tire Co. 240,460; Mar. 27; Serial No. 256,442; published Jan. 17, 1928.
Battery terminal. Jiffy Products Corporation. 240,467; Mar. 27; Serial No. 256,779; published Jan. 17, 1928.
Dials, transformers, and vacuum-tube sockets. Tyrman Electric Corporation. 240,392; Mar. 27; Serial No. 257,646; published Jan. 17, 1928.
Electric motors, arc welders, and motor-generator sets, Lincoln Electric Company. 240,429; Mar. 27; Serial No. 199,429; published Sept. 21, 1926.
Electricity rectifiers and electric-battery-charging equipment. Liberty Electric Corporation. 240,445; Mar. 27; Serial No. 249,073; published Jan. 17, 1928.
Lighting systems, Electric emergency. Usem Company. 240,403; Mar. 27; Serial No. 258,102; published Jan. 17, 1928.
Lightning arresters. Porcelain Products, Inc. 240,405; Mar. 27; Serial No. 258,288; published Jan. 17, 1928.

Lights, Electric. Triple-Light Co. 240,556; Mar. 27.
Radio tube rejuvenator. N. M. Cottrell. 240,523; Mar. 27.
Sadirons and electric kits, Electric. M. A. Rollman. 240,453; Mar. 27; Serial No. 255,930; published Jan. 17, 1928.

CLASS 22.

Balls, Golf. H. I. Jordan. 240,455; Mar. 27; Serial No. 255,993; published Jan. 17, 1928.
Balls, Golf. John Wanamaker New York. 240,434; Mar. 27; Serial No. 239,906; published Jan 17, 1928.
Coaster wagons. Belknap Hardware & Manufacturing Company. 240,444; Mar. 27; Serial No. 248,991; published Jan. 17, 1928.
Coaster wagons. Belknap Hardware & Manufacturing Company. 240,448; Mar. 27; Serial No. 249,603; published Jan. 17, 1928.
Fishing baskets and gut, fishing line, etc. American Import Company. 240,532; Mar. 27.
Games, Board. Wilder Mfg. Co. 240,383; Mar. 27; Serial No. 257,132; published Jan. 10, 1928.
Golf clubs and balls. J. A. Roseman. 240,463; Mar. 27; Serial No. 256,688; published Jan. 10, 1928.
Playing cards, chess, checkers, etc. Abercrombie & Fitch Co. 240,424–5; Mar. 27; Serial Nos. 252,077–8; published Jan. 17, 1928.
Wagons, Coaster. Supplee-Biddle Hardware Company. 240,419; Mar. 27; Serial No. 249,700; published Jan. 17, 1928.

CLASS 23.

Agricultural and other machines, Power unit for. Detroit Harvestor Company. 240,520; Mar. 27.
Clutches. Twin Disc Clutch Company. 240,524; Mar. 27.
Cutting machines, Metal-. Niles Tool Works Company. 240,510; Mar. 27.
Glass cutters, Fletcher, Terry Company. 240,373; Mar. 27; Serial No. 249,715; published Dec. 27, 1927.
Greasing stands of the elevator type, Automobile. J. P. Stetson. 240,525; Mar. 27.
Handles for shovels, forks, spades, and the like. H. B. Marsh. 240,542; Mar. 27.
Kitchen blenders. Hamblin & Russell Mfg. Co. 240,544; Mar. 27.
Plows, cultivators, and cotton scrapers. Brinly-Hardy Company. 240,500; Mar. 27; Serial No. 258,109; published Jan. 17. 1928.
Pumps, Plunger and turbine. Pomona Manufacturing Company. 240,482; Mar. 27; Serial No. 251,854; published Jan. 17, 1928.
Slicers, Vegetable. J. Kaufman. 240,541; Mar. 27.
Tractors. Clark Tructractor Company. 240,492; Mar. 27; Serial No. 250,064; published Jan. 17, 1928.
Vacuum cleaners. Tripoint Pneumatic Utility Co. 240,506; Mar. 27; Serial No. 257,823; published Jan. 17, 1928.

CLASS 27.

Clocks. New York Clock Corporation. 240,443; Mar. 27; Serial No. 248,968; published Jan. 17, 1928.
Watches. Benrus Watch Company. 240,399; Mar. 27; Serial No. 258,015; published Jan. 17, 1928.

CLASS 28.

Badges, lapel buttons, scarf, lapel, and breast pins, etc., Fraternity. Theta Chi Fraternity. 240,435; Mar. 27; Serial No. 240,455; published Jan. 17, 1928.
Chains, buckles, collar buttons, etc., Key. Speidel Bros. 240,395; Mar. 27; Serial No. 257,899; published Jan. 17, 1928.
Compact or vanity cases. J. V. Pilcher Mfg. Co. 240,451; Mar. 27; Serial No. 255,076; published Jan. 17, 1928.

CLASS 29.

Brushes, powder puffs, brooms, etc. Alfred H. Smith Co. 240,533; Mar. 27.

CLASS 30.

Porcelain ware. Porzellanfabrik Waldershof A. G. vorm. Johann Haviland. 240,536; Mar. 27.

CLASS 31.

Refrigerating apparatus and systems and parts thereof, Electric. Siemens-Schuchertwerke Gesellschaft mit beschränkter Haftung. 240,476; Mar. 27; Serial No. 253,963; published Oct. 18, 1927.

CLASS 35.

Belting, Leather. Charles Bond Company. 240,501; Mar. 27; Serial No. 258,061; published Jan. 17, 1928.
Inner tubes. Firestone Tire and Rubber Company. 240,531; Mar. 27.
Rings, Piston. E. Luckey. 240,543; Mar. 27.
Tire covers. Hupp Motor Car Corporation. 240,497; Mar. 27; Serial No. 258,124; published Jan. 17, 1928.
Tires, inner tubes, brake linings, etc., Pneumatic. Belknap Hardware & Manufacturing Company. 240,494; Mar. 27; Serial No. 249,257; published Jan. 17, 1928.
Tires, Pneumatic. Lambert Tire & Rubber Company. 240,564; Mar. 27.

CLASS 36.

Musical instruments. Vincent Bach Corporation. 240,440; Mar. 27; Serial No. 246,138; published May 31, 1927.
Musical powder boxes, cigarette cases, etc. William F. Sprague & Co. 240,428; Mar. 27; Serial No. 254,605; published Jan. 17, 1928.
Pianos and actions for player pianos, Player. Standard Pneumatic Action Company. 240,551; Mar. 27.
Pianos, player pianos, and piano players, Grand and upright. Rudolph Wurlitzer Company. 240,401; Mar. 27; Serial No. 258,055; published Jan. 17, 1928.

CLASS 37.

Paper, Book. Graham Paper Company. 240,555; Mar. 27.
Paper, Tissue wrapping. Rapinwax Paper Company. 240,546; Mar. 27.
Paper, Toilet. George W. Simmons Corporation. 240,511; Mar. 27.
Paper, Wall. Thybony & Bengtson. 240,505; Mar. 27; Serial No. 257,822; published Jan. 10, 1928.
Pencils. Parker Pencil Company. 240,557; Mar. 27.
Tags, Price or stock. Paulus-Ullmann Printing Corporation. 240,560; Mar. 27.

CLASS 38.

Booklets. L. Porter. 240,375; Mar. 27; Serial No. 253,731; published Jan. 17, 1928.
Books, booklets, or pamphlets, Printed. L. J. Alber. 240,374; Mar. 27; Serial No. 251,023; published Jan. 17, 1928.
Circulars, Printed. Chevrolet Motor Company. 240,345; Mar. 27; Serial No. 257,784; published Jan. 10, 1928.
Decalcomania transfers, transfer signs, etc. Parker & Waterman Manufacturing Co. 240,357; Mar. 27; Serial No. 226,677; published Jan. 10, 1928.
House organ. W. T. Grant Company. 240,331; Mar. 27; Serial No. 258,685; published Jan. 17, 1928.
House organ. F. W. Kaempfer. 240,347; Mar. 27; Serial No. 257,630; published Jan. 17, 1928.
Magazine. Marinello Company. 240,333; Mar. 27; Serial No. 258,641; published Jan. 17, 1928.
Magazine section. International Magazine Company. 240,350; Mar. 27; Serial No. 257,237; published Jan. 10, 1928.
Maps. Automobile Owners Association of America. 240,344; Mar. 27; Serial No. 257,851; published Jan. 17, 1928.
Newspaper. Daily Pantagraph. 240,339; Mar. 27; Serial No. 258,404; published Jan. 17, 1928.
Periodicals. Personal Arts Company. 240,338; Mar. 27; Serial No. 258,425; published Jan. 17, 1928.
Publication. Fawcett Publications, Inc. 240,340; Mar. 27; Serial No. 258,258; published Jan. 17, 1928.
Publication. W. T. Grant Company. 240,343; Mar. 27; Serial No. 257,925; published Jan. 10, 1928.
Publication. Occidental Publishing Company. 240,354; Mar. 27; Serial No. 254,716; published Jan. 17, 1928.
Publication, Periodical. Andrew Geyer Inc. 240,334; Mar. 27; Serial No. 258,632; published Jan. 17, 1928.
Publications, Annual. Inter-Tribal Indian Ceremonial Association. 240,362; Mar. 27; Serial No. 239,620; published Jan. 10, 1928.

CLASS 39.

Boots, shoes, and slippers, etc. Paul C. Wolfer Company. 240,484; Mar. 27; Serial No. 251,255; published Nov. 1, 1927.
Caps, Boys'. Hirschberg & Company. 240,490–1; Mar. 27; Serial Nos. 250,538–9; published Jan. 10, 1928.
Clothing. Shirtcraft Company. 240,502; Mar. 27; Serial No. 257,897; published Jan. 10, 1928.
Coats and overcoats, Men's sack. Stein-Bloch Co. 240,545; Mar. 27.
Coats, collars, scarfs, and cuffs of fur. Frederick Spirer & Sons. 240,526; Mar. 27.
Coats, suits, and dresses. R. H. Macy & Co. 240,503; Mar. 27; Serial No. 257,804; published Jan. 10, 1928.
Corsets and corselets. Chicago Mail Order Company. 240,522; Mar. 27.
Garters. C. A. Smith. 240,504; Mar. 27; Serial No. 257,818; published Jan. 10, 1928.
Hosiery. D. Hillman. 240,363; Mar. 27; Serial No. 239,655; published Dec. 6, 1927.
Hosiery. Radiant Mills Company. 240,436; Mar. 27; Serial No. 241,006; published Feb. 1, 1927.
Hosiery, pajamas, shoes, etc. Posner Hosiery, Inc. 240,518; Mar. 27.
Hosiery, underwear, blouses, etc. Big Store Co. 240,493; Mar. 27; Serial No. 249,568; published Jan. 10, 1928.
Jackets, sweaters, vests, etc. Boyd-Richardson Company. 240,475; Mar. 27; Serial No. 254,538; published Jan. 10, 1928.
Shirts and pajamas, Dress. S. Liebovitz & Sons, Inc. 240,530; Mar. 27.
Shirts, blouses, lumber jackets, etc., Dress. Grunhut, Leich & Ellison, Inc. 240,477; Mar. 27; Serial No. 253,592; published Nov. 1, 1927.
Shirts, Men's. L. J. Markowitz. 240,481; Mar. 27; Serial No. 251,921; published Jan. 10, 1928.

Shirts, overalls, coats, etc. H. J. Holman & Sons Inc. 240,479; Mar. 27; Serial No. 252,706; published Jan. 10, 1928.
Suits, Men's flannel. Burkhardt Bros. Co. 240,521; Mar. 27.

CLASS 42.

Cotton and cotton mixed goods. Finlay, Holt & Co. Ltd. 240,485; Mar. 27; Serial No. 253,141; published Jan. 17, 1928.
Cotton and woolen piece goods and combinations. Panama Mfg. Co. 240,471–2; Mar. 27; Serial Nos. 258,587–8; published Jan. 17, 1928.
Silk piece goods. Dundee Textile Company. 240,473; Mar. 27; Serial No. 258,573 published Jan. 17, 1928.

CLASS 44.

Aprons, belts and step-ins, Sanitary. J. C. Penney Company. 240,441 Mar. 27 Serial No. 240,566; published May 10, 1927.
Gold, gold solder, etc., for dental use, Inlay. Spyco Smelting & Refining Co. 240,458; Mar. 27; Serial No. 256,311; published Jan. 17, 1928.
Medical apparatus. R. W. Cramer & Company Inc. 240,457; Mar. 27; Serial No. 256,246; published Jan. 17, 1928.
Radium-containing bodies used for therapeutic purposes. Radia-Device Inc. 240,462; Mar. 27; Serial No. 255,607; published Jan. 17, 1928.
Sanitary belts, aprons, etc. O. Eisenkramer. 240,431; Mar. 27; Serial No. 230,617 published Jan. 17, 1928.
Sanitary napkins. Crescent Specialty Company. 240,454; Mar. 27; Serial No. 255,071; published Jan. 17, 1928.
Therapeutic appliances. J. D. Burkholder. 240,386; Mar. 27; Serial No. 257,146; published Jan. 17, 1928.
Toothpicks. George W. Simmons Corporation. 240,406; Mar. 27; Serial No. 258,295; published Jan. 17, 1928.

CLASS 45.

Sirups used in the preparation of soft drinks, Maltless. H. Baron & Co. Inc. 240,483; Mar. 27; Serial No. 251,815; published Jan. 17, 1928.

CLASS 46.

Biscuits, candy, and ice-cream cones. Consumers Biscuit Company. 240,468; Mar. 27; Serial No. 256,811; published Jan. 17, 1928.
Bread, cake, etc. W. H. Brooks. 240,371; Mar. 27; Serial No. 248,810; published Aug. 23, 1927.
Candy. Helen Ardelle Candy Company. 240,470; Mar. 27; Serial No. 258,617; published Jan. 17, 1928.
Canned foods. W. R. Roach & Co. 240,376; Mar. 27; Serial No. 256,978; published Jan. 17, 1928.
Canned grapefruit. Spanish American Fruit Company. 240,367; Mar. 27; Serial No. 242,508; published Oct. 4, 1927.
Canned shrimp. C. B. Foster Packing Co. 240,561; Mar. 27.
Canned tomatoes, peas, beans, dried codfish, bottled vinegar, etc. A. Merlino & Sons. 240,480; Mar. 27; Serial No. 209,307; published May 17, 1927.
Canned vegetables. Bankert Brothers. 240,565; Mar. 27.
Canned vegetables and fruits, spices, candy, etc. Simpson-Ashby Co. 240,517; Mar. 27.
Canned vegetables, shrimp, oysters, and pickles. Markey-Harmon Co. 240,442; Mar. 27; Serial No. 248,288; published Jan. 17, 1928.
Cereals, Prepared. W. J. Moore. 240,508; Mar. 27; Serial No. 258,234; published Jan. 10, 1928.
Coffee. Atwood & Company. 240,368; Mar. 27; Serial No. 242,874; published May 31, 1927.
Coffee. Johnson Coffee Co. 240,372; Mar. 27; Serial No. 249,478; published July 12, 1927.
Coffee. O. W. Peirce Company. 240,513; Mar. 27.
Confection, Novelty. H. R. Patriarche. 240,516; Mar. 27.
Dairy products. L. S. Raskas. 240,486; Mar. 27; Serial No. 251,082; published Jan. 17, 1928.
Feed, Chicken. City Mills Company. 240,496; Mar. 27; Serial No. 258,163; published Jan. 17, 1928.
Flavoring extract, Food-. Joseph Burnett Company. 240,461; Mar. 27; Serial No. 256,659; published Jan. 17, 1928.
Flour. Cape County Milling Company. 240,512; Mar. 27.
Flour, corn flour, and a mixture of corn and wheat flour, Wheat. M. Levinson. 240,489; Mar. 27; Serial No. 250,807; published Jan. 10, 1928.
Flour, meal, oatmeal, etc. Elam Mills, Inc. 240,534; Mar. 27.
Flour, Self-rising wheat. Blish Milling Company. 240,487; Mar. 27; Serial No. 250,961; published Jan. 17, 1928.
Flour, Wheat. Bernet, Craft & Kauffman Milling Company. 240,549; Mar. 27.
Flour, Wheat. Blish Milling Company. 240,488; Mar. 27; Serial No. 250,959; published Jan. 17, 1928.
Flour, Wheat. Empire Milling Company. 240,356; Mar. 27; Serial No. 216,900; published Oct. 20, 1925.
Flour, Wheat. Montana Flour Mills Company. 240,507; Mar. 27; Serial No. 257,843; published Jan. 10, 1928.
Flour, Wheat. Frank R. Prina Corporation. 240,514; Mar. 27.
Flour, Wheat. A. D. Rosenberg. 240,554; Mar. 27.
Foods and ingredients of foods. E. Bulliard. 240,438; Mar. 27; Serial No. 243,477; published May 3, 1927.
Foods, Livestock. John W. Eshelman & Sons. 240,559; Mar. 27.
Grapes, Fresh. R. H. Dart. 240,515; Mar. 27.
Ice cream. Missouri Valley Creamery Co. 240,426; Mar. 27; Serial No. 252,344; published Jan. 17, 1928.
Macaroni. Kansas City Macaroni & Importing Co. 240,391; Mar. 27; Serial No. 257,363; published Jan. 17, 1928.
Malt extracts. Forest Hills Company. 240,394; Mar. 27; Serial No. 257,864; published Jan. 17, 1928.
Malt extracts and syrups. H. C. Schranck Company. 240,369; Mar. 27; Serial No. 247,218; published July 12, 1927.
Potatoes, Sweet. Portales Valley Sweet Potato Growers Association. 240,474; Mar. 27; Serial No. 258,540; published Jan. 17, 1928.
Relish. D. N. D. Mfg. Co. 240,387; Mar. 27; Serial No. 257,149; published Jan. 17, 1928.
Syrup, Hop-flavored malt. S. L. Goldman. 240,370; Mar. 27; Serial No. 243,853; published Jan. 10, 1928.
Syrup, Malt. C. G. McCaffrey. 240,390; Mar. 27; Serial No. 257,296; published Jan. 17, 1928.
Syrup, Malt. F. W. Rode. 240,462; Mar. 27; Serial No. 256,687; published Jan. 17, 1928.
Tea, coffee, cocoa, spices, etc. John Blaul's Sons Co. 240,432; Mar. 27; Serial No. 235,194; published Jan. 11, 1927.

CLASS 48.

Beverages, Cereal malt. Forest Hills Company. 240,480; Mar. 27; Serial No. 252,466; published Jan. 17, 1928.

ALPHABETICAL LIST OF LABELS.

Agneau Creme. For Face Cream. H. W. Lamb, sr. 33,737; Mar. 27.
Ajarof. For Bean Salads. E. P. Marsan Company. 33,740; Mar. 27.
Blox-Odor. For a Deodorant. Hillyard Chemical Company. 33,736; Mar. 27.
Bohemia Real. For Malt Syrup. A. Werlin. 33,749; Mar. 27.
Coffnip. For Cough Remedy. Coffnip Company. 33,726; Mar. 27.
Dresses of Tailored-Simplicity. For Ladies' and Misses' Dresses. Alexander S. Gross, Inc. 33,729; Mar. 27.
E-W Brandy Sauce. For Brandy Sauce. R. R. Strange, jr. 33,746; Mar. 27.
Green Dragon Brand Dry Pack Shrimp. For Shrimp. Quong Sun Company. 33,742; Mar. 27.
Heide's Panglo Chocolate Raisins. For Candy. Henry Heide, Inc. 33,731; Mar. 27.
Heide's Panglo Chocolate Coconut. For Candy. Henry Heide, Inc. 33,732; Mar. 27.
Heide's Panglo Chocolate Mints. For Candy. Henry Heide, Inc. 33,733; Mar. 27.
Heide's Panglo Chocolate Peanuts. For Candy. Henry Heide, Inc. 33,734; Mar. 27.
Heithol. For Medicine. Heithol Medicine Co. 33,735; Mar. 27.
Marie Rose. For Face Powder. Marie Rose Perfume Co. 73,738; Mar. 27.
Marie Rose. For Cleansing Cream. Marie Rose Perfume Co. 33,739; Mar. 27.
Medident. For Tooth Paste. Drug Products Co. Inc. 33,728; Mar. 27.
Merchants' Cook Book and Household Guide. For Merchants' Cook Book and Household Guides and Containers Thereof. Merchants' Publishing Co. 33,741; Mar. 27.
Pine-Tree Air-A-Tor. For Deodorizer and Air Conditioner. J. J. Bonner. 33,725; Mar. 27.
Renate Tetzlaff Cold Cream. For Cold Cream. Tetzlaff & Meyer. 33,747; Mar. 27.
Schmitt's Bakery Butter Kreme Kake. For Cake. W. S. Schmitt. 33,744; Mar. 27.
Soluble Sulphur Shampoo. For Shampoo in Liquid Form. C. L. Grupe. 33,730; Mar. 27.
Stop-To-Bac. For Cigars. S. B. Dexter. 33,727; Mar. 27.
Sunshine Satin. For Ribbons. J. Rosen & Sons. 33,743; Mar. 27.
Thermostatic Heat Controls. For Heat Regulators. Simplex Heat Regulator Company. 33,745; Mar. 27.
Walker's Fancy Beans with Chile Gravy. For Canned Beans with Chile Gravy. Walker Properties Association. 33,748; Mar. 27.
Wrigley's P. K. Peppermine—Pink P. K. For Chewing Gum. Wm. Wrigley Jr. Company. 33,750–1; Mar. 27.

ALPHABETICAL LIST OF PRINTS.

Best In Cold Weather. For Betholine Motor Fuel. Sherwood Bros. Inc. 10,739; Mar. 27.

Head & Shoulders Above Them All. For Betholine Motor Fuel. Sherwood Bros. Inc. 10,730; Mar. 27.

Here Is The Letter I Promised You. A Personal Message From Carrie Blanchard. For Instant Postum and Postum Cereal. Postum Company, Incorporated. 10,733; Mar. 27.

I Have Left a Letter For You With The Grocer. For Postum Cereal and Instant Postum. Postum Company, Incorporated. 10,732; Mar. 27.

Kum-A-Part Kuff Button for French Cuffs. For Cuff Buttons. Baer & Wilde Company. 10,725; Mar. 27.

Leadership. For Betholine Motor Fuel. Sherwood Bros. Inc. 10,738; Mar. 27.

Les Pastels Coty. For Rouge. Coty, Inc. 10,726; Mar. 27.

Minteaz "Peps-In" Gum "Takes The 'Die' From Indigestion." For Chewing Gum. B. M. Gordon. 10,727; Mar. 27.

More Miles to the Gallon. For Betholine Motor Fuel. Sherwood Bros. Inc. 10,734; Mar. 27.

Nothing Else Like It! For Betholine Motor Fuel. Sherwood Bros. Inc. 10,740; Mar. 27.

Picture Frame Clamp. For Picture Frame Clamps. O. Knapp. 10,729; Mar. 27.

Power. For Betholine Motor Fuel. Sherwood Bros. Inc. 10,735; Mar. 27.

Roofless Upper—Lockin Lower. For Sets of Teeth. Dr. Hewson Dental Co. 10,728; Mar. 27.

Security Cement. For Cement. North American Cement Corp. 10,730; Mar. 27.

Swank Collar Holder—Looks Like a Pin But Isn't. For Collar Holders. Baer & Wilde Company. 10,724; Mar. 27.

Unchanging as the Leopard's Spots. For Betholine Motor Fuel. Sherwood Bros. Inc. 10,737; Mar. 27.

When in Trouble use Pabst's Okay Specific. For a Medicinal Preparation. E. F. Pabst. 10,731; Mar. 27.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abel, August, Leipzig, assignor to Atlas-Werke Pöhler & Co., Leipzig-Stotteritz, Germany. Footwear pounding or burnishing machine. 1,664,238; Mar. 27.

Adlake Company, The. (See Hamm, William S., assignor.)

Advance-Rumely Company. (See Ballentine, W. I., and Thompson, assignors.)

Aguilar, Ramón, New York, N. Y. Safety razor. 1,664,279; Mar. 27.

Alkele, Andreas, Moore, Idaho. Road drag. 1,663,965; Mar. 27.

Airship Guarantee Company Limited. (See Wallis, Barnes N., assignor.)

Allegheny Steel Company. (See Hostettler, Leigh W., assignor.)

Allen, James, Washington, D. C. Electric discharge device. 1,663,873; Mar. 27.

Alimänna Svenska Elektriska Aktiebolaget. (See Ytterberg, Arle, assignor.)

Almquest, Max N., and A. B. Jablonski, Milwaukee, Wis. Yarn ballooner. 1,664,149; Mar. 27.

Aluminum Company of America. (See Feltes, Frank L., assignor.)

Ament, Lucy C., and C. Hilfiker, New York, N. Y. Collapsible commode. 1,663,966; Mar. 27.

American Can Company. (See Huntar, Felix, assignor.)

American Cone & Pretzel Company. (See Turner, Ralph C., assignor.)

American Gasaccumulator Company. (See Boots, E. R., and Eskilson, assignors.)

American Ichthyol Oil Company. (See Rowland, Dudley, H., assignor.)

American Machine and Foundry Company. (See Farmer, Fred, assignor.)

American Machine & Foundry Company. (See Foernsler, Max E., assignor.)

American Machine and Foundry Company. (See Schmitt, Frank R., assignor.)

American Machine & Foundry Company. (See Sheehan, Thomas C., assignor.)

American Safety Match Corporation. (See Friede, S. M., and Hakemeyer, assignors.)

American Schaeffer and Budenberg Corporation. (See Ileman, Emil A., assignor.)

American Sheet and Tin Plate Company. (See Irvin, William A., assignor.)

American Stove Company. (See Stockstrom, Arthur, assignor.)

American Sundries Co. (See Lawner, Nicholas, assignor.)

American Telephone and Telegraph Company. (See Bascom, Henry M., assignor.)

American Telephone and Telegraph Company. (See Bender, H. D., and Kent, assignors.)

American Telephone and Telegraph Company. (See Best, Fred H., assignor.)

Anaconda Sales Company. (See Robinson, Thomas, assignor.)

Anderberg, Anders and E. A., Malmo, Sweden. Brake system actuated by fluid pressure. 1,663,679; Mar. 27.

Anderberg, Erik A. (See Anderberg, Anders and E. A.)

Andersin, Bruno S., Helsinki, Finland. Contrivance for fastening woodwork. 1,663,580; Mar. 27.

Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Buckle. 1,663,745; Mar. 27.

Anderson, Oscar O., Sioux Rapids, Iowa. Stock waterer. 1,663,789; Mar. 27.

Anderson, Philip A., Atlantic, Iowa. Lawn-mower grinder. 1,663,823; Mar. 27.

Andrade, Cipriano, jr., New York, N. Y. Hand-reefing boom. 1,664,018; Mar. 27.

Ansonia Clock Company, The. (See Clark, William H., assignor.)

Anstice, Josiah, & Co. Inc. (See McCathron, Claude B., assignor.)

April, David, Washington, D. C. Parking bumper for automobiles. 1,664,842; Mar. 27.

Arcade Manufacturing Company. (See Tscherning, Henry, assignor.)

Argo, John W. (See Newton, Walter M., assignor.)

Arlington Mills. (See Harding, Frank E., assignor.)

Armour & Company. (See Jordan, Isaac N., assignor.)

Armstrong, Victor C., Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y. Reenforced step rail joint. 1,663,619; Mar. 27.

Ashkenas, Abraham, Brooklyn, N. Y. File and binder. 1,663,967; Mar. 27.

Astrom, John, Fort Wayne, Ind. Internal-combustion engine. 1,664,056; Mar. 27.

Atkinson, Floyd C., Western Port, Md. Tip for crutches and canes. 1,663,622; Mar. 27.

Atlantic Aircraft Corporation. (See Fokker, Anthony H. G., assignor.)

Atlas Car & Manufacturing Company, The. (See Schellentrager, Eugene W., assignor.)

Atlas-Werke Pöhler & Co. (See Abel, August, assignor.)

Atwater, Harry A., Kansas City, Mo. Oil-burning locomotive furnace. 1,664,099; Mar. 27.

Auberlin, William, Northfield, Ohio. Mooring airships to mooring masts. 1,663,645; Mar. 27.

Augenstein, Carl, Cranston, and R. Vogel, Providence, assignors to Automatic Gold Chain Company, Edgewood, R. I. Chain. 1,664,280; Mar. 27.

Augner, Charles E., Floral Park, N. Y. Double-acting four-cycle internal-combustion engine. 1,664,[illegible] Mar. 27.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. High-tension installation. 1,664,100; Mar. 27.

Austin, Arthur O., Barberton, assignor, by mesne assignments to The Ohio Brass Company, Mansfield, Ohio. Forming and threading machine. 1,664,101; Mar. 27.

Austin, Frederick W., Oldham, England. Needle-guiding device for looms for weaving pile or other fabrics. 1,664,014; Mar. 27.

Austin, Frederick W., Oldham, England. Tube frame for holding spools of tuft yarn. 1,664,015; Mar. 27.

Automatic Electric Inc. (See Richardson, Rodney G., assignor.)

Automatic Electric Inc. (See Wicks, John, assignor.)

Automatic Gold Chain Company. (See Augenstein, C., and Vogel, assignors.)

Avery Company. (See Bartholomew, John B., assignor.)

Ayer Company, The. (See Harris, Thomas S., assignor.)

Ayotte, Joseph R., assignor of one-half to F. P. Hoy, Chicago, Ill. Electric cigar lighter. 1,663,675; Mar. 27.

Bader, John, Hampton, Va. Extension table. 1,664,343; Mar. 27.

Baine, John F., North Bay, Ontario, Canada. Device for locating and raising sunken vessels. 1,664,281; Mar. 27.

Baker, George R., and C. Dumbleton, London, England, assignors to Baker-Perkins Company Incorporated, White Plains, N. Y. Baking oven. 1,663,746; Mar. 27.

Baker-Perkins Company Incorporated. (See Baker, G. R., and Dumbleton, assignors.)

Ballentine, William I., and P. R. Thompson, assignors to Advance-Rumely Company, La Porte, Ind. Automatic cramp preventive. 1,663,790; Mar. 27.

Ballner, Stephen, Chicago, Ill. Window. 1,664,016; Mar. 27.

Ballou, B. A., & Co. (See Morehouse, Eugene, assignor.)

Baltheiser, Adele. (See Schaefer, August, assignor.)

Barber-Colman Company. (See Peterson, Burt A., assignor.)

Bardon and Oliver. (See Hornberger, Earl J., assignor.)

Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Centrifuge and mold holder therefor. 1,663,896; Mar. 27.

Barnet Leather Company. (See Laemmle, George J., assignor.)

Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Road scraper. 1,663,581; Mar. 27.

Bartlett Hayward Company, The. (See Kennedy, James S., assignor.)

Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,663,747; Mar. 27.

Baseman, Ernest, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Cutter-bar-adjusting mechanism for mowing machines. 1,664,102; Mar. 27.

Bass, Edward L., Chicago, Ill. Tee-forming device. 1,663,536; Mar. 27.

Bass, Rubin, Brooklyn, N. Y. Garment hanger. 1,663,646; Mar. 27.

Bassick Manufacturing Company, The. (See Creveling, John L., assignor.)

Bassick Manufacturing Company, The. (See Murphy, Howard J., assignor.)

Bath, John. (See Bath, John and S. W., assignors.)

Bath, John and S. W., Worcester, Mass., assignors, by mesne assignments, to said John Bath. Calipering mechanism. 1,664,151; Mar. 27.

Bath, Stanley W. (See Bath, John and S. W.)

Batsel, Max C., Wilkinsburg, Pa. Intertube transformer for vacuum-tube amplifiers. 1,664,239; Mar. 27.
Battalion, Hector A., Cape Town, Cape Province, South Africa. Road-making material. 1,663,824; Mar. 27.
Baumann, Ulrich, jr., Woodcliff, N. J. Apparatus for drying textile fabrics. 1,663,897; Mar. 27.
Baumgardner, Henry C., Ann Arbor, Mich. Spraying device. 1,663,676; Mar. 27.
Bausch & Lomb Optical Company. (See Stevens, Frederick A., assignor.)
Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
Beckanstin, Harry H., Hartford, Conn. Interlocking angle joint for door and window trim. 1,663,968; Mar. 27.
Becker, Elam M., Lititz, Pa. Cultivator. 1,664,344; Mar. 27.
Beghetti, Peter, San Francisco, Calif. Concrete-form brace. 1,664,152; Mar. 27.
Belden, Pauline D., New York, N. Y. Garment supporter. 1,664,345; Mar. 27.
Bellinger, James G., Cleveland, Ohio. Method and apparatus for testing and sorting materials. 1,663,539; Mar. 27.
Bender, Frank J., assignor of one-eighth per cent to J. C. Weirsert, one-eighth per cent to J. Hollerbach, Forest Park, and one-eighth per cent to L. Stiegart, River Forest, Ill. Milk meter. 1,663,933; Mar. 27.
Bender, Hugh D., Brooklyn, and R. J. Kent, Jamaica, N. Y., assignors to American Telephone and Telegraph Company. Braid stripper for insulated wires. 1,663,748; Mar. 27.
Bendix Brake Company. (See Coatalen, Louis, assignor.)
Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
Bendix Brake Company. (See McConkey, Montgomery W., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Powers, Percival A., assignor.)
Benjamin, John C., Bronxville, assignor to Western Electric Company, Incorporated, New York, N. Y. Loud-speaking device. 1,664,017; Mar. 27.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecter device. 1,663,749; Mar. 27.
Benjamin, William ... Unity, Saskatchewan, Canada. Grain loader. 1,663,825; Mar. 27.
Bertone, Maggiorino G., New York, N. Y. Washer-setting machine. 1,664,346; Mar. 27.
Best, Fred H., Westfield, N. J., assignor to American Telephone and Telegraph Company. Automatic transmission-measuring set. 1,663,750; Mar. 27.
Biddle, William C., et al. (See Corbin, Elbert A., jr., assignor.)
Bien, Albert H., Philadelphia, Pa. Textile fabric. Des. 74,776; Mar. 27.
Bien, Louis H., Palo Alto, Calif. Processing and dehydrating apparatus. 1,664,018; Mar. 27.
Bier, Emanuel R., Winnipeg, Manitoba, Canada. Tool handle. 1,663,826; Mar. 27.
Bier, Lizzie M., assignor to C. F. Hickok Co., Sidney, Ohio. Candy container. 1,664,282; Mar. 27.
Bisbee, Ralph F. (See Matthews, H. D., and Bisbee.)
Bishoff, Eugene M., Pasadena, Calif. Chair. 1,664,103; Mar. 27.
Blitzenburger, Frank C., Los Angeles, Calif. Yieldable back support for seats. 1,663,898; Mar. 27.
Blackford Window Glass Company. (See Hart, Thomas B., assignor.)
Blackman, Josephine W., New Haven, Conn. Trellis. 1,664,019; Mar. 27.
Blair, Robert S., Stamford, Conn. Projection of bullets and other projectiles. 1,663,899; Mar. 27.
Blaw-Knox Company. (See Venable, William M., assignor.)
Bloom, Benjamin L., assignor to Collins Supply and Equipment Company, Scranton, Pa. Spinning-ring holder. 1,663,620; Mar. 27.
Blount Plow Works. (See Phelps, Spencer H., assignor.)
Boese, John L., Fond du Lac, Wis. Fruit-picking implement. 1,664,240; Mar. 27.
Bonavia y Ripoll, Alberto and A., Habana, Cuba. Apparatus destined to protect checks and similar documents. 1,663,816; Mar. 27.
Bonavia y Ripoll, Arturo. (See Bonavia y Ripoll, Alberto and A.)
Bonnell, Albert W. (See Critser, William, assignor.)
Bonney, Homer W., Kingsley, Iowa. Self-adjusting connecting rod. 1,663,582; Mar. 27.
Boots, Edmund R., East Orange, N. J., and S. A. Eskilson, Stockholm, Sweden, assignors to American Gasaccumulator Company, Elizabeth, N. J. Reflector belt. 1,663,701; Mar. 27.
Borkert, Anson, Warsaw, Ind. Oarlock. 1,664,153; Mar. 27.
Borkman, George F., Salt Lake City, Utah. Radioreceiver. 1,663,583; Mar. 27.
Bound Brook Oil-Less Bearing Company. (See Claus, Carl, assignor.)
Boving, Jens O., Westminster, London, England. Apparatus for rarefying gases. 1,664,347; Mar. 27.
Bowers, Carmon S. (See Feather, Luther M., assignor.)
Bowler, William E., Niagara Falls, N. Y., assignor to The Spirella Company, Meadville, Pa. Wire straightening and cutting machine. 1,663,969; Mar. 27.
Bowman, George J., Bartle, Calif. Chain tightener and holder. 1,663,621; Mar. 27.
Boydston, Frank T. (See Wilson, Edwin W., assignor.)
Boynton, Alexander, San Antonio, Tex. Combination washing tool and swab. 1,664,283; Mar. 27.
Bradley Pulverizer Company. (See Gibson, W. A., and Burke, assignors.)
Bradley, William A., deceased; I. S. Thyle, administrator, San Francisco, Calif. Automatic discharge valve. 1,664,020; Mar. 27.
Brady, Charles T., Detroit, Mich. Dental wall lamp. Des. 74,777; Mar. 27.
Braun, William F. H., Wynnewood, assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn mower. 1,663,900; Mar. 27.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Electric welding of can bodies. 1,663,970; Mar. 27.
Brewbaker, Jess W. (See Dowdy, R. F., and Brewbaker.)
Brick, Perry A., assignor to The National Grave Vault Co., Galion, Ohio. Dumping truck. 1,663,537; Mar. 27.
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briggs & Stratton Corporation. (See Soreng, Edgar M., assignor.)
Brinard Sales & Construction Company. (See Moffett, C. W., and Briney, assignors.)
Briney, Mark R. (See Moffett, C. W., and Briney.)
Brisson, Walter W., Norway, Mich. Heating system. 1,663,874; Mar. 27.
British Dyestuffs Corporation Limited. (See Payman, J. B., and Wignall, assignors.)
Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet detector and stop. 1,664,057; Mar. 27.
Broadwood, John, & Sons, Limited. (See Collen, Robert H., assignor.)
Broche, Leon J., assignor, by mesne assignments, to Kimble Glass Company, Vineland, N. J. Machine for finishing glass tubes, bars, vials, bottles, and the like. 1,664,154; Mar. 27.
Brogdex Company. (See Jamieson, Charles M., assignor.)
Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Air gauge. 1,663,540; Mar. 27.
Brower, John D., jr., Piedmont, Calif. Direction indicator. 1,663,971; Mar. 27.
Brown & Bigelow. (See Fischer, H. L., and Ward, assignors.)
Brown, George W., Cape Elizabeth, Me. Lead pencil. 1,664,058; Mar. 27.
Brown, Milton L., Los Angeles, Calif. Garbage pail with nondetachable cover. 1,663,901; Mar. 27.
Brown, Walter J. (See Robinson, E. Y., and Brown.)
Brown, William A., et al. (See Corbin, Elbert A., jr., assignor.)
Bruback, Theodore M. (See Linaker, F. W., and Bruback.)
Bruderlein, Charles, New York, N. Y. Shoe cleaner. 1,663,972; Mar. 27.
Brügger, Xaver, Horgen, Zurich, Switzerland. Skein holder for thread-spooling machines. 1,664,155; Mar. 27.
Brush, Alanson P., Detroit, Mich. Energy-storage unit. 1,663,647; Mar. 27.
Bryant, Forrest L., Binghamton, N. Y. Condenser. 1,663,995; Mar. 27.
Bryant, Roger H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio loud-speaker assembly. 1,664,241; Mar. 27.
Buchner, Max, Hanover-Kleefeld, Germany, assignor to A. F. Meyerhofer, Zurich, Switzerland. Production of hydrofluoric acid from fluoric and silicic substances. 1,664,348; Mar. 27.
Buck, James W., assignor of one-half to C. L. Dean, New York, N. Y. Slicing machine. 1,663,543; Mar. 27.
Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Rolling mill. 1,664,156; Mar. 27.
Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Rolling mill. 1,664,157; Mar. 27.
Budd, Edward G., Manufacturing Company. (See Kelley, George L., assignor.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Bull, Arthur A. (See Handy, R. G., and Bull.)
Bullard Machine Tool Co., The. (See Daniels, Lee G., assignor.)
Bumbaugh, Ralph R. (See Stone, C. W., Bumbaugh and Dan.)
Bunevac, Frank, St. Louis, Mo. Folding-seat construction for automobile bodies. 1,663,827; Mar. 27.
Burdick, Fred C. (See Rich, F. E., and Burdick.)
Burgesser, Leslie D., New York, N. Y., assignor to Spartan Electric Corporation. Tube socket. 1,663,544; Mar. 27.
Burke, James G. (See Gibson, W. A., and Burke.)
Burrow, George A., assignor to J. Sutherland and C. H. Conrad, trustees, Spokane, Wash. Transmission for shafts. 1,664,349; Mar. 27.

Bushwick National Bank. (See Furedy, Frank, assignor.)
Buswell, Walter, Bridgeport, Conn., assignor to Standard Compositor Aktiengesellschaft, Berlin, Germany. Typesetting and line-casting machine. 1,663,541; Mar. 27.
Byerly, Robert W. (See Loomis, Alfred L., assignor.)
Byerly, Robert W., New York, N. Y. Fire extinguisher and container for fire-extinguishing liquids and other fluids. 1,663,677; Mar. 27.
Byerly, Robert W., New York, N. Y. Fire extinguisher. 1,663,678; Mar. 27.
Cable Corporation, The. (See Cable, Julius L., assignor.)
Cable, Julius L., assignor to The Cable Corporation, Boston, Mass. Folding camp chair. 1,664,059; Mar. 27.
Caine, Charles H. (See Ringwald, Clarence, assignor.)
Calcott, William S., Penns Grove, A. E. Parmelee, Carneys Point, and F. R. Lorriman, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacturing tetra-ethyl lead. 1,664,021; Mar. 27.
Caldwell, Albert E., assignor to Continental Rubber Works, Erie, Pa. Armored hose. 1,664,060; Mar. 27.
California Canning Machinery Co. (See Wilcox, George, assignor.)
Calkins, Frederic A., Waterbury, Conn. Fastener for tire chains. 1,664,158; Mar. 27.
Cambridge Rubber Co. (See Dunbar, Ernest W., assignor.)
Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Adjustable rubbing plate. 1,664,373; Mar. 27.
Campbell Metal Window Corporation. (See Campbell, Harry E., assignor.)
Canary, James D. (See Woodsome, Millard, assignor.)
Candee, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gas-electric power system. 1,664,242; Mar. 27.
Cappiello, Alexander R., New York, N. Y. Nonrefillable carton. 1,664,350; Mar. 27.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic device. 1,664,104; Mar. 27.
Carlson, Wilhelm G., and O. Johnson, assignors to The Furniture Hardware Corporation, Jamestown, N. Y. Drawer pull. Des. 74,778; Mar. 27.
Carpenter, Fred J., St. Louis, Mo. Toy bomb. 1,663,679; Mar. 27.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,664,351; Mar. 27.
Case, Francis M., Cleveland Heights, assignor to B. R. Deming, Cleveland, Ohio. Combined table and ironing-machine support. 1,663,792; Mar. 27.
Catlin, Charles P., Jersey City, N. J. Oil can. Des. 74,779; Mar. 27.
Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slip weft detector. 1,663,934; Mar. 27.
Centrifix Corporation. (See Hawley, Charles G., assignor.)
Chamberlin Cartridge and Target Co., The. (See Spangler, William I., assignor.)
Chapman, Frank H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,663,973; Mar. 27.
Chase, Elroy A., Northfield, Vt. Apparatus for producing ornamental background on stone. 1,664,159; Mar. 27.
Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector on loom transferrer. 1,663,902; Mar. 27.
Chicago Crucible Company. (See Hottinger, Adolph F., assignor.)
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Maximum-demand meter. 1,664,243; Mar. 27.
Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., Hoboken, N. J. Electric welding apparatus. 1,664,022; Mar. 27.
Chute, Hiram E., Los Angeles, Calif. Bridle for piano actions. 1,663,538; Mar. 27.
Cinch Manufacturing Corporation. (See Vodicka, John, assignor.)
Cincinnati Grinders Incorporated. (See Nenninger, Lester F., assignor.)
Claney, Samuel E. (See Leopold, F., Claney, and Garis.)
Clark, Alva C. (See Keeler, Henry C., assignor.)
Clark, Augustus L., Montpelier, Vt. Domestic gas plant. 1,664,284; Mar. 27.
Clark Box Company, The. (See Johnson, William C., assignor.)
Clark, James W., Monmouth, Ill. Slack adjuster. 1,663,623; Mar. 27.
Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drum-operating mechanism. 1,664,377; Mar. 27.
Clark, William H., assignor to The Ansonia Clock Company, Brooklyn, N. Y. Clock hand. Des. 74,780; Mar. 27.
Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Self-aligning bearing structure and making same. 1,664,189; Mar. 27.
Clausen, Leon R., Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rake. 1,663,703; Mar. 27.
Claybourn, Leslie W., Milwaukee, Wis. Correcting printing plates. 1,663,876; Mar. 27.
Claybourn, Leslie W., Milwaukee, Wis. Apparatus for correcting printing plates. 1,663,877; Mar. 27.
Cleaves, George C., Wollaston, assignor, by mesne assignments, to W. H. Doble, Quincy, Mass. Brush. 1,663,584; Mar. 27.
Clement, Samuel M., Webster Groves, Mo. Combined tobacco can and cigarette-paper holder. 1,664,160; Mar. 27.
Clowes, Charles E., Fredericton, New Brunswick, Canada, Rosser. 1,663,794; Mar. 27.
Clyne, Robert G., St. Louis, Mo. Making containers. 1,663,542; Mar. 27.
Coatalen, Louis, Wolverhampton, England, assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill. Brake for vehicles. Re16,918; Mar. 27.
Coldwell, John S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Releasable power connection and equivalent device. 1,664,190; Mar. 27.
Cole, Richard, Burbank, Calif. Oil-splash lining for pistons. 1,663,795; Mar. 27.
Coleman, Edward W., Southall, England. Wheel tire. 1,664,352; Mar. 27.
Collen, Robert H., East Ham, assignor of one-half to John Broadwood & Sons, Limited, London, England. Pianoforte. 1,664,191; Mar. 27.
Collet, Mark W., Philadelphia, Pa. Shader for cameras and in the art of regulating locally the shading of a photograph. 1,663,996; Mar. 27.
Collins Supply and Equipment Company. (See Bloom, Benjamin L., assignor.)
Commonwealth Steel Company. (See Pfiager, Harry M., assignor.)
Cone, Frank L., Windsor, Vt. Stock pusher. 1,664,062; Mar. 27.
Conlon, Thomas A., Silver Spring, Md. Mount for guns. 1,663,796; Mar. 27.
Conrad, C. H., et al., trustees. (See Burrow, George A., assignor.)
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless receiving set. 1,664,192; Mar. 27.
Considine, Edward H., Chicago, Ill. Aerial support. 1,664,161; Mar. 27.
Continental Rubber Works. (See Caldwell, Albert E., assignor.)
Cook, Earle S. (See Thomas, T. H., and Cook.)
Cook, William, Fort Madison, Iowa. Rail-fastening construction. 1,663,974; Mar. 27.
Cooke, Albert G., and C. Phillips, Hove, England, Gas meter. 1,664,193; Mar. 27.
Cooper, Clark, Philadelphia, Pa. Whistle. 1,663,648; Mar. 27.
Copley, Noiberto G., assignor to Sunny Line Appliances, Incorporated, Detroit, Mich. Electric switch. 1,663,680; Mar. 27.
Corbiere, Joseph, assignor to N. Govin, New York, N. Y. Fuel economizer. 1,663,908; Mar. 27.
Corbin, Elbert A., jr., Swarthmore, assignor of one-third to W. C. Biddle, Lansdowne, and one-third to W. A. Brown, Philadelphia, Pa. Cushion wheel. 1,664,389; Mar. 27.
Cornell, Anton, New York, N. Y. Cutting tool. 1,663,935; Mar. 27.
Cory, Chas., & Son, Incorporated. (See Laler, Jerome M., assignor.)
Cotter, Ralph E., Oakland, Calif. Railroad crossing. 1,664,061; Mar. 27.
Cotton, William B., San Francisco, Calif. Milk-top extractor. 1,664,244; Mar. 27.
Coulson, Edward, Los Angeles, Calif. Permanently waving hair. 1,664,023; Mar. 27.
Coyle, Charles A., Port Jefferson, N. Y. Tool box. 1,664,245; Mar. 27.
Cozette, René J. P. E., Neuilly-sur-Seine, France. Explosion-engine supercharger. 1,663,936; Mar. 27.
Crane, Clarence W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Drop-box-lifting mechanism. 1,663,904; Mar. 27.
Crawford, Frank, sr., assignor to Crawford Manufacturing Company, New Brunswick, N. J. Trip mechanism for knitting-machine stop motions. 1,664,353; Mar. 27.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole end or similar article. Des. 74,781; Mar. 27.
Crawford Manufacturing Company. (See Crawford, Frank, sr., assignor.)
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,664,194; Mar. 27.
Crémer, Michel, Paris, France, assignor to General Electric Company. Electric-arc device. 1,664,195; Mar. 27.
Creveling, John L., Oracle, Ariz., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating means. 1,663,797; Mar. 27.
Critser, William, assignor to A. W. Bonnell, Traverse City, Mich. Vehicle signal. 1,664,063; Mar. 27.
Crompton & Knowles Loom Works. (See Cederlund, Albert, assignor.)
Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)

Crompton & Knowles Loom Works. (See Crane, Clarence W., assignor.)
Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)
Crompton & Knowles Loom Works. (See Gordon, A. A., and Morrell, assignors.)
Crompton & Knowles Loom Works. (See Howard, C. R., and Wagner, assignors.)
Crompton & Knowles Loom Works. (See Jennings, Victor H., assignor.)
Crompton & Knowles Loom Works. (See Parent, Cyrill, assignor.)
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Crompton & Knowles Loom Works. (See Payne, O. V., and Turner, assignors.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crompton & Knowles Loom Works. (See Shutt, Jesse R., assignor.)
Crompton & Knowles Loom Works. (See Soderberg, J. G., and Robertson, assignors.)
Crompton & Knowles Loom Works, The. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Crompton & Knowles Loom Works. See Watson, Herbert H., asignor.)
Cronenweth, Earl E., Glendale, Calif. Teller's cage. 1,663,681; Mar. 27.
Crossley, Alfred, and C. F. Rudolph, Washington, D. C. assignors to Wired Radio, Inc., New York, N. Y. Piezo-electric-crystal apparatus. 1,663,682; Mar. 27.
Crowell, William B., New York, N. Y. Checking means for door-operating mechanism. 1,664,246; Mar. 27.
Crowley, Michael M., Sioux City, Iowa. Locomotive boiler. 1,663,585; Mar. 27.
Cutler-Hammer Mfg. Co., The. (See Coldwell, John S., assignor.)
Cutler-Hammer Mfg. Co., The. (See Rodman, Thomas H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)
Dain Manufacturing Company of Iowa, The. (See Clausen, Leon R., assignor.)
Dallugge, Rudolph A. (See Morley, Joseph, assignor.)
Dalton, Hubert, Stamford, Conn. Lathe headstock. 1,663,828; Mar. 27.
Daly, Arnold E., Mather, Manitoba, Canada. Dirigible headlight for automobiles. 1,664,162; Mar. 27.
Damm, Arvid G., Ronninge, Sweden. Electric apparatus. 1,663,624; Mar 27.
Dan, John. (See Stone, C. W., Bumbaugh, and Dan.)
Daniels, Lee G., Rockford, Ill., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Multiple-spindle machine. 1,664,374; Mar. 27.
Daum, Herbert A., Indianapolis, Ind. Key-milling machine. 1,664,354; Mar. 27.
David, Tanous H., Sacramento, Calif. Wheeled massaging device. 1,663,975; Mar. 27.
Davis, Julie M., Memphis, Tenn. Ironing board and table. 1,664,355; Mar. 27.
Davis, R. B., Company. (See Euler, George C., assignor.)
Dean, Charles L. (See Buck, James W., assignor.)
Dean, James H., Ludington, Mich., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Method and apparatus for slitting metal sheets. 1,664,247; Mar. 27.
Deans, Robert J., Brooklyn, N. Y. Shingle construction. 1,664,285; Mar. 27.
Debrie, André L. V. C., Paris, France. Film-driving mechanism for cinematographic view-taking apparatus. 1,663,625; Mar. 27.
De Cew, Judson A., New York, N. Y. Sizing paper. 1,663,976; Mar. 27.
De Clerque, Alvin W. (See Payne, H. D., De Clerque, and Sjoberg.)
Deere & Company. (See Paul, William L., assignor.)
De Iongh, Johan H., Hilligersberg, Netherlands. Railway vehicle. 1,663,626; Mar. 27.
De Koning, Jacob, assignor to Galimeyer and Livingston Company, Grand Rapids, Mich. Grinding machine. 1,664,024; Mar. 27.
Delco-Light Company. (See Kettering, Charles F., assignor.)
Delco-Remy Corporation. (See Fitzsimmons, John T., assignor.)
Delco-Remy Corporation. (See Walters, H. C., and Fitzsimmons, assignors.)
Dellert, Louis, Brooklyn, N. Y. Chair. 1,664,356; Mar. 27.
Del Rio, Armando, Cienfuegos, Cuba. Funnel. 1,664,266; Mar. 27.
Deltex Co., The. (See Jacoby, Raymond W., assignor.)
Deming, Barton R. (See Case, Francis M., assignor.)
Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Tire-finishing machine. 1,664,163; Mar. 27.
Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)
De Ponthiere, Philippe. (See Robin, L., and de Ponthiere.)
Derk, Joseph, assignor to The Derk Manufacturing Company, Doylestown, Pa. Textile fabric. Des. 74,782; Mar. 27.
Derk Manufacturing Company, The. (See Derk, Joseph, assignor.)
Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead covering. 1,664,196; Mar. 27.
De Vries, Andrew, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Lighting bracket. Des. 74,783; Mar. 27.
De Vries, Andrew, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lighting standard. Des. 74,784; Mar. 27.
De Vries, Andrew, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lighting standard. Des. 74,785; Mar. 27.
Dickson, James G., Glencoe, Ill. Spark plug. 1,664,064; Mar. 27.
Dietz, Frank L., assignor, by mesne assignments, of one-half to E. H. Luke, Seattle, Wash. Split shingle and making same. 1,663,905; Mar. 27.
Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
Dishman, Alfred B., Okmulgee, Okla. Pencil-vending machine. 1,664,286; Mar. 27.
Dobson, Herbert, Portsmouth, England. Appliance adapted to revolve brushes, grind in valves, and other purposes. 1,663,627; Mar. 27.
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,664,197; Mar. 27.
Dolan, Edward J., Jackson Heights, and P. Tatore, New York, N. Y. Theater-curtain-raising device. 1,664,248; Mar. 27.
Doner, Robert, Toledo, Ohio. Safety-razor hanger. 1,663,875; Mar. 27.
Donlay, James L., Hynes, Calif. Traffic signal for motor vehicles. 1,664,105; Mar. 27.
Donnelly, R. D., et al. (See Peaden, William H., assignor.)
Double, William H. (See Cleaves, George C., assignor.)
Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Apparatus for cooling and dispensing carbonated liquids. 1,663,683; Mar. 27.
Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Apparatus for dispensing carbonated beverages. 1,663,684; Mar. 27.
Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Apparatus for dispensing liquids. 1,663,685; Mar. 27.
Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Method and apparatus for dispensing carbonated beverages. 1,663,686; Mar. 27.
Douglas, H. A. (See Murray, Howard J., assignor.)
Dow Chemical Company, The. (See Veazey, William R., assignor.)
Dowdy, Roy F., and J. W. Brewbaker, Roanoke, Va. Circuit breaker. 1,664,065; Mar. 27.
Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor-unloading device. 1,663,687; Mar. 27.
Duffy, James F., assignor to Duffy Manufacturing Company, Holland, Mich. Toe-board plate. 1,663,586; Mar. 27.
Duffy Manufacturing Company. (See Duffy, James F., assignor.)
Dumbleton, Claude. (See Baker, G. R., and Dumbleton.)
Dunbar, Ernest W., Hudson, assignor to Cambridge Rubber Co., Cambridge, Mass. Manufacturing rubber articles. 1,663,587; Mar. 27.
Dunn, Fredrick P., Los Angeles, Calif. Braking device. 1,664,287; Mar. 27.
Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., Parmelee, and Lorriman, assignors.)
Durant, John G., jr., Huntington, W. Va. Rail tie. 1,664,288; Mar. 27.
Durdin, Augustus C., jr., Chicago, Ill. Fluid-displacing apparatus. 1,664,249; Mar. 27.
Dutel, Emile, St.-Laurent du Var., and J. M. Perdoncini, Nizza, France. Two-stroke internal-combustion engine. 1,663,829; Mar. 27.
Dvorak, Anton, Shadyside, Ohio. Safety pin. 1,664,198; Mar. 27.
Dwight, Elizabeth, Brookline, Mass. Educational device. 1,664,390; Mar. 27.
Eastern Tool & Mfg. Co. (See Anderson, Carl E., assignor.)
Edelmann, E., & Co. (See Edelmann, Leo, assignor.)
Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Automobile lamp. Des. 74,786; Mar. 27.
Edge, Robert W., Southport, England. Ring spinning and doubling frame. 1,664,066; Mar. 27.
Edwards, Charles E., Manchester, N. H. Embossing plate and producing the same. 1,663,688; Mar. 27.
Edwards, James, Philadelphia, Pa. Method of and last for making turned shoes. 1,664,199; Mar. 27.
Ehrlich, John B., Portland, Oreg. Heating appliance. 1,663,937; Mar. 27.
Eirich, Joseph. (See Eirich, Ludwig and J.)
Eirich, Ludwig and J., Hardheim, Germany. Discharging closure for mixing machines. 1,663,830; Mar. 27.
Eisenstein, Maxwell. (See Moskovitz, J., and Peretz, assignors.)

Electric Storage Battery Company, The. (See Fraass, Albert, assignor.)
Electric Vacuum Cleaner Company. (See Lang, Henry T., assignor.)
Elkins, Henry O., Bath, N. Y. Collapsible container. 1,663,649; Mar. 27.
Elliott Core Drilling Company. (See Grainger, Reid B., assignor.)
Ellis, Oscar A., San Francisco, Calif. Grip wheel. 1,663,689; Mar. 27.
Ellis, Oscar A., San Francisco, Calif. Elevated suspended railway. 1,663,690; Mar. 27.
Emanuell, Luigi, assignor to Societa Italiana Pirelli, Milan, Italy. Multiple-conductor high-tension cable. 1,663,878; Mar. 27.
Endter, Waldemar A., Long Beach, Calif. Carton-vending device. 1,664,164; Mar. 27.
Ernestus, Carl, and W. Lusebrink, Elberfeld Donberg, Germany. Device for the manufacture of tape, webbing, gimp, braid, and similar materials. 1,664,357; Mar. 27.
Eskilson, Sven A. (See Boots, E. R., and Eskilson.)
Etablissements Samga & Bavox Reunis. (See Voreaux, Paul, assignor.)
Etheridge, Ernest L., Brooklyn, N. Y. License-plate holder. 1,664,025; Mar. 27.
Euler, George C., Edgewater Heights, assignor to R. B. Davis Company, Hoboken, N. J. Can-making machine. 1,664,378; Mar. 27.
Evans, George W. B., Wilderness, Va., assignor to Evans Ore Reduction Company, Washington, D. C. Treating refractory ores containing precious metals. 1,664,067; Mar. 27.
Evans Ore Reduction Company. (See Evans, George W. B., assignor.)
Everett, Russell M., Bloomfield, N. J. Vehicle signal. 1,663,691; Mar. 27.
Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,664,200; Mar. 27.
Eynon, Thomas M., Philadelphia, Pa. Variable-resistance indicator. 1,664,250; Mar. 27.
Ezdorf, Richard R., Baltimore, Md., assignor to Fuelo Corporation, Washington, D. C. Oil burner. 1,663,692; Mar. 27.
Fahr, Johann H., Stockach in Baden, Germany. Grain and grass mowing machine. 1,663,879; Mar. 27.
Falck, Fritz W., assignor of one-half to D. M. Palmer, Los Angeles, Calif. Apparatus for producing sound. 1,663,831; Mar. 27.
Faragher, Warren F. (See Gruse, W. A., and Faragher.)
Farish, Edward A., Auteuil, France. Polish applying and rubbing implement. 1,663,545; Mar. 27.
Farmer, Fred, Brooklyn, N. Y., assignor to American Machine and Foundry Company. Paper-feed control. 1,664,026; Mar. 27.
Fathauer, Alvin J., Cleveland, Ohio. Coil-winding means. 1,663,751; Mar. 27.
Fay, Carl J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic switch. 1,664,201; Mar. 27.
Feathers, Luther M., assignor of one-half to C. S. Bowers, Johnson City, Tenn. Punch for attaching labels, etc. 1,664,289; Mar. 27.
Feehery, James F., Collingdale, Pa. Work-holding appliance. 1,664,202; Mar. 27.
Feites, Frank L., Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Piston-casting machine. 1,663,693; Mar. 27.
Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Flowing and drawing continuous sheet glass. 1,663,628; Mar. 27.
Fetter, Edward, Baltimore, Md. Handle grip. 1,663,694; Mar. 27.
Fillier, Dominik, Vienna, Austria. Electric flytrap. 1,664,027; Mar. 27.
Filson, George G. (See Milburn, J. M., and Filson.)
Finking, Ernst, Leipzig, Germany. Sound conduit for sound-recording and sound-reproducing instruments. 1,663,906; Mar. 27.
Firestone Tire and Rubber Company, The. (See Goodall, Fred, assignor.)
Fischer, Howard L., and C. A. Ward, assignors to Brown & Bigelow, St. Paul, Minn. Calendar. Des. 74,787; Mar. 27.
Fisher, Carl E., Clearwater, Fla. Salt shaker. 1,664,068; Mar. 27.
Fisher, Roy, Los Angeles, Calif. Combined radiator-cap ornament and traffic signal. Des. 74,788; Mar. 27.
Fisher, Warren W., Los Angeles, Calif. Ear-phone holder. 1,664,106; Mar. 27.
Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fisk Rubber Company, The. (See Theroux, Hector J., assignor.)
Fitz Harris, Thomas J., New Rochelle, assignor to Franklin Simon & Co. Inc., New York, N. Y. Shoe. Des. 74,789; Mar. 27.
Fitzpatrick, Keene. (See Hart, H. R., and Fitzpatrick.)
Fitzsimmons, John T. (See Walters, H. C., and Fitzsimmons.)
Fitzsimmons, John T., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Lighting and battery charging system. 1,664,358; Mar. 27.
Fleischer, Charles, Brooklyn, N. Y., assignor to J. F. Meyer, Chicago, Ill. Amusement device. 1,663,752; Mar. 27.
Fleming, James R., Scranton, Pa. Mine-car-truck frame. 1,664,069; Mar. 27.
Flynn, Benjamin H., Newkirk, Okla. Turntable equipment for paving and analogous machines. 1,663,832; Mar. 27.
Flynn, Francis K., assignor to Luce Cane Harvester Corporation, New York, N. Y. Cutting mechanism for cane harvesters and the like. 1,664,203; Mar. 27.
Foernsler, Max E., Richmond Hill, N. Y., assignor to American Machine & Foundry Company. Marking device for wrapping machines. 1,664,028; Mar. 27.
Fokker, Anthony H. G., Amsterdam, Netherlands, assignor to Atlantic Aircraft Corporation. Lateral control for airplanes. 1,664,204; Mar. 27.
Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company. Process of and apparatus for isolating argon. 1,664,205; Mar. 27.
Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace wall. 1,663,977; Mar. 27.
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Range vent. 1,664,206; Mar. 27.
Foster, Benjamin, Philadelphia, Pa. Roadway with traffic-control marking. 1,664,070; Mar. 27.
Foster, Frederic W., jr., Denver, Colo. Dental tray and insert therefor. 1,663,695; Mar. 27.
Fowler, Joseph E., Worcester, Mass. Oil burner. 1,663,753; Mar. 27.
Fraass, Albert, Hagen, Germany, assignor to The Electric Storage Battery Company, Philadphia, Pa. Tube filler. 1,663,696; Mar. 27.
Francis, Harry G., Rushville, Ind. Bolt head. 1,664,207; Mar. 27.
Francis, Jacob R. (See Redmond, Albert G., assignor.)
Franklin Simon & Co. Inc. (See Fitz Harris, Thomas J., assignor.)
Freeman, George, New York, N. Y. Dimmer wall switch. 1,664,165; Mar. 27.
French Battery Company. (See Meisekothen, Edwin E., assignor.)
Friede, Samuel M., New York, N. Y., and C. Hakemeyer, Paterson, N. J., assignors, by mesne assignments, to American Safety Match Corporation, New York, N. Y. Match-splint machine. 1,663,978; Mar. 27.
Friedrich, Albert E., Berlin-Friedenau, Germany. Grinding machine for safety-razor blades. 1,663,907; Mar. 27.
Fritzsching, Hans, Vienna, Austria. Antifriction bearing. 1,663,629; Mar. 27.
Froesch, Charles. (See Masury, A. F., and Froesch.)
Froesch, Charles, assignor to International Motor Company, New York, N. Y. Ventilating system. 1,663,650; Mar. 27.
Fuelo Corporation. (See Ezdorf, Richard R., assignor.)
Fuld, Ludwig, Nuremberg, Germany. Porcelain-handle brush. 1,663,908; Mar. 27.
Furedy, Frank, Brooklyn, N. Y., assignor to Bushwick National Bank. Writing implement. 1,664,071; Mar. 27.
Furedy, Frank, Brooklyn, N. Y., assignor to Bushwick National Bank. Adjustable writing implement. 1,664,166; Mar. 27.
Furniture Hardware Corporation, The. (See Carlson, W. G., and Johnson, assignors.)
Gaarder, Leif. (See Hansen, A., and Gaarder.)
Gabriel, John C., and G. M. Thurston, assignors to Western Electric Company, Incorporated, New York, N. Y. Signaling apparatus. 1,663,880; Mar. 27.
Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling for bead chains. 1,664,290; Mar. 27.
Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Coupling for bead chains. 1,664,291; Mar. 27.
Galimeyer and Livingston Company. (See De Koning, Jacob, assignor.)
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube and making same. 1,663,754; Mar. 27.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Door structure for pressure tanks. 1,663,755; Mar. 27.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing apparatus. 1,663,979; Mar. 27.
Garis, Lewis K. (See Leopold, F., Clancy, and Garis.)
Garrison, Herman, Chicago, Ill. Can opener. 1,664,251; Mar. 27.
Gates, Donald E., administrator. (See Gates, Elmer.)
Gates, Elmer, deceased, Washington, D. C.; D. E. Gates, administrator. Combustion under pressure. 1,664,072; Mar. 27.
Geier, James, Troy, N. Y. Convertible level and transit. 1,663,546; Mar. 27.
Geier, P. A., Company, The. (See Haumann, George, assignor.)
General Electric Company. (See Carichoff, Eugene R., assignor.)

General Electric Company. (See Creighton, Elmer E. F., assignor.)
General Electric Company. (See Crémer, Michel, assignor.)
General Electric Company. (See Fonda, Gorton R., assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Sargent, Howard R., assignor.)
General Electric Company. (See Schonbourger, L., and Schrage, assignors.)
General Electric Company. (See Shaw, G. R., and Tellkamp, assignors.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Motors Research Corporation. (See Kettering, Charles F., assignor.)
General Railway Signal Company. (See Henry, William S., assignor.)
General Railway Signal Company. (See Reichard, Wade H., assignor.)
General Railway Signal Company. (See Wenholz, Walter W., assignor.)
General Tire and Rubber Company, The. (See Denmire, Harold A., assignor.)
General Tire & Rubber Company, The. (See Remark, Isidore J., assignor.)
Geneva Heater Company. (See Lyons, Harry J., assignor.)
Genung, Gilbert, Chicago, assignor to J. M. Humiston, Berwyn, Ill. Earth-boring machine. 1,663,833; Mar. 27.
Gero, William B., East Orange, N. J., assignor to Westinghouse Lamp Company. Refractory material and the activation thereof. 1,663,547; Mar. 27.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Osnos, M., and Kummich, assignors.)
Gibson, William A., and J. G. Burke, assignor to Bradley Pulverizer Company, Allentown, Pa. Centrifugal grinding mill. 1,663,881; Mar. 27.
Giesecke, William E., assignor to Charles T. Wilson Company, Inc., New York, N. Y. Nut-cracking machine. 1,663,980; Mar. 27.
Gilchrest, George I., Derry, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,664,208; Mar. 27.
Gilchrist, William A., New York, N. Y. Furnace. 1,664,029; Mar. 27.
Glassler, Emile. (See Steffen, Henri, assignor.)
Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,663,588; Mar. 27.
Gloekler, John E., Pittsburgh, Pa., Metal table top. 1,664,292; Mar. 27.
Goforth, Charles F., Lemoore, Calif. Automatic oiler. 1,663,981; Mar. 27.
Goodall, Fred, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-ring remover for use in tire factories. 1,663,697; Mar. 27.
Goodman, Joseph, Whitneyville, assignor to The Mt. Carmel Mfg. Co., Mount Carmel, Conn. Door handle. 1,663,938; Mar. 27.
Goodrich, B. F., Company, The. (See Gammeter, John E., assignor.)
Goodrich, B. F., Company, The. (See Goodwin, John O., assignor.)
Goodwin, John O., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube-making apparatus. 1,663,756; Mar. 27.
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pick and pick motion for box looms. 1,663,939; Mar. 27.
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Cutting and clamping mechanism for picks and pick looms. 1,663,941; Mar. 27.
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Color indicator for weft-replenishing looms. 1,663,942; Mar. 27.
Gordon, Albert A., and A. F. Morrell, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Revoking mechanism for automatic looms. 1,663,940; Mar. 27.
Gore, Thomas, Brooklyn, N. Y. Rope. 1,663,589; Mar. 27.
Goss, Byron C., Cleveland, Ohio. Fountain-pen-shaped pistol. 1,663,834; Mar. 27.
Goss, Oliver P. M., Seattle, Wash., and R. H. Rawson, Portland, Oreg. Economically drying by air circulation. 1,66,982; Mar. 27.
Gossling, Walter E., Indianapolis, Ind., assignor, by mesne assignments, to Presto-O-Lite Storage Battery Corporation. Spacing and supporting bridge for storage battery plates. 1,663,698; Mar. 27.
Gould, Edwin J., Oakland, Calif. Automatic adjusting mechanism. 1,663,882; Mar. 27.
Gourdon, Georges, Malakoff, France. Electrically-controlled measuring device. 1,663,590; Mar. 27.
Govin, Nick. (See Corbiere, Joseph, assignor.)
Graham, B. R., et al. (See Peaden, William H., assignor.)
Grainger, Reid B., Redondo Beach, Calif., assignor to Elliott Core Drilling Company. Standard tool core drill. 1,663,757; Mar. 27.
Grasselli Dyestuff Corporation. (See Neelmeier, W., and Schneider, assignors.)
Grasselli Dyestuff Corporation. (See Wahl, Ottmar, assignor.)
Gravell, James H., Elkins Park, Pa. Method of and apparatus for electric-resistance welding. 1,664,030; Mar. 27.
Gray, Ellsworth, assignor to Gray Tool Company, Houston, Tex. Dump bucket and bailer. 1,663,591; Mar. 27.
Gray Tool Company. (See Gray, Ellsworth, assignor.)
Green, Edward W., London, England. Separating liquids of different specific gravities. 1,663,651; Mar. 27.
Greenwich, John, Fernwood, Idaho, Torpedo guard. 1,664,167; Mar. 27.
Grout, Albert, Sault Ste. Marie, Mich. Excavating bucket. 1,664,359; Mar. 27.
Gruse, William A., Wilkinsburg, and W. F., Faragher, assignors to Gulf Refining Company, Pittsburgh, Pa. Process of and apparatus for recovering paraffin. 1,663,592; Mar. 27.
Gubitosi, Sabino, Brooklyn, N. Y. Sectional lasts. 1,664,293; Mar. 27.
Guernsey, Charles O., Philadelphia, Pa. Reversing mechanism. 1,664,209; Mar. 27.
Gugler, Eric, New York, N. Y. Compartment-conveyance construction. 1,664,294; Mar. 27.
Gulbenkian Seamless Rug Company. (See Smith, William E., assignor.)
Gulf Refining Company. (See Gruse, W. A., and Faragher, assignor.)
Gundlach, Henry S., Baltimore, Md., assignor to Thomas Oil By-Products Company. Bituminous emulsion. 1,663,652; Mar. 27.
Günzler, Heinrich, and O. Neubert, Elberfeld, near Cologne, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Disinfecting and insecticidal agent. 1,663,883; Mar. 27.
Guth, Edwin F., Company, The. (See Guth, Oscar D., assignor.)
Guth, Edwin F., St. Louis, Mo. Lighting fixture. Des. 74,790; Mar. 27.
Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,663,653; Mar. 27.
Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,663,654; Mar. 27.
Guth, Edwin F., St. Louis, Mo. Lighting fixture for surgical operating room. 1,663,656; Mar. 27.
Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,663,657; Mar. 27.
Guth, Oscar D., assignor to The Edwin F. Guth Company, St. Louis, Mo. Supporting means for lighting fixtures. 1,663,655; Mar. 27.
Gwisdalla, Peter, Detroit, Mich. Oyster opener. 1,663,758; Mar. 27.
Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lamp support. Des. 74,791; Mar. 27.
Hakemeyer, Charles. (See Friede, S. M., and Hakemeyer.)
Hall, Arthur P., West Newton, Mass. Filtering device. 1,664,252; Mar. 27.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Vibration recorder. 1,664,210; Mar. 27.
Hall, George S., Chico, Calif. Gas furnace. 1,663,835; Mar. 27.
Hall, Nathaniel, Annapolis, Md. Carpet roller. 1,663,836; Mar. 27.
Hall, Randolph F., Ithaca, N. Y., assignor of twenty-five one-hundredths to T. P. Hall, Wallingford, Conn., and twenty-five one-hundredths to A. E. Larsen, Bryn Athyn, Pa. Airplane. 1,664,295; Mar. 27.
Hall, Robert F., Schenectady, N. Y. Truck construction for electric locomotives. 1,663,548; Mar. 27.
Hall, Theodore P., et al. (See Hall, Randolph F., assignor.)
Hallman, Eldon D., Kitchener, Ontario, Canada. Reenforcing clip. 1,663,909; Mar. 27.
Ham, Jacob C., Grand Rapids, Mich. Pavement grinder. 1,663,759; Mar. 27.
Hamerstadt, William D., assignor to Rockwood Manufacturing Company, Indianapolis, Ind. Machine for die casting pulleys and the like. 1,664,296; Mar. 27.
Hamerstadt, William D., assignor to Rockwood Manufacturing Company, Indianapolis, Ind. Making pulleys. 1,664,360; Mar. 27.
Hamerstadt, William D., assignor to Rockwood Manufacturing Company, Indianapolis, Ind. Making split pulleys. 1,664,361; Mar. 27.
Hamilton, Hugh R., Webster, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,663,593; Mar. 27.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adlake Company. Vehicle ventilator. 1,663,630; Mar. 27.
Handy Governor Corporation. (See Handy, R. G., and Bull, assignors.)
Handy, Robert G., and A. A. Bull, assignors to Handy Governor Corporation, Detroit, Mich. Governor. 1,663,631; Mar. 27.
Hanna, David B., Chicago, Ill., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cage-making machinery. 1,664,211; Mar. 27.

Hans, Henry M., Fordyce, Nebr. Automatic centrifugal switch. 1,664,862; Mar. 27.
Hansen, Arthur, and L. Gaarder, Skotselven, Norway. Splint catcher. 1,663,699; Mar. 27.
Hansen, Henry, Bisbee, Ariz. Triple valve. 1,663,887; Mar. 27.
Hanson, Hans C., Albert Lea, Minn. Stove with float-operated shut-off valve. 1,663,700; Mar. 27.
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Predetermined-weight scale. 1,663,983; Mar. 27.
Harding, Frank E., assignor to Arlington Mills, Lawrence, Mass. Bobbin winder. 1,663,594; Mar. 27.
Harmon, Kenneth R., Norfolk, Va. Transmission mechanism. 1,663,838; Mar. 27.
Harper, Clarence F., Harper, Tex. Magneto-coil-aligning tool. 1,663,595; Mar. 27.
Harris, Thomas S., assignor to The Ayer Company, Lowell, Mass. Scalp-treating appliance. 1,664,168; Mar. 27.
Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Device for the transmission of vibratory energy. 1,663,884; Mar. 27.
Harrold, Edward T., Binghamton, assignor to M. S. Hotchkiss, Johnson City, N. Y. Curb form. 1,664,169; Mar. 27.
Harshberger, Norman P., Chicago, Ill. Shingle. 1,663,658; Mar. 27.
Hart, Henry R., Montclair, and K. Fitzpatrick, Princeton, N. J.; said Fitzpatrick assignor to said Hart. Tackling dummy. 1,663,659; Mar. 27.
Hart, Thomas B., Libow, W. Va., assignor of one-half to Blackford Window Glass Company, Vincennes, Ind. Glass furnace. 1,663,839; Mar. 27.
Hartford-Empire Company. (See Steimer, Theodore C., assignor.)
Hartmann, Julius F. G. P., Copenhagen, Denmark. Electric jet-wave commutator and interrupter. 1,664,031; Mar. 27.
Hartmann, Otto H., assignor to Schmidt'sche Heissdampf G. m. b. H., Cassel-Wilhelmshohe, Germany. Water-tube boiler. 1,663,910; Mar. 27.
Harvey, William H., Water Valley, Miss. Casing spear. 1,664,363; Mar. 27.
Haskell, Broderick, Franklin, Pa. Railroad tie. 1,663,984; Mar. 27.
Haumann, George, Painesville, assignor to The P. A. Geier Company, Cleveland, Ohio. Drive mechanism for polishing lathes. 1,663,596; Mar. 27.
Havelick, Frank J., assignor to S. M. Havelick, Billings, Mont. Siphon. 1,663,840; Mar. 27.
Havelick, Sara M. (See Havelick, Frank J., assignor.)
Hawkinson, Emil E., South Bend, Ind., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method of and machine for making magnet-coil cores. 1,664,212; Mar. 27.
Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Gas-cleaning apparatus. 1,663,597; Mar. 27.
Haymond, Luella, Salt Lake City, Utah. Polygonal device for abdominal rupture. 1,663,798; Mar. 27.
Hays, William L., Sterling, Colo. Air-operated power generator. 1,663,943; Mar. 27.
Haywood, Allen T., East Cleveland, Ohio. Stepladder. 1,664,073; Mar. 27.
Heald, James N., Worcester, A. Turner, Shrewsbury, and G. C. Kimmel, Springfield, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,663,760; Mar. 27.
Heald Machine Company, The. (See Heald, J. N., Turner, and Kimmel, assignors.)
Heath, Harry C., assignor to Household Necessity Company, San Francisco, Calif. Washing apparatus. 1,663,911; Mar. 27.
Hedges, Edward G., Newark, N. J. Flush valve. 1,663,701; Mar. 27.
Hefferman, Cornelius D., Cleveland, Ohio. Hose reel. 1,664,074; Mar. 27.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,663,985; Mar. 27.
Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Revolving-hook machine. 1,664,082; Mar. 27.
Hendry, William F., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Electric bell. 1,664,107; Mar. 27.
Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Aeroplane guiding light. 1,664,170; Mar. 27.
Henninger, James A., Roundup, Mont. Attachment for disk harrows. 1,664,075; Mar. 27.
Henry, William S., assignor to General Railway Signal Company, Rochester, N. Y. Block-signal system for railroads. 1,664,108; Mar. 27.
Hickok, C. F., Co. (See Bier, Lizzie M., assignor.)
Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Hicks, William W. (See Kercher, A. J., and Hicks.)
Hicks, William W., San Francisco, Calif. Electrical baseboard heater. 1,664,171; Mar. 27.
Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Lamp-stem holder. 1,663,550; Mar. 27.
Higgins, John J., East Orange, and M. A. Hoyt, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Coil-winding machine. 1,663,549; Mar. 27.
Hilfiker, Clara. (See Ament, L. C., and Hilfiker.)
Hill, Roy W., trustee. (See Kessler, Louis, assignor.)
Himes, William D., assignor to Los Angeles Manufacturing Company, Los Angeles, Calif. Pipe coupling. 1,663,702; Mar. 27.
Himmer, Vitalis, Mountain Lakes, N. J. Loud speaker. Des. 74,792; Mar. 27.
Hinchliffe, James C., jr. (See Vanderput, Anthony, assignor.)
Hoe, R., & Co. (See Schmidt, Louis A., assignor.)
Hoeschen, Henry A., and J. D. Wear, Omaha, Nebr. Lock. 1,664,213; Mar. 27.
Hohnhorst, Ferdinand J., and F. J. Kroeger, Covington, Ky. Mechanism for truing and dressing grinding wheels. 1,663,703; Mar. 27.
Holland, Newman H., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,663,885; Mar. 27.
Hollenback, George M., assignor of one-half to D. W. McLean, Los Angeles, Calif. Sterilizer. 1,663,841; Mar. 27.
Holler, John R., Ellwood City, Pa. Insulator. 1,664,172; Mar. 27.
Hollerbach, John, et al. (See Bender, Frank J., assignor.)
Holliday, J. Margaret, administratrix. (See Loughridge, M. H., and Holliday.)
Holliday, John S., deceased. (See Loughridge, M. H., and Holliday.)
Holmes, Edward L., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y. Alternating-current relay. 1,663,551; Mar. 27.
Holmes, Edward L., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y. Electrolytic rheostat. 1,663,552; Mar. 27.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,664,384; Mar. 27.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,664,385; Mar. 27.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,664,386; Mar. 27.
Holmes Navigating Apparatus Co. (See Holmes, Edward L., assignor.)
Holmquist, Oscar V., St. James, Minn. Measuring apparatus. 1,663,598; Mar. 27.
Holstein, Charles W., assignor to The Monarch-Welder Machine Company, Warren, Ohio. Electric-welding-machine attachment. 1,664,173; Mar. 27.
Holzmann, William L., North Freedom, Wis. Egg candler. 1,663,704; Mar. 27.
Hoopes, Washington I., jr., Brawley, Calif. Retaining device for doors. 1,664,174; Mar. 27.
Hopfelt, Robert, Hamburg, assignor to the firm Metallisator Berlin Aktien-Gesellschaft, Berlin-Neukolln, Germany. Preventing scorification of fire bars, grate surfaces, and the like. 1,663,944; Mar. 27.
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Horii, Shinjiro, Tokyo, Japan. Stencil sheet. 1,664,033; Mar. 27.
Hornberger, Earl J., Cleveland Heights, assignor to J. G. Oliver, doing business as Bardon and Oliver, Cleveland, Ohio. Automatic chuck and wire feed. 1,663,599; Mar. 27.
Hostettler, Leigh W., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Journal-box lid. 1,663,705; Mar. 27.
Hotchkiss, Mark S. (See Harrold, Edward T., assignor.)
Hottinger, Adolph F., assignor to Chicago Crucible Company, Chicago, Ill. Refractory article and making same. 1,663,660; Mar. 27.
Hough, William S. (See Thompson, J. A., and Hough.)
Household Necessity Company. (See Heath, Harry C., assignor.)
Houseman, Harold E., Edge Moor, Del. Hosiery-drying form. 1,663,706; Mar. 27.
Howard, Charles R., and R. W. Wagner, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Color indication for multicolor-weft-replenishing looms. 1,663,945; Mar. 27.
Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Valve for internal-combustion engines. 1,664,375; Mar. 27.
Howden, William N., San Pedro, Calif. Article holder. 1,664,109; Mar. 27.
Hoy, Frank P. (See Ayotte, Joseph R., assignor.)
Hoyt, Fred L., assignor of one-third to C. S. Sloan, sr., and one-third to J. S. King, Denver, Colo. Retort. 1,663,912; Mar. 27.
Hoyt, Milton A. (See Higgins, J. J., and Hoyt.)
Hudson, Ida G., Oklahoma City, Okla. Undergarment construction. 1,664,214; Mar. 27.
Hughes, James W., assignor to Provident Trust Company of Philadelphia, Philadelphia, Pa. Power-transmission mechanism. 1,664,253; Mar. 27.
Humiston, John M. (See Genung, Gilbert, assignor.)

Humphrey, Raymond L., Los Angeles, Calif. Template for doors and windows. 1,664,076; Mar. 27.
Hunt, Lloyd F., Los Angeles, Calif., assignor to Westinghouse Electric & Manufacturing Company. Annunciator relay. 1,664,215; Mar. 27.
Huntar, Felix, Hillside, N. J., assignor to American Can Company, New York, N. Y. Double-seaming machine. 1,663,842; Mar. 27.
Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,663,986; Mar. 27.
Huseman, Arthur W. and T. A. Leonard, Chicago, Ill. Coating manufactured products. 1,664,034; Mar. 27.
Hutches, Benjamin F., jr., Allendale, N. J. Indicating means. 1,663,661; Mar. 27.
Hydorn, George W., Los Angeles, Calif. Comb. 1,663,632; Mar. 27.
I. G. Farbenindustrie Aktiengesellschaft. (See Mittasch, A., Müller, and Schubardt, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ströder, Eugen, assignor.)
Ileman, Emil A., Queens, N. Y., assignor to American Schaeffer and Budenberg Corporation. Hygrometer apparatus. 1,664,035; Mar. 27.
Ilg Electric Ventilating Company. (See Weaver, L. C., and Rietz, assignors.)
Imig, Philip, Minier, Ill. Three-row corn husker. 1,663,843; Mar. 27.
Individual Drinking Cup Company. (See Johnson, Joseph, assignor.)
International Motor Company. (See Froesch, Charles, assignor.)
International Motor Company. (See Masury, A. F., and Froesch, assignors.)
Iredell, Charles V., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electron-emitting material. 1,663,553; Mar. 27.
Irvin, William A., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Rolling-mill appliance. 1,663,844; Mar. 27.
Irvington Auto Products Corporation. (See Therasse, Jules A., assignor.)
Jablonski, Anthony B. (See Almquest, M. N., and Jablonski.)
Jacobi, Edward N., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Lighting and ignition switch. 1,664,110; Mar. 27.
Jacobi, Karl J., Roselle, N. J., assignor to Pacific Coast Borax Company, New York, N. Y. Heat treatment of alloys. 1,664,175; Mar. 27.
Jacoby, Raymond W., Forest Hills, N. Y., assignor to The Deltex Co. Treating printed or dyed fabrics. 1,663,845; Mar. 27.
Jacoby, Raymond W., Providence, R. I., assignor to The Deltex Company. Apparatus for treating printed or dyed fabrics. 1,663,846; Mar. 27.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,664,216; Mar. 27.
Jamieson, Charles M., assignor, by mesne assignments, to Brogdex Company, Winter Haven, Fla. Apparatus for coating articles. 1,663,987; Mar. 27.
Jarvis, Charles H., assignor to United Steel & Wire Company, Battle Creek, Mich. Display rack. 1,664,036; Mar. 27.
Jencick, Stephen, Chagrin Falls, Ohio. Indicating device for internal-combustion engines. 1,663,600; Mar. 27.
Jeney, Mihaly, and P. Orban, New York, N. Y. Automatic railroad safety signal device. 1,664,297; Mar. 27.
Jennings, Victor H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detector-with-drawing means. 1,663,946; Mar. 27.
Jensen, Kreston R. (See Jensen, William G. and K. R.)
Jensen, William G. and K. R., Newata, Okla. Pump jack. 1,664,364; Mar. 27.
Jessen, Charles C., assignor to Napon Rayon Corporation, Clifton, N. J. Spinning pot. 1,663,555; Mar. 27.
Jewell Electrical Instrument Company. (See Miller, John H., assignor.)
Johancen, Thomas, Linthicum Heights, and E. Kehoe, Baltimore, Md. Paper-web-connecting mechanism for printing presses. 1,664,176; Mar. 27.
Johnson, Carl S., Butte, Mont. Tub cover. 1,663,968; Mar. 27.
Johnson, George A., Pomeroy, Iowa. Surgical instrument. 1,663,761; Mar. 27.
Johnson, Joseph, New York, N. Y., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Paper cup or similar article. Des. 74,793; Mar. 27.
Johnson, Louie, Presho, S. Dak. Attachment for lister cultivators. 1,664,254; Mar. 27.
Johnson, Otto. (See Carlson, W. G., and Johnson.)
Johnson, William C., Bethel, assignor to The Clark Box Company, Danbury, Conn. Forming hat-packing rings. 1,663,762; Mar. 27.
Johnson, William C., Bethel, assignor to The Clark Box Company, Danbury, Conn. Method of and machine for curling hat stays. 1,663,763; Mar. 27.
Johnson, William M., assignor to The W. H. Marvin Company, Urbana, Ohio. Carton. 1,664,111; Mar. 27.
Jones, Frank S., Philadelphia, Pa. Metal-cutting machine. 1,663,556; Mar. 27.
Jones, Harry C., Larchmont, assignor to Lithoprintex Corporation, New York, N. Y. Photographic-printing frame. 1,663,662; Mar. 27.
Jordan, Isaac N., assignor to Armour & Company, Chicago, Ill. Processing of meats. 1,663,707; Mar. 27.
Judd, Richard M., E. C. Taylor, and R. S. McNaney, assignors to Premier Warm Air Company, Dowagiac, Mich. Warm-air furnace. 1,663,633; Mar. 27.
Jump, Samuel C. (See Morgan, John H., assignor.)
Jünemann, August, Wittenberge, Germany. Surgical forceps. 1,664,112; Mar. 27.
Junkunc, John, Chicago, Ill. Cylinder padlock. 1,663,799; Mar. 27.
Kaisha, Saibi M. K. (See Kakuda, Saibei, assignor.)
Kakuda, Saibei, assignor to S. M. K. Kaisha, Fukuyama-Shi, Japan. Reed for net-making machines. 1,664,118; Mar. 27.
Kamen, John F., River Forest, Ill. Wireworking machine. 1,663,663; Mar. 27.
Kappenberg, August, New York, N. Y. Smoker's stand. 1,663,601; Mar. 27.
Katolin, Rudolf F., Los Angeles, Calif. Grade indicator. 1,664,365; Mar. 27.
Katz, Samuel, New York, N. Y. Sanitary-napkin holder. 1,664,298; Mar. 27.
Katzenmoyer, Harry E., Reading, Pa., assignor to Scott and Williams, Inc., New York, N. Y. Circular-knitting machine. 1,664,299; Mar. 27.
Kautzky, Joe, jr., Fort Dodge, Iowa. Free-spool level-wind fish reel. 1,663,800; Mar. 27.
Kautzky, Joe, jr., Fort Dodge, Iowa. Free-spool level-wind fish reel. 1,663,801; Mar. 27.
Keeler, Henry C., Ritzel, assignor to A. C. Clark, Seattle, Wash. Book strap. 1,663,708; Mar. 27.
Kehoe, Edward. (See Johancen, T., and Kehoe.)
Kelley, George L., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Soundproofing metallic structure. 1,664,114; Mar. 27.
Kelly, Bert F., assignor to Parts Corporation, Indianapolis, Ind. Silvering and beveling small mirrors. 1,664,300; Mar. 27.
Kelly, John B., Harlingen, Tex. Scale. 1,664,217; Mar. 27.
Kemp, William E., New York, N. Y. Combination exhaust and intake manifold. 1,663,634; Mar. 27.
Kendall, William G., Newark, N. J. Compact holder and ejector. 1,664,301; Mar. 27.
Kennedy, James S., Yonkers, N. Y., assignor to The Bartlett Hayward Company. Valve-operating mechanism. 1,663,557; Mar. 27.
Kent, Robert J. (See Bender, H. D., and Kent.)
Kenyon, Clarence, jr., New York, N. Y. Overshoe. 1,664,115; Mar. 27.
Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric heater. 1,664,177; Mar. 27.
Kesler, Carl C., Pittsburgh, Pa., assignor to Pine Institute of America, Incorporated, Jacksonville, Fla. Making rosin soap. 1,663,764; Mar. 27.
Kessler, Louis, Chicago, Ill., assignor to R. W. Hill, trustee. Tank-filling tube. 1,663,947; Mar. 27.
Ketchpel, Paul A. (See Lower, N. M., and Ketchpel.)
Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Cooling device for valves and the like. 1,663,709; Mar. 27.
Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Fuel-supply system. 1,664,366; Mar. 27.
Kimble Glass Company. (See Broche, Leon J., assignor.)
Kimmel, George C. (See Heald, J. N., Turner, and Kimmel.)
King, John S., et al. (See Hoyt, Fred L., assignor.)
Knapp, Walter H., assignor to The Wilder-Strong Implement Company, Monroe, Mich. Pavement felt holder. 1,664,037; Mar. 27.
Knierieman, George, Atco, N. J. Alcohol lamp. 1,664,077; Mar. 27.
Koch, Jacob M. (See Varner, H. C., and Koch.)
Kopatschek, Karl, Berlin-Wilmersdorf, Germany. Alarm clock. 1,663,710; Mar. 27.
Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Gas retort. 1,663,847; Mar. 27.
Kortenhoeven, Peter, Chicago, Ill. Car tank. 1,664,116; Mar. 27.
Koske, Mike, McCloud, Calif. Combination tool. 1,663,848; Mar. 27.
Kratochvil, Emanuel, Chicago, Ill. Tobacco pipe. 1,664,117; Mar. 27.
Kroder, John, and Henry Reubel Company, The. (See Crawford, James O., assignor.)
Kroeger, Ferdinand J. (See Hohnhorst, F. J., and Kroeger.)
Küchenmeister, Heinrich J., Berlin, Germany. Phonograph. 1,663,664; Mar. 27.
Kummich, Richard. (See Osnos, M., and Kummich.)
Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or similar material. Des. 74,794. Mar. 27.
Laemmle, George J., New Rochelle, assignor to Barnet Leather Company, Inc., New York, N. Y. Dyeing fur pelts. 1,663,849; Mar. 27.
Laemmle, George J., New Rochelle, assignor to Barnet Leather Company, Inc., New York, N. Y. Stencil dyeing designs on fur pelts. 1,663,850; Mar. 27.
Lafferior, Nelson A. (See Lafferior, Ollie L., and N. A.)

Lafferior, Ollie L., Minneapolis, and N. A. Lafferior, Argyle, Minn. Washing machine. 1,664,118; Mar. 27.
Laler, Jerome M., Burlingame, Calif., assignor, to Chas. Cory & Son, Incorporated, New York, N. Y., Electrical apparatus. 1,663,711; Mar. 27.
Lambert, Russell A., Springfield, Mass. Display box. 1,663765; Mar. 27.
Landis & Gyr A.-G. (See Maurer, Franz, assignor.)
Landis, George W., Stilwell, Kans. Wire reel. 1,663,766; Mar. 27.
Lang, Henry T., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Bearing construction for vacuum-cleaner brushes and the like. 1,664,218; Mar. 27.
Langridge, Archie W. (See McLaughlan, N. W., and Langridge.)
Langston, Samuel M., Co. (See Langston, S. M., and Sieg, assignors.)
Langston, Samuel M., Wenonah, and K. Sieg, Brooklawn, assignor to Samuel M. Langston Co., Camden, N. J. Cut-off-controlling mechanism. 1,664,119; Mar. 27.
Laporte, Paul C., Clair, New Brunswick, Canada. Winter traction equipment for motor vehicles. 1,663,948; Mar. 27.
Larsen, Agnew E., et al. (See Hall, Randolph F., assignor.)
Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Car, air, and electric coupler system. 1,663,802; Mar. 27.
Latour Corporation. (See Latour, Marius, assignor.)
Latour, Marius, San Sebastian, Spain, assignor to Latour Corporation, Jersey City, N. J. Wave signaling system. 1,663,712; Mar. 27.
Laubach, Howard M., Omaha, Nebr. Ear-forming apparatus for pop corn. 1,664,120; Mar. 27.
Lavery, John F., Greenfield, Ohio. Broadcast fertilizer distributor. 1,664,078; Mar. 27.
Lawner, Nicholas, Brooklyn, N. Y., assignor to American Sundries Co. Inc. Electric heater. 1,663,558; Mar. 27.
Lawton, Andrew S., assignor to Mawhinney Last Company, Brockton, Mass. Portable wardrobe. 1,663,949; Mar. 27.
Leahy, Herbert V., Los Angeles, Calif. Fluid-fuel furnace. 1,663,713; Mar. 27.
Lecuivre, Vital A. (See Talbot, L. J. B., and Lecuivre.)
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Removable cushion for vehicles. 1,664,121; Mar. 27.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,664,122; Mar. 27.
Lee, Nelson J., Baltimore, Md. Brick. 1,664,219; Mar. 27.
Lefew, Chester M., Huddy, Ky. Railway-frog point. 1,663,714; Mar. 27.
Leonard, Thomas A. (See Huseman, A. W., and Leonard.)
Leopold, Fred, S. E. Claney, and L. K. Garis, Pittsburgh, Pa. License-plate holder. 1,664,302; Mar. 27.
Leroudier, Henri, Lyon-Villeurbanne, France. Manufacture of oleomargarine. 1,663,913; Mar. 27.
Lesser, Albert D., New York, N. Y. Cap. 1,664,255; Mar. 27.
Lewis, Thomas J., New York, N. Y. Bath-salt bottle. Des. 74,795; Mar. 27.
Lewis, Winford L., Evanston, Ill., assignor by mesne assigments to Parke, Davis & Company, Detroit, Mich. Production of derivatives of arsanilic acids. 1,664,123; Mar. 27.
Libby, McNeill & Libby. (See Nevills, John J., assignor.)
Libby-Owens Sheet Glass Company, The. (See Ferngren, Enoch T., assignor.)
Liljenroth, Frans G., Stockholm, Sweden. Oxidizing ammonia by means of oxygen. 1,663,914; Mar. 27.
Linaker, Frederick W., and T. M. Bruback, Du Bois, Pa. Boiler soot cleaner. 1,663,851; Mar. 27.
Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Clutch construction. 1,663,803; Mar. 27.
Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,664,256; Mar. 27.
Linton, Chester A., Kansas City, Mo. Phonograph sound amplifier. 1,663,989; Mar. 27.
Lithoprintex Corporation. (See Jones, Harry C., assignor.)
Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
Locomotive Stoker Company. (See Lower, N. M., and Ketchpel, assignors.)
Loewe, Siegmund, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for telephony. 1,664,220; Mar. 27.
Loomis, Alfred L., Tuxedo Park, assignor to R. W. Byerly, New York, N. Y. Fire extinguisher, container for fire-extinguishing liquids and other fluids, and making the same. 1,663,665; Mar. 27.
Lorenz, John M., Los Angeles, Calif. Glare shield. 1,664,124; Mar. 27.
Lorriman, Frederick R. (See Calcott, W. S., Parmelee, and Lorriman.)
Los Angeles Manufacturing Company. (See Himes, William D., assignor.)
Loughridge, Matthew H., Bogota, N. J., and J. S. Holliday, deceased, New York, N. Y.; J. M. Holliday, administratrix. Radio apparatus. 1,663,685; Mar. 27.
Lower, Nathan M., and P. A. Ketchpel, Pittsburgh, Pa., assignors to Locomotive Stoker Company. Stoker. 1,663,636; Mar. 27.
Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Stoker. 1,663,637; Mar. 27.
Lowrey, John R., San Francisco, Calif. Hose coupling. 1,664,125; Mar. 27.
Luce Cane Harvester Corporation. (See Flynn, Francis K., assignor.)
Lugt, Gerard J., assignor to Naamlooze Vennootschap Nederlandsche Fabriek van Werktuigen en Spoorwegmaterieel genaamd "Werkspoor," Amsterdam, Netherlands. Scavenging device for double-acting two-stroke internal-combustion engines. 1,663,638; Mar. 27.
Luke, Edwin H. (See Dietz, Frank L., assignor.)
Lusebrink, Wilhelm. (See Ernestus, C., and Lusebrink.)
Lutch, Anthony F., Hays, Pa. Hammer. 1,663,886; Mar. 27.
Lyndon, Edward, New York, N. Y. Electric-battery container. 1,663,887; Mar. 27.
Lyons, Arthur C., Brantford, Ontario, Canada. Washing-machine wringer. 1,663,767; Mar. 27.
Lyons, Harry J., assignor to Geneva Heater Company, Geneva, Ill. Automatic water heater. 1,663,559; Mar. 27.
Mack, Joseph, assignor to Elias Reiss and Company, New York, N. Y. Textile fabric. Des. 74,796; Mar. 27.
Mack, Joseph, assignor to Elias Reiss and Company, New York, N. Y. Textile fabric. Des. 74,797; Mar. 27.
Mack, Maggie. (See Mack, Sebastian, assignor.)
Mack, Sebastian, assignor to M. Mack, Minneapolis, Minn. Signal for automobiles. 1,663,715; Mar. 27.
Mackie, Mitchell, Waukesha, assignor to Mitchell Mackie Company, Milwaukee, Wis. Carburetor attachment. 1,663,804; Mar. 27.
Macleod, Donald K., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Forming machine for plastic materials. 1,664,178; Mar. 27.
MacTaggart, Andrew M. (See Owen, Dudley, assignor.)
Madsen, Martin, Monterey Park, Calif. Oil and gas burner. 1,663,667; Mar. 27.
Magrisso, Rafael, New York, N. Y. Soldering iron. 1,664,367; Mar. 27.
Mangiaracina, Giorgio, Brooklyn, N. Y. Safety device for gas meters. 1,664,179; Mar. 27.
Manhattan Electrical Supply Company. (See Hendry, William F., assignor.)
Mann, Joseph, Philadelphia, Pa., assignor to Union Special Machine Company, Chicago, Ill. Center-plait folder. 1,664,079; Mar. 27.
Mann, Richard E., New Brighton, N. Y. Thermometer. Des. 74,798; Mar. 27.
Mapson, Robert L., Los Angeles, Calif. Ornamental iron stair-rail structure. 1,664,080; Mar. 27.
Marbelite Corporation of America. (See Barkschat, Henry, assignor.)
Marnell, Joseph A., Flint, Mich. Clamp. 1,663,602; Mar. 27.
Marohn, Albert H. F., Hamburg, Germany. Cupboard. 1,663,990; Mar. 27.
Martin, George C., Los Angeles, Calif. Device for forming slabs. 1,663,805; Mar. 27.
Martin, Jesse C., jr., San Francisco, assignor to J. Morris, Los Angeles, Calif. Boiler. 1,663,806; Mar. 27.
Marvin, W. H., Company, The. (See Johnson, William M., assignor.)
Mason, Arthur C., Hawthorne, N. J. Cloth-inspecting machine. 1,664,368; Mar. 27.
Massey-Harris Harvester Company. (See Baseman, Ernest, assignor.)
Masury, Alfred F., and C. Froesch, assignors to International Motor Company, New York, N. Y. Power-plant mounting. 1,664,040; Mar. 27.
Matheson, Donald E. (See Matheson, James H., assignor.)
Matheson, James H., Wyomissing, assignor to D. E. Matheson, Edgewood, Pa. Apparatus for making lap-welded tubes. 1,664,379; Mar. 27.
Matthews, Howard D., and R. F. Bisbee, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Testing electric heating devices. 1,664,221; Mar. 27.
Maude, William, Fergus, Ontario, Canada. Stool. 1,663,603; Mar. 27.
Maurer, Franz, assignor to the firm Landis & Gyr A.-G., Zug, Switzerland. Chart-recording meter. 1,663,807; Mar. 27.
Maurer, Jakob, Konstanz, Germany. Process and device for operating upon human teeth. 1,664,369; Mar. 27.
Mawhinney Last Company. (See Lawton, Andrew S., assignor.)
Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
Maxwell, John S., assignor to Starr Piano Company, Richmond, Ind. Pneumatic action. 1,664,041; Mar. 27.
Mayer, Fred W., Chicago, Ill. Gear-ratio-changing mechanism. 1,664,803; Mar. 27.
Mayers, Wilbur S., Fairmont, W. Va. Universal sand damper for hot-gas conduits. 1,663,915; Mar. 27.

McCathron, Claude B., assignor to Josiah Anstice & Co. Inc., Rochester, N. Y. Vegetable-peeling machine. 1,664,304; Mar. 27.
McCleary, Harry C., Washington, D. C. Supporting unit for vehicles. 1,664,305; Mar. 27.
McConkey, Montgomery W., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,664,180; Mar. 27.
McCullough, Craig, Seattle, Wash. Golf-club-grip guide. 1,664,257; Mar. 27.
McEwing, Luther B., Chicago, Ill. Projection apparatus. 1,664,038; Mar. 27.
McGinley, Edward W., Philadelphia, Pa. Locking mechanism. 1,664,042; Mar. 27.
McLachlan, Norman W., Newcastle-upon-Tyne, and A. W. Langridge, Shipley, England, assignors to Radio Corporation of America. Wireless-telegraph receiving apparatus. 1,664,039; Mar. 27.
McLean, David W. (See Hollenback, George M., assignor.)
McMillan, William P., Punta Gorda, Fla. Garden hoe. 1,663,716; Mar. 27.
McNamara, James G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,664,258; Mar. 27.
McNaney, Ralph S. (See Judd, B. M., Taylor, and McNaney.)
Means, Reuben L., Valentine, Tex. Combination tool. 1,664,081; Mar. 27.
Meisekothen, Edwin E., assignor to French Battery Company, Madison, Wis. Dry-battery construction. 1,664,126; Mar. 27.
Meister, George W., Irvington, N. J., assignor to Westinghouse Lamp Company. Filament for incandescent lamps. 1,663,560; Mar. 27.
Mergenthaler Linotype Company. (See McNamara, James G., assignor.)
Metallisator Berlin Aktien-Gesellschaft. (See Hopfelt, Robert, assignor.)
Metropolitan-Vickers Electrical Company Limited. (See Robinson, E. Y., and Brown, assignors.)
Mettler, William E. (See Ziganek, F., and Mettler.)
Meyerhofer, Albert F. (See Buchner, Max, assignor.)
Meyer-Jagenberg, Günther, Dusseldorf, Germany. Paper-roll-wrapping machine. 1,663,554; Mar. 27.
Meyer, John F. (See Fleischer, Charles, assignor.)
Meyer, Raymond B., and L. C. Young, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. Signal-transmission system. 1,663,717; Mar. 27.
Meyers, Samuel A., San Francisco, Calif., assignor to Paramount Electric Mfg. Co. Snap switch. 1,664,380; Mar. 27.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Building tire casings. 1,664,259; Mar. 27.
Miehlke, Carl, Hartford, Wis. Automatic damper. 1,663,718; Mar. 27.
Miehle Printing Press & Manufacturing Company, The. (See Rich, F. E., and Burdick, assignors.)
Miehle Printing Press & Manufacturing Company. (See Zimniewicz, Anthony, assignor.)
Milam, William A., Austin, Tex. Plate valve. 1,664,306; Mar. 27.
Milburn, James M., and G. G. Filson, Los Angeles, Calif. Floor-screen-support device. 1,664,370; Mar. 27.
Mildon, Reginald B., Lansdowne, Pa., assignor to Riley Stoker Company. Underfeed furnace. 1,664,082; Mar. 27.
Millard, Herbert J., assignor to Frank Schoble & Co., Philadelphia, Pa. Perspirationproof device for hats, caps, and the like. 1,664,307; Mar. 27.
Miller, Frank P., Meadville, Pa. Rotary cutter. 1,664,083; Mar. 27.
Miller, George F. (See Tubbs, Ira I., assignor.)
Miller, George J., Douglas, Ariz. Manufacturing stuffing. 1,663,852; Mar. 27.
Miller, John H., Oak Park, assignor to Jewell Electrical Instrument Company, Chicago, Ill. Electrical measuring instrument. 1,663,738; Mar. 27.
Miller, Kinney I., Lancaster, Mo. Shipping-box structure. 1,664,308; Mar. 27.
Mills, Keith S., Beaconsfield, England. Apparatus for intermittently introducing substances into solutions and withdrawing them therefrom and for analogous purposes. 1,664,127; Mar. 27.
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Minneapolis-Honeywell Regulator Company. (See Shivers, Paul F., assignor.)
Mitchell Mackie Company. (See Mackie, Mitchell, assignor.)
Mittasch, Alwin, and C. Müller, Mannheim, and W. Schubardt, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of pure iron. 1,663,916; Mar. 27.
Moen, John, Fosston, Minn. Chimney cleaner. 1,663,604; Mar. 27.
Moffett, Charles W., Flushing, and M. B. Briney, Brook Haven, assignors to Brinard Sales and Construction Company New York, N. Y. Switch heater. 1,664,371; Mar. 27.
Mohr, Wilhelm, Dolau, near Halle, Germany. Machine for dividing and working dough. 1,664,372; Mar. 27.
Monarch-Welder Machine Company, The. (See Holstein, Charles W., assignor.)
Montgomery Ward & Company. (See Tharp, Charles H., assignor.)
Moon, Sampson W., Chicago, Ill. Electric safety razor. 1,663,809; Mar. 27.
Moore, Henry A. (See Stuart, T. F., and Moore.)
Moorhead, Ernest C., Stamford, Conn. Apparatus for molding cores. 1,664,260; Mar. 27.
Morehouse, Eugene, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Joint member for pin stems. 1,663,605; Mar. 27.
Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Shoveling machine. 1,663,917; Mar. 27.
Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading machine. 1,664,128; Mar. 27.
Morgan, John H., assignor of one-half to S. C. Jump, East St. Louis, Ill. Rail-joint adjuster. 1,663,769; Mar. 27.
Morgan, John H., assignor of one-half to S. C. Jump, East St. Louis, Ill. Rail-joint adjuster. 1,663,770; Mar. 27.
Morgan, Olive E., executrix. (See Morgan, Edmund C.)
Morley, Joseph, assignor of five-sixteenths to R. A. Dallugge, Los Angeles, Calif. Making doughnuts and other food products. 1,663,719; Mar. 27.
Morrell, Alfred F. (See Gordon, A. A., and Morrell.)
Morris, John. (See Martin, Jesse C., jr., assignor.)
Morse, Sterne, Cleveland Heights, Ohio. Electric heater. 1,663,810; Mar. 27.
Morton, Edmund R. (See Stoller, H. M., and Morton.)
Moskovitz, Jacob, Middle Village, and W. Peretz, assignors to Maxwell Eisenstein, New York, N. Y. Windshield wiper. 1,663,666; Mar. 27.
Motor Valves, Inc. (See Washburne, William H., assignor.)
Mott, James H., Willmar, Minn. Ensilage cutter. 1,663,720; Mar. 27.
Mt. Carmel Mfg. Co., The. (See Goodman, Joseph, assignor.)
Mueller, George D., Akron, Ohio. Raincoat. 1,664,309; Mar. 27.
Mueller, John G., Dayton, Ohio. Railway-rail brace. 1,663,811; Mar. 27.
Müller, Carl. (See Mittasch, A., Müller, and Schubardt.)
Mullins, George W., and G. Squiers, Birmingham, England. Surface of roofs, walls, doors, panels, and other parts of buildings and structures. 1,664,261; Mar. 27.
Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Detachable handle for lubricating apparatus. 1,663,606; Mar. 27.
Murray, Frank G., Chicago, Ill. Coin-feeding mechanism. 1,664,310; Mar. 27.
Murray, Howard J., New York, N. Y., assignor to H. A. Douglas, Bronson, Mich. Control means. 1,663,721; Mar. 27.
Naamlooze Vennootschap: "De Komeet." (See van Haasteren, Johannes M., assignor.)
Naamlooze Vennootschap Nederlandsche Fabriek van Werktuigen en Spoorwegmaterieel genaamd "Werkspoor." (See Lugt, Gerard J., assignor.)
Naef, M., & Co. (See Ruzicka, Leopold, assignor.)
Napon Rayon Corporation. (See Jessen, Charles C., assignor.)
Nash, Ernest J., Detroit, Mich. Dishwasher. 1,664,084; Mar. 27.
National Grave Vault Co., The. (See Brick, Perry A., assignor.)
Nauer, Edward, San Francisco, Calif. Heater. 1,663,722; Mar. 27.
Naul, James M., Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electric power transmitter. 1,663,607; Mar. 27.
Naylon, Robert E., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Chuck. 1,664,085; Mar. 27.
Neelmeier, Wilhelm, Leverkusen, near Cologne, and H. Schneider, Stammheim, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Red disazo dyes for cotton printing. 1,663,950; Mar. 27.
Nelson, Oscar V., Racine, Wis. Window-screen frame. 1,664,311; Mar. 27.
Nenninger, Lester F., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless work guide. 1,663,991; Mar. 27.
Nessler, Charles, New York, N. Y. Hair curler. 1,663,771; Mar. 27.
Nessler Charles, New York, N. Y. Hair-winding means. 1,663,772; Mar. 27.
Neubert, Oskar. (See Günzler, H., and Neubert.)
Nevills, John J., Sacramento, Calif., assignor to Libby, McNeill & Libbey, Chicago, Ill. Fruit grader. 1,663,639; Mar. 27.
Newton, Albert E., Providence, assignor to The Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 74,799; Mar. 27.
Newton, Albert E., Providence, assignor to The Rhode Island Lace Works Inc., West Barrington, R. I. Lace. Des. 74,800; Mar. 27.

Newton, Walter M., assignor of one-half to J. W. Argo, Dover, Del. Fire-fighting apparatus. 1,663,608; Mar. 27.
Newville, George, Muskegon, Mich. Attachment for fishing reels. 1,663,853; Mar. 27.
Niclausse, Albert L. (See Niclausse, Elie P. J. and A. L.)
Niclausse, Elie P. J. and A. L., Paris, France. Cock and valve. 1,664,043; Mar. 27.
Nief, Frederick P., Union City, N. J. Hairpin. 1,663,854; Mar. 27.
Northwestern Expanded Metal Company. (See Dean, James H., assignor.)
N. V. Nederlandsche Instrumenten Compagnie. (See van den Bergh, Samuel J., assignor.)
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,663,992; Mar. 27.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,663,993; Mar. 27.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,663,994; Mar. 27.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Shock-absorbing mechanism. 1,664,312; Mar. 27.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,664,313; Mar. 27.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,664,314; Mar. 27.
O'Connor, John L., Portland, Me. Dividers. 1,663,855; Mar. 27.
Odell, William M. (See Royster, P. H., and Odell.)
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Larson, Ernst A., assignor.)
Ohio Brass Company, The. (See Macleod, Donald K., assignor.)
Oliver, John G. (See Hornberger, Earl J., assignor.)
Olsen Engine Syndicate Limited, The. (See Olsen, Simon D., assignor.)
Olsen, Simon D., assignor to The Olsen Engine Syndicate Limited, London, England. Two-stroke internal-combustion engine. 1,664,086; Mar. 27.
O'Neil, George D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electron-discharge device. 1,663,561; Mar. 27.
Orban, Paul. (See Jeney, M., and Orban.)
Orr, Robert P., Schenectady, N. Y. Chimney cap. 1,664,315; Mar. 27.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,664,387; Mar. 27.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,664,388; Mar. 27.
Osnos, Mendel, and R. Kummich, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Conductor for high-frequency work. 1,664,044; Mar. 27.
Ostand, Joseph, Cincinnati, Ohio. Aerial device. 1,663,728; Mar. 27.
Osten, William H., Clarwater, Fla., assignor of one-half to J. D. Stites, Long Island City, N. Y. Boat stabilizer. 1,663,885; Mar. 27.
Overman, George W. P., Norfolk, Va. Lifeboat-releasing device. 1,664,222; Mar. 27.
Owen, Dudley, West Smithfield, London, assignor of one-half to A. M. MacTaggart, London, England. Tin and like container. 1,664,181; Mar. 27.
Owens, Fred, Mount Vernon, Ky. Wiper. 1,664,316; Mar. 27.
Ozek, John. (See Palmer, Charles E., assignor.)
Pabodie, Robert J., Maywood, assignor of one-half to B. G. Richards, Western Springs, Ill. Heating system. 1,664,317; Mar. 27.
Pacific Coast Borax Company. (See Jacobi, Karl J., assignor.)
Pais, Alexander, assignor to T. Popescu, A. Pais, and C. Pais, Bucharest, Rumania. Heating device. 1,663,040; Mar. 27.
Pais, Alexander, et al. (See Pais, Alexander, assignor.)
Pais, Constantin, et al. (See Pais, Alexander, assignor.)
Pallenberg, Christian, assignor of one-half to E. Pallenberg, Clinton, Conn. Resilient seat mount. 1,664,129; Mar. 27.
Pallenberg, Emil. (See Pallenberg, Christian, assignor.)
Palmer, Charles E., assignor to J. Ozek, Marshfield, Oreg. Carburetor. 1,663,724; Mar. 27.
Palmer, David M. (See Falck, Fritz W., assignor.)
Paramount Electric Mfg. Co. (See Meyers, Samuel A., assignor.)
Parent, Cyrill, Andover, assignor to Crompton & Knowles Loom Works, Worchester, Mass. Support for loom picking spindles. 1,663,918; Mar. 27.
Parisi, Maurice, Corona, N. Y. Dental powder. 1,664,182; Mar. 27.
Parker, George M., St. Louis, Mo. Furnace wall. 1,663,773; Mar. 27.
Parker, George A., Brockton, Mass. Machine for punching staples and providing the same with wood-fiber insulation. 1,663,812; Mar. 27.
Parker, James D., Kansas City, Kans. Ventilating fan. 1,664,183; Mar. 27.
Parke, Davis & Company. (See Lewis, Winford L., assignor.)
Parkinson, John J., Chicago, Ill. Heating coil for hot-water systems. 1,663,562; Mar. 27.
Parmelee, Alfred E. (See Calcott, W. S., Parmelee, and Lorriman.)
Parts Corporation. (See Kelly, Bert F., assignor.)
Pass & Seymour, Inc. (See Russell, Mark N., assignor.)
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Orchard plow. 1,663,668; Mar. 27.
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Ridger. 1,663,813; Mar. 27.
Payman, Joseph B., and H. Wignall, assignors to British Dyestuffs Corporation Limited, Blackley, Manchester, England. Manufacture of sulphonamides of 2.3-hydroxynaphthoic arylides. 1,663,725; Mar. 27.
Payne, Halsey D., A. W. De Clerque, and S. T. Sjoberg, Chicago, Ill., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing machine with folding wringer. 1,664,223; Mar. 27.
Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Revoking means for regularly-actuated transferrer mechanism. 1,663,919; Mar. 27.
Payne, Oscar V., and R. G. Turner, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Give way for weft-replenishing mechanism. 1,663,951; Mar. 27.
Peabody, James C., Boston, Mass. Waterproof yarn and making same. 1,663,953; Mar. 27.
Peabody, Lloyd, Decatur, Ill. Bathing table for infants. 1,663,609; Mar. 27.
Peaden, William H., assignor to R. D. Donnelly and R. R. Graham, Tulsa, Okla. Faucet. 1,663,952; Mar. 27.
Peebles, Thomas A., Pittsburgh, assignor to J. M. Hopwood, Dormont, Pa. Fuel-supply system. 1,664,318; Mar. 27.
Pellerin, Augustin, Trouville, France. Manufacture of a cellulose product having the appearance of wool. 1,664,319; Mar. 27.
Pennsylvania Lawn Mower Works. (See Braun, William F. H., assignor.)
Perdoncini, Jean M. (See Dutel, E., and Perdoncini.)
Peretz, William. (See Moskovitz, J., and Peretz.)
Perfection Metal Container Company, The. (See Sens, John P., assignor.)
Perkins, Howard M., assignor to Remo Manufacturing Company, Meriden, Conn. Laundry-marking pin. 1,664,087; Mar. 27.
Petersen, Clarence L., Richmond, Calif. Linoleum-covered baseboard. 1,663,774; Mar. 27.
Peterson, Axel W., San Francisco, Calif. Wrench. 1,663,920; Mar. 27.
Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Yarn clearer or the like. 1,663,856; Mar. 27.
Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Yarn clearer or the like. 1,663,857; Mar. 27.
Peterson, Carl A., Alderwood Manor, Wash. Ironing machine. 1,663,669; Mar. 27.
Pfeifer, John, Springfield, Ohio. Adding machine. 1,663,726; Mar. 27.
Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Booster-motor truck. 1,663,727; Mar. 27.
Phelps, James E., Lisbon, Iowa. Pump plunger. 1,663,610; Mar. 27.
Phelps, Spencer H., assignor to Blount Plow Works, Evansville, Ind. Clamp. 1,663,728; Mar. 27.
Phillips, Benjamin C. (See Cooke, A. G., and Phillips.)
Phillips, Charles H., jr., Richmond Hill, N. Y., assignor to Seneca Glass Co., Morgantown, W. Va. Goblet or similar article. Des. 74,801; Mar. 27.
Pickett, William J., Wilkes-Barre, Pa. Kit. 1,663,858; Mar. 27.
Pierce, Charles H., Wadena, Minn. Limb brace. 1,663,921; Mar. 27.
Pinckney, Charles C., Birmingham, Ala. Railway-car bolster. 1,664,224; Mar. 27.
Pine Institute of America, Incorporated. (See Kesler, Carl C., assignor.)
Pitter, Walter C., West Dulwich, London, England. Clutch for transmitting rotary motion. 1,664,320; Mar. 27.
Pittsburgh Train Control Company. (See Williamson, Arba G., assignor.)
Plexico, Robert S. (See White, S. O., and Plexico.)
Popescu, Theodor, et al. (See Pais, Alexander, assignor.)
Potter, Joseph L., Indianapolis, Ind. Excavating and conveying apparatus. 1,664,184; Mar. 27.
Powers, Percival A., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Socket and reflector construction. 1,664,262; Mar. 27.
Pratt, Don W., Santa Monica, Calif. Direction signal. 1,663,859; Mar. 27.
Precision Tank Gauge Company. (See Rieber, Frank, assignor.)

Premier Warm Air Company. (See Judd, R. M., Taylor, and McNaney, assignors.)
Prest-O-Lite Storage Battery Corporation. (See Gossling, Walter E., assignor.)
Provident Trust Company of Philadelphia. (See Hughes, James W., assignor.)
Puening, Franz, Pittsburgh, Pa. Cracking oil. 1,664,263; Mar. 27.
Quain, Henry B., San Jose, Calif. Holder for a fountain pen or the like. Des. 74,802; Mar. 27.
Quist, Irving E., Warren, Minn. Cable guard. 1,664,321; Mar. 27.
Radio Corporation of America. (See McLachlan, N. W., and Langridge, assignors.)
Raditsch, Carl, Camden, N. J. Neckband former and stretcher. 1,664,381; Mar. 27.
Rae, James M., Medicine Hat, Alberta, Canada. Display stand. 1,664,130; Mar. 27.
Ragenovic, Vido P., Portland, Oreg. Toy. 1,663,729; Mar. 27.
Rail Joint Company, The. (See Armstrong, Victor C., assignor.)
Ranz, Jacob, St. Louis, Mo. Flywheel. 1,663,814; Mar. 27.
Ravut, Camille L. M., assignor to Société Industrielle des Téléphones (Constructions Électriques, Caoutchouc, Câbles), Paris, France. Electric connection. 1,663,730; Mar. 27.
Rawson, Ralph H. (See Goss, O. P. M., and Rawson.)
Ray, George W., Forty Fort, Pa. Vehicle chassis. 1,664,131; Mar. 27.
Ray, James L., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade lashing. 1,663,563; Mar. 27.
Rebichon, M. André. (See Sicard, Séraphin, assignor.)
Redfern, Alfred H. (See Russell, Robert, assignor.)
Redlich, Victor, Vienna, Austria. Centrifugal machine. 1,663,731; Mar. 27.
Redmond, Albert G., Indianapolis, Ind., assignor to J. R. Francis, Flint, Mich. Fuel-feeding means for charge-forming devices. 1,663,611; Mar. 27.
Reed, Chase C., assignor to Toledo Scale Company, Toledo, Ohio. Rack-foot connection. 1,663,997; Mar. 27.
Reek, Earl, Oakland, Calif. Child's vehicle. Des. 74,803; Mar. 27.
Reese, Frank, assignor to Reese Metal Weather Strip Co., Minneapolis, Minn. Weather strip. 1,664,264; Mar. 27.
Reese, Frank, assignor to Reese Metal Weather Strip Co., Minneapolis, Minn. Weather strip. 1,664,322; Mar. 27.
Reese Metal Weather Strip Co. (See Reese, Frank, assignor.)
Reeves, Samuel V., Haddonfield, N. J. Stove. 1,664,045; Mar. 27.
Reichard, Wade H., Troy, N. Y., assignor, by mesne assignments, to General Railway Signal Company. Electrical control device. 1,664,088; Mar. 27.
Reid, Allan E., Boston, Mass. Universal joint for pistons. 1,663,612; Mar. 27.
Reinhardt, Wilhelm, Melsungen, Germany. Combined gaiter and boot protector. 1,663,613; Mar. 27.
Reiss, Elias, and Company. (See Mack, Joseph, assignor.)
Remark, Isidore J., assignor to The General Tire & Rubber Company, Akron, Ohio. Die head. 1,663,732; Mar. 27.
Remo Manufacturing Company. (See Perkins, Howard M., assignor.)
Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. 1,664,132; Mar. 27.
Respess, Roland B., New York, N. Y., assignor, by mesne assignments, to Respro Inc., Cranston, R. I. Buffing-leather substitute and making the same. 1,663,954; Mar. 27.
Respro Inc. (See Respess, Roland B., assignor.)
Rhode Island Lace Works, Inc., The. (See Newton, Albert E., assignor.)
Rich, Frank E., Chicago, and F. C. Burdick, La Grange, assignors to The Miehle Printing Press and Manufacturing Company, Chicago, Ill. Delivery mechanism for printing presses. 1,663,815; Mar. 27.
Rich, Malcolm N., East Orange, N. J., assignor to Westinghouse Lamp Company. Refractory metal filament. 1,663,564; Mar. 27.
Richards, Brayton G. (See Pabodie, Robert J., assignor.)
Richardson, Rodney G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,663,860; Mar. 27.
Rieber, Frank, Berkeley, Calif., assignor, by mesne assignments, to Precision Tank Gauge Company. Liquid gauge. 1,664,265; Mar. 27.
Rietveld, Gideon, Knoxville, Iowa. Match-box holder. 1,663,861; Mar. 27.
Rietveld, Gideon, Knoxville, Iowa. Mail box. 1,663,862; Mar. 27.
Rietz, Walter H. (See Weaver, L. C., and Rietz.)
Riley Stoker Company. (See Mildon, Reginald B., assignor.)
Ringwald, Clarence, assignor of one-half to C. H. Caine, Chicago, Ill. Thermostatic control for generators. 1,664,089; Mar. 27.
Robertson, William W. (See Soderberg, J. G., and Robertson.)
Robin, Leo, Ixelles, and P. de Ponthière, Wolume, St. Lambert, Belgium. One-way driving mechanism. 1,663,922; Mar. 27.
Robinson, Ernest Y., Manchester, and W. J. Brown, Stockport, England, assignors to Metropolitan-Vickers Electrical Company Limited. Vacuum electric tube device. 1,664,225; Mar. 27.
Robinson, Hassel D., Washington, D. C. Fuel-mixing device. 1,663,955; Mar. 27.
Robinson, Thomas, Babylon, N. Y., assignor to Anaconda Sales Company. Roofing material. 1,663,505; Mar. 27.
Rockwood Manufacturing Company. (See Hamerstadt, William D., assignor.)
Rodman, Thomas H., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Braking system for motor-driven machinery. 1,664,185; Mar. 27.
Roessler & Rasslacher Chemical Company, The. (See Schulenburg, Wilhelm, assignor.)
Rolfe, Charles A., Redlands, Calif. Golf game. 1,663,889; Mar. 27.
Rollason, Charles H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Head for shipping drums. 1,663,775; Mar. 27.
Rosenberg, Ida, Chicago, Ill. Apparatus for regulating the admixture of a solution to running water. 1,664,046; Mar. 27.
Ross, John, St. Albans, N. J. Refractory gas furnace. 1,664,267; Mar. 27.
Rossow, Herman, Melvindale, Mich. Self-reversing slicing machine. 1,663,776; Mar. 27.
Roth Brothers & Co. (See Williams, Ralph T., assignor.)
Rowe Manufacturing Company. (See Wilson, Douglas A., assignor.)
Rowland, Douglas H., Shawnee, Okla. Overshot. 1,663,614; Mar. 27.
Rowland, Dudley H., Detroit, Mich., assignor to American Ichthyol Oil Company, San Antonio, Tex. Sulphoichthyolate of ammonium and process of manufacture. 1,664,376; Mar. 27.
Royer, Georges G., Paris, France. Thermostat. 1,663,566; Mar. 27.
Royster, Percy H., and W. W. Odell, Minneapolis, Minn. Separating various constituents from mixed materials and apparatus for accomplishing said separation. 1,663,863; Mar. 27.
Rudolph, Corrie F. (See Crossley, A., and Rudolph.)
Russell, Mark N., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Sign-receptacle ring. Des. 74,804; Mar. 27.
Russell, Robert, assigsor to A. H. Redfern, Birmingham, England. Adjustable support or stay applicable to drop-end couches. 1,663,864; Mar. 27.
Ruzicka, Leopold, Zurich, assignor to M. Naef & Co., Geneva, Switzerland. Manufacture of farnesol. 1,663,817; Mar. 27.
Ruzicka, Leopold, assignor to M. Naef and Cie., Geneva, Switzerland. Manufacture of farnesol. 1,663,818; Mar. 27.
Ryon, Eppa H., Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for loom transferrer arms. 1,663,956; Mar. 27.
Ryon, Eppa H., Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Color indicator for weft-replenishing looms. 1,663,957; Mar. 27.
Sacerdote, Guido M., Bayside, N. Y. Bottle-cap remover and holder. 1,664,047; Mar. 27.
Sargent, Edwin, North Arlington, N. J. Scupper. 1,663,777; Mar. 27.
Sargent, Howard R., Bridgeport, Conn., assignor to General Electric Company. Attachment-plug adapter. 1,664,090; Mar. 27.
Sarra, Tullio, San Bruno, Calif. Making gut strings. 1,664,323; Mar. 27.
Sauer, John W., Lexington, Ky. Display box. 1,663,958; Mar. 27.
Schaefer, August assignor of one-half to A. Baltheiser, New York, N. Y. Box. Des. 74,805; Mar. 27.
Schedler, Carl W., Berkeley, Calif. Evaporator protector. 1,664,133; Mar. 27.
Schell, Hermann, Nuremberg, Germany. Cooking apparatus with steam hood. 1,664,324; Mar. 27.
Schellentrager, Eugene W., assignor to The Atlas Car & Manufacturing Company, Cleveland, Ohio. Dump car. 1,664,268; Mar. 27.
Schestakoff, Pierre, Paris, France. Preparation of photographic developers. 1,663,959; Mar. 27.
Schmid, Otto, Reutlingen, Württemberg, Germany. Apparatus for manufacturing barbed wire. 1,663,615; Mar. 27.
Schmidinger, Kurt, Neukolln, Germank. Making lacquers. 1,663,733; Mar. 27.
Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Minimiz'ng fluid pulsations. 1,663,998; Mar. 27.
Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Associating mechanism. 1,663,567; Mar. 27.
Schmidtsche Heissdampf G. m. b. H. (See Hartmann, Otto H., assignor.)
Schmitt, Frank R., Brooklyn, N. Y., assignor to American Machine and Foundry Company. Automatic wrapper control for packaging machines. 1,664,048; Mar. 27.
Schneider, Hans. (See Neelmeier, W., and Schneider.)
Schneider, John M., Detroit, Mich. Puzzle. 1,663,568; Mar. 27.
Schoble, Frank, & Co. (See Millard, Herbert J., assignor.)

Schombourger, Lucien, and H. K. Schrage, Paris, France, assignor to General Electric Company. Speed-control system. 1,664,134; Mar. 27.
Schrage, Hildé K. (See Schombourger, L., and Schrage.)
Schubardt, Walter. (See Mittasch, A., Müller, and Schubardt.)
Schulenburg, Wilhelm, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Preparation of camphene. 1,663,569; Mar. 27.
Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 74,806; Mar. 27.
Scott, David T., Vancouver, B. C., Canada. Internal-Combustion engine. 1,663,865; Mar. 27.
Scott and Williams, Inc. (See Katzenmoyer, Harry E., assignor.)
Scrimgeour, William, Washington, D. C. Control valve. 1,664,135; Mar. 27.
Sedgley, Reginald F. Philadelphia, Pa. Firearm. 1,664,049; Mar. 27.
Seeger, Edwin W., South Milwaukee, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric elevators. 1,664,269; Mar. 27.
Seeger, Max H., Inglewood, Calif. Hair cleaner. 1,663,778; Mar. 27.
Seitz-Werke G. m. b. H. (See Weil, Friedrich H., assignor.)
Seneca Glass Co. (See Phillips, Charles H., jr., assignor.)
Senz, John P., assignor to The Perfection Metal Container Company, Cleveland, Ohio. Metal container. 1,663,570; Mar. 27.
Shaft, Willis S., Faribault, Minn. Shade. 1,663,819; Mar. 27.
Shaw, George R., South Euclid, and B. F. Tellkamp, Cleveland Heights, Ohio, assignor to General Electric Company. Method and apparatus for treating filaments 1,664,136; Mar. 27.
Shedd, Frank R., Center Ruthland, Vt., assignor to Vermont Marble Company. Truck. 1,663,571; Mar. 27.
Sheehan, Thomas C., Upper Montclair, N. J., assignor to American Machine & Foundry Company. Cigarette-machine cut-off. 1,664,050; Mar. 27.
Shevlin, George F., & Son. (See Shevlin, George F., assignor.)
Shevlin, George F., assignor to George F. Shevlin & Son, Glens Falls, N. Y. Valve. 1,664,270; Mar. 27.
Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor regulator. 1,664,325; Mar. 27.
Shutt, Jesse R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam. 1,663,923; Mar. 27.
Sicard, Séraphin, assignor of fifty per cent to M. A. Rebichon, Paris, France. Device for stretching and fastening hoops for boxes and the like. 1,663,616; Mar. 27.
Sieg, Karl. (See Langston, S. M., and Sieg.)
Silver, Arthur E., New York, N. Y. Brewing utensil. 1,664,226; Mar. 27.
Sinclair, Alfred C., New Orleans, La. Internal-combustion engine. 1,664,091; Mar. 27.
Sinclair Refining Company. (See Tabor, George H., jr., assignor.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Singer Manufacturing Company, The. (See Naul, James M., assignor.)
Singletary, Benjamin H., Baton Rouge, La. Tool for balling and removing of plants. 1,663,999; Mar. 27.
Sjoberg, Sidney T. (See Payne, H. D., De Clerque, and Sjoberg.)
Skaar, Swen. (See Tjossem, Kinney, assignor.)
Sleeper, Harvey P., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay operation indicator. 1,664,326; Mar. 27.
Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Static-reducing system. 1,664,227; Mar. 27.
Sloan, Charles S., sr., et al. (See Hoyt, Fred L., assignor.)
Smallhouse, Albert A., Los Angeles, Calif. Smoking stand. Des. 74,807; Mar. 27.
Smallwood, George S., Freeport, N. Y. Exerciser and blood circulator. 1,663,641; Mar. 27.
Smith, Bulmer and Company. (See Stott, Louis, assignor.)
Smith, George T., Hannibal, Mo. Vehicle signal casing. Des. 74,808; Mar. 27.
Smith, William E., Milltown, assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J. Pile-wire-controlling mechanism for looms. 1,664,327; Mar. 27.
Snap-Point Pencil, Inc. (See Vierling, Frank J., assignor.)
Snapp, John P., Limestone, Tenn. Splicing tool. 1,663,866; Mar. 27.
Snedden, Frank W., Wilkinsburg, Pa. Automobile signal-lights casing. Des. 74,809; Mar. 27.
Societa Italiana Pirelli. (See Emanueli, Luigi, assignor.)
Société Industrielle des Téléphones (Constructions Électriques, Caoutchouc, Câbles). (See Ravut, Camille L. M., assignor.)
Soderberg, John G., and W. W. Robertson, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Yarn-tube frame for looms. 1,663,924; Mar. 27.
Soreng, Edgar M., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Switch. 1,663,779; Mar. 27.
Spangler, William I., Tarlton, assignor to The Chamberlin Cartridge and Target Co., Cleveland, Ohio. Target-throwing trap. 1,663,780; Mar. 27.
Spargo, William W., Pontiac, Mich. Scoring apparatus. 1,663,781; Mar. 27.
Sparkes, Harry P., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switchboard lamp. 1,664,228; Mar. 27.
Spartan Electric Corporation. (See Burgesser, Leslie D., assignor.)
Spirella Company, The. (See Bowler, William E., assignor.)
Spousta, John, assignor to Whitehead & Kales Company, River Rouge, Mich. Permanent mold. 1,663,642; Mar. 27.
Squiers, Graham. (See Mullins, G. W., and Squiers.)
Squires, John, Detroit, Mich. Dirt and air separation. 1,664,092; Mar. 27.
Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Drier-control system. 1,664,229; Mar. 27.
Staley, Allen C., Lafayette, Ind. Steam automotive-vehicle boiler. 1,664,328; Mar. 27.
Staley, Allen C., Lafayette, Ind. Automotive steam-power plant. 1,664,329; Mar. 27.
Standard Compositor Aktiengesellschaft. (See Buswell, Walter, assignor.)
Standard Oil Development Company. (See Howard, Frank A., assignor.)
Starr Piano Company. (See Maxwell, John S., assignor.)
Stearns, Jason C., Worcester, Mass. Cigar and cigarette lighter. Des. 74,810; Mar. 27.
Steffen, Henri, Sierre, assignor to E. Gissler, Aigle, Switzerland. Process and apparatus for waving the hair. 1,664,000; Mar. 27.
Steimer, Charles M., executor. (See Steimer, Theodore C.)
Steimer, Theodore C., deceased, Pittsburgh, Pa.; C. M. Steimer, executor, Zanesville, Ohio, assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Glass-feeding mechanism. 1,663,925; Mar. 27.
Steinberg, Julius, New York, N. Y. Headgear and making the same. 1,664,271; Mar. 27.
Steinberger, Andrew, New York, N. Y. Exercising prize amusement device. 1,664,272; Mar. 27.
Steinmetz, Georg, Charlottenburg, Germany. Loose-leaf-suspending file. 1,663,617; Mar. 27.
Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting and making the same. 1,664,093; Mar. 27.
Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,664,094; Mar. 27.
Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,664,095; Mar. 27.
Stevenson, Thomas A. M., Winston-Salem, N. C. Water heater. 1,664,330; Mar. 27.
Stewart, Douglas M., New York, N. Y. Shade holder for candles. 1,664,001; Mar. 27.
Stewart, Edward, and J. G. Warren, Hamilton, Ontario, Canada. Lens stop or diaphragm. 1,664,137; Mar. 27.
Stickney Expansion Drill & Manufacturing Company. (See Whitesitt, Edgar C., assignor.)
Stiegart, Leo, et al. (See Bender, Frank J., assignor.)
Stites, Joseph D. (See Osten, William H., assignor.)
Stockholder, John H., New Orleans, La. Boiler attachment. 1,664,230; Mar. 27.
Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Thermostatic cut-off. 1,664,331; Mar. 27.
Stoller, Hugh M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical control system. 1,663,890; Mar. 27.
Stoller, Hugh M., Mountain Lakes, N. J., and E. R. Morton, assignors to Western Electric Company, Incorporated, New York, N. Y. Regulator system employing electron-discharge devices. 1,663,891; Mar. 27.
Stone, Charles W., R. R. Bumbaugh, and J. Dan, Los Angeles, Calif.; said Stone assignor to said Bumbaugh and said Dan. Receptacle-filling machine. 1,664,002; Mar. 27.
Stott, Louis, assignor to Smith, Bulmer and Company, Limited, Halifax, England. Daylight lamp for color matching, perching, and similar purposes. 1,664,332; Mar. 27.
Strange, John, Pall Company. (See Strange, Paul, assignor.)
Strange, Paul, Neenah, assignor to John Strange Pall Company, Menasha, Wis. Receptacle. 1,663,618; Mar. 27.
Ströder, Eugen, Leverkusen, near Cologne, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for treating gases. 1,663,734; Mar. 27.

Strubler, Charles G., Chicago, Ill., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,664,003; Mar. 27.

Stuart, Thomas F., and H. A. Moore, Los Angeles, Calif. Notch bolt latch. 1,663,572; Mar. 27.

Studebaker Corporation, The. (See Link, Vincent, assignor.)

Sullivan, John L., Oakland, Calif. Furring and fastening device. 1,664,096; Mar. 27.

Sullivan Machinery Company. (See Holmes, Morris P., assignor.)

Sullivan Machinery Company. (See Osgood, Charles F., assignor.)

Sullivan Machinery Company. (See Upham, Preston, assignor.)

Sundgren, John, Duluth, Minn. Pipe-bending device. 1,664,138; Mar. 27.

Sundstrand, Gustaf D., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Lathe. 1,663,670; Mar. 27.

Sundstrand, Gustaf D., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Lathe. 1,663,671; Mar. 27.

Sundstrand Machine Tool Co. (See Sundstrand, Gustaf D., assignor.)

Sunny Line Appliances, Incorporated. (See Copley, Noiberto G., assignor.)

Sutherland, J., et al., trustees. (See Burrow, George A., assignor.)

Swartzbaugh Manufacturing Company, The. (See Ziola, Henry A., assignor.)

Sweigard, Emanuel W., San Diego, Calif. Combination chair and stepladder. 1,663,960; Mar. 27.

Swenka, John, North Liberty, Iowa. Gate latch. 1,663,867; Mar. 27.

Sykes, James F., Pittsburgh, Pa. Cabinet. 1,663,820; Mar. 27.

Taber, George H., jr., Rye, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,663,868; Mar. 27.

Talbot, Lucien J. B., and V. A. Leculvre, Woonsocket, R. I. Portable bath apparatus. 1,663,735; Mar. 27.

Tatore, Paschal. (See Dolan, E. J., and Tatore.)

Taylor, Boe G., Baytown, Tex. Air cleaner. 1,664,333; Mar. 27.

Taylor, Ernest C. (See Judd, R. M., Taylor, and McNaney.)

Taylor, William J., Nenana, Alaska. Beating and mixing device. 1,663,961; Mar. 27.

Tellkamp, Bernhard F. (See Shaw, G. R., and Tellkamp.)

Thalken, Frank R., Vineland, N. J. Poultry water fountain. 1,664,186; Mar. 27.

Tharp, Charles H., assignor to Montgomery Ward & Company, Chicago Ill. Garment-holding form. 1,663,573; Mar. 27.

Therasse, Jules A., Marion, assignor to Irvington Auto Products Corporation, Indianapolis, Ind. Mirror bracket. 1,663,672; Mar 27.

Theroux, Hector J., Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Calender guide. 1,664,273; Mar. 27.

Thoens, Burchard, assignor of one-half to B. M. Thoens, New York, N. Y. Gravity liquid feeder. 1,664,051; Mar. 27.

Thoens, Burchard M. (See Thoens, Burchard, assignor.)

Thomas, Henry, London, England, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slice deflector for slicing machines. 1,663,043; Mar. 27.

Thomas, Henry, East Ham, London, England, assignor to U. S Slicing Machine Company, La Porte, Ind. Slice deflector for slicing machines. 1,663,782; Mar. 27.

Thomas, Max, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Producing cables. 1,664,231; Mar. 27.

Thomas Oil By-Products Company. (See Gundlach, Henry R., assignor.)

Thomas, Thomas H., Edgewood, and E. S. Cook, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. 1,663,736; Mar. 27.

Thompson, Harry E., assignor to Universal Cooler Corporation, Detroit, Mich. Compressor valve. 1,663,737; Mar. 27.

Thompson, John A., Heswall, and W. S. Hough, Hoylake, England. Treating nut kernels. 1,664,334; Mar. 27.

Thompson, Paul R. (See Ballentine, W. I., and Thompson.)

Thornton, John E., West Hampstead, London, England. Construction and manufacture of cinematograph positive films. 1,663,738; Mar. 27.

Thurston, George M. (See Gabriel, J. C., and Thurston.)

Thyle, Irvin S., administrator. (See Bradley, William A.)

Tillotson, Charles R., Clay Center, Kans. Pipe coupling. 1,663,739; Mar. 27.

Timken-Detroit Axle Company, The. (See Newton, Robert E., assignor.)

Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)

Timken Roller Bearing Company, The. (See Van Campen, Jonah H., assignor.)

Tinnerman, Albert H., Cleveland, Ohio. Stove-top construction. 1,664,004; Mar. 27.

Tjossem, Kinney, assignor of one-half to S. Skaar, Paullina, Iowa. Power-drive attachment for corn pickers. 1,664,232; Mar. 27.

Todd, David, Glasgow, Scotland. Driving belt. 1,664,335; Mar. 27.

Toledo Scale Company. (See Chapman, Frank H., assignor.)

Toledo Scale Company. (See Hapgood, Clarence H., assignor.)

Toledo Scale Company. (See Hem, Halvor O., assignor.)

Toledo Scale Company. (See Hurt, Samuel N., assignor.)

Toledo Scale Company. (See Reed, Chase C., assignor.)

Toledo Scale Company. (See Strubler, Charles G., assignor.)

Townsen, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Post-top lantern. Des. 74,811; Mar. 27.

Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,664,097; Mar. 27.

Traxler, David, Flint, Mich. Garment pocket. Re16,916; Mar. 27.

Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Molding machine. 1,664,139; Mar. 27.

Tubbs, Ira I., Superior, assignor of one-half to G. F. Miller, Menomonie, Wis. Inflated ball. 1,664,336; Mar. 27.

Tucker Brothers Manufacturing Company. (See Tucker, Jesse D., assignor.)

Tucker, Jesse D., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Swimming circle. 1,664,140; Mar. 27.

Tuomi, Uno E., Dallas, Tex. Combination tool. 1,663,821; Mar. 27.

Turner, Albert. (See Heald, J. N., Turner, and Kimmel.)

Turner, Ralph C., assignor to American Cone & Pretzel Company, Philadelphia, Pa. Ice-cream cone. D. s. 74,812; Mar. 27.

Turner, Richard G. (See Payne, O. V., and Turner.)

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom to transfer on on backward stroke of the lay. 1,664,005; Mar. 27.

Turner, Richard G., assignor to The Crompton & Knowles Loom Works, Worcester, Mass. Feeler movable to distribute wear on yarn. 1,664,006; Mar. 27.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in transferrer arm. 1,664,007; Mar. 27.

Uhlig, Willy R., Dresden, Germany. Angling game requiring patience and skill. 1,663,962; Mar. 27.

Ungar, Gustave A., Pelham Manor, N. Y. Flexible coupling. 1,664,052; Mar. 27.

Union Special Machine Company. (See Mann, Joseph, assignor.)

United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)

United Shoe Machinery Corporation. (See Hamilton, Hugh R., assignor.)

U. S. Slicing Machine Company. (See Thomas, Henry, assignor.)

United Steel & Wire Company. (See Jarvis, Charles H., assignor.)

Universal Cooler Corporation. (See Thompson, Harry E., assignor.)

Unwin, Kenneth, jr., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Guard for weft detectors in loom transferrers. 1,663,926; Mar. 27.

Upham, Preston, assignor to Sullivan Machinery Company, Boston, Mass. Mining machine. 1,664,383; Mar. 27.

Van Campen, Jonah H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Rolling mill. 1,664,141; Mar. 27.

Van den Bergh, Samuel J., assignor to the firm: N. V. Nederlandsche Instrumenten Compagnie, Haag, Netherlands. Antiaircraft fire-control apparatus. 1,663,575; Mar. 27.

Vanderput, Anthony, Paterson, N. J., assignor of one-half to J. C. Hinchliffe, jr. Meat-roll-forming machine. 1,664,337; Mar. 27.

Van Gunten, Irvin W., Toledo, Ohio. Automobile radiator decoration. Des. 74,813; Mar. 27.

Van Haasteren, Johannes M., assignor to Naamlooze Vennootschap: "De Kormneet". Schiedam, Netherlands. Can-body-forming machine. 1,663,892; Mar. 27.

Varner, Howard C., and J. M. Koch, St. Joseph, Mo. Automobile signal-controlling mechanism. 1,663,740; Mar. 27.

Vaughan-Sherrin, John, Ruckinge, England. Secondary battery. 1,663,741; Mar. 27.

Veazey, William R., Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Magnesium alloy and making same. 1,663,963; Mar. 27.

Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Apparatus for handling bulk materials. 1,663,574; Mar. 27.

Verlinden, Edmond, Milwaukee, Wis. Combination stop action for organs. 1,664,053; Mar. 27.

Vermont Marble Company. (See Shedd, Frank R., assignor.)

Vernor, James, Company. (See Doughty, William E., assignor.)

Vierling, Frank J., assignor to Snap-Point Pencil, Inc., Minneapolis, Minn. Pencil. 1,664,274; Mar. 27.

Vincent, Eugene T., Boston, Mass. Valve-control apparatus. 1,664,233; Mar. 27.

Virneburg, George, New York, N. Y. Swimming glove. 1,664,187; Mar. 27.

Vodicka, John, assignor, by mesne assignments, to Cinch Manufacturing Corporation, Chicago, Ill. Curtain fastener. 1,663,673; Mar. 27.

Vogel, Robert. (See Augenstein, C., and Vogel.)

Vollrath, Edwin, Easton, Pa. Belt stretcher. 1,663,783; Mar. 27.

Von Kossowski, Waclaw, Warsaw, Poland. Apparatus for hot working metal. 1,663,576; Mar. 27.

Voreaux, Paul, assignor to Etablissements Samga & Bavox Reunis, Paris, France. Valveless air pump. 1,663,927; Mar. 27.

Wagner, Louis, Berlin, Germany, assignor to Whiting-Patterson Co., Inc. Cover paper or similar material. Des. 74,814; Mar. 27.

Wagner, Martin S., New York, N. Y. Scarf. 1,663,893; Mar. 27.

Wagner, Richard W. (See Howard, C. R., and Wagner.)

Wahl, Ottmar, Leverkusen, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Dyestuff of the triphenyl methane series. 1,663,869; Mar. 27.

Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Normally stationary inertia-actuated weft detector. 1,664,008; Mar. 27.

Walker, William G., Minneapolis, Minn. Fruit jar or container. 1,663,822; Mar. 27.

Wallis, Barnes N., Westminster, assignor to Airship Guarantee Company Limited, London, England. Mooring mast or mooring gear for lighter-than-air aircraft. 1,664,188; Mar. 27.

Walters, Herbert C., and J. T. Fitzsimmons, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition system. 1,664,338; Mar. 27.

Walther, Ernest A., Danbury, Conn. Packing case for hats. 1,663,928; Mar. 27.

Ward, Albert C., Canonsburg, Pa. Pottery kiln. 1,664,142; Mar. 27.

Ward, Charles A. (See Fischer, H. L., and Ward.)

Warner Gear Company. (See White, S. O., and Plexico, assignors.)

Warren, John G. (See Stewart, E., and Warren.)

Washburne, William H., Chicago, assignor, by mesne assignments, to Motor Valves, Inc., Woodstock, Ill. Making two-piece valves. 1,663,784; Mar. 27.

Watson, Herbert H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in transferrer arm. 1,663,929; Mar. 27.

Watson, Herbert H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Slide cradle for weft-replenishing looms. 1,663,930; Mar. 27.

Watson, Joseph R., Berkeley, Calif. Fire-resisting composition. 1,663,577; Mar. 27.

Wear, John D. (See Hoeschen, H. A., and Wear.)

Weaver, James R., North Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Collironing machine. 1,664,234; Mar. 27.

Weaver, Lewis C., Chicago, and W. H. Rietz, Ravinia, assignors to Ilg Electric Ventilating Company, Chicago, Ill. Air-circulating device for warm-air furnaces. 1,663,044; Mar. 27.

Weber, Jacob H., Brooklyn, N. Y. Medicinal roller. 1,664,009; Mar. 27.

Weber, Philipp, Vallendar-on-the-Rhine, Germany. Device for manual producing of cigar fillers. 1,664,143; Mar. 27.

Weeks, Charles S., South Orange, N. J. Article-positioning means for labeling machines. 1,664,144; Mar. 27.

Wehll, Morris, Basel, Switzerland. Fiber-cleaning device. 1,664,145; Mar. 27.

Weil, Friedrich H., assignor to Seitz-Werke G. m. b. H., Kreuznach, Germany. Preparing filtering materials. 1,664,275; Mar. 27.

Weirsert, John C., et al. (See Bender, Frank J., assignor.)

Welch, Edward H., Oakland, Calif. Music-time-counting device. 1,664,010; Mar. 27.

Wenholz, Walter W., assignor to General Railway Signal Company, Rochester, N. Y. Block-signal system for railroads. 1,664,054; Mar. 27.

Werner, William, Mexia, Tex. Automatic switch for oil-well motors. 1,663,578; Mar. 27.

Western Electric Company. (See Benjamin, John C., assignor.)

Western Electric Company. (See Gabriel, J. C., and Thurston, assignors.)

Western Electric Company. (See Harrison, Henry C., assignor.)

Western Electric Company. (See Holland, Newman H., assignor.)

Western Electric Company. (See Stoller, Hugh M., assignor.)

Western Electric Company. (See Stoller, H. M., and Morton, assignors.)

Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)

Westinghouse Air Brake Company, The. (See Thomas, T. H., and Cook, assignors.)

Westinghouse Electric & Manufacturing Company. (See Bryant, Roger H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assingnor.)

Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)

Westinghouse Electric & Manufacturing Company. (See De Vries, Andrew, assignor.)

Westinghouse Electric & Manufacturing Company. (See Fay, Carl J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.

Westinghouse Electric & Manufacturing Company. (See Gilchrest, George I., assignor.)

Westinghouse Electric and Manufacturing Company. (See Haas, Carl F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hanna, David B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hawkinson, Emil E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hunt, Lloyd F., assignor.)

Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Loewe, Siegmund, assignor.)

Westinghouse Electric & Manufacturing Company. (See Matthews, H. D., and Bisbee, assignors.)

Westinghouse Electric & Manufacturing Company. (See Payne, H. D., De Clerque, and Sjoberg, assignors.)

Westinghouse Electric & Manufacturing Company. (See Ray, James L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Sleeper, Harvey P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Steplan, Joseph, assignor.)

Westinghouse Electric and Manufacturing Company. (See Sparkes, Harry P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Staege, Stephen A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Thomas, Max, assignor.)

Westinghouse Electric & Manufacturing Company. (See Townsend, John R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Weaver, James R., assignor.)

Westinghouse Lamp Company. (See Gero, William B., assignor.)

Westinghouse Lamp Company. (See Higgins, John J., assignor.)

Westinghouse Lamp Company. (See Higgins, J. J., and Hoyt, assignors.)

Westinghouse Lamp Company. (See Iredell, Charles V., assignor.)

Westinghouse Lamp Company. (See Meister, George W., assignor.)

Westinghouse Lamp Company. (See O'Neill, George D., assignor.)

Westinghouse Lamp Company. (See Rich, Malcolm N., assignor.)

Wheeling Steel Corporation. (See Rollason, Charles H., assignor.)

Whipple, Leland B., Rochester, N. Y. Cutter head for woodworking machines. 1,663,894; Mar. 27.

Whistler, David B., Dayton, Ohio. Window. 1,663,870; Mar. 27.

White, Samuel O., and R. S. Plexico, assignors to Warner Gear Company, Muncie, Ind. Automobile brake. 1,663,785; Mar. 27.

Whitehead & Kales Company. (See Spousta, John, assignor.)

Whitesitt, Edgar C., San Bernardino, Calif., assignor to Stickney Expansion Drill & Manufacturing Company, Coeur d'Alene, Idaho. Drill bit. 1,664,235; Mar. 27.

Whiting-Patterson Co. (See Labram, Alfred, assignor.)

Whiting-Patterson Co. (See Wagner, Louis, assignor.)

Wickner, Axel, Chicago, Ill. Chuck for hand tools. 1,664,236; Mar. 27.

Wicks, John, assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,664,011; Mar. 27.

Wier, Harry A., Dallas, Tex. Vapor tower. 1,664,237; Mar. 27.

Wignall, Harry. (See Payman, J. B., and Wignall.)

Wilcox, George, Riverside, Calif., assignor to California Canning Machinery Co. Preheater. 1,664,055; Mar. 27.

Wilder-Strong Implement Company, The. (See Knapp, Walter H., assignor.)

Williams, Charles I., Utica, N. Y. Pump. 1,663,964; Mar. 27.

Williams Oil-O-Matic Heating Corporation. (See Williams, Walter W., assignor.)

Williams, Ralph T., assignor to Roth Brothers & Co., Chicago, Ill. Exit-lighting syatem. Re16,917; Mar. 27.

Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Fuel-burning device. 1,664,276; Mar. 27.

Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Domestic oil burner. 1,664,339; Mar. 27.

Williams, William E., Wilmette, Ill. Railway-car roof. 1,663,871; Mar. 27.

Williamson, Arba G., Carnegie, assignor to Pittsburgh Train Control Company, Pittsburgh, Pa. Track-circuit system. 1,664,382; Mar. 27.
Wilson, Charles T., Company. (See Giesecke, William E., assignor.)
Wilson, Douglas A., Peoria, assignor to Rowe Manufacturing Company, Galesburg, Ill. Fence-making machine. 1,663,786 Mar. 27.
Wilson, Edwin W., assignor of one-half to F. T. Boydston, Chicago, Ill. Pencil. 1,663,742; Mar. 27.
Wilson, George H., Louisville, Ky. Tobacco pipe. 1,664,340; Mar. 27.
Wilson, John, Pawtucket, R. I. Tobacco-pipe ventilator. 1,664,146; Mar. 27.
Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
Winthrop Chemical Company. (See Günzler, H., and Neubert, assignors.)
Wired Radio, Inc. (See Crossley, A., and Rudolph, assignors.)
Wired Radio Inc. (See Meyer, R. B., and Young, assignors.)
Wise, Leslie M., McKeesport, Pa. Paint. 1,664,341; Mar. 27.
Witt, Samuel E., Chicago, Ill. Loud-speaking receiver. 1,664,012; Mar. 27.
Wolfe, Archie R., Summit, N. J. Radio or radiophone receiving-set demonstrator. 1,663,748; Mar. 27.
Wolfe, Charles H., and E. E., Los Angeles, Calif. Garment-pattern-drafting square. 1,663,895; Mar. 27.
Wolfe, Ethel E. (See Wolfe, Charles H. and E. E.)
Wood, Benjamin, New York, N. Y. Bottle-sealing device. 1,664,147; Mar. 27.
Wood, John W., Christchurch, New Zealand. Direction indicator for motor cars and other vehicles. 1,664,148; Mar. 27.
Woodsome, Millard, assignor of fifty-one one-hundredths to J. D. Canary, Littleton, Colo. Vaporizer for internal-combustion engines. 1,663,931; Mar. 27.
Yates, Richard W., Kansas City, Mo. Laundry drier. 1,664,098; Mar. 27.
Young, Leo C. (See Meyer, R. B., and Young.)
Ytterberg, Arle, Furuhall, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Limiting device for electric regulators. 1,663,674; Mar. 27.
Zachrison, Ernst, Chicago, Ill. Lime-spreading machine. 1,663,787; Mar. 27.
Zick, Walter F., Alhambra, Calif. Gas heating stove. 1,664,277; Mar. 27.
Zido, Stephen, Richmond Hill, N. Y. Toilet-paper-roll-securing device. 1,664,278; Mar. 27.
Ziganek, Ferdinand, and W. E. Mettler, Detroit, Mich. Window construction. 1,663,932; Mar. 27.
Zimniewicz, Anthony, New York, N. Y., assignor, by mesne assignments, to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Rotary cutter. 1,663,788; Mar. 27.
Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Portable electric cooker. 1,663,744; Mar. 27.
Zollinger, Ezra J., Logan, Utah. Carburetor. 1,663,872; Mar. 27.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF MARCH, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abdominal rupture, Polygonal device for. L. Haymond, 1,663,798; Mar. 27.
Acids, Production of derivatives of arsanilic. W. L. Lewis. 1,664,123; Mar. 27.
Adding machine. J. Pfeifer. 1,663,726; Mar. 27.
Adjusting mechanism, Automatic. E. J. Gould. 1,663,882; Mar. 27.
Aerial device. J. Ostand. 1,663,723; Mar. 27.
Aerial support. E. H. Considine. 1,664,161; Mar. 27.
Aeroplane guiding light. W. F. Hendry. 1,664,170; Mar. 27.
Air cleaner. D. G. Taylor. 1,664,333; Mar. 27.
Aircraft, Mooring mast or mooring gear for lighter-than-air. B. N. Wallis. 1,664,188; Mar. 27.
Air gauge. A. E. Bronson. 1,663,540; Mar. 27.
Airplane. R. F. Hall. 1,664,295; Mar. 27.
Airplanes, Lateral control for. A. H. G. Fokker. 1,664,204; Mar. 27.
Alloys, Heat treatment of. K. J. Jacobi. 1,664,175; Mar. 27.
Ammonium and process of manufacture, Sulpho-ichthyolate of. D. H. Rowland. 1,664,376; Mar. 27.
Amplifier, Phonograph sound. C. A. Linton. 1,663,989; Mar. 27.
Amusement device. C. Fleischer. 1,663,752; Mar. 27.
Amusement device, Exercising prize. A. Steinberger. 1,664,272; Mar. 27.
Annunciator relay. L. F. Hunt. 1,664,215; Mar. 27.
Anti-aircraft fire-control apparatus. S. J. van den Bergh. 1,663,575; Mar. 27.
Argon, Process of an apparatus for isolating. G. R. Fonda. 1,664,205; Mar. 27.
Article holder. W. N., Howden. 1,664,109; Mar. 27.
Associating mechanism. L. A. Schmidt. 1,663,567; Mar. 27.
Automobile brake. S. O. White. 1,663,785; Mar. 27.
Automobile signal. S. Mack. 1,663,715; Mar. 27.
Automobile signal controlling mechanism. H. C. Varner. 1,663,740; Mar. 27.
Automobile signal-lights casing. F. W. Snedden. Des. 74,809; Mar. 27.
Back support for seats, Yieldable. F. C. Bitzenburger. 1,663,808; Mar. 27.
Ball: *See*—
  Inflated ball.
Baseboard heater, Electrical. W. W. Hicks. 1,664,171; Mar. 27.
Baseboard, Linoleum-covered. C. L. Petersen. 1,663,774; Mar. 27.
Bath apparatus, Portable. L. J. B. Talbot. 1,663,735; Mar. 27.
Battery: *See*—
  Secondary battery.
Battery container, Electric. E. Lyndon. 1,663,887; Mar. 27.
Bead-chain coupling. W. J. Gagnon. 1,664,290–1; Mar. 27.
Bead covering. C. H. Desautels. 1,664,196; Mar. 27.
Beam, Warp. J. R. Shutt. 1,663,923; Mar. 27.
Bearing, Antifriction. H. Fritzsching. 1,663,629; Mar. 27.
Beating and mixing device. W. J. Taylor. 1,663,961; Mar. 27.
Bell, Electric. W. F. Hendry. 1,664,107; Mar. 17.
Belt, Driving. D. Tood. 1,664,335; Mar. 27.
Belt, Reflector. E. R. Boots. 1,663, 791; Mar. 27.
Belt stretcher. E. Vollrath. 1,663,783; Mar. 27.
Bit: *See*—
  Drill bit.
Board: *See*—
  Baseboard.
Boat stabilizer. W. H. Osten. 1,663,888; Mar. 27.
Bobbin winder. F. E. Harding. 1,663,594; Mar. 27.
Boiler: *See*—
  Locomotive boiler. Water-tube boiler.
  Vehicle boiler.
Boiler. J. C. Martin, jr. 1,663,806; Mar. 27.
Boiler attachment. J. H. Stockholder. 1,664,230; Mar. 27.
Boiler soot cleaner. F. W. Linaker and T. M. Bruback. 1,663,851; Mar. 27.
Bolt head. H. G. Francis. 1,664,207; Mar. 27.
Book strap. H. C. Keeler. 1,663,708; Mar. 27.
Boom, Hand-reefing. C. Andrade, jr. 1,664,013; Mar. 27.
Boring machine, Earth-. G. Genung. 1,663,883; Mar. 27.
Bottle, Bath-salt. T. J. Lewis. Des. 74,795; Mar. 27.
Bottle-cap remover and holder. G. M. Sacerdote. 1,664,047; Mar. 27.
Box: *See*—
  Display box. Tool box.
  Mail box.
Box. A. Schaefer. Des. 74,805; Mar. 27.
Brace: *See*—
  Concrete-form brace. Rail brace.
  Limb brace.
Bracket: *See*—
  Mirror bracket.
Brake: *See*—
  Automobile brake. Vehicle brake.
Brake. A. Y. Dodge. 1,664,197; Mar. 27.
Brake. V. Link. 1,664,256; Mar. 27.
Brake device, Fluid-pressure. T. H. Thomas and E. S. Cook. 1,663,736; Mar. 27.
Brake-operating mechanism. M. W. McConkey. 1,664,180; Mar. 27.
Brake system actuated by fluid pressure. A. Anderberg and E. A. Anderberg. 1,663,579; Mar. 27.
Braking device. F. P. Dunn. 1,664,287; Mar. 27.
Braking system for motor-driven machinery. T. H. Rodman. 1,664,185; Mar. 27.
Brick. N. J. Lee. 1,664,219; Mar. 27.
Brush. G. C. Cleaves. 1,663,584; Mar. 27.
Brush, Porcelain-handle. L. Fuld. 1,663,908; Mar. 27.
Brushes, grind in valves, and other purposes, Appliance adapted to revolve. H. Dodson. 1,663,627; Mar. 27.
Bucket and baller, Dump. E. Gray. 1,663,591; Mar. 27.
Bucket, Excavating. A. Grout. 1,664,359; Mar. 27.
Buckle. C. E. Anderson. 1,663,745; Mar. 27.
Bulk materials, Apparatus for handling. W. M. Venable. 1,663,574; Mar. 27.
Bullets and other projectiles, Projection of. R. S. Blair. 1,663,899; Mar. 27.
Bumper for automobiles, Parking. D. April. 1,664,342; Mar. 27.
Burner: *See*—
  Oil and gas burner. Oil burner.
Cabinet. J. F. Sykes. 1,663,820; Mar. 27.
Cable guard, I. E. Quist. 1,664,321; Mar. 27.
Cable, Multiple-conductor high-tension. L. Emanuell. 1,663,878; Mar. 27.
Cables, Producing. M. Thomas. 1,664,281; Mar. 27.
Calendar. H. L. Fischer and C. A. Ward. Des. 74,787; Mar. 27.
Calender guide. H. J. Theroux. 1,664,273; Mar. 27.
Calipering mechanism. J., and S. W. Bath. 1,664,151; Mar. 27.
Cameras and regulating locally the shading of a photograph, Shader for. M. W. Collet. 1,663,596; Mar. 27.
Camp chair, Folding. J. L. Cable. 1,664,059; Mar. 27.
Camphene, Preparation of. W. Schulenburg. 1,663,569; Mar. 27.
Can-body-forming machine. J. M. van Haasteren. 1,663,892; Mar. 27.
Can-making machine. G. C. Euler. 1,664,878; Mar. 27.
Can opener. H. Garrison. 1,664,251; Mar. 27.
Cap. A. D. Lesser. 1,664,255; Mar. 27.
Car bolster, Railway-. C. C. Pinckney. 1,664,224; Mar. 27.
Car, Dump. E. W. Schellenberger. 1,664,268; Mar. 27.
Car roof, Railway-. W. E. Williams. 1,663,871; Mar. 27.
Car tank. P. Kortenboeven. 1,664,116; Mar. 27.
Carburetor. C. E. Palmer. 1,663,724; Mar. 27.
Carburetor. E. J. Zollinger. 1,663,872; Mar. 27.
Carburetor attachment. M. Mackie. 1,663,804; Mar. 27.
Carpet roller. N. Hall. 1,663,836; Mar. 27.
Carton. W. M. Johnson. 1,664,111; Mar. 27.
Carton, Nonrefillable. A. R. Cappiello. 1,664,350; Mar. 27.
Carton-vending device. W. A. Endter. 1,664,164; Mar. 27.
Casing spear. W. H. Harvey. 1,664,363; Mar. 27.
Cellulose product having the appearance of wool, Manufacture of a. A. Pellerin. 1,664,319; Mar. 27.
Centrifugal machine. V. Redlich. 1,663,731; Mar. 27.
Centrifugal switch, Automatic. H. M. Hans. 1,664,362; Mar. 27.
Centrifuge and mold holder therefor. H. Barkschat. 1,663,896; Mar. 27.
Chain. C. C. Augenstein and R. Vogel. 1,664,280; Mar. 27.
Chain tightener and holder. G. J. Bowman. 1,663,621; Mar. 27.
Chair: *See*—
  Camp chair.
Chair. E. M. Bisboff. 1,664,103; Mar. 27.
Chair. L. Dellert. 1,664,356; Mar. 27.

Chair and stepladder, Combination. E. W. Swelgard. 1,663,900; Mar. 27.
Chart-recording meter. F. Maurer. 1,663,807; Mar. 27.
Chimney cap. R. P. Orr. 1,664,315; Mar. 27.
Chimney cleaner. J. Moon. 1,663,604; Mar. 27.
Chuck. R. E. Naylon. 1,664,085; Mar. 27.
Chuck and wire feed, Automatic. E. J. Hornberger. 1,663,599; Mar. 27.
Cigar fillers, Device for manual producing of. P. Weber. 1,664,143; Mar. 27.
Cigarette-machine cut-off. T. C. Sheehan. 1,664,050; Mar. 27.
Cinematographic view-taking apparatus, Film-driving mechanism for. A. L. V. C. Debrie. 1,663,625; Mar. 27.
Circuit breaker. R. F. Dowdy and J. W. Brewbaker. 1,664,065; Mar. 27.
Clamp. J. A. Marnell. 1,663,602; Mar. 27.
Clamp. S. H. Phelps. 1,663,728; Mar. 27.
Cleaner: *See*—
Air cleaner. Hair cleaner.
Boiler soot cleaner. Shoe cleaner.
Chimney cleaner.
Cleaning apparatus, Gas-. C. G. Hawley. 1,663,597; Mar. 27.
Clip: *See*—
Reenforcing clip.
Clock, Alarm. K. Kopatschek. 1,663,710; Mar. 27.
Clock hand. W. H. Clark. Des. 74,780; Mar. 27.
Cloth-inspecting machine. A. C. Mason. 1,664,368; Mar. 27.
Clutch construction. V. Link. 1,663,803; Mar. 27.
Clutch for transmitting rotary motion. W. C. Pitter. 1,664,320; Mar. 27.
Coating articles, Apparatus for. C. M. Jamieson. 1,663,987; Mar. 27.
Coating manufactured products. A. W. Huseman and T. A. Leonard. 1,664,034; Mar. 27.
Cock and valve. E. P. J. and A. L. Niclausse. 1,664,043; Mar. 27.
Coil-winding machine. J. J. Higgins and M. A. Hoyt. 1,663,549; Mar. 27.
Coil-winding means. A. J. Fathauer. 1,663,751; Mar. 27.
Coin-feeding mechanism. F. G. Murray. 1,664,310; Mar. 27.
Comb. G. W. Hydorn. 1,663,632; Mar. 27.
Combustion under pressure. E. Gates. 1,664,072; Mar. 27.
Commode, Collapsible. L. C. Ament and C. Hilfiker. 1,663,966; Mar. 27.
Commutator and interrupter, Electric jet-wave. J. F. G. P. Hartmann. 1,664,031; Mar. 27.
Compact holder and ejector. W. G. Kendall. 1,664,301; Mar. 27.
Compressor-unloading device. S. G. Down. 1,663,687; Mar. 27.
Concrete-form brace. P. Beghetti. 1,664,152; Mar. 27.
Condenser. F. L. Bryant. 1,663,995; Mar. 27.
Conductor for high-frequency work. M. Osnos and R. Kummich. 1,664,044; Mar. 27.
Connecting rod, Self-adjusting. H. W. Bonney. 1,663,582; Mar. 27.
Container, Candy. L. M. Bier. 1,664,282; Mar. 27.
Container, Collapsible. H. O. Elkins. 1,663,649; Mar. 27.
Container, Metal. J. P. Senz. 1,663,570; Mar. 27.
Container, Tin and like. D. Owen. 1,664,181; Mar. 27.
Containers, Making. R. G. Clyne. 1,663,542; Mar. 27.
Contrivance for fastening woodwork. B. S. Andersin. 1,663,580; Mar. 27.
Control means. H. J. Murray. 1,663,721; Mar. 27.
Conveyance construction, Compartment-. E. Gugler. 1,664,294; Mar. 27.
Cooker, Portable electric. H. A. Ziola. 1,663,744; Mar. 27.
Cooking apparatus with steam hood. H. Schell. 1,664,324; Mar. 27.
Cooling and dispensing carbonated liquids, Apparatus for. W. E. Doughty. 1,663,683; Mar. 27.
Cooling device for valves and the like. C. F. Kettering. 1,663,709; Mar. 27.
Core drill, Standard tool. R. B. Grainger. 1,663,757; Mar. 27.
Cores, Apparatus for molding. E. C. Moorhead. 1,664,260; Mar. 27.
Corn pickers, Power-drive attachment for. K. Tjossem. 1,664,232; Mar. 27.
Couches, Adjustable support or stay applicable to drop-end. R. Russell. 1,663,864; Mar. 27.
Coupler system, Car, air, and electric. E. A. Larsson. 1,663,802; Mar. 27.
Coupling: *See*—
Bead-chain coupling. Hose coupling.
Flexible coupling. Pipe coupling.
Cover, Tub. C. S. Johnson. 1,663,988; Mar. 27.
Cramp preventive, Automatic. W. I. Ballentine and P. R. Thompson. 1,663,790; Mar. 27.
Crutches and canes, Tip for. F. C. Atkinson. 1,663,622; Mar. 27.
Cultivator. E. M. Becker. 1,664,344; Mar. 27.
Cultivators, Attachment for lister. L. Johnson. 1,664,254; Mar. 27.
Cup or similar article, Paper. J. Johnson. Des. 74,793; Mar. 27.
Cupboard. A. H. F. Marohn. 1,663,900; Mar. 27.
Curb form. E. T. Harrold. 1,664,169; Mar. 27.
Current relay, Alternating-. E. L. Holmes. 1,663,551; Mar. 27.
Curtain-pole end or similar article. J. O. Crawford. Des. 74,781; Mar. 27.
Curtain-raising device, Theater-. E. J. Dolan and P. Tatore. 1,664,248; Mar. 27.
Cushion wheel. E. A. Corbin, jr. 1,664,389; Mar. 27.
Cut-off-controlling mechanism. S. M. Langston and K. Sieg. 1,664,119; Mar. 27.
Cutter: *See*—
Ensilage cutter. Rotary cutter.
Damper, Automatic. C. Miehlke. 1,663,718; Mar. 27.
Damper for hot-gas conduits, Universal sand. W. S. Mayers. 1,663,915; Mar. 27.
Dental tray and insert therefor. F. W. Foster, jr. 1,663,695; Mar. 27.
Die head. I. J. Remark. 1,663,732; Mar. 27.
Dimmer wall switch. G. Freeman. 1,664,165; Mar. 27.
Direction indicator. J. D. Brower, jr. 1,663,971; Mar. 27.
Direction indicator for motor cars and other vehicles. J. W. Wood. 1,664,148; Mar. 27.
Direction signal. D. W. Pratt. 1,663,859; Mar. 27.
Dirt and air separation. J. Squires. 1,664,092; Mar. 27.
Dishwasher. E. J. Nash. 1,664,084; Mar. 27.
Disinfecting and insecticidal agent. H. Günzler and O. Neubert. 1,663,883; Mar. 27.
Disk harrows, Attachment for. J. A. Henninger. 1,664,075; Mar. 27.
Dispensing carbonated beverages, Apparatus for. W. E. Doughty. 1,663,684; Mar. 27.
Dispensing carbonated beverages, Method and apparatus for. W. E. Doughty. 1,663,686; Mar. 27.
Dispensing liquids, Apparatus for. W. E. Doughty. 1,663,685; Mar. 27.
Display box. R. A. Lambert. 1,663,705; Mar. 27.
Display box. J. W. Sauer. 1,663,958; Mar. 27.
Display rack. C. H. Jarvis. 1,664,036; Mar. 27.
Display stand. J. M. Rae. 1,664,130; Mar. 27.
Dividers. J. L. O'Connor. 1,663,855; Mar. 27.
Door handle. J. Goodman. 1,663,938; Mar. 27.
Door-operating mechanism, Checking means for. W. B. Crowell. 1,664,246; Mar. 27.
Door structure for pressure tanks. J. R. Gammeter. 1,663,755; Mar. 27.
Doors, Retaining device for. W. I. Hoopes, jr. 1,664,174; Mar. 27.
Doughnuts and other food products, Making. J. Morley. 1,663,719; Mar. 27.
Drafting square, Garment-pattern-. C. H. and E. E. Wolfe. 1,663,895; Mar. 27.
Drag, Road. A. Aikele. 1,663,965; Mar. 27.
Drawer pull. W. G. Carlson and O. John. Des. 74,778; Mar. 27.
Drier: *See*—
Laundry drier.
Drier-control system. S. A. Staege. 1,664,229; Mar. 27.
Drill: *See*—
Core drill.
Drill bit. E. C. Whitesitt. 1,664,235; Mar. 27.
Driving mechanism, One-way. L. Robin and P. de Pontbriere. 1,663,922; Mar. 27.
Drum-operating mechanism. O. E. Clark. 1,664,377; Mar. 27.
Drums, Head for shipping. C. H. Rollason. 1,663,775; Mar. 27.
Dry-battery construction. E. E. Meisekothen. 1,664,126; Mar. 27.
Drying by air circulation, economically. O. P. M. Goss and R. H. Rawson. 1,663,982; Mar. 27.
Drying form, Hosiery-. H. E. Houseman. 1,663,706; Mar. 27.
Drying textile fabrics, Apparatus for. U. Baumann, jr. 1,663,897; Mar. 27.
Dummy, Tackling. H. R. Hart and K. Fitzpatrick. 1,663,659; Mar. 27.
Dyeing designs on fur pelts, Stencil. G. J. Laemmle. 1,663,850; Mar. 27.
Dyeing fur pelts. G. J. Laemmle. 1,663,849; Mar. 27.
Dyes for cotton printing, Red disazo. W. Neelmeier and H. Schneider. 1,663,950; Mar. 27.
Dyestuffs of the triphenyl methane series, New. O. Wahl. 1,663,869; Mar. 27.
Ear-phone holder. W. W. Fisher. 1,664,106; Mar. 27.
Educational device. E. Dwight. 1,664,390; Mar. 27.
Egg candler. W. L. Holzmann. 1,663,704; Mar. 27.
Electric apparatus. A. G. Damm. 1,663,624; Mar. 27.
Electric-arc device. M. Crémer. 1,664,195; Mar. 27.
Electric connection. C. L. M. Ravut. 1,663,730; Mar. 27.
Electric-crystal apparatus, Piezo-. A. Crossley and C. F. Rudolph. 1,663,682; Mar. 27.
Electric discharge device. J. Allen. 1,663,873; Mar. 27.
Electric furnace. I. Rennerfelt. 1,664,132; Mar. 27.
Electric heater. A. J. Kercher and W. W. Hicks. 1,664,177; Mar. 27.
Electric heater. N. Lawner. 1,663,558; Mar. 27.
Electric heater. S. Morse. 1,663,810; Mar. 27.
Electric regulators, Limiting device for. A. Ytterberg. 1,663,674; Mar. 27.
Electric switch. N. G. Copley. 1,663,680; Mar. 27.
Electrical apparatus. J. M. Laler. 1,663,711; Mar. 27.
Electrical connecter device. R. E. Benjamin. 1,663,749; Mar. 27.
Electrical control device. W. H. Reichard. 1,664,088; Mar. 27.

Electrical control system. H. M. Stoller. 1,663,890; Mar. 27.
Electromagnetic device. E. R. Carichoff. 1,664,104; Mar. 27.
Electromagnetic device. N. H. Holland. 1,663,885; Mar. 27.
Electron-discharge device. G. D. O'Neill. 1,663,561; Mar. 27.
Electron-emitting material. C. V. Iredell. 1,663,553; Mar. 27.
Elevators, Controller for electric. E. W. Seeger. 1,664,269; Mar. 27.
Embossing plate and producing the same. C. E. Edwards. 1,663,688; Mar. 27.
Emulsion, Bitumipous. H. R. Gundlach. 1,663,652; Mar. 27.
Engine: *See*—
Internal-combustion engine.
Engines, Indicating device for internal-combustion. S. Jencick. 1,663,600; Mar. 27.
Engines, Valve for internal-combustion. F. A. Howard. 1,664,375; Mar. 27.
Ensilage cutter. J. H. Mott. 1,663,720; Mar. 27.
Evaporator protector. C. W. Schedler. 1,664,133; Mar. 27.
Excavating and conveying apparatus. J. L. Potter. 1,664,184; Mar. 27.
Exerciser and blood circulator. G. S. Smallwood. 1,663,641; Mar. 27.
Exhaust and intake manifold, Combination. W. E. Kemp. 1,663,634; Mar. 27.
Extension table. J. Bader. 1,664,348; Mar. 27.
Extractor: *See*—
Milk-top extractor.
Fabrics, Apparatus for treating printed or dyed. R. W. Jacoby. 1,663,846; Mar. 27.
Fabrics, Treating printed or dyed. R. W. Jacoby. 1,663,845; Mar. 27.
Fan, Ventilating. J. D. Parker. 1,664,183; Mar. 27.
Farnesol, Manufacture of. L. Ruzicka. 1,663,817–8; Mar. 27.
Fastener. F. S. Carr. 1,664,351; Mar. 27.
Fastener, Curtain. J. Vodicka. 1,663,673; Mar. 27.
Fastener for tire chains. F. A. Calkins. 1,664,158; Mar. 27.
Fastener-inserting machine. H. R. Hamilton. 1,663,593; Mar. 27.
Faucet. W. H. Peaden. 1,663,952; Mar. 27.
Feeler movable to distribute wear on yarn. R. G. Turner. 1,664,006; Mar. 27.
Fence-making machine. D. A. Wilson. 1,663,786; Mar. 27.
Fertilizer distributor, Broadcast. J. F. Lavery. 1,664,078; Mar. 27.
Fiber-cleaning device. M. Wehil. 1,664,145; Mar. 27.
Filament for incandescent lamps. G. W. Meister. 1,663,560; Mar. 27.
Filament, Refractory metal. M. N. Rich. 1,663,564; Mar. 27.
Filaments, Method and apparatus for treating. G. R. Shaw and B. F. Tellkamp. 1,664,136; Mar. 27.
File and binder. A. Ashkenas. 1,663,967; Mar. 27.
File, Loose-leaf-suspending. G. Steinmetz. 1,663,617; Mar. 27.
Films, Construction and manufacture of cinematograph positive. J. E. Thornton. 1,663,738; Mar. 27.
Filtering device. A. P. Hall. 1,664,252; Mar. 27.
Filtering materials, Preparing. F. H. Well. 1,664,275; Mar. 27.
Firearm. R. F. Sedgley. 1,664,049; Mar. 27.
Fire bars, grate surfaces, and the like, Preventing scorification of. R. Hopfelt. 1,663,944; Mar. 27.
Fire extinguisher. R. W. Byerly. 1,663,678; Mar. 27.
Fire extinguisher and container for fire-extinguishing liquids and other fluids. R. W. Byerly. 1,663,677; Mar. 27.
Fire extinguisher, container for fire-extinguishing liquids and other fluids, and making the same. A. L. Loomis. 1,663,665; Mar. 27.
Fire-fighting apparatus. W. M. Newton. 1,663,608; Mar. 27.
Fire-resisting composition. J. R. Watson. 1,663,577; Mar. 27.
Fish reel, Free-spool level-wind. J. Kautzky, jr. 1,663,800–1; Mar. 27.
Fishing reels, Attachment for. G. Newville. 1,663,853; Mar. 27.
Flexible coupling. G. A. Ungar. 1,664,052; Mar. 27.
Floor-screed-support device. J. M. Milburn and G. G. Filson. 1,664,370; Mar. 27.
Fluid-displacing apparatus. A. C. Durdin, jr. 1,664,249; Mar. 27.
Fluid-fuel furnace. H. V. Leahy. 1,663,713; Mar. 27.
Fluid pulsations, Minimizing. H. F. Schmidt. 1,663,998; Mar. 27.
Flytrap, Electric. D. Fillier. 1,664,027; Mar. 27.
Flywheel. J. Ranz. 1,663,814; Mar. 27.
Footwear rounding or burnishing machine. A. Abel. 1,664,238; Mar. 27.
Forceps, Surgical. A. Junemann. 1,664,112; Mar. 27.
Forming and threading machine. A. O. Austin. 1,664,101; Mar. 27.
Forming machine for plastic materials. D. K. Macleod. 1,664,178; Mar. 27.
Fountain: *See*—
Water fountain.
Frame: *See*—
Photographic-printing frame. Truck frame.
Ring spinning and doubling frame. Window-screen frame.
Fruit-picking implement. J. L. Boese. 1,664,240; Mar. 27.
Fuel-burning device. W. W. William. 1,664,276; Mar. 27.
Fuel economizer. J. Corbiere. 1,663,903; Mar. 27.
Fuel-feeding means for charge-forming devices. A. G. Redmond. 1,663,611; Mar. 27.
Fuel-mixing device. H. D. Robinson. 1,663,955; Mar. 27.
Fuel-supply system. C. F. Kettering. 1,664,366; Mar. 27.
Fuel-supply system. T. A. Peebles. 1,664,318; Mar. 27.
Funnel. A. Del Rio. 1,664,266; Mar. 27.
Furnace: *See*—
Electric furnace. Locomotive furnace.
Fluid-fuel furnace. Underfeed furnace.
Gas furnace. Warm-air furnace.
Glass furnace.
Furnace. W. A. Gilchrist. 1,664,029; Mar. 27.
Furnace wall. R. A. Foresman. 1,663,977; Mar. 27.
Furnace wall. G. M. Parker. 1,663,773; Mar. 27.
Furnaces, Air-circulating device for warm-air. L. C. Weaver and W. H. Rietz. 1,663,644; Mar. 27.
Furring and fastening device. J. L. Sullivan. 1,664,096; Mar. 27.
Gaiter and boot protector, Combined. W. Reinhardt. 1,663,613; Mar. 27.
Game requiring patience and skill, Angling. W. R. Uhlig. 1,663,962; Mar. 27.
Garment hanger. R. Bass. 1,663,646; Mar. 27.
Garment-holding form. C. H. Tharp. 1,663,573; Mar. 27.
Garment supporter. P. D. Belden. 1,664,345; Mar. 27.
Gas furnace. G. S. Hall. 1,663,835; Mar. 27.
Gas furnace, Refractory. J. Ross. 1,664,267; Mar. 27.
Gas meter. A. G. Cooke and B. C. Phillips. 1,664,193; Mar. 27.
Gas plant, Domestic. A. L. Clark. 1,664,284; Mar. 27.
Gas retort. H. Koppers. 1,663,847; Mar. 27.
Gases, Apparatus for rarefying. J. O. Boving. 1,664,347; Mar. 27.
Gases, Apparatus for treating. E. Ströder. 1,663,734; Mar. 27.
Gauge: *See*—
Air gauge. Liquid gauge.
Gear-ratio-changing mechanism. F. W. Mayer. 1,664,303; Mar. 27.
Generator: *See*—
Power generator.
Glare shield. J. M. Lorenz. 1,664,124; Mar. 27.
Glass: *See*—
Flowing and drawing continuous sheet glass.
Glass-feeding machine. T. C. Steimer. 1,663,925; Mar. 27.
Glass, Flowing and drawing continuous sheet. E. T. Ferngren. 1,663,628; Mar. 27.
Glass furnace. T. B. Hart. 1,663,839; Mar. 27.
Glove, Swimming. G. Virneburg. 1,664,187; Mar. 27.
Goblet or similar article. C. H. Phillips, jr. Des. 74,801; Mar. 27.
Golf-club-grip guide. C. McCullough. 1,664,257; Mar. 27.
Golf game. C. A. Rolfe. 1,663,889; Mar. 27.
Governor. R. G. Handy and A. A. Bull. 1,663,631; Mar. 27.
Grade, Indicator. R. F. Katolin. 1,664,365; Mar. 27.
Grader, Fruit. J. J. Nevills. 1,663,639; Mar. 27.
Grain and grass mowing machine. J. H. Fahr. 1,663,879; Mar. 27.
Grain loader. W. C. Benjamin. 1,663,825; Mar. 27.
Grinder, Lawn-mower. P. A. Anderson. 1,663,823; Mar. 27.
Grinder, Pavement. J. C. Ham. 1,663,759; Mar. 27.
Grinding machine. J. De Koning. 1,664,024; Mar. 27.
Grinding machine. J. N. Heald, A. Turner, and G. C. Kimmel. 1,663,760; Mar. 27.
Grinding machine for safety-razor blades. A. E. Friedrich. 1,663,907; Mar. 27.
Grinding mill, Centrifugal. W. A. Gibson and J. G. Burke. 1,663,881; Mar. 27.
Grinding wheels, Mechanism for truing and dressing. F. J. Hohnhorst and F. J. Kroeger. 1,663,703; Mar. 27.
Grip wheel. O. A. Ellis. 1,663,689; Mar. 27.
Guide, Centerless work. L. F. Nenninger. 1,663,991; Mar. 27.
Guns, Mount for. T. A. Conlon. 1,663,796; Mar. 27.
Gut strings, Making. T. Sarra. 1,664,323; Mar. 27.
Hair cleaner. M. H. Seeger. 1,663,778; Mar. 27.
Hair curler. C. Nessler. 1,663,771; Mar. 27.
Hair, Permanently waving. E. Coulson. 1,664,028; Mar. 27.
Hairpin. F. P. Nief. 1,663,854; Mar. 27.
Hair, Process and apparatus for waving the. H. Steffen. 1,664,000; Mar. 27.
Hair-winding means. C. Nessler. 1,663,772; Mar. 27.
Hammer. A. F. Lutch. 1,663,886; Mar. 27.
Handle: *See*—
Door handle. Tool handle.
Handle grip. E. Fetter. 1,663,694; Mar. 27.

Hanger: *See*—
Garment hanger. Razor hanger.
Harvesters and the like, Cutting mechanism for cone. F. K. Flynn. 1,664,203; Mar. 27.
Hat-packing rings, Forming. W. C. Johnson. 1,663,762; Mar. 27.
Hat stays, Method of and machine for curling. W. C. Johnson. 1,663,763; Mar. 27.
Headgear and making the same. J. Steinberg. 1,664,271; Mar. 27.
Headlight for automobiles, Dirigible. A. E. Daly. 1,664,162; Mar. 27.
Heater: *See*—
Automatic water heater. Switch heater.
Baseboard heater. Water heater.
Electric heater.
Heater. E. Nauer. 1,663,722; Mar. 27.
Heating appliance. J. B. Ehrlich. 1,663,937; Mar. 27.
Heating coil for hot-water systems. J. J. Parkinson. 1,663,562; Mar. 27.
Heating device. A. Pais. 1,663,640; Mar. 27.
Heating devices, Testing electric. H. D. Matthews and R. F. Bisbee. 1,664,221; Mar. 27.
Heating system. W. W. Brisson. 1,663,874; Mar. 27.
Heating system. R. J. Pabodie. 1,664,317; Mar. 27.
High-tension installation. A. O. Austin. 1,664,100; Mar. 27.
Hoe, Garden. W. P. McMillan. 1,663,716; Mar. 27.
Holder for a fountain pen or the like. H. B. Quain. Des. 74,802; Mar. 27.
Holder, Spinning-ring. B. L. Bloom. 1,663,620; Mar. 27.
Hoops for boxes and the like, Device for stretching and fastening. S. Sicard. 1,663,616; Mar. 27.
Hose, Armored. A. E. Caldwell. 1,664,060; Mar. 27.
Hose coupling. J. R. Lowrey. 1,664,125; Mar. 27.
Hose reel. C. D. Hefferman. 1,664,074; Mar. 27.
Husker, Three-row corn. P. Imig. 1,663,843; Mar. 27.
Hydrocarbons, Cracking. G. H. Taber, jr. 1,663,868; Mar. 27.
Hydrofluoric acid from fluoric and silicic substances, Production of. M. Buchner. 1,664,348; Mar. 27.
Hygrometer apparatus. E. A. Ileman. 1,664,035; Mar. 27.
Ice-cream cone. R. C. Turner. Des. 74,812; Mar. 27.
Ignition system. H. C. Walters and J. T. Fitzsimmons. 1,664,338; Mar. 27.
Indicating means. B. F. Hutches, jr. 1,663,661; Mar. 27.
Indicator: *See*—
Direction indicator. Liquid-level indicator.
Grade indicator. Relay operation indicator.
Inflated ball. I. I. Tubbs. 1,664,336; Mar. 27.
Insulated wires, Braid stripper for. B. D. Bender and R. J. Kent. 1,663,748; Mar. 27.
Insulator. G. I. Gilchrest. 1,664,208; Mar. 27.
Insulator. J. R. Heller. 1,664,172; Mar. 27.
Internal-combustion engine. J. Astrom. 1,664,056; Mar. 27.
Internal-combustion engine. D. T. Scott. 1,663,865; Mar. 27.
Internal-combustion engine. A. C. Sinclair. 1,664,091; Mar. 27.
Internal-combustion engine, Double-acting four-cycle. C. E. Augner. 1,664,150; Mar. 27.
Internal-combustion engine, Two-stroke. E. Dutel and J. M. Perdoncini. 1,663,829; Mar. 27.
Internal-combustion engine, Two-stroke. S. D. Olsen. 1,664,086; Mar. 27.
Iron: *See*—
Soldering iron.
Iron, Manufacture of pure. A. Mittasch, C. Müller, and W. Schubardt. 1,663,916; Mar. 27.
Ironing board and table. J. M. Davis. 1,664,355; Mar. 27.
Ironing machine. C. A. Peterson. 1,663,669; Mar. 27.
Ironing machine, Coil-. J. R. Weaver. 1,664,234; Mar. 27.
Jack: *See*—
Pump jack.
Jar or container, Fruit. W. G. Walker. 1,663,822; Mar. 27.
Joint: *See*—
Rail joint.
Joint for door and window trim, Interlocking angle. H. H. Beckanstin. 1,663,968; Mar. 27.
Journal-box lid. L. W. Hostettler. 1,663,705; Mar. 27.
Key-milling machine. H. A. Daum. 1,664,354; Mar. 27.
Kiln, Pottery. A. C. Ward. 1,664,142; Mar. 27.
Kit. W. J. Pickett. 1,663,858; Mar. 27.
Knitting machine, Circular-. H. H. Katzenmoyer. 1,664,299; Mar. 27.
Knitting-machine stop motions, Trip mechanism for. F. Crawford, sr. 1,664,353; Mar. 27.
Labeling machines, Article-positioning means for. C. S. Weeks. 1,664,144; Mar. 27.
Lace. A. E. Newton. Des. 74,799–800; Mar. 27.
Lace medallion, Embroidered. H. Schwarber. Des. 74,806; Mar. 27.
Lacquers, Making. K. Schmidinger. 1,663,733. Mar. 27.
Lamp, Alcohol. G. Knierlemen. 1,664,077; Mar. 27.
Lamp, Automobile. L. Edelmann. Des. 74,786. Mar. 27.
Lamp, Dental wall. C. T. Brady. Des. 74,777; Mar. 27.
Lamp for color matching, perching, and similar purposes, Daylight. L. Stott. 1,664,332; Mar. 27.
Lamp-stem holder. J. J. Higgins. 1,663,550; Mar. 27.
Lamp support. C. F. Haas. Des. 74,791. Mar. 27.
Lamp, Switchboard. H. P. Sparkes. 1,664,228; Mar. 27.
Lantern, Post-top. J. R. Townsend. Des. 74,811; Mar. 27.
Last, Sectional. S. Gubitosi. 1,664,293; Mar. 27.
Latch, Gate. J. Swenka. 1,663,867; Mar. 27.
Latch mechanism. J. Ledwinka. 1,664,122. Mar. 27.
Latch, Notch bolt. T. F. Stuart. 1,663,572; Mar. 27.
Lathe. G. D. Sundstrand. 1,663,670-71; Mar. 27.
Lathe headstock. H. Dalton. 1,663,828; Mar. 27.
Lathes, Drive mechanism for polishing. G. Haumann. 1,663,596; Mar. 27.
Laundry drier. R. W. Yates. 1,664,098; Mar. 27.
Laundry-marking pin. H. M. Perkins. 1,664,087; Mar. 27.
Leather substitute and making the same, Buffing-. R. B. Respess. 1,663,954; Mar. 27.
Lens stop or diaphragm. E. Stewart and J. G. Warren. 1,664,137; Mar. 27.
Level and transit, Convertible. J. Geier. 1,663,546; Mar. 27.
License-plate holder. E. L. Etheridge. 1,664,025; Mar. 27.
License-plate holder. F. Leopold, S. E. Claney, and L. K. Garis. 1,664,302; Mar. 27.
Lifeboat-releasing device. G. W. P. Overman. 1,664,222; Mar. 27.
Lifting mechanism, Drop-box-. C. W. Crane. 1,663,904; Mar. 27.
Light: *See*—
Aeroplane guiding light.
Lighter, Cigar and cigarette. J. C. Stearns. 74,810; Mar. 27.
Lighter, Electric cigar. J. R. Ayotte. 1,663,675; Mar. 27.
Lighting and battery-charging system. J. T. Fitzsimmons. 1,664,358; Mar. 27.
Lighting and ignition switch. E. N. Jacobi. 1,664,110; Mar. 27.
Lighting bracket. A. De Vries. Des. 74,783; Mar. 27.
Lighting fixture. E. F. Guth. Des. 74,790; Mar. 27.
Lighting fixture. E. F. Guth. 1,663,653–4; Mar. 27.
Lighting fixture. E. F. Guth. 1,663,657; Mar. 27.
Lighting fixture for surgical operating room. E. F. Guth. 1,663,655; Mar. 27.
Lighting standard. A. De Vries. Des. 74,784–5; Mar. 27.
Lighting system, Exit-. R. T. Williams. Re16,917; Mar. 27.
Limb brace. C. H. Pierce. 1,663,921; Mar. 27.
Lime-spreading machine. E. Zachrison. 1,663,787; Mar. 27.
Liquid feeder, Gravity. B. Thoens. 1,664,051; Mar. 27.
Liquid gauge. F. Rieber. 1,664,265; Mar. 27.
Liquid-level indicator. T. M. Eynon. 1,664,200; Mar. 27.
Liquids of different specific gravities, Device for separating. E. W. Green. 1,663,651; Mar. 27.
Locating and raising sunken vessels, Device for. J. F. Baine. 1,664,281; Mar. 27.
Lock: *See*—
Oarlock.
Lock. H. A. Hoeschen and J. D. Wear. 1,664,213; Mar. 27.
Locking mechanism. E. W. McGinley. 1,664,042; Mar. 27.
Locomotive boiler. M. M. Crowley. 1,663,585; Mar. 27.
Locomotive furnace, Oil-burning. H. A. Atwater. 1,664,099; Mar. 27.
Loom picking spindles, Support for. C. Parent. 1,663,918; Mar. 27.
Loom to transfer on backward stroke of the lay. R. G. Turner. 1,664,005; Mar. 27.
Loom transferrer arms, Weft detector for. E. H. Ryon. 1,663,956; Mar. 27.
Loom transferrer, Weft detector on. A. J. Chevrette. 1,663,902; Mar. 27.
Loom transferrers, Guard for weft detectors in. K. J. Unwin. 1,663,926; Mar. 27.
Looms, Color indication for multicolor-weft-replenishing. C. R. Howard and R. W. Wagner. 1,663,945; Mar. 27.
Looms, Color indicator for weft-replenishing. A. A. Gordon. 1,663,942; Mar. 27.
Looms, Color indicator for weft-replenishing. E. H. Ryon. 1,663,957; Mar. 27.
Looms for weaving pile or other fabrics, Needle-guiding device for. F. W. Austin. 1,664,014; Mar. 27.
Looms, Pick and pick motion for. A. A. Gordon. 1,663,939; Mar. 27.
Looms, Pile-wire-controlling mechanism for. W. E. Smith. 1,664,327; Mar. 27.
Looms, Revoking mechanism for automatic. A. A. Gordon and A. F. Morrell. 1,663,940; Mar. 27.
Looms, Slide cradle for weft-replenishing. H. H. Watson. 1,663,930; Mar. 27.
Looms, Yarn-tube frame for. J. G. Soderberg and W. W. Robertson. 1,663,924; Mar. 27.
Loud speaker. V. Himmer. Des. 74,792; Mar. 27.
Loud-speaking device. J. C. Benjamin. 1,664,017; Mar 27.
Lubricating apparatus, Detachable handle for. H. J. Murphy. 1,663,606; Mar. 27.
Lubricating means. J. L. Creveling. 1,663,797; Mar. 27.
Machine for die casting pulleys and the like. W. D. Hamerstadt. 1,664,296; Mar. 27.
Machine for dividing and working dough. W. Mohr. 1,664,372; Mar. 27.

Machine for finishing glass tubes, bars, vials, bottles, and the like. L. J. Broche. 1,664,154; Mar. 27.
Machine for punching staples and providing the same with wood-fiber insulation. G. A. Parker. 1,663,812; Mar. 27.
Machinery, Cage-making. D. B. Hanna. 1,664,211; Mar. 27.
Magnesium alloy and making same. W. R. Veazey. 1,663,963; Mar. 27.
Magnet-coil cores, Method of and machine for making. E. E. Hawkinson. 1,664,212; Mar. 27.
Magneto-coil-aligning tool. C. F. Harper. 1,663,595; Mar. 27.
Mail box. G. Rietveld. 1,663,862; Mar. 27.
Marking machine. P. R. Glass. 1,663,588; Mar. 27.
Massaging device, Wheeled. T. H. David. 1,663,975; Mar. 27.
Match-box holder. G. Rietveld. 1,663,861; Mar. 27.
Match-splint machine. S. M. Friede and C. Hakemeyer. 1,663,978; Mar. 27.
Maximum-demand meter. L. W. Chubb. 1,664,243; Mar. 27.
Measuring apparatus. O. V. Holmquist. 1,663,598; Mar. 27.
Measuring device, Electrically-controlled. G. Gourdon. 1,663,590; Mar. 27.
Measuring instrument, Electrical. J. H. Miller. 1,663,768; Mar. 27.
Measuring set, Automatic transmission-. F. H. Best. 1,663,750; Mar. 27.
Meat-roll-forming machine. A. Vanderput. 1,664,337; Mar. 27.
Meats, Processing of. I. N. Jordan. 1,663,707; Mar. 27.
Medicinal roller. J. H. Weber. 1,664,009; Mar. 27.
Metal, Apparatus for hot working. W. von Kossowski. 1,663,576; Mar. 27.
Metal-cutting machine. F. S. Jones. 1,663,556; Mar. 27.
Metal sheets, Method and apparatus for slitting. J. H. Dean. 1,664,247; Mar. 27.
Metallic structure, Soundproofing. G. L. Kelley. 1,664,114; Mar. 27.
Meter: *See*—
Chart-recording meter. Maximum-demand meter.
Gas meter. Milk meter.
Meters, Safety device for gas. G. Mangiaracina. 1,664,179; Mar. 27.
Milk meter. F. J. Bender. 1,663,933; Mar. 27.
Milk-top extractor. W. B. Cotton. 1,664,244; Mar. 27.
Mill: *See*—
Grinding mill. Rolling mill.
Mill appliance, Rolling-. W. A. Irvin. 1,663,844; Mar. 27.
Mining and loading machine. E. C. Morgan. 1,664,128; Mar. 27.
Mining apparatus. M. P. Holmes. 1,664,384–6; Mar. 27.
Mining machine. C. F. Osgood. 1,664,387–8; Mar. 27.
Mining machine. P. Upham. 1,664,383; Mar. 27.
Mirror bracket. J. A. Therasse. 1,663,672; Mar. 27.
Mixing machines, Discharging closure for. L. and J. Eirich. 1,663,830; Mar. 27.
Mold: *See*—
Permanent mold.
Molding machine. H. Tscherning. 1,664,139; Mar. 27.
Mooring airships to mooring masts. W. Auberlin. 1,663,645; Mar. 27.
Motor-control system. H. D. James. 1,664,216; Mar. 27.
Motor regulator. P. F. Shivers. 1,664,325; Mar. 27.
Mower, Lawn. W. F. H. Braun. 1,663,900; Mar. 27.
Mowing machines, Cutter-bar-adjusting mechanism for. E. Baseman. 1,664,102; Mar. 27.
Music-time-counting device. E. H. Welch. 1,664,010; Mar. 27.
Neckband former and stretcher. C. Raditsch. 1,664,381; Mar. 27.
Net-making machines, Reed for. S. Kakuda. 1,664,113; Mar. 27.
Nut-cracking machine. W. E. Giesecke. 1,663,980; Mar. 27.
Oarlock. A. Borkert. 1,664,153; Mar. 27.
Oil and gas burner. M. Madsen. 1,663,667; Mar. 27.
Oil burner. R. R. Ezdorf. 1,663,692; Mar. 27.
Oil burner. J. E. Fowler. 1,663,753; Mar. 27.
Oil burner, Domestic. W. W. Williams. 1,664,339; Mar. 27.
Oil can. C. P. Catlin. Des. 74,779; Mar. 27.
Oiler, Automatic. C. F. Goforth. 1,663,981; Mar. 27.
Oils, Cracking. F. Puening. 1,664,263; Mar. 27.
Oleomargarine, Manufacture of. H. Leroudier. 1,663,913; Mar. 27.
Ophthalmic mounting. F. A. Stevens. 1,664,095; Mar. 27.
Ophthalmic mounting and making the same. F. A. Stevens. 1,664,093; Mar. 27.
Ores containing precious metals, Treating refractory. G. W. B. Evans. 1,664,067; Mar. 27.
Organs, Combination stop action for. E. Verlinden. 1,664,053; Mar. 27.
Ornamental background on stone, Apparatus for producing. E. A. Chase. 1,664,159; Mar. 27.
Oven, Baking. G. R. Baker and C. Dumbleton. 1,663,746; Mar. 27.
Overshoe. C. Kenyon, jr. 1,664,115; Mar. 27.
Overshot. D. H. Rowland. 1,663,614; Mar. 27.
Oxidizing ammonia by means of oxygen. F. G. Liljenroth. 1,663,914; Mar. 27.
Oyster opener. P. Gwisdalla. 1,663,758; Mar. 27.
Packaging machines, Automatic wrapper control for. F. R. Schmitt. 1,664,048; Mar. 27.
Packing case for hats. E. A. Walther. 1,663,928; Mar. 27.
Padlock, Cylinder. J. Junkunc. 1,663,799; Mar. 27.
Pail with non-detachable cover, Garbage. M. L. Brown. 1,663,901; Mar. 27.
Paint. L. M. Wise. 1,664,341; Mar. 27.
Paper-feed control. F. Farmer. 1,664,026; Mar. 27.
Paper or similar material, Cover. A. Labram. Des. 74,794; Mar. 27.
Paper or similar material, Cover. L. Wagner. Des. 74,814; Mar. 27.
Paper, Sizing. J. A. De Cew. 1,663,976; Mar. 27.
Paraffin, Process of and apparatus for recovering. W. A. Gruse and W. F. Faragher. 1,663,592; Mar. 27.
Pavement felt holder. W. H. Knapp. 1,664,037; Mar. 27.
Paving and analogous machines, Turn table equipment for. B. H. Flynn. 1,663,832; Mar. 27.
Peeling machine, Vegetable-. C. B. McCathron. 1,664,304; Mar. 27.
Pencil. F. J. Vierling. 1,664,274; Mar. 27.
Pencil. E. W. Wilson. 1,663,742; Mar. 27.
Pencil, Lead. G. W. Brown. 1,664,058; Mar. 27.
Permanent mold. J. Spousta. 1,663,642; Mar. 27.
Perspiration-proof device for hats, caps, and the like. H. J. Millard. 1,664,307; Mar. 27.
Phonograph. H. J. Küchenmeister. 1,663,664; Mar. 27.
Photographic developers, Preparation of. P. Schestakoff. 1,663,959; Mar. 27.
Photographic-printing frame. H. C. Jones. 1,663,662; Mar. 27.
Piano actions, Bridle for. H. E. Chute. 1,663,538; Mar. 27.
Pianoforte. R. H. Collen. 1,664,191; Mar. 27.
Picks and pick looms, Cutting and clamping mechanism for. A. A. Gordon. 1,663,941; Mar. 27.
Pin: *See*—
Laundry-marking pin. Safety pin.
Pin stems, Joint member for. E. Morehouse. 1,663,605; Mar. 27.
Pipe: *See*—
Tobacco pipe.
Pipe-bending device. J. Sundgren. 1,664,138; Mar. 27.
Pipe coupling. W. D. Himes. 1,663,702; Mar. 27.
Pipe coupling. C. R. Tillotson. 1,663,739; Mar. 27.
Pistol, Fountain-pen-shaped. B. C. Goss. 1,663,884; Mar. 27.
Piston-casting machine. F. L. Feltes. 1,663,693; Mar. 27.
Pistons, Oil-splash lining for. R. Cole. 1,663,795; Mar. 27.
Pistons, Universal joint for. A. E. Reid. 1,663,612; Mar. 27.
Plait folder, Center-. J. Mann. 1,664,079; Mar. 27.
Plow, Orchard. W. L. Paul. 1,663,668; Mar. 27.
Plug adapter, Attachment-. H. B. Sargent. 1,664,090; Mar. 27.
Pneumatic action. J. S. Maxwell. 1,664,041; Mar. 27.
Pocket, Garment. D. Traxler. Re16,916; Mar. 27.
Polish applying and rubbing implement. E. A. Farish. 1,663,545; Mar. 27.
Pop corn, Ear-forming apparatus for. H. M. Laubach. 1,664,120; Mar. 27.
Pot: *See*—
Spinning pot.
Powder, Dental. M. Parisi. 1,664,182; Mar. 27.
Power connection and equivalent device, Releasable. J. S. Coldwell. 1,664,190; Mar. 27.
Power generator, Air-operated. W. L. Hays. 1,663,943; Mar. 27.
Power plant, Automotive steam-. A. C. Staley. 1,664,329; Mar. 27.
Power-plant mounting. A. F. Masury and C. Froesch. 1,664,040; Mar. 27.
Power system, Gas-electric. A. H. Candee. 1,664,242; Mar. 27.
Power-transmission mechanism. J. W. Hughes. 1,664,253; Mar. 27.
Preheater. G. Wilcox. 1,664,055; Mar. 27.
Printing plates, Correcting. L. W. Claybourn. 1,663,876–7; Mar. 27.
Printing presses, Delivery mechanism for. F. E. Rich and F. C. Burdick. 1,663,815; Mar. 27.
Printing presses, Paper-web-connecting mechanism for. T. Johancen and E. Kehoe. 1,664,176; Mar. 27.
Processing and dehydrating apparatus. L. H. Bien. 1,664,018; Mar. 27.
Projection apparatus. L. B. McEwing. 1,664,038; Mar. 27.
Protect checks and similar documents, Apparatus destined to. A. and A. Bonavia y Ripoll. 1,663,816; Mar. 27.
Protective device. E. E. F. Creighton. 1,664,194; Mar. 27.
Protective device. O. C. Traver. 1,664,097; Mar. 27.
Pulleys, Making. W. D. Hamerstadt. 1,664,360–1; Mar. 27.
Pump. C. I. Williams. 1,663,964; Mar. 27.

Pump jack. W. G. and K. R. Jensen. 1,664,364; Mar. 27.
Pump plunger. J. E. Phelps. 1,663,610; Mar. 27.
Pump, Valveless air. P. Voreaux. 1,663,927; Mar. 27.
Punch for attaching labels, etc. L. M. Feathers. 1,664,289; Mar. 27.
Puzzle. J. M. Schneider. 1,663,568; Mar. 27.
Rack: *See*—
Display rack.
Rack-foot connection. C. C. Reed. 1,663,997; Mar. 27.
Radiator-cap ornament and traffic signal, Combined. R. Fisher. Des. 74,788; Mar. 27.
Radiator decoration, Automobile. I. W. Van Gunten. Des. 74,813; Mar. 27.
Radio apparatus. M. H. Loughridge and J. S. Holliday. 1,663,635; Mar. 27.
Radio loud-speaker assembly. R. H. Bryant. 1,664,241; Mar. 27.
Radio or radiophone receiving-set demonstrator. A. B. Wolfe. 1,663,743; Mar. 27.
Radioreceiver. G. F. Borkman. 1,663,583; Mar. 27.
Rail brace, Railway-. J. G. Mueller. 1,663,811; Mar. 27.
Rail-fastening construction. W. Cook. 1,663,974; Mar. 27.
Rail-joint adjuster. J. H. Morgan. 1,663,769–70; Mar. 27.
Rail joint, Reenforced step. V. C. Armstrong. 1,663,619; Mar. 27.
Railroad crossing. R. E. Cotter. 1,664,061; Mar. 27.
Railroad tie. B. Haskell. 1,663,984; Mar. 27.
Railroads, Block-signal system for. W. W. Wenholz. 1,664,054; Mar. 27.
Rail tie. J. G. Durant, jr. 1,664,288; Mar. 27.
Railway, Elevated suspended. O. A. Ellis. 1,663,690; Mar. 27.
Railway-frog point. C. M. Lefew. 1,663,714; Mar. 27.
Railway vehicle. J. H. de Iongh. 1,663,626; Mar. 27.
Raincoat. G. D. Mueller. 1,664,309; Mar. 27.
Rake: *See*—
Side-delivery rake.
Range vent. F. F. Forshee. 1,664,206; Mar. 27.
Razor, Electric safety. S. W. Moon. 1,663,809; Mar. 27.
Razor hanger, Safety. R. Doner. 1,663,875; Mar. 27.
Razor, Safety. R. Aguilar. 1,664,279; Mar. 27.
Receiver, Loud-speaking. S. E. Witt. 1,664,012; Mar. 27.
Receptacle. P. Strange. 1,663,618; Mar. 27.
Receptacle-filling machine. C. W. Stone, R. R. Bumbaugh, J. Dan. 1,664,002; Mar. 27.
Recorder: *See*—
Vibration recorder.
Reel: *See*—
Fish reel. Wire reel.
Hose reel.
Reenforcing clip. E. D. Hallman. 1,663,909; Mar. 27.
Refractory article and making same. A. F. Hottinger. 1,663,660; Mar. 27.
Refractory material and the activation thereof. W. B. Gero. 1,663,547; Mar. 27.
Regulating the admixture of a solution to running water, Apparatus for. I. Rosenberg. 1,664,046; Mar. 27.
Regulator: *See*—
Motor regulator.
Regulator system employing electron-discharge devices. H. M. Stroller and E. R. Morton. 1,663,891; Mar. 27.
Relay operation indicator. H. P. Sleeper. 1,664,326; Mar. 27.
Retort. F. L. Hoyt. 1,663,912; Mar. 27
Reversing mechanism. C. O. Guernsey. 1,664,209; Mar. 27.
Revolving-hook machine. M. Hemleb. 1,664,032; Mar. 27.
Rheostat, Electrolytic. E. L. Holmes. 1,663,552; Mar. 27.
Ridger. W. L Paul. 1,663,813; Mar. 27.
Ring spinning and doubling frame. R. W. Edge. 1,664,066; Mar. 27.
Road-making material. H. A. Battalion. 1,663,824; Mar. 27.
Roadway with traffic-control marking. B. Foster. 1,664,070; Mar. 27.
Rod: *See*—
Self-adjusting connecting rod.
Roller: *See*—
Carpet roller. Medicinal roller.
Rolling mill. T. V. Buckwalter. 1,664,156–7; Mar. 27.
Rolling mill. J. H. Van Campen. 1,664,141; Mar. 27.
Roofing material. T. Robinson. 1,663,565; Mar. 27.
Roofs, walls, doors, panels, and other parts of buildings and structures, Surface of. G. W. Mullins and G. Squiers. 1,664,261; Mar. 27.
Rope. T. Gore. 1,663,589; Mar. 27.
Rosser. C. E. Clowes. 1,663,794; Mar. 27.
Rotary cutter. F. P. Miller. 1,664,083; Mar. 27.
Rotary cutter. A. Zimmiewicz. 1,663,788; Mar. 27.
Rubber articles, Manufacturing. E. W. Dunbar. 1,663,587; Mar. 27.
Rubbing plate, Adjustable. H. E. Campbell. 1,664,373; Mar. 27.
Safety pin. A. Dvorak. 1,664,198; Mar. 27.
Salt shaker. C. E. Fisher. 1,664,068; Mar. 27.
Sanitary-napkin holder. S. Katz. 1,664,298; Mar. 27.
Scale. J. B. Kelly. 1,664,217; Mar. 27.
Scale, Predetermined-weight. C. H. Hapgood. 1,663,983; Mar. 27.
Scale, Weighing. F. H. Chapman. 1,663,973; Mar. 27.
Scale, Weighing. H. O. Hem. 1,663,985; Mar. 27.
Scale, Weighing. S. N. Hurt. 1,663,980; Mar. 27.
Scale, Weighing. C. G. Strubler. 1,664,003; Mar. 27.
Scalp-treating appliance. T. S. Harris. 1,664,168; Mar. 27.
Scarf. M. S. Wagner. 1,663,898; Mar. 27.
Scavenging device for double-acting two-stroke internal-combustion engines. G. J. Lagt. 1,663,638; Mar. 27.
Scoring apparatus. W. W. Spargo. 1,663,781; Mar. 27.
Scraper, Road. J. B. Bartholomew. 1,663,581; Mar. 27.
Scupper. E. Sargent. 1,663,777; Mar. 27.
Sealing device, Bottle-. B. Wood. 1,664,147; Mar. 27.
Seaming machine, Double-. F. Huntar. 1,663,842; Mar. 27.
Seat construction for automobile bodies, Folding-. F. Bunevac. 1,663,827; Mar. 27.
Seat mount, Resilient. C. Pallenberg. 1,664,129; Mar. 27.
Secondary battery. J. Vaughan-Sherrin. 1,663,741; Mar. 27.
Self-aligning bearing structure and making same. C. Claus. 1,664,189; Mar. 27.
Separating various constituents from mixed materials and apparatus for accomplishing said separation. P. H. Royster and W. W. Odell. 1,663,863; Mar. 27.
Shade. W. S. Shaft. 1,663,819; Mar. 27.
Shade holder for candles. D. M. Stewart. 1,664,001; Mar. 27.
Sheet detector and stop. A. Broadmeyer. 1,664,057; Mar. 27.
Shingle. N. P. Harshberger. 1,663,658; Mar. 27.
Shingle and making same, Split. F. L. Dietz. 1,663,905; Mar. 27.
Shingle construction. R. J. Deans. 1,664,285; Mar. 27.
Shipping-box structure. K. I. Miller. 1,664,308; Mar. 27.
Shock-absorbing mechanism. J. F. O'Connor. 1,664,312; Mar. 27.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,663,992–4; Mar. 27.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,664,313–14; Mar. 27.
Shoe. T. J. Fitz Harris. Des. 74,789; Mar. 27.
Shoe cleaner. C. Bruderlein. 1,663,972; Mar. 27.
Shoes, Method of and last for making turned. J. Edwards. 1,664,199; Mar. 27.
Shoveling machine. E. C. Morgan. 1,663,917; Mar. 27.
Side-delivery rake. L. R. Clausen. 1,663,793; Mar. 27.
Sign-receptacle ring. M. N. Russell. Des. 74,804; Mar. 27.
Signal: *See*—
Automobile signal. Telephone signal.
Direction signal. Vehicle signal.
Signal device, Automatic railroad safety. M. Jeney and P. Orban. 1,664,297; Mar. 27.
Signal system for railroads, Block-. W. S. Henry. 1,664,108; Mar. 27.
Signal-transmission system. R. B. Meyer and L. C. Young. 1,663,717; Mar. 27.
Signaling apparatus. J. C. Gabriel and G. M. Thurston. 1,663,880; Mar. 27.
Silvering and beveling small mirrors. B. F. Kelly. 1,664,300; Mar. 27.
Siphon. F. J. Havelick. 1,663,840; Mar. 27.
Slabs, Device for forming. G. C. Martin. 1,663,805; Mar. 27.
Slack adjuster. J. W. Clark. 1,663,623; Mar. 27.
Slicing machine. J. W. Buck. 1,663,543; Mar. 27.
Slicing machine, Self-reversing. H. Rossow. 1,663,776; Mar. 27.
Slicing machines, Slice deflector for. H. Thomas. 1,663,634; Mar. 27.
Slicing machines, Slice deflector for. H. Thomas. 1,663,782; Mar. 27.
Smoker's stand. A. Kappenberg. 1,663,601; Mar. 27.
Smoking stand. A. A. Smallhouse. Des. 74,807; Mar. 27.
Snap switch. S. A. Meyers. 1,664,380; Mar. 27.
Soap, Making rosin. C. C. Kesler. 1,663,764; Mar. 27.
Socket and reflector construction. P. A. Powers. 1,664,262; Mar. 27.
Socket, Tube. L. D. Burgesser. 1,663,544; Mar. 27.
Soldering iron. R. Magrisso. 1,664,367; Mar. 27.
Sound, Apparatus for producing. F. W. Falck. 1,663,831; Mar. 27.
Sound conduit for sound-recording and sound-reproducing instrument. E. Finking. 1,663,906; Mar. 27.
Spark plug. J. G. Dickson. 1,664,064; Mar. 27.
Spectacle temple and making the same. F. A. Stevens. 1,664,094; Mar. 27.
Speed-control system. L. Schombourger and H. K. Schrage. 1,664,134; Mar. 27.
Spindle machine, Multiple-. L. G. Daniels. 1,664,374; Mar. 27.
Spinning pot. C. C. Jessen. 1,663,555; Mar. 27.
Splint catcher. A. Hansen and L. Gaarder. 1,663,699; Mar. 27.
Spraying device. H. C. Baumgardner. 1,663,676; Mar. 27.
Stair-rail structure, Ornamental iron. R. L. Mapson. 1,664,080; Mar. 27.
Stand: *See*—
Display stand. Smoker's stand.
Static-reducing system. J. Slepian. 1,664,227; Mar. 27.

Stencil sheet. S. Horil. 1,664,033; Mar. 27.
Stepladder. A. T. Haywood. 1,664,073; Mar. 27.
Sterilizer. G. H. Hollenback. 1,663,841; Mar. 27.
Stock pusher. F. L. Cone. 1,664,062; Mar. 27.
Stock waterer. O. O. Anderson. 1,663,789; Mar. 27.
Stoker. N. M. Lower. 1,663,637; Mar. 27.
Stoker. N. M. Lower and P. A. Ketchpel. 1,663,636; Mar. 27.
Stool. W. Maude. 1,663,603; Mar. 27.
Storage-battery plates, Spacing and supporting bridge for. W. E. Gossling. 1,663,698; Mar. 27.
Storage unit, Energy-. A. P. Brush. 1,663,647; Mar. 27.
Stove. S. V. Reeves. 1,664,045; Mar. 27.
Stove, Gas heating. W. F. Zick. 1,664,277; Mar. 27.
Stove-top construction. A. H. Tinnerman. 1,664,004; Mar. 27.
Stove with float-operated shut-off valve. H. C. Hanson. 1,663,700; Mar. 27.
Strap: *See*—
Book strap.
Stuffing, Manufacturing. G. J. Miller. 1,663,852; Mar. 27.
Substances into solutions and withdrawing them therefrom and for analogous purposes, Apparatus for intermittently introducing. K. S. Mills. 1,664,127; Mar. 27.
Supercharger, Explosion-engine. R. J. P. E. Cosette. 1,663,936; Mar. 27.
Surgical instrument. G. A. Johnson. 1,663,761; Mar. 27.
Swimming circle. J. D. Tucker. 1,664,140; Mar. 27.
Switch: *See*—
Dimmer wall switch. Snap switch.
Electric switch. Thermostatic switch.
Switch. E. M. Soreng. 1,663,779; Mar. 27.
Switch for oil-well motors, Automatic. W. Werner. 1,663,578; Mar. 27.
Switch heater. C. W. Moffett and M. R. Briney. 1,664,371; Mar. 27.
Table: *See*—
Extension table.
Table and ironing-machine support, Combined. F. M. Case. 1,663,792; Mar. 27.
Table for infants, Bathing. L. Peabody. 1,663,609; Mar. 27.
Table top, Metal. J. E. Glockler. 1,664,292; Mar. 27.
Tank: *See*—
Car tank.
Tank-filling tube. L. Kessler. 1,663,947; Mar. 27.
Tape, webbing, gimp, braid, and similar materials, Device for the manufacture of. C. Ernestus and W. Lusebrink. 1,664,357; Mar. 27.
Target-throwing trap. W. I. Spangler. 1,663,780; Mar. 27.
Tee-forming device. E. L. Bass. 1,663,536; Mar. 27.
Teeth, Process and device for operating upon human. J. Maurer. 1,664,369; Mar. 27.
Telephone-exchange system. H. M. Bascom. 1,663,747; Mar. 27.
Telephone system, Automatic. R. G. Richardson. 1,663,860; Mar. 27.
Telephone system, Automatic. J. Wicks. 1,664,011; Mar. 27.
Telephony, Method of and apparatus for. S. Loewe. 1,664,220; Mar. 27.
Teller's cage. E. E. Cronenweth. 1,663,681; Mar. 27.
Template for doors and windows. R. L. Humphrey. 1,664,076; Mar. 27.
Testing and sorting material, Method and apparatus for. J. G. Bellinger. 1,663,539; Mar. 27.
Tetra-ethyl lead, Manufacturing. W. S. Calcott, A. E. Parmelee and F. R. Lorriman. 1,664,021; Mar. 27.
Textile fabric. A. H. Bien. Des. 74,776; Mar. 27.
Textile fabric. J. Derk. Des. 74,782; Mar. 27.
Textile fabric. J. Mack. Des. 74,796–7; Mar. 27.
Thermometer. R. E. Mann. Des. 74,798; Mar. 27.
Thermostat. G. G. Royer. 1,663,566; Mar. 27.
Thermostatic control for generators. C. Ringwald. 1,664,089; Mar. 27.
Thermostatic cut-off. A. Stockstrom. 1,664,331; Mar. 27.
Thermostatic switch. C. J. Fay. 1,664,201; Mar. 27.
Thread-spooling machines, Skein holder for. X. Brügger. 1,664,155; Mar. 27.
Tie: *See*—
Rail tie. Railroad tie.
Tire casings, Building. T. Midgley. 1,664,259; Mar. 27.
Tire factories, Bead-ring remover for use in. F. Goodall. 1,663,697; Mar. 27.
Tire-finishing machine. H. A. Denmire. 1,664,163; Mar. 27.
Tire, Wheel. E. W. Coleman. 1,664,352; Mar. 27.
Tobacco can and cigarette-paper holder, Combined. S. M. Clement. 1,664,160; Mar. 27.
Tobacco pipe. E. Kratochvil. 1,664,117; Mar. 27.
Tobacco pipe. G. H. Wilson. 1,664,340; Mar. 27.
Tobacco-pipe ventilator. J. Wilson. 1,664,146; Mar. 27.
Toe-board plate. J. F. Duffy. 1,663,586; Mar. 27.
Toilet-paper-roll-securing device. S. Zido. 1,664,278; Mar. 27.
Tool and swab, Combination washing. A. Boynton. 1,664,288; Mar. 27.
Tool box. C. A. Coyle. 1,664,245; Mar. 27.
Tool, Combination. M. Koske. 1,663,848; Mar. 27.
Tool, Combination. R. L. Means. 1,664,081; Mar. 27.
Tool, Combination. U. E. Tuomi. 1,663,821; Mar. 27.
Tool, Cutting. A. Cornell. 1,663,935; Mar. 27.
Tool for bailing and removing of plants. B. H. Singletary. 1,663,999; Mar. 27.
Tool handle. E. R. Rier. 1,663,826; Mar. 27.
Tool, Splicing. J. P. Snapp. 1,663,966; Mar. 27.
Tools, Chuck for hand. A. Wickner. 1,664,236; Mar. 27.
Torpedo guard. J. Greenwich. 1,664,167; Mar. 27.
Toy. V. P. Ragenovic. 1,663,729; Mar. 27.
Toy bomb. F. J. Carpenter. 1,663,679; Mar. 27.
Track-circuit system. A. G. Williamson. 1,664,382; Mar. 27.
Traffic signal for motor vehicles. J. L. Donley. 1,664,105; Mar. 27.
Transferrer mechanism, Revoking means for regularly-actuated. O. V. Payne. 1,663,919; Mar. 27.
Transformer for vacuum-tube amplifiers, Intertube. M. C. Batsel. 1,664,239; Mar. 27.
Transmission for shafts. G. A. Burrow. 1,664,349; Mar. 27.
Transmission mechanism. K. R. Harmon. 1,663,838; Mar. 27.
Transmitter, Electric power. J. M. Naul. 1,663,607; Mar. 27.
Treating nut kernels. J. A. Thompson and W. S. Hough. 1,664,334; Mar. 27.
Trellis. J. W. Blackman. 1,664,019; Mar. 27.
Truck. F. R. Shedd. 1,663,571; Mar. 27.
Truck, Booster-motor. H. M. Pfiager. 1,663,727; Mar. 27.
Truck construction for electric locomotives. R. F. Hall. 1,663,548; Mar. 27.
Truck, Dumping. P. A. Brick. 1,663,537; Mar. 27.
Truck frame, Mine-car-. J. R. Fleming. 1,664,069; Mar. 27.
Tube: *See*—
Tank-filling tube.
Tube and making same. J. R. Gammeter. 1,663,754; Mar. 27.
Tube filler. A. Fraass. 1,663,696; Mar. 27.
Tube frame for holding spools of tuft yarn. F. W. Austin. 1,664,015; Mar. 27.
Tube-making apparatus. J. O. Goodwin. 1,663,756; Mar. 27.
Tubes, Apparatus for making lap-welded. J. H. Matheson. 1,664,379; Mar. 27.
Turbine-blade lashing. J. L. Ray. 1,663,563; Mar. 27.
2,3-hydroxynaphthoic arylides, Manufacture of sulphonamides of. J. B. Payman and H. Wignall. 1,663,725; Mar. 27.
Typesetting and line-casting machine. W. Buswell. 1,663,541; Mar. 27.
Typographical machine. J. G. McNamara. 1,664,258; Mar. 27.
Underfeed furnace. R. B. Mildon. 1,664,082; Mar. 27.
Undergarment construction. I. G. Hudson. 1,664,214; Mar. 27.
Utensil, Brewing. A. E. Silver. 1,664,226; Mar. 27.
Vacuum-cleaner brushes and the like, Bearing construction for. H. T. Lang. 1,664,218; Mar. 27.
Vacuum electric tube device. E. Y. Robinson and W. J. Brown. 1,664,225; Mar. 27.
Valve. G. F. Shevlin. 1,664,270; Mar. 27.
Valve, Automatic discharge. W. A. Bradley. 1,664,020; Mar. 27.
Valve, Compressor. H. E. Thompson. 1,663,737; Mar. 27.
Valve, Control. W. Scrimgeour. 1,664,135; Mar. 27.
Valve-control apparatus. E. T. Vincent. 1,664,233; Mar. 27.
Valve, Flush. E. G. Hedges. 1,663,701; Mar. 27.
Valve-operating mechanism. J. S. Kennedy. 1,663,557; Mar. 27.
Valve, Plate. W. A. Milan. 1,664,306; Mar. 27.
Valve, Triple. H. Hansen. 1,663,837; Mar. 27.
Valves, Making two-piece. W. H. Washburne. 1,663,784; Mar. 27.
Vapor tower. H. A. Wier. 1,664,237; Mar. 27.
Vaporizer for internal-combustion engine. M. Woodsome. 1,663,931; Mar. 27.
Variable-resistance indicator. T. M. Eynon. 1,664,250; Mar. 27.
Vehicle boiler, Steam automotive-. A. C. Staley. 1,664,328; Mar. 27.
Vehicle brake. L. Coatalen. Re16,918; Mar. 27.
Vehicle chassis. G. W. Ray. 1,664,131; Mar. 27.
Vehicle, Child's. E. Reek. Des. 74,803; Mar. 27.
Vehicle signal. W. Critser. 1,664,063; Mar. 27.
Vehicle signal. R. M. Everett. 1,663,691; Mar. 27.
Vehicle signal casing. G. T. Smith. Des. 74,808; Mar. 27.
Vehicle ventilator. W. S. Hamm. 1,663,630; Mar. 27.
Vehicles, Removable cushion for. J. Ledwinka. 1,664,121; Mar. 27.
Vehicles, Supporting unit for. H. C. McCleary. 1,664,305; Mar. 27.
Vehicles, Winter traction equipment for motor. P. C. Laporte. 1,663,946; Mar. 27.
Vending machine, Pencil-. A. B. Dishman. 1,664,286; Mar. 27.
Ventilating system. C. Froesch. 1,663,650; Mar. 27.
Ventilator: *See*—
Tobacco-pipe ventilator. Vehicle ventilator.
Vibration recorder. C. I. Hall. 1,664,210; Mar. 27.

Vibratory energy, Device for the transmission of. H. C. Harrison. 1,663,884; Mar. 27.
Vulcanizing apparatus. J. R. Gammeter. 1,663,979; Mar. 27.
Wardrobe, Portable. A. S. Lawton. 1,663,949; Mar. 27.
Warm-air furnace. R. M. Judd, E. C. Taylor, and R. S. McNaney. 1,663,633; Mar. 27.
Washer-setting machine. M. G. Bertone. 1,664,346; Mar. 27.
Washing apparatus. H. C. Heath. 1,663,911; Mar. 27.
Washing machine. O. L. and N. A. Lafferier. 1,664,118; Mar. 27.
Washing machine with folding wringer. H. D. Payne, A. W. De Clerque, and S. T. Soberg. 1,664,223; Mar. 27.
Washing-machine wringer. A. C. Lyons. 1,663,767; Mar. 27.
Water fountain, Poultry. F. R. Thalken. 1,664,186; Mar. 27.
Water heater. T. A. M. Stevenson. 1,664,330; Mar. 27.
Water heater, Automatic. H. J. Lyons. 1,663,559; Mar. 27.
Water-tube boiler. O. H. Hartmann. 1,663,910; Mar. 27.
Wave signaling system. M. Latour. 1,663,712; Mar. 27.
Weather strip. F. Reese. 1,664,264; Mar. 27.
Weather strip. F. Reese. 1,664,322; Mar. 27.
Weft detector in transferrer arm. R. G. Turner. 1,664,007; Mar. 27.
Weft detector in transferrer arm. H. H. Watson. 1,663,929; Mar. 27.
Weft detector, Normally stationary inertia-actuated. W. H. Wakefield. 1,664,008; Mar. 27.
Weft detector, Slide-slip. A. Cederlund. 1,663,934; Mar. 27.
Weft-detector-withdrawing means. V. H. Jennings. 1,663,946; Mar. 27.
Weft-replenishing mechanism, Give way for. O. V. Payne and R. G. Turner. 1,663,951; Mar. 27.
Welding apparatus, Electric. A. Churchward. 1,664,022; Mar. 27.
Welding-machine attachment, Electric. C. W. Holstein. 1,664,173; Mar. 27.
Welding, Method of and apparatus for electric resistance. J. H. Gravell. 1,664,030; Mar. 27.
Welding of can bodies, Electric. J. F. Brenzinger. 1,663,970; Mar. 27.
Wheel: *See*—
Cushion wheel. Grip wheel.
Whistle. C. Cooper. 1,663,648; Mar. 27.
Window. S. Ballner. 1,664,016; Mar. 27.
Window. D. B. Whistler. 1,663,870; Mar. 27.
Window construction. F. Ziganek and W. E. Mettler. 1,663,932; Mar. 27.
Window-screen frame. O. V. Nelson. 1,664,311; Mar. 27.
Windshield wiper. J. Moskovitz and W. Peretz. 1,663,666; Mar. 27.
Wiper. F. Owens. 1,664,316; Mar. 27.
Wire, Apparatus for manufacturing barbed. O. Schmid. 1,663,615; Mar. 27.
Wire reel. G. W. Landis. 1,663,766; Mar. 27.
Wire straightening and cutting machine. W. E. Bowler. 1,663,969; Mar. 27.
Wireless receiving set. F. Conrad. 1,664,192; Mar. 27.
Wireless-telegraph receiving apparatus. H. W. McLachlan and A. W. Langridge. 1,664,039; Mar. 27.
Wireworking machine. J. F. Kamen. 1,663,663; Mar. 27.
Woodworking machines, Cutter head for. L. B. Whipple. 1,663,894; Mar. 27.
Work-holding appliance. J. F. Feehery. 1,664,202; Mar. 27.
Wrapping machine, Paper-roll-. G. Meyer-Jagenberg. 1,663,554; Mar. 27.
Wrapping machines, Marking device for. M. E. Foernsler. 1,664,028; Mar. 27.
Wrench. A. W. Peterson. 1,663,920; Mar. 27.
Wringer: *See*—
Washing-machine wringer.
Writing implement. F. Furedy. 1,664,071; Mar. 27.
Writing implement, Adjustable. F. Furedy. 1,664,166; Mar. 27.
Yarn and making same, Waterproof. J. C. Peabody. 1,663,953; Mar. 27.
Yarn ballooner. M. N. Almquest and A. B. Jablonski. 1,664,149; Mar. 27.
Yarn clearer or the like. B. A. Peterson. 1,663,856–7; Mar. 27.

CLASSIFICATION OF PATENTS

ISSUED MARCH 27, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.

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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (ª).]

ERRATA.

1,665,759, page 421, in the heading, assignment, name of assignee, after the word "Company" insert the word *Inc.*

Patents Nos. 1,664,391 to No. 1,665,197.

THE

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Designs	38	No. 74,815 to No.	74,852, inclusive.
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Total	1,145		

Adjudicated Patents.

(D. C. Mass.) The Hopkins patents, Nos. 1,082,331 and 1,082,463, for candy-wrapping machine, *Held* infringed by reconstruction of machines by purchaser for purpose of wrapping different size of candy. *Ideal Wrapping Machine Co.* v. *George Close Co.*, 23 F. (2d) 848.

(C. C. A. Mass.) The Taylor patent, No. 1,279,936, for improvements in footballs and basket balls involving valved air tube and cover with inside flap, claim 5 *Held* anticipated. *Seamless Rubber Co.* v. *Stall & Dean Mfg. Co.*, 23 F. (2d) 820.

(C. C. A. Ill.) The Wessels patent, No. 1,399,174, for metal trim for top edges of laundry tubs, claims 4, 5, and 6 *Held* invalid for lack of invention. *Wessels* v. *Chicago Granitine Mfg. Co.*, 23 F. (2d) 781.

(C. C. A. Pa.) The Lambert patent, No. 1,558,187, for knife sharpener, *Held* invalid for lack of invention. *Lambert* v. *Phillips Lafitte Co.*, 23 F. (2d) 818.

(C. C. A. Mass.) The Taylor reissue patent, No. 15,755, for improvements in footballs and basket balls, claims 1, 2, and 3 *Held* anticipated. *Seamless Rubber Co.* v. *Stall & Dean Mfg. Co.*, 23 F. (2d) 820.

AMENDMENT TO RULES OF PRACTICE.

(Order No. 2,984.)

Effective January 1, 1927, Rule 73 is amended by inserting after paragraph 1 a paragraph to read as follows:

"The original numbering of the claims must be preserved throughout the prosecution. When the application is ready for allowance the Examiner will renumber the claims consecutively in such order as requested by the applicant or as indicated when the claims were first presented. Where claims are added by amendment or substituted for canceled claims they must be numbered by the applicant consecutively, beginning with the number next following the highest numbered claim previously in the case. Provided, however, that where a substitute claim either rewritten to include amendments already made, or to take the place of another claim, is presented and the applicant desires it to finally appear in the relative position occupied by the canceled claim, the substitute claim will be given the number it would have if it were an added claim, and the number will be followed by a directing clause as, for example: Claim 16 (to take the place of claim 3), or claim 24 (to follow claim 2). When, by subsequent amendment, still another claim is substituted for a substitute claim already presented, such last presented claim should be given the number following the highest numbered claim previously in the case and this should be followed by such a directing clause as will indicate the desired final position of the claim with respect to the other claims."

November 1, 1926.

THOMAS E. ROBERTSON,
Commissioner.

This amended rule will apply to all amendments filed after January 1, 1927, whether the applications were filed before or after that date.

Applicants and attorneys are requested to assist in carrying out the simplified system contemplated by the rule with the least possible confusion by carefully observing its provisions in amending their cases.

Condition of Applications Under Examination at Close of Business March 23, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 96,247; Trade-Mark Division, 2,187. Oldest new case, June 8, 1927; oldest amended, June 23, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application awaiting office action.	Oldest amended action by applicant awaiting office action.	No. of applications awaiting action.
		New.	Amended	
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 23	Aug. 8	1,468
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Sept. 29	Oct. 4	1,305
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 8	Oct. 5	1,924
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	June 30	July 8	2,126
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	July 29	July 29	1,451
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Aug. 22	Sept. 20	2,348
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	July 20	July 26	2,259
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Sept. 2	Sept. 20	1,899
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 3	Nov. 7	1,496
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 11	Oct. 27	1,747
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather; Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 3	Oct. 4	1,407
380	12. PIERCE, P. F., Machine Elements	July 5	July 26	1,858
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Aug. 31	Aug. 4	1,864
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 11	July 5	1,616
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Aug. 29	Sept. 14	1,997
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Sept. 28	Oct. 17	1,323
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Sept. 3	Sept. 27	1,149
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 6	Aug. 29	1,350
236	19. GLASCOCK, E. S., Furnaces, Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Oct. 15	Sept. 29	1,387
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Nov. 5	Nov. 10	1,357
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 12	Sept. 14	1,302
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 10	Sept. 6	1,615
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	July 11	June 24	1,412
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 22	July 16	1,488
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 1	Sept. 29	1,934
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 16	July 20	1,281
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 19	Nov. 1	1,334
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 20	Aug. 20	1,919
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 15	July 18	1,737
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	July 29	Nov. 4	1,601
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Sept. 6	Aug. 20	2,464
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 25	Aug. 19	1,820
152	33. WYMAN, W. L., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Nov. 17	Nov. 10	1,917
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 27	June 23	1,394
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 14	Nov. 7	1,452
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Oct. 19	Oct. 28	1,570
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Aug. 19	Sept. 6	1,946
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Sept. 7	Sept. 14	1,665
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 8	July 11	1,503
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Aug. 6	Aug. 24	2,348
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Oct. 10	Oct. 20	981
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Aug. 8	Aug. 5	1,927
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Sept. 6	Oct. 1	2,053
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	July 12	Aug. 3	1,849
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 21	Nov. 1	1,297
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 1	Aug. 16	1,602
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Aug. 17	Sept. 2	2,501
213*	48. ROEPKE, O. B., Electricity, General Applications	Sept. 21	Sept. 20	1,394
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 15	Sept. 22	1,372
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Aug. 29	Sept. 2	2,328
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Aug. 29	Sept. 2	1,985
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Sept. 26	Sept. 30	2,152
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Aug. 24	Aug. 24	1,593
241*	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Aug. 31	Sept. 8	2,097
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery	Aug. 5	Aug. 25	875
	{ Designs	†Feb. 13	†Feb. 23	849
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	June 24	July 20	2,350
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND { Trade-Marks	†Feb. 24	†Mar. 10	1,926
	{ Labels and Prints	†Feb. 17	†Mar. 9	261

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

BARBER *v.* WINTER.

Decided April 2, 1926.

1. INTERFERENCE—TESTIMONY—COMPETENCY.

Testimony of a witness, testifying as an expert on the integrity of documents, with relation to certain exhibits *Held* improperly excluded on the ground that the witness stated that he had previously read from a report made by him, since the witness was testifying as an expert and deducing conclusions from certain facts which, in his opinion, existed in the documents in question.

2. SAME—SAME.

Testimony of an expert that, in his opinion, certain exhibits had been altered *Held* insufficient to establish such alteration, since if the sketch was altered at the time it was witnessed and in the presence of the witness the alteration would not have been improper and since the age of a document can not be determined with accuracy from the appearance of the ink.

3. SAME—PRIORITY—DILIGENCE.

Testimony of the party first to conceive, but the last to reduce the invention to practice, as to his poverty and inability to obtain during the war steel from which to manufacture the device, *Held* insufficient to establish excuse for lack of diligence, since the record shows that he borrowed large sums of money during the time in question and that steel could be obtained in small quantities without difficulty during that period.

[Decision affirmed by the Court of Appeals of the District of Columbia, 369 O. G. 4.]

APPEAL from Examiners in Chief.

Messrs. Darby & Darby for Barber.

Messrs. Cromwell, Greist & Warden and *Messrs. Milans & Milans* for Winter.

MOORE, *Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming the decision of the Examiner of Interferences awarding priority of invention to the party Winter.

The invention relates to disk wheels. The subject matter of the issue is defined by seven counts, of which counts 1 and 7 are examples:

1. In a device of the character described, a locking ring adapted to extend circumferentially of the wheel and provided with an inwardly extending flange adapted to contact at its outer surface with the rim of the wheel and at its inner with the felly, a part of the flange extending outwardly of the felly in spaced relation therewith, and the inner edge portion of said ring being adapted to contact with the felly.

7. In a device of the character described, a locking member including a radially extending part and an inwardly extending flange, the flange being adapted to contact at its outer portion with the rim of the wheel and at its inner portion with the felly, a part of the flange extending outwardly of the felly in spaced relation therewith, and the inner edge portion of said radial part being adapted to contact with the felly.

The counts are the claims of Winter's patent and were copied by Barber for the purpose of contesting priority of invention with respect thereto.

Barber's application involved herein is a division of application filed September 28, 1921, No. 503,729. Winter filed January 10, 1921.

Winter having filed first, the burden of proof rests upon Barber, and in order that Barber may prevail the proof must show that Barber was the first to conceive and that he exercised reasonable diligence in reducing his invention to practice (*Christie* v. *Seybold*, 1893 C. D. 515).

The earliest date of conception which has been accorded to Winter is April, 1920, and it has been established with reasonable certainty that Winter's invention was actually reduced to practice by a successful test of the same on September 7, 1920.

The Examiner of Interferences and the Examiners in Chief have accorded to Barber an earlier date of conception, on the evidence, including the Oman and Holshuh sketches, dated, respectively, July 10, 1915, and January 20, 1916.

Winter has attacked the integrity of these sketches by the testimony of Carvalho, an expert on the integrity of documents.

The Examiner of Interferences and the Examiners in Chief have excluded Carvalho's testimony, on the ground that it was "secondary," Carvalho having stated while testifying that he had read over a report previously made by him, which report involved the integrity of the Oman and Holshuh sketches.

[1] It is believed that the Office is not justified in excluding Carvalho's testimony. It should be received and considered and given the weight to which it is entitled. Carvalho was testifying as an expert. From certain facts which in his opinion existed in the Barber documentary evidence he deduced certain conclusions. The facts considered by him and to which he testified consisted of the documents filed by Barber in this proceeding, and not the report which Carvalho had previously made in another proceeding. The documents to which Carvalho testified were of record and clearly available to Barber, and Barber had a perfect right to cross-examine Carvalho as to those documents, and to put in evidence the testimony of other experts in refutation of Carvalho's testimony. Carvalho in giving his testimony stated that he was testifying substantially from recollection.

[2] I have examined carefully Carvalho's testimony, but I am not satisfied that it is conclusive of the alleged fact that the sketch dated July, 1915, and witnessed by Oman was altered after having been witnessed, or of the further contention that the sketch witnessed by Holshuh as of January, 1916, was in fact witnessed at some subsequent date.

As to the Oman sketch, assuming that Carvalho's tests show that certain pencil lines of the sketch overlie certain intersecting ink lines of Oman's signature, the date of the sketch, etc., appearing on the sketch, still this is not conclusive that said pencil lines were drawn subsequently to the date of the sketch. The sketch may have been altered after Oman had affixed his signature and after

the sketch had been dated; but if the sketch was altered at the time it was witnessed and in Oman's presence there would be no good ground for the charge that the sketch was improperly altered.

And Carvalho's testimony respecting the Holshuh sketch carries still less weight. The age of ink can not be determined with any degree of accuracy by the appearance of the ink. The composition of the ink, the exposure of the document, and other important factors must be considered before the opinion of the expert may have any great value.

[3] I have carefully considered the testimony in the light of the arguments of the respective parties and agree with the Examiner of Interferences and the Examiners in Chief that Barber was the first to conceive but the last to reduce to practice, and that he failed to exercise reasonable diligence in reducing his invention to practice.

In excuse for the delay in reducing his invention to practice Barber pleads poverty and inability to obtain steel.

As to poverty, it appears from the record that during the period from the time Barber contends that he conceived the invention to the filing of his application he was able to borrow large sums of money amounting to more than $20,000, and as to Barber's inability to obtain steel the record shows that steel could be obtained in small quantities without difficulty throughout the war period.

The decision of the Examiners in Chief awarding priority to the senior party, Winter, is affirmed.

Court of Appeals of the District of Columbia.

BARBER *v.* WINTER.

No. 1,955. Decided December 5, 1927.

INTERFERENCE—PRIORITY.

Priority *Held* properly awarded to W. on the ground that B., who was the first to conceive, was not diligent in reducing the invention to practice at the time W. entered the field and subsequently thereto.

[For Commissioner's decision see 369 O. G. 3.]

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Samuel E. Darby, Mr. C. M. Thomas, and *Mr. F. D. Thomas* for Barber.

Mr. J. H. Milans, Mr. C. T. Milans, and *Mr. L. T. Greist* for Winter.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.:*

Appeal in an interference proceeding.

The invention relates to devices for securing rims of fellies, and the issue is defined in seven counts of which 1 and 7 are copied for illustration:

1. In a device of the character described, a locking ring adapted to extend circumferentially of the wheel and provided with an inwardly extending flange adapted to contact at its outer surface with the rim of the wheel and at its inner with the felly, a part of the flange extending outwardly of the felly in spaced relation therewith, and the inner edge portion of said ring being adapted to contact with the felly.

7. In a device of the character described, a locking member including a radially extending part and an inwardly extending flange, the flange being adapted to contact at its outer portion with the rim of the wheel and at its inner portion with the felly, a part of the flange extending outwardly of the felly in spaced relation therewith, and the inner edge portion of said radial part being adapted to contact with the felly.

The application of Barber was filed April 28, 1923. The application of Winter was filed January 10, 1921, and a patent was granted thereon July 24, 1923. Both parties have taken testimony.

The Examiner of Interferences held upon the evidence as follows:

Although Barber, the junior party, was first to conceive, he has failed to prove any actual reduction to practice, and has failed to prove diligence through the requisite period up to his constructive reduction to practice. In this situation there is no necessity to discuss the evidence adduced to prove that Winter conceived and reduced to practice in 1920, or to consider the evidence stipulated into this record with respect to the availability of steel.

An appeal was taken to the Examiners in Chief, who after reviewing the proofs concluded as follows:

In our opinion the holding of the Examiner of Interferences is correct that Barber was the first to conceive but the last to reduce to practice and that he has not established the necessary diligence.

The decision of the Examiner of Interferences awarding priority of invention in favor of the party Winter is affirmed.

The decision of the Examiners in Chief was affirmed upon appeal by the Commissioner of Patents.

The issues involved herein are of fact, not law, and a review of the record convinces us that the concurrent decisions of the Patent Office thereon are correct; and moreover that the grounds upon which they rest are sufficiently set out in the decisions below and need not be repeated here.

The decision of the Commissioner of Patents is affirmed.

Court of Appeals of the District of Columbia.

HUMISTON *v.* VOORHEES.

No. 1,959. Decided December 5, 1927.

1. INTERFERENCE—ISSUE—CONSTRUCTION.

"While in an interference proceeding claims should be interpreted in the light of the application in which they originated, they must be given the broadest interpretation which they reasonably will support. In other words, if a party claims an invention broadly, he ought not to be permitted, when thrown into interference, to meet the exigencies of such a situation by insisting upon limitations not expressed in his claims."

2. SAME—PRIORITY—RIGHT TO MAKE THE CLAIMS.

The party V. *Held* entitled to make the claims in issue and entitled to an award of priority on the record.

Mr. A. B. Marvin, Mr. M. D. Jackson, and *Mr. Geo. J. Hesselman* for Humiston.

Mr. J. H. Brickenstein, Mr. C. H. Potter, and *Mr. E. L. Greenewald* for Voorhees.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Patent Office in an interference proceeding awarding priority to the senior party, Voorhees.

The Humiston application was filed October 25, 1921, and a patent inadvertently issued thereon July 4, 1922. Voorhees's application was filed June 9, 1920. The preliminary statements disclosing that the earliest date claimed by Humiston for conception and disclosure was one year later than the filing date of Voorhees, Humiston was required to show cause why judgment on the record should not be entered against him. Thereupon he pursued the usual course by filing a motion to dissolve the interference, alleging that Voorhees had no right to make the three claims of the issue, the first of which reads as follows:

1. In a hand lamp, the combination of a casing, a battery therein, a lamp, a support for said lamp, and a reflector rotatable on said support to move axially of said casing.

As will be gathered from a reading of the above count, the invention is an electric hand lamp and the novel features of the count are directed to the means by which the reflector is shifted axially to change the character of the light beam delivered by the lamp. The claims originated in the Humiston application.

The Law Examiner ruled that, while the Voorhees reflector is in screw-threaded engagement with the lamp support and is rotatable on the support, it does not move axially of the casing but moves the lamp support and with it the lamp axially of the casing. In other words, the Law Examiner, although convinced that the same result was accomplished as in the Humiston device, was constrained to give the claims a narrow interpretation. On appeal, the Examiners in Chief reversed the Law Examiner and held that Voorhees had a right to make the claims. This ruling, of course, sent the case to the Examiner of Interferences on the merits, and that official, feeling bound by the decision of the Board, awarded priority to Voorhees. This award was followed by an appeal to the Examiners in Chief and, in a carefully-prepared opinion, the Board rejected Humiston's contentions and sustained the award to Voorhees, saying:

We find nothing in the counts which excludes the incidental movement of the lamp head on the casing. In focusing the lamp the movement of the lamp head is merely incidental, the thing desired is the relative movement between the lamp and reflector and this is caused by the rotary and axial movement of the reflector.

On appeal, the decision of the Board was affirmed.

[1, 2] While in an interference proceeding claims should be interpreted in the light of the application in which they originated, they must be given the broadest interpretation which they reasonably will support. In other words, if a party claims an invention broadly, he ought not to be permitted, when thrown into interference, to meet the exigencies of such a situation by insisting upon limitations not expressed in his claims. *Lindmark* v. *Hodgkinson*, 31 App., D. C., 612; *Kirby* v. *Clements*, 44 App., D. C., 12; *Brown* v. *Tomlinson*, 49 App., D. C., 310; *Scott* v. *Longtin*, 52 App., D. C., 102, 281 Fed. 606; *In re Levy*, 55 App., D. C., 137, 2 F. (2d) 939.

Had Humiston been prior in point of time, it is inconceivable that he would not have claimed the Voorhees device to be an infringement of his.

For the reasons more fully stated by the Board, we affirm the decision.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

947,670, 1,042,951, J. Nielsen, Rotary engine, filed Nov. 23, 1926, D. C., N. D. Ill., E. Div., Doc. 6600, *The Viking Pump Co.* v. *The Creamery Package Mfg. Co.*

949,272, P. E. Herrmann, Process of hair waving; 959,527, 1,001,029, 1,168,000, 1,194,841, 1,199,550, 1,499,367, same, Hair-waving apparatus; 1,531,936, same, Electrical attachment plug, D. C., S. D. N. Y., Doc. E 42/20, *P. E. Herrmann et al.* v. *The Le Mur Co.* Dismissed Nov. 2, 1927.

959,527. (See 949,272.)

1,001,029. (See 949,272.)

1,018,502, Just & Hanaman, Incandescent body for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., N. D. Calif. (San Francisco), Doc. 1977, *General Electric Co.* v. *J. R. O'Donnell et al.* Patents held valid as to all claims (notice dated Feb. 3, 1928).

1,038,504, O. P. Smith, Lure conveyer, 1,379,224, 1,410,842, same, dog-racing amusement; 1,507,439, same, Starting cage for racing dogs; 1,507,440, same, Housing for conveyer cars and tracks; 1,591,569, same, Electric car, C. C. A., 8th Cir. (St. Louis), Doc. 7914, *Ramona Kennel Club, Inc., et al.* v. *H. M. Smith.* Dismissed Jan. 17, 1928.

1,042,951. (See 947,670.)

1,148,870, Stansell & Oland, Automatic railway skid; 1,487,467, Oland & Main, Automatic skid placer, filed Jan. 19, 1928, D. C., N. D. Ill., E. Div., Doc. 7799, *Electro Pneumatic Skid Co.* v. *Union Switch & Signal Co.*

1,168,000. (See 949,272.)

1,180,159. (See 1,018,502.)

1,194,841. (See 949,272.)

1,197,164, A. Wallace, Grain-door opener; 1,268,580, E. H. Kidder, same, filed Feb. 6, 1928, D. C., N. D. Iowa (Cedar Rapids), Doc. E 109, *Link Belt Co.* v. *The Quaker Oats Co.*

1,199,550. (See 949,272.)

1,239,580, F. T. Farmer, Wheel; 1,545,829, P. E. Herschel, jr., same, appeal filed Jan. 17, 1928, C. C. A., 7th Cir., Doc. 4001, *R. Herschel Mfg. Co.* v. *Great States Corp.*

1,244,216, 1,244,217, I. Langmuir, Electron-discharge apparatus and method of preparation; 1,529,597, same, Electron-emitting device, and method of preparation, D. C., Del. (Wilmington), Doc. E 598, *General Electric Co.* v. *De Forest Radio Co.* Dismissed as to patents 1,244,216 and 1,529,597 for want of equity; Patent 1,244,217 held valid and infringed as to claims 1 and 4, injunction Jan. 16, 1928.

1,244,217. (See 1,244,216.)

1,257,498, Lanier & Driesbach, Pastry molding and baking apparatus; 1,302,733, W. W. Turnbull, Machine for making ice-cream cones; Re. 14,651, E. H. Lanier, Pastry-making apparatus, filed Feb. 6, 1928, D. C., N. D. Ohio, E. Div., Doc. 2514, *McLaren Consolidated Cone Corp.* v. *The Nose Pretzel & Cone Co.*

1,268,580. (See 1,197,164.)

1,281,884, M. J. Trumble, Process of converting petroleum oils; 1,525,281, C. P. Dubbs, Method of treating hydrocarbons; 1,517,830, Egloff & Benner, Carbonaceous fuel, D. C. Del. (Wilmington), Doc. E 582, *Universal Oil Products Co.* v. *Skelly Oil Co.* Interlocutory decree holding Patent 1,281,884 valid and infringed, particularly claims 1 to 4 inclusive; injunction Dec. 14, 1927.

1,302,733. (See 1,257,498.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., S. D. N. Y., Doc. E 44/55, *The Bassick Mfg. Co.* v. *A. W. Rosen Co.* Patents sustained, injunction granted Feb. 9, 1928.

Same, D. C., N. D. Ohio, E. Div., Doc. 2374, *The Basick Mfg. Co.* v. *MacBerkson.* Patents held valid, claims 3, 4, and 5 of 1,307,733 and claims 1, 2, 3, 4, 8, 10, 14, and 15 of 1,307,734 infringed, injunction granted Feb. 10, 1928.

1,307,734. (See 1,307,733.)

1,348,977, G. L. Borrowman, Water-softening compound and method of producing same; 1,455,363, A. C. Spencer, Process of purifying water, filed Feb. 6, 1928, D. C., S. D. N. Y., Doc. E 44/199, *The Permutit Co.* v. *Paige & Jones Chemical Co., Inc.*

1,379,224. (See 1,038,504.)

1,410,842. (See 1,038,504.)

1,416,218, Lissauer & Keyes, Apparatus for dehumidifying air; Re. 16,611, L. L. Lewis, Method of and apparatus for cooling and ventilating, filed Feb. 1, 1928, D. C., W. D. N. Y., Doc. 1236–G, *Auditorium Ventilating Corp.* v. *Greater Rochester Properties, Inc.*

1,455,363. (See 1,348,977.)

1,486,275. (See 1,609,315.)

1,487,467. (See 1,148,870.)

1,499,367. (See 949,272.)

1,507,439. (See 1,038,504.)

1,507,440. (See 1,038,504.)

1,517,830. (See 1,281,884.)

1,523,843, 1,556,365, W. A. Smith, Machine for preparing food compounds; 1,627,466, same, Method of preparing food substances, filed Feb. 7, 1928, D. C., W. D. N. Y., Doc. 1242–G, *W. A. Smith* v. *Fruit Belt Preserving Co., Inc.*

1,525,281. (See 1,281,884.)

1,529,597. (See 1,244,216.)

1,531,936. (See 949,272.)

1,539,300. (See 1,599,807.)

1,545,829. (See 1,239,580.)

1,556,365. (See 1,523,843.)

1,591,569. (See 1,038,504.)

1,599,807, 1,539,300, A. L. Christiansen, Fish cutting and cleaning machine, filed Feb. 2, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–36–M, *R. L. Dee* v. *W. S. La Londe et al.*

1,609,315, Schraeder & Novander, Hoisting and conveying apparatus; 1,486,275, A. N. Becker, Storage and handling for motor vehicles, filed Jan. 24, 1928, D. C., N. D. Ill., E. Div., Doc. 7806, *F. J. Schraeder, Jr.*, v. *Riverside-Plaza Corp. et al.*

1,627,466. (See 1,523,843.)

Re. 14,651. (See 1,257,498.)

Re. 16,611. (See 1,416,218.)

Re. 16,817, J. H. Smith, Reaming and counterboring tool, filed Feb. 10, 1928, D. C., E. D. Mich., S. Div., Doc. 2449, *Eclipse Interchangeable Counterbore Co.* v. *The Gairing Tool Co.*

Des. 68,354, Des. 68,355, Des. 68,356, A. Swanfeldt, Textile fabric, filed Feb. 29, 1927, D. C., S. D. Calif. (Los Angeles), Doc. E N–3–M, *A. Swanfeldt* v. *C. F. Waldman.*

Des. 68,355. (See Des. 68,354.)

Des. 68,356. (See Des. 68,354.)

Des. 69,569(*a*). Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, filed Feb. 10, 1928, D. C., S. D. N. Y., Doc. E 44/222, *Cowan Pottery Studio, Inc.*, v. *L. D. Bloch & Co.*

Des. 69,569(*b*). (See Des. 72,638(*a*).)

Des. 72,596. (See Des. 69,569(*a*).)

Des. 72,638(*a*), W. A. Sinz, Flower holder; Des. 69,569, R. G. Cowan, same, filed Feb. 8, 1928, D. C. N. D. Ohio, E. Div., Doc. 2516, *Cowan Pottery Studio, Inc.*, v. *The Stearn Co.*

Des. 72,638(*b*). (See Des. 69,569(*a*).)

T. M. 85,078, T. M. 115,160, Champion Ignition Co., Spark-plug porcelain, spark plugs, etc., filed Apr. 22, 1926, D. C., N. D. Ill., E. Div., Doc. 5863, *A C Spark Plug Co.* v. *Jersky et al.* Same, filed Oct. 24, 1925, D. C., N. D. Ill., E. Div., Doc. 5255, *A C Spark Plug Co.* v. *Warshawsky & Co.*

T. M. 92,950, T. M. 107,050, Champion Spark Plug Co., Spark plug, filed Mar. 17, 1926, D. C., N. D. Ill., E. Div., Doc. 5697, *Champion Spark Plug Co.* v. *H. J. Kelly.*

T. M. 107,050. (See T. M. 92,950.)

T. M. 115,160. (See T. M. 85,078.)

Adverse Decisions in Interference.

Final decisions in interferences have been rendered against the following trade-marks:

T. M. 104,541, Coffee, G. Lindberg, Tacoma, Wash. Registered June 1, 1915. Decided February 18, 1928.

T. M. 110,825, Flavoring extracts for foods, spices, and tea, G. Lindberg, Tacoma, Wash. Registered June 13, 1916. Decided February 18, 1928.

T. M. 122,831, Gasolene, Wadhams Oil Company, Milwaukee, Wis. Registered September 17, 1918. Decided March 12, 1928.

T. M. 221,997, Women's undergarments of textile fabric, N. Siegel, New York, N. Y. Registered December 21, 1926. Decided March 14, 1928.

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Mar. 13, 1928.*

John E. Whitmore, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Bourjois, Inc., of No. 35 West 34th Street, New York, N. Y., to effect the cancellation of the trade-mark registration of John E. Whitmore, of 355 East Utica Street, Buffalo, N. Y., No. 98,027, dated June 30, 1914, and the notice of such proceeding sent by registered mail to the said John E. Whitmore at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said John E. Whitmore, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Interference Notice.

U. S. PATENT OFFICE, *Washington, D. C., Mar. 16, 1928.*

Richard Raines, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application for patent of Thomas A. Bowers, 25 Seaview Apartments, Sheepshead Bay, Brooklyn, N. Y., and patent granted December 21, 1926, No. 1,611,677, to Richard Raines, 441 East 182d Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Raines at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Raines, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 3, 1928.

[VOL. 369. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 258,246. ATLANTA SAND & SUPPLY CO., Atlanta, Ga. Filed Dec. 1, 1927.

RoLlo

Particular description of goods.—Sand.
Claims use since 1921.

Ser. No. 259,404. HADDOCK MINING COMPANY, Wilkes-Barre, Pa. Filed Dec. 28, 1927.



Exclusive use of the word "Coal" is disclaimed except in connection with the trade-mark as shown.
Particular description of goods.—Anthracite Coal.
Claims use since 1870.

Ser. No. 259,851. H. E. GEYER COMPANY, Minneapolis, Minn. Filed Jan. 9, 1928.



Exclusive use of the word "Smokeless" is hereby disclaimed except in connection with the mark as shown.
Particular description of goods.—Coal.
Claims use since June 15, 1927.

Ser. No. 261,089. WILDER & COMPANY, Chicago, Ill. Filed Feb. 2, 1928.

Sea Lion



Particular description of goods.—Sole Leather.
Claims use since Dec. 5, 1927.

CLASS 2.

Receptacles.

Ser. No. 257,739. ONEIDA COMMUNITY, LTD., Oneida, N. Y. Filed Nov. 18, 1927.

HONEYMOON

Particular description of goods.—Traylike Boxes for Storing and Displaying Articles.
Claims use since May 23, 1927.

Ser. No. 259,931. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed Jan. 10, 1928.



Exclusive right to the words "Self Opening" and "Paper Bags" and the representation of the bag is disclaimed apart from the other features of the mark. The drawing is lined to denote red color.
Particular description of goods.—Paper Bags.
Claims use since 1886.

Ser. No. 259,933. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed Jan. 10, 1928.

UNION SELF OPENING PAPER BAGS

BEAR KRAFT

Exclusive right to the words "Self Opening," "Paper Bags," and "Kraft" and the representation of a bag is disclaimed apart from the other features shown in the mark. The drawing is lined to denote the color red.

Particular description of goods.—Paper Bags.

Claims use since 1875.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 256,032. W. W. WINSHIP & SONS, INC., Utica, N. Y. Filed Oct. 12, 1927.

WINSHIP MIGRATOR

Particular description of goods.—Wardrobe Trunks, Leather and Artificial-Leather Hatboxes, Wardrobe Hatboxes, Wardrobe Suitcases, and Carrying Cases and Trunks.

Claims use since Sept. 14, 1927.

Ser. No. 259,557. HIXBIE & CO. INC., New York, N. Y. Filed Dec. 31, 1927.

Hixbie

Particular description of goods.—Women's and Misses' Hand Bags; Men's, Women's, and Children's Hatboxes, and Suitcases; Men's and Women's Hand Bags, and Overnight Bags, Trunks, Portfolios, and Wallets, and Purses of All Kinds for Men, Women, and Children.

Claims use since September, 1923.

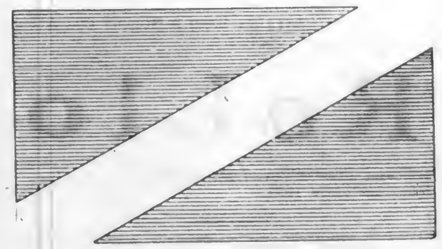
Ser. No. 260,098. P. CENTEMERI & CO., New York, N. Y. Filed Jan. 14, 1928.

KIFF-KIFF

Particular description of goods.—Hand, Overnight, and Traveling Bags, Suitcases, Portfolios, Pocketbooks, Hatboxes for Traveling, Purses, Cardcases; Key Containers of Leather, Leather Substitutes, and/or Combinations Thereof; Toilet and Traveling Kits without Fittings (Fitted and Unfitted); Violin Cases and Cases for Other Musical Instruments, All of Leather, Fabric, or Imitation Leather or Combinations Thereof.

Claims use since Nov. 12, 1927.

Ser. No. 261,134. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Feb. 3, 1928.

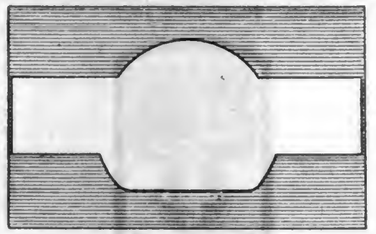


The shading on the drawing is not intended to indicate any particular color.

Particular description of goods.—Accessories for Harness and Saddlery of All Kinds—Namely, Buckles, Spring-Lever Buckles, Slide Buckles, Patent-Lever Buckles, Buckles for Web Straps, Buckles for Ski Straps, Grommets and Washers, Web Strap Tips, Belt Buckles with Rolling Bar, Belt Buckles with Adjustable Cam Lever, Repair Buckles, Quick-Release Buckles, Buckle Parts, Blanket Buckles, Trace Buckles, Double-Grip Buckle Parts Comprising Screw Bails and Tongues, Bridle Buckles, Cinch Buckles, Legging Buckles, Shield Reverse Buckles, Tug Buckles, Baggage Buckles, Rein Buckles, Snaps, Bag Snaps, Swivel Bag Snaps, Blanket Snaps, Trigger Snaps, Hubbard Snaps, Swivel-Eye Chain Snaps, Loop Snaps, Bolt Snaps, Swivel-Eye Snaps, Open-Eye Bolt Snaps, Hinged-Eye Bolt Snaps, Double Bolt Snaps, Safeguard Snaps, Swivel-Eye Safeguard Snaps, Harness Snaps; Bit, Muzzle, and Breeching Snaps; Rope Snaps, D Rings and Clasps, Teamster Snaps; Teamster Snaps, Rights and Lefts; Choke Snaps, Choke Snaps with Screw and Roller, Choke Snaps, Swivel Pattern with Screw and Roller, Neck-Yoke Snaps without Roller and with Loose Rivet, Breast-Strap Roller Snaps, Snaps and Slides, Chain Snaps, Breast-Chain Snaps, Breast-Chain Snaps with Oscillating Slide, Breast Chains with Snaps, Heel Chains and Snaps, Chain Repair Links, Rings, Ring Tongues, D's, Pole-Strap D's, Breeching D's, Repair D's, Cinch Rings and D's, Cheek D's, Harness Loops; Harness Loops, Two Fold; Loops, Hitch Strap, Shaft Tug, Etc.; Layer Loops, Trace Loops, Spread Loops, Squares, Tuck Loops, Terrets, Terrets and Hooks, Collards and Soft-Pad Terrets, Safety Check Hooks, Pad Hooks, Post Hooks, Turn-Back Hooks, Express Hooks, Pad Screws, Pad-Plate Screws, Self-Adjusting Trees, Gig-Saddle Trees, Pad Bridges, Bearer Loops, Backband Loops, Gig-Saddle Clips and D's, Gag Swivels, Metal Ornaments for Saddlery and Harness; Halter Hardware Comprising Halter Bolts, Swivels, Combined Loops and Rings, Rope Clamps and Rings, Rope Tie Adjusters, Rope Thimbles, Rope Halter Sets, and Web Halter Trimmings, and Bridle and Halter Squares; Hames and Hame Trimmings and Attachments and Repair Parts Comprising Hames, Hame Balls, Hame Fasteners, Hame Terrets, Hame Bottom Loops, Hame-Repair Clips, Hame Staples, Hame Line Rings and Studs, Hame Clips, Hame Attachments, Hooks for Hames, Ratchets for Hames, Hame Tug Plates; Cockeyes, Cockeye Clips, Steel Clips, Trace Clips, Toggles, Jointed Trace Connectors, Trace Hooks, Tug Hooks, Hooks and D's, Trace D's, Clevises, Trace Splices, Breeching Loops, Trace Loops, Jockey-Strap Loops and Rings, Trace Supporters, Breast-Strap Slides, Backband Hooks, Trace Carriers, Trace Carriers and Rump Rings, Bits, Snaffles, Rein Chains, Curb Chains, Spurs, Spur Rowels, Spur Straps, Stirrups, Buckle Shields, Collar Fasteners, Honda or Lasso Rings, Rein Billet Steels, Collar-Strap Slides, Rein Slides, Rein or Satchel Hooks, Hammock D's, Rein Holders, Mane Combs, Saddle Trimmings, Buttons; Blanket Hardware Comprising D's, Slides, Loops, Catches, Front Sets, Clasps, Hook and Eye; Handy Hardware Assortment for Repairs; Trunk and Bag Hardware Comprising Buckles, Handle Loops, Wardrobe-Trunk Drawer Pulls, Handle Loops, Shawl-Strap Handles, and D's; Dog-Collar Trimmings Comprising Buckles and Name Plates, Lead-Rein Holders, Double Eye and Loop, Stud Hooks, Stirrup-Strap Loops, Breast-Strap Hooks, Side and Back Strap Hooks, Side-Line Fasteners, Lariat Hook Link and Thimble, Sliding Keepers for Strap Ends, Clips for Strap Ends, Fasteners for Application to Strap Ends, End Hooks, Sling Loops, Double Hooks, Choke Staples and Plates, and Knapsack Hardware.

Claims use since November, 1911.

Ser. No. 261,135. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Feb. 3, 1928.

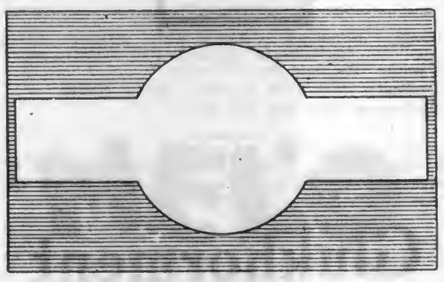


The shading on the drawing is not intended to indicate any particular color.

Particular description of goods.—D Rings.

Claims use since November, 1911.

Ser. No. 261,136. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Feb. 3, 1928.



The shading on the drawing is not intended to indicate any particular color.

Particular description of goods.—Harness Rings.

Claims use since November, 1911.

Ser. No. 261,138. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn. Filed Feb. 3, 1928.

DOM PEDRO

Particular description of goods.—Spurs, Bits, and Stirrups.

Claims use since 1879.

Ser. No. 261,165. BONA ALLEN, INC., Buford, Ga. Filed Feb. 4, 1928.



No exclusive claim is made to the words "Soft Flexible Collar Requires No Sweat Pad," nor is any claim made to the representation of an animal collar except as associated with the other features of the mark. The picture of the individual is fanciful.

Particular description of goods.—Horse Collars.

Claims use since Jan. 4, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 229,311. VEGETABLE OIL PRODUCTS COMPANY, Los Angeles, Calif. Filed Mar. 27, 1926.

STEROGEN

Particular description of goods.—Tallow Substitute for Use in the Manufacture of Soap.

Claims use since Nov. 9, 1925.

Ser. No. 256,273. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Oct. 18, 1927.



Without waiving any common law or statutory rights no claim is hereby made to the exclusive use of the representation of the carton or any of the wording (with the exception of Williams, WMS and the circle, "The J. B. Williams Company" and "The J. B. Williams Company (Canada) Limited," or the representation of the goods with the matter printed thereon (with the exception of WMS and the circle,) apart from the mark shown in the drawing.

Particular description of goods.—Shaving Sticks.
Claims use since about 1913.

Ser. No. 260,705. WORTH, SOCIETE ANONYME, Paris, France. Filed Jan. 26, 1928.

VERS LE JOUR

Particular description of goods.—Soaps.
Claims use since Oct. 29, 1926.

Ser. No. 261,469. VESTAL CHEMICAL CO., St. Louis, Mo. Filed Feb. 9, 1928.

SEPTISOL

Particular description of goods.—Liquid Soap.
Claims use since Sept. 6, 1927.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 235,365. THE YOUNG QUINLAN COMPANY, Minneapolis, Minn. Filed July 30, 1926.

J'aime-ça

Particular description of goods.—Compacts, Perfumes, Toilet Water, Sachet Powder, Concentrated Essence, Bath Crystals, Bath Tablets, Dusting Powder, Talcum Powder, Liquid Powder, Face Powder, Compact Powder, Rouge Paste, Rouge Compact, Rouge Liquid, Lip Stick, Eyebrow Pencils, Nail Polish, Cleansing Cream, Finishing Cream, Face Bleach, Astringents, Skin Tonic, Skin Stimulant, Lotions, Eye Cream, Cleansing Tissues, Tooth Paste, Beauty Sachets, Muscle Oil, Deodorant Cream, Acne Lotion, Brilliantine, Hair Tonic, Shampoo Preparations.
Claims use since Nov. 1, 1925.

Ser. No. 242,882. HAROLD L. DEBUS AND WILLIAM H. HEATON, Shawnee, Kans. Filed Jan. 15, 1927.

ASP-O-FRUIT

Particular description of goods.—Medicated Analgesic Chewing Gum for Treatment and Prevention of Headache, Rheumatism, Neuritis, Colds, Neuralgia, Toothache, Lumbago, and Other Pains.
Claims use since Dec. 10, 1926.

Ser. No. 245,516. PITMAN-MOORE COMPANY, Indianapolis, Ind. Filed Mar. 10, 1927.

ECLO

Particular description of goods.—General-Tonic Tablet.
Claims use since Jan. 4, 1927.

Ser. No. 249,910. LUDMILA KIRCHNEROVA, Prague, Czechoslovakia. Filed June 2, 1927.



Applicant disclaims the right to the exclusive use of the words "Hygienic Pipe Cleansing."
Particular description of goods.—Disinfectants.
Claims use since Apr. 15, 1927.

Ser. No. 250,752. HORMENT AKTIENGESELLSCHAFT FÜR HERSTELLUNG ORGANISCHER HEILMITTEL, Berlin, Germany. Filed June 18, 1927.

Glukhorment

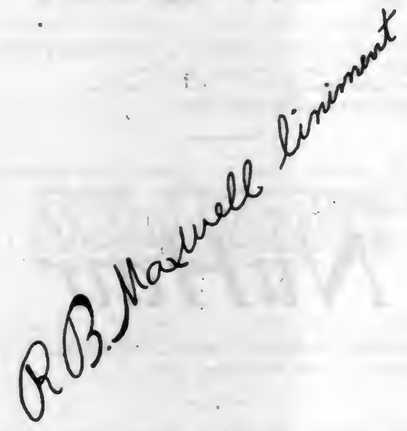
Particular description of goods.—Organotherapeutical Products Containing Pancreas Substance and Used for the Treatment of Diabetes.
Claims use since February, 1927.

Ser. No. 251,913. LES ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed July 12, 1927.

ALBAROL

Particular description of goods.—Fluorescent Substance for use in Roentgenology.
Claims use since May 10, 1927.

Ser. No. 251,973. ROBERT B. MAXWELL, Booneville, Miss. Filed July 13, 1927.



The trade-mark consists in a facsimile signature of applicant's name. No claim is made to the word "Liniment."
Particular description of goods.—Liniment for the Treatment of Cuts, Burns, Bruises, Strains, Blood Poisoning, Rheumatism, and All Kinds of Pain.
Claims use since June 2, 1925.

Ser. No. 252,283. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio. Filed July 19, 1927.

MEL'O

Particular description of goods.—Water Softener.
Claims use since March, 1927.

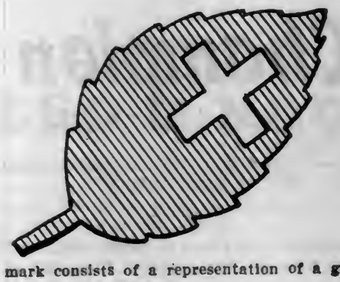
Ser. No. 252,290. ROSE & MANGAN, New Hampton, Iowa. Filed July 19, 1927.

FASKO LINIMENT



The picture forming a part of the trade-mark is a portrait of Tom Rose, a member of the firm. No claim is made to the word "Liniment" apart from the mark shown in the drawing.
Particular description of goods.—Liniment for Use in the Treatment of Acute, Chronic, and Muscular Rheumatism.
Claims use since Feb. 20, 1927.

Ser. No. 252,631. WHITE CROSS CREAM CO. INC., Cleveland, Ohio. Filed July 27, 1927.



The mark consists of a representation of a green leaf with a white cross thereon.
Particular description of goods.—Face Cream, Face Powders, Clay Pack, Skin Tonics, Astringent, Rouge, and Depilatory.
Claims use since June 10, 1906.

Ser. No. 256,594. A. A. VANTINE & CO., INC., New York, N. Y. Filed Oct. 25, 1927.



The representation of the head is fanciful.
Particular description of goods.—Toilet Articles and Beauty Preparations—Namely, Face Powder, Body Pow-

der, Talcum Powder, Cleansing Cream, Foundation Cream, Skin and Tissue Cream, Eyebrow Pencils, Toilet Waters, Perfumes, Hair Tonic, Dentifrices, Nail Polishes, Deodorants, Bath and Smelling Salts, Sachet, Incense, and Powder, and Rouge Compacts.

Claims use since Aug. 1. 1927.

Ser. No. 256,681. OLEUM PRODUCTS COMPANY, INC., Scranton, Pa. Filed Oct. 27, 1927.

INSECTO-SPRAY

No claim is made to the word "Spray" apart from the mark as shown in the drawing.

Particular description of goods.—Insecticides.

Claims use since January, 1927.

Ser. No. 258,701. GEO. W. SNARR & CO., St. Louis, Mo. Filed Dec. 9, 1927.



Champion

Particular description of goods.—Soldering Paste and Lamp-Coloring Dye.

Claims use since Feb. 1, 1927, on soldering paste, and since Aug. 1, 1927, on lamp-coloring dye.

Ser. No. 258,905. MARSHALL E. GATES, doing business as Reynolds & Gates, Helena, Mont. Filed Dec. 14, 1927.

CUTISOM

Particular description of goods.—Skin Ointment for Skin Diseases, for the Relief of Irritation of the Skin as Produced by Eczema, Itching Piles, Burns, Sunburn, Scalds, Insect Bites, Minor Cuts, and Abrasions.

Claims use since July 15, 1927.

Ser. No. 259,084. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Dec. 17, 1927.

AMIDOPYRIN

Particular description of goods.—Pharmaceutical Preparation Applicable as an Antifebrile, an Analgesic, and a Sedative.

Claims use since Oct. 18. 1927.

Ser. No. 260,272. CLARENCE E. JAMIESON, Detroit, Mich. Filed Jan. 18, 1928.

Halitox

Particular description of goods.—Astringents, Antiseptics, and Mouth Washes.

Claims use since about Dec. 15, 1927.

Ser. No. 260,445. JUNE SMILA GREENE, Cleveland, Ohio. Filed Jan. 21, 1928.

Nox-Odor

The word "Odor" appearing on the drawing is disclaimed apart from the mark as shown.

Particular description of goods.—Deodorant.

Claims use since May 28, 1926.

Ser. No. 260,626. JOHN C. CORYELL, doing business as Coryell Laboratory, Ann Arbor, Mich. Filed Jan. 25, 1928.

NuHair

Particular description of goods.—Hair Pomade.

Claims use since September, 1918.

Ser. No. 260,647. AQUILLA B. MCCARTY, doing business as American Aniline and Extract Co., Philadelphia, Pa. Filed Jan. 25, 1928.

STRIPPER X

The use of the word "Stripper," apart from the mark as shown in the drawing, is hereby disclaimed.

Particular description of goods.—Bleaching Agent for Use in Textile Industries.

Claims use since Apr. 6, 1926.

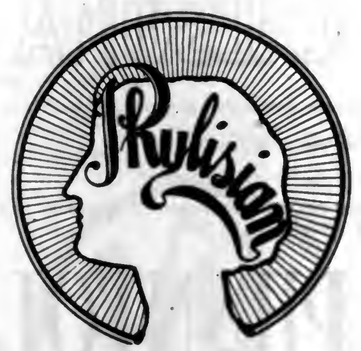
Ser. No. 260,648. AQUILLA B. MCCARTY, doing business as American Aniline and Extract Co., Philadelphia, Pa. Filed Jan. 25, 1928.

ORTHOCEN

Particular description of goods.—Coal-Tar Product Used in Dyeing and Processing of Textiles and Leather for the Purpose or Purposes of Wetting Out, Penetrating, Retarding, Level Dyeing, Softening, and as a Detergent.

Claims use since Jan. 31, 1927.

Ser. No. 260,726. PHILIP GINSBERG, doing business as Phylisian Products, New York, N. Y. Filed Jan. 27, 1928.



Particular description of goods.—Face Cream.

Claims use since Jan. 13, 1928.

Ser. No. 260,734. A. J. KRANK MFG. CO., St. Paul, Minn. Filed Jan. 27, 1928.

Skin-Health

Applicant is the owner of registration No. 211,105.

Particular description of goods.—Bath and Toilet Compound.

Claims use since Dec. 28, 1927.

Ser. No. 260,888. Dr. RICHARD HOFFBAUER, Berlin, Germany. Filed Jan. 30, 1928.

Scleradium

Particular description of goods.—Pharmaceutical Preparation for Use in the Treatment of Arteriosclerosis, Gout, Rheumatism, Diaestesis, Neuralgia, Neurasthenia, Ischias, Gravel; Diseases of the Veins, of the Circulation of the Blood, and of the Urine; Diseases of Weakness of Senile Degeneration, Diseases of the Nerves.

Claims use since February, 1927.

Ser. No. 260,908. CHARLES PFIZER & COMPANY, New York, N. Y. Filed Jan. 30, 1928.

MAGNESOL

Particular description of goods.—Laxative.

Claims use since Nov. 15, 1927.

Ser. No. 260,934. EARL A. BOLLINGER D. D. S., doing business as The Mutane Co., San Antonio, Tex. Filed Jan. 31, 1928.

Mutane

Particular description of goods.—Preparation for Use in Treating Gingivitis and Pyorrhea.

Claims use since Jan. 7, 1928.

Ser. No. 260,987. DELETTREZ, INC., New York, N. Y. Filed Feb. 1, 1928.

TOURMALINE

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.

Claims use since June 20, 1925.

Ser. No. 261,035. THE ANSO COMPANY, San Francisco, Calif. Filed Feb. 2, 1928.

EGG-O-NOG

No claim is made to the word "Egg" or the word "Nog" apart from the mark as shown.

Particular description of goods.—Pharmaceutical Preparations—Namely, General Tonics.

Claims use since 1925.

Ser. No. 261,133. WILLIAM NELSON, Monrovia, Calif. Filed Feb. 3, 1928.

SHIELD-GO.

Particular description of goods.—Preparation for Treatment to Relieve Excessive Perspiration.

Claims use since Jan. 1, 1917.

Ser. No. 261,250. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, and Berlin, Germany. Filed Feb. 6, 1928.

Noral

Particular description of goods.—Insecticides.

Claims use since July 5, 1927.

Ser. No. 261,491. DELETTREZ, INC., New York, N. Y. Filed Feb. 10, 1928.

NUIT BLANCHE

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Dec. 14, 1926.

Ser. No. 261,539. WABASH CHEMICAL & BAKING POWDER CO., Wabash, Ind. Filed Feb. 20, 1928.

BRAK-O

Particular description of goods.—Water Softener.
Claims use since Oct. 20, 1927.

Ser. No. 261,580. THE M. T. C. COMPANY, Philadelphia, Pa. Filed Feb. 11, 1928.

MTC

Particular description of goods.—Teeth Cleaner for Removing Stains and Dissolving Tartar, Keeping the Gums Firm and Healthy, and Preventing Receding Gums.
Claims use since on or about Oct. 5, 1925.

Ser. No. 261,599. ABERNETHY'S PHARMACY, INC., Daytona Beach, Fla. Filed Feb. 13, 1928.

BOGART'S
WONDER
ANT POISON

No claim is made herein broadly to the words "Ant Poison" apart from their association with the other features of the mark as illustrated.
Particular description of goods.—Insecticide in Liquid Form.
Claims use since 1917.

Ser. No. 261,729. ABBOTT LABORATORIES, North Chicago, Ill. Filed Feb. 16, 1928.

CALSOMA

Particular description of goods.—Antacid and Digestant.
Claims use since Jan. 4, 1927.

Ser. No. 261,735. BROTHERS CORPORATION, New York, N. Y. Filed Feb. 16, 1928.

PHANTOL

Particular description of goods.—Prepared Medicine—an Effective Analgesic and Sedative for Headache or to Relieve Pain.
Claims use since Jan. 10, 1928.

Ser. No. 261,738. CONSOLIDATED COLOR & CHEMICAL COMPANY, New York, N. Y. Filed Feb. 16, 1928.

TEXALL

Particular description of goods.—Chemical Compounds Used in Bleaching, Scouring, and Dyeing.
Claims use since about July 22, 1926.

Ser. No. 261,762. MID-WESTERN LABORATORY, Sioux City, Iowa. Filed Feb. 16, 1928.

SAV-A-CHIK
MID-WESTERN LABORATORY

Particular description of goods.—Medicines for Poultry—Namely, Worm Capsule Liquid, and Powder Roup Preparation, Liquid Conditioner, White-Diarrhea Mixture, and Worm Powder.
Claims use since Dec. 1, 1927.

Ser. No. 261,765. SOLON PALMER, New York, N. Y. Filed Feb. 16, 1928.

FIESTA

Particular description of goods.—Perfumes.
Claims use since Jan. 24, 1928.

Ser. No. 261,810. HAPPY FEED MILLS, INC., Memphis, Tenn. Filed Feb. 17, 1928.

Hy!

Particular description of goods.—Delousing Grease, Round-Worm Capsules, Sulphur Dip and Disinfectant, Epsom Salts, Sodium Fluoride, Roup Remedy, Catechu Compound, and Tobacco Dust for the Treatment of Round Worms in Poultry.
Claims use since Nov. 10, 1927.

Ser. No. 261,831. GARABED SIMON PAPAZIAN, doing business as Oriental Perfumery, Stapleton, N. Y. Filed Feb. 17, 1928.

EGYPTIAN
BEAUTY

Particular description of goods.—Perfumery.
Claims use since Jan. 5, 1928.

Ser. No. 261,870. HARRY B. FOLEY, doing business as Crane's Products, Chicago, Ill. Filed Feb. 18, 1928.

WIGGLETINT

Particular description of goods.—Compound or Preparation for Tinting Washable Fabrics.
Claims use since Feb. 14, 1928.

Ser. No. 261,893. THE MARTIN DENNIS COMPANY, Newark, N. J. Filed Feb. 18, 1928.

NEETOL

Particular description of goods.—Kind of Leather Stuffing Known as Fat Liquor.
Claims use since July 30, 1921.

Ser. No. 261,895. THE MARTIN DENNIS COMPANY, Newark, N. J. Filed Feb. 18, 1928.

PUROGEN

Particular description of goods.—Tanner's Bate.
Claims use since Aug. 31, 1925.

Ser. No. 261,896. THE MARTIN DENNIS COMPANY, Newark, N. J. Filed Feb. 18, 1928.

ACIDOLENE

Particular description of goods.—Kind of Leather Stuffing Known as Fat Liquor.
Claims use since Dec. 31, 1912.

Ser. No. 261,911. THE RUSSIAN PETROLEUM SYNDICATE, Detroit, Mich. Filed Feb. 18, 1928.

UROL

Particular description of goods.—Laxative for the Relief of Constipation.
Claims use since Dec. 15, 1927.

Ser. No. 262,085. HOOKER ELECTROCHEMICAL COMPANY, New York, N. Y. Filed Feb. 23, 1928.

HOOKER
LYE

The drawing is lined for color, the field about the black oval and the black rectangle being of orange color. No claim is made to the exclusive right to use of the word "Lye" apart from the mark as shown.
Particular description of goods.—Lye.
Claims use since about May, 1922.

Ser. No. 262,125. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Feb. 23, 1928.

Footdok

Particular description of goods.—Medicated and Perfumed Foot-Bath Tablet.
Claims use since June 1, 1913.

Ser. No. 262,204. CERTONE COMPANY, Brooklyn, N. Y. Filed Feb. 25, 1928.

Certone

Particular description of goods.—Tonic for Internal Use for Building Up the Human System.
Claims use since Nov. 1, 1911.

CLASS 8.

Smokers' Articles, Not Including Tobacco Products.

Ser. No. 244,486. THE ALLIGATOR COMPANY, St. Louis, Mo. Filed Feb. 17, 1927.

Alligator

Particular description of goods.—Tobacco Pouches Made of Waterproofed Fabric.
Claims use since Dec. 15, 1923.

Ser. No. 262,122. JOHN ROTHSCHILD & Co., San Francisco, Calif. Filed Feb. 23, 1928.

JOROCO

Particular description of goods.—Pipes.
Claims use since January, 1912.

CLASS 10.

Fertilizers.

Ser. No. 258,825. AMBROSE E. MOYNAHAN, doing business as The American Minerals, Inc., Denver, Colo. Filed Dec. 12, 1927.

Fertilo

Particular description of goods.—Prepared Fertilizer.
Claims use since about May 1, 1927.

CLASS 12.

Construction Materials.

Ser. No. 252,956. S. LOUIS GOLDBERG, doing business as Delta Asbestos Company, New York, N. Y. Filed Aug. 3, 1927.

DELTITE

Particular description of goods.—Plastic Roofing Material to be Spread upon Roofs.
Claims use since Apr. 1, 1925.

Ser. No. 252,957. S. LOUIS GOLDBERG, doing business as Delta Asbestos Company, New York, N. Y. Filed Aug. 3, 1927.

DELCOTE

Particular description of goods.—Plastic Roofing Material to be Spread upon Roofs.
Claims use since Apr. 1, 1925.

Ser. No. 257,181. MELLOWES AND COMPANY LIMITED, Sheffield, England. Filed Nov. 7, 1927.



No claim is made to the word "Glazing" apart from the mark shown.
Particular description of goods.—Glazed Roofs and Sides of Buildings.
Claims use since Oct. 3, 1927.

Ser. No. 259,934. THE UNION METAL MANUFACTURING COMPANY, Canton, Ohio. Filed Jan. 10, 1928.



The representation of the goods shown in the drawing is disclaimed, also the word "Metal," apart from the mark as shown.
Particular description of goods.—Metal Buildings and Metal Columns for Building Purposes.
Claims use since Nov. 25, 1927.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 255,240. ISIDOR GREENSAFT, New York, N. Y. Filed Sept. 26, 1927.

PAT-RAK

The word "Rack" is disclaimed apart from the mark shown.
Particular description of goods.—Bar Racks and Hangers for Use Thereon for Hanging Patterns, Forms, and the Like.
Claims use since Feb. 1, 1927.

Ser. No. 256,737. MILWAUKEE VALVE COMPANY, Milwaukee, Wis. Filed Oct. 28, 1927.

MILVACO

Particular description of goods.—Metal Air Eliminators, Air Valves, Brass Unions, Compression Stops, Expansion-Tank Trimmings, Lavatory Stops, Quick Vents, Stops and Wastes, Strainers, Street L's, Traps (Drip, Blast, High Pressure and Boiler Return), Union Elbows, and Valves.
Claims use since February, 1923, or thereabout.

Ser. No. 257,775. AMBER ALLIS, Milwaukee, Wis. Filed Nov. 19, 1927.

AA

Particular description of goods.—Kitchen and Household Utensils—Namely, Metal Food Molds and Metal Cooking Molds.
Claims use since about Oct. 19, 1927.

Ser. No. 258,406. DOMESTIC MILLS PAPER COMPANY, New York, N. Y. Filed Dec. 3, 1927.

SIR-VIT

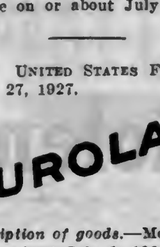
Particular description of goods.—Paper-Napkin Dispensers Made of Base Metal.
Claims use since Apr. 12, 1927.

Ser. No. 259,293. GEO. BAKER & SONS, INC., Brockton, Mass. Filed Dec. 23, 1927.

PIONEER

Particular description of goods.—Tacks and Nails.
Claims use since April, 1921.

Ser. No. 260,698. PIPE NIPPLE STANDARDS CORPORATION, Chicago, Ill. Filed Jan. 26, 1928.



Particular description of goods.—Metal Pipe Nipples.
Claims use since Jan. 7, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 255,282. UNION MINIERE DU HAUT KATANGA, Brussels, Belgium. Filed Sept. 26, 1927.

U.M.K.

Particular description of goods.—Electrolytic Copper of Various Forms.
Claims use since about Feb. 12, 1927.

Ser. No. 255,392. MUELLER BRASS CO., Port Huron, Mich. Filed Sept. 29, 1927.

M.B.

Particular description of goods.—Ingots, Pigs, Rods, Forgings, and Castings of Nonferrous Metal.
Claims use since on or about July 12, 1927.

Ser. No. 256,697. UNITED STATES FOIL CO., Louisville, Ky. Filed Oct. 27, 1927.

DUROLAK

Particular description of goods.—Metallic Foil.
Claims use since about July 1, 1927.

Ser. No. 257,469. CHICAGO STEEL FOUNDRY COMPANY, Chicago, Ill. Filed Nov. 12, 1927.

PYRASTEEL

Particular description of goods.—Steel Castings.
Claims use since November, 1926.

Ser. No. 257,570. AMERICAN SMELTING & REFINING COMPANY, New York, N. Y., and San Francisco, Calif. Filed Nov. 15, 1927. Under 10-year proviso.

PERTH AMBOY

Particular description of goods.—Nonferrous Metals and Metal Alloys—Namely, Lead, Solder, and Babbitt—In Ingots, Bars, Pigs, Forgings, and Castings in the Rough.
Claims use since 1894.

Ser. No. 257,571. AMERICAN SMELTING & REFINING COMPANY, New York, N. Y., and San Francisco, Calif. Filed Nov. 15, 1927. Under 10-year proviso.

OMAHA & GRANT

Particular description of goods.—Nonferrous Metals and Metal Alloys—Namely, Lead, Solder, and Babbitt—In Ingots, Bars, Pigs, Forgings, and Castings in the Rough.
Claims use since 1882.

Ser. No. 259,721. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed Jan. 5, 1928.

CROMOVAN

Particular description of goods.—Steel Bars of Various Shapes and Sizes and Forgings, Blocks, Discs, and Pieces of Steel.
Claims use since Dec. 15, 1927.

Ser. No. 261,003. HEPPENSTALL FORGE & KNIFE COMPANY, Pittsburgh, Pa. Filed Feb. 1, 1928.

Q-TEM

Particular description of goods.—Steel Forgings.
Claims use since Jan. 1, 1928.

CLASS 15.

Oils and Greases.

Ser. No. 242,200. THE PURE OIL COMPANY, Chicago, Ill. Filed Dec. 30, 1926.

Tiolene

Particular description of goods.—Hydrocarbon Motor Fuels—Namely, Gasoline, Kerosene, Benzine, Distillate—and Greases.
Claims use since January, 1907.

Ser. No. 253,312. CROWN OIL & WAX CO., Baltimore, Md. Filed Aug. 11, 1927.



The words "Motor" and "Baltimore, Md." are disclaimed apart from the mark shown in the drawing. The drawing is lined to represent color. The horizontal lines indicate blue, the diagonal lines in the outer circle indicate green, and the broken crossed diagonal lines in the inner circle indicate orange. The letters forming the word "Penn-Motor" have a white edge. The trade-mark is not limited to the color scheme shown and described.

Particular description of goods.—Lubricating Oils and Greases.

Claims use since about Jan. 14, 1927.

Ser. No. 253,314. CROWN OIL & WAX CO., Baltimore, Md. Filed Aug. 11, 1927.



The words "Baltimore, Md." are disclaimed apart from the mark shown on the drawing. The drawing is lined to represent color. Horizontal lines indicate blue, diagonal lines in the outer circle indicate green, and the broken crossed diagonal lines in the inner circle indicate orange. The letters forming the word "Penncyline" have a white edge. The trade-mark is not limited to the color scheme shown and described.

Particular description of goods.—Lubricating Oils and Greases.

Claims use since about Jan. 14, 1927.

Ser. No. 259,273. THE AKRON OIL COMPANY, Akron, Ohio. Filed Dec. 23, 1927.

"A HERO BELOW ZERO"

Particular description of goods.—Gasoline and Motor Lubricating Oils.
Claims use since September, 1925.

Ser. No. 260,068. MARQUETTE PETROLEUM PRODUCTS, Chicago, Ill. Filed Jan. 13, 1928.



Marfoyl

The drawing is lined to indicate green coloring as a background for the inner triangle and a filler for the capital letters "M P P."

Particular description of goods.—Lubricating Oils.
Claims use since Dec. 13, 1927.

Ser. No. 260,344. O'KAY PRODUCTS CORPORATION, Detroit, Mich. Filed Jan. 19, 1928.



The lining of the drawing is for the purpose of shading only.

Particular description of goods.—Lubricating Oils and Greases, Motor Oil, Cup Grease, and Compounds.
Claims use since Jan. 1, 1928.

Ser. No. 260,640. LE ROY & TOLAND, Philadelphia, Pa. Filed Jan. 25, 1928.



COOLSEAL

Particular description of goods.—Lubricating Oils.
Claims use since Mar. 23, 1927.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 243,565. THE SPRAY ENAMEL COMPANY, INC., New York, N. Y. Filed Jan. 29, 1927.

SPRAY-CAR

Particular description of goods.—Varnish, Paint, or Lacquer Adapted to be Sprayed on Any Surfaces, Particularly Automobiles or Other Devices Having Metallic Surfaces.
Claims use since Nov. 18, 1926.

Ser. No. 259,369. O'KAY PRODUCTS CORPORATION, Detroit, Mich. Filed Dec. 27, 1927.



The lining appearing in the drawing indicates shading only.

Particular description of goods.—Automobile Body Polish and Tire Paint.

Claims use since Dec. 1, 1927.

Ser. No. 259,597. JOHN A. SCHOENEGAN Jr., doing business as J. A. Schoenegan Jr. Co., New York, N. Y. Filed Dec. 31, 1927.

OJASO

Particular description of goods.—Automobile and Furniture Polish.

Claims use since about Dec. 24, 1927.

Ser. No. 260,435. EMPIRE OIL & FOOD PRODUCTS CO., Portland, Oreg. Filed Jan. 21, 1928.

EMPOIL

Particular description of goods.—Pure, Raw and Boiled Linseed Oil.

Claims use since Dec. 12, 1926.

Ser. No. 261,718. THE OHIO BRONZE POWDER COMPANY, Cleveland, Ohio. Filed Feb. 15, 1928.

NUGGET

Particular description of goods.—Gold Bronze Powder.

Claims use since April, 1922.

CLASS 17.

Tobacco Products.

Ser. No. 260,550. C. O. BENNER CIGAR COMPANY, Trumbauersville, Pa. Filed Jan. 24, 1928.

EL-CO

Particular description of goods.—Cigars.

Claims use since February, 1908.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 262,460. HUPP MOTOR CAR CORPORATION, Richmond, Va., and Detroit, Mich. Filed Mar. 1, 1928.



No claim is made for "8" apart from the mark shown.

Particular description of goods.—Automobiles and Constructive Parts Thereof.

Claims use since about Nov. 25, 1927.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 243,777. PETTIGREW & MERRIMAN (1925) LTD., London, England. Filed Feb. 3, 1927.

PHONOS

Particular description of goods.—Radio Loud Speakers and Radio Audiofrequency Transformers.

Claims use since 1925.

Ser. No. 244,715. NATIONAL LEAD BATTERY COMPANY, St. Paul, Minn. Filed Feb. 21, 1927.

NATIONAL
HOME POWER UNIT

The words "Home Power Unit" form a part of the registration sought only in association with the other features of the mark shown in the drawing.

Particular description of goods.—Combination Storage A Batteries and Chargers, Commonly Known as Radio A Power Units.

Claims use since Oct. 9, 1926.

Ser. No. 258,103. USEM COMPANY, New York, N. Y. Filed Nov. 26, 1927.



No claim is made herein to the letters "N. Y."

Particular description of goods.—Electric Bells, Electric Push Buttons, Connecting Devices for Electric Wires, Electric Tank Float Switches, Pressure-Indicating Electric Alarm Systems, Electric Relays, and Electric Signal Panels.

Claims use since Apr. 15, 1907.

Ser. No. 259,459. POWER-PLUS BATTERY COMPANY, St. Louis, Mo. Filed Dec. 29, 1927.

POWER-PLUS

No claim is made to the word "Power" apart from the mark shown.

Particular description of goods.—Electric Storage Batteries.

Claims use since about June 20, 1920.

Ser. No. 259,897. DIANA RADIO TUBE CORP., New York, N. Y. Filed Jan. 10, 1928.



The figure shown is intended to be purely fanciful.

Particular description of goods.—Radio Vacuum Tubes.

Claims use since on or about Oct. 1, 1927.

Ser. No. 260,177. FRANK E. HUTCHISON, doing business as Hutchison Engineering Works, Chicago, Ill. Filed Jan. 16, 1928.

FLOLIGHT

Particular description of goods.—Unitary Electric-Lighting Plants, Electric Flood Lights, and Electric Lanterns.

Claims use since Dec. 18, 1925.

Ser. No. 260,221. THE FRUGAL ELECTRIC MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Jan. 17, 1928.

Frugal

Particular description of goods.—Electric Heating Devices Consisting of Electric Stoves, Ranges, Hot Plates, and Bathroom Heaters.

Claims use since Sept. 15, 1926.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 259,320. GEO. BORGFELDT & Co., New York, N. Y. Filed Dec. 24, 1927.

Jolly Jester

Particular description of goods.—Dolls, Toy Animals, Toy Figures, Mechanical Toys, Toy Musical Instruments, Party and Holiday Favors of Various Materials, Such as Papier-Mâché, Wood, Metal, Plaster, Glass, and the Like.

Claims use since Nov. 15, 1927.

Ser. No. 260,870. THE BURKE GOLF COMPANY, Newark, Ohio. Filed Jan. 30, 1928.

50-50
BURKE

Exclusive use of the word "Burke" is not claimed apart from the mark shown in the drawing.
Particular description of goods.—Sporting Goods—Namely, Golf Balls, Golf Clubs, Golf Tees, and Golf Bags.
Claims use since Dec. 1, 1927.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 251,950. CASTRO BUSTOS, PROBST & PROBST, Paris, France. Filed July 13, 1927.

UTIL

Particular description of goods.—Automatic Liquid Dispensers for Dispensing Benzine, Ink, and Perfume.
Claims use since February, 1927.

Ser. No. 254,308. SPEED-O-ROLL PRESS CO. INC., New York, N. Y. Filed Sept. 2, 1927.

SPEED-O-ROLL

Particular description of goods.—Flat-Bed Printing Presses.
Claims use since Oct. 21, 1925.

Ser. No. 260,336. THE LIQUID CARBONIC CORPORATION, Chicago, Ill. Filed Jan. 19, 1928.

"The Super Kleen"

The word "Kleen" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.
Particular description of goods.—Bottle-Washing Machinery.
Claims use since May, 1922.

Ser. No. 260,507. KEARNEY & TRECKER, West Allis, Wis. Filed Jan. 23, 1928.

MIL-WAUKEE-MIL

Particular description of goods.—Milling Machines.
Claims use since Sept. 1, 1927.

Ser. No. 261,407. VENDOMETER CORPORATION, New York, N. Y. Filed Feb. 8, 1928.

VendOmat

Particular description of goods.—Vending Machines.
Claims use since on or about Jan. 24, 1928.

Ser. No. 261,408. VENDOMETER CORPORATION, New York, N. Y. Filed Feb. 8, 1928.

VendOmeter

Particular description of goods.—Vending Machines.
Claims use since on or about Sept. 1, 1927.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 245,360. SPIROS C. MARKATOS, doing business as Diamond Products Mfg. Co., New York, N. Y. Filed Mar. 7, 1927.

DIAMOND

Particular description of goods.—Combined Hat Luring, Steaming, and Pressing Machines.
Claims use since March, 1922.

Ser. No. 260,613. ALTORFER BROS. COMPANY, East Peoria, Ill. Filed Jan. 25, 1928.

ABC
Companion

Particular description of goods.—Laundry Washing Machines.
Claims use since Nov. 15, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 255,425. ADLANCO INDUSTRIAL PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 30, 1927.

OHMER

Particular description of goods.—Instruments for Measuring Electrical Resistances.
Claims use since Aug. 20, 1925.

Ser. No. 255,426. ADLANCO INDUSTRIAL PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 30, 1927.

MEGOHMER

Particular description of goods.—Instruments for Measuring Electrical Resistances.
Claims use since Feb. 20, 1922.

Ser. No. 260,082. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co., (Not Inc.), Chicago, Ill. Filed Jan. 14, 1928.

STRIASCOPE

Particular description of goods.—Instruments of the Retinoscope and Ophthalmoscope Type for Examining, Testing, and Measuring the Eyes.
Claims use since Dec. 31, 1927.

Ser. No. 260,363. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y. Filed Jan. 19, 1928.

PYRO-METER

Applicant makes no claim to the exclusive right to the use of the word "Meter" apart from the mark shown.
Particular description of goods.—Hydrometers.
Claims use since Oct. 2, 1926.

Ser. No. 260,655. GEORGE PORTER, doing business as International Metal & Specialty Co., Berlin, N. J. Filed Jan. 25, 1928.

TRANSMIT-O-PHONE

Particular description of goods.—Sound Locators.
Claims use since May 27, 1919.

CLASS 27.

Horological Instruments.

Ser. No. 259,808. THE K. K. IMPORTING CO., New York, N. Y. Filed Jan. 7, 1928.

KK
SYSTEM

No claim is made to the word "System" apart from the mark shown in the drawing.
Particular description of goods.—Watch Movements and Parts of Watches.
Claims use since June 30, 1927.

Ser. No. 259,809. THE K. K. IMPORTING CO., New York, N. Y. Filed Jan. 7, 1928.

K K K

No claim is made to the representation of a portion of a watch apart from the mark as shown in the drawing.
Particular description of goods.—Watch Movements and Parts of Watches.
Claims use since June 30, 1927.

Ser. No. 259,901. FABRIQUE D'HORLOGERIE JURY S. A., (Jury Watch Co., Ltd.), Bienne, Switzerland. Filed Jan. 10, 1928.

JURY

Particular description of goods.—Watches, Watch Movements, and Parts of the Same.
Claims use since about Feb. 24, 1919.

Ser. No. 261,021. SANGAMO ELECTRIC COMPANY, Springfield, Ill. Filed Feb. 1, 1928.

SANGAMO

Particular description of goods.—Electric Clocks.
Claims use since Dec. 1, 1926.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 240,021. DELTA TAU DELTA FRATERNITY, New York, N. Y. Filed Nov. 13, 1926.

ΔΤΔ

Particular description of goods.—Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since about 1859.

Ser. No. 252,603. EDMUND LE ROY JAMES, New York, N. Y. Filed July 27, 1927.

SNUG FIT
SIMPLEX
NON SLIP

* No claim is made to the words "Snugfit" and "Nonslip" apart from the mark shown in the drawing.
Particular description of goods.—Jewelry Buckles, Clasps, and Slides per se Adapted to be Applied Singly or in Combination to Men's and Boys' Belts, Men's and Women's Wrist-Watch Straps, Women's Ribbon Wrist-Watch Bracelets, All Made Wholly or in Part of Precious Metal or Base Metal Plated with Precious Metal.
Claims use since Jan. 31, 1927.

Ser. No. 259,303. F. & F. FELGER, INC., Newark, N. J. Filed Dec. 23, 1927.

FFF

Particular description of goods.—Jewelry for Personal Wear, Not Including Watches.
Claims use since Dec. 1, 1927.

Ser. No. 260,151. WANDER & KAUFMAN, INC., New York, N. Y. Filed Jan. 14, 1928.

Particular description of goods.—Platinum Mountings in Rings, Bracelets, Brooches, Scarf Pins, Lavallieres, Sautoirs, and Jewelry for Personal Wear.
Claims use since Jan. 5, 1928.

Ser. No. 260,154. WILLIAM WEISER, New York, N. Y Filed Jan. 14, 1928.

Particular description of goods.—Mountings for Pins, Rings, Bracelets, Brooches, Sautoirs, Pendants, and Jewelry for Personal Wear.
Claims use since March, 1922.

Ser. No. 260,290. POWERS & MAYER, INC., New York, N. Y. Filed Jan. 18, 1928.

P&M

Particular description of goods.—Precious Stones and Jewelry for Personal Wear, Not Including Watches.
Claims use since about Feb. 1, 1893.

Ser. No. 260,312. SAMUEL BRAND & SONS, INC., New York, N. Y. Filed Jan. 19, 1928.

SBS

Particular description of goods.—Jewelry for Personal Wear, Not Including Watches.
Claims use since about Jan. 1, 1908.

Ser. No. 260,335. ROBERT H. KLITZ, New York, N. Y. Filed Jan. 19, 1928.

Particular description of goods.—Bracelets, Brooch Pins, Finger Rings, and Other Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since about Jan. 10, 1908.

Ser. No. 260,366. S. WECHTER COMPANY, Chicago, Ill. Filed Jan. 19, 1928.

CIRCLE O'LOVE

Particular description of goods.—Finger Rings.
Claims use since Jan. 12, 1928.

Ser. No. 260,974. BELLE JEWELRY CO., New York, N. Y. Filed Feb. 1, 1928.

E-L

Particular description of goods.—Finger Rings.
Claims use since Jan. 1, 1928.

Ser. No. 261,007. WM. HUGER & COMPANY, INC., Newark, N. J. Filed Feb. 1, 1928.

Particular description of goods.—Jewelry—Namely, Finger Rings, Cuff Links, Lockets, Charms, Brooches, Lavallières, and Scarf Pins.
Claims use since 1883.

Ser. No. 261,099. COHN & ROSENBERGER, INC., New York, N. Y. Filed Feb. 3, 1928.

HELEN OF TROY

Particular description of goods.—Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins, and Pins for Dress Ornaments, Ornamental Pins and Buckles for Decorating Hats, Ornamental Shoe Buckles, and Hair Ornaments, Made Wholly or in Part of or Plated with Precious Metal.
Claims use since Jan. 5, 1928.

Ser. No. 261,100. COHN & ROSENBERGER, INC., New York, N. Y. Filed Feb. 3, 1928.

COQUETTE

Particular description of goods.—Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Bar Pins, and Ornamental Hatpins, and Pins for Dress Ornaments, Ornamental Pins and Buckles for Decorating Hats, Ornamental Shoe Buckles, and Hair Ornaments, Made Wholly or in Part of or Plated with Precious Metal.
Claims use since Jan. 15, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 260,470. MAX ROSENWALD, New York, N. Y. Filed Jan. 21, 1928.

Worthall

Particular description of goods.—Brushes for Personal Use—Namely, Toothbrushes.
Claims use since on or about Nov. 16, 1927.

Ser. No. 260,847. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Jan. 28, 1928.

PENIMAID

Particular description of goods.—Toothbrushes and Hairbrushes.
Claims use since Jan. 7, 1927.

CLASS 31.

Filters and Refrigerators.

Ser. No. 259,485. ELECTRIC REFRIGERATION CORPORATION, Detroit, Mich. Filed Dec. 30, 1927.

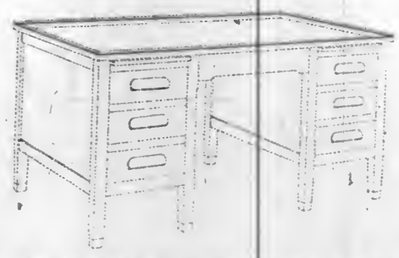
KELVA

Particular description of goods.—Refrigerator Cabinets and Mechanical Refrigerating Apparatus.
Claims use since Dec. 6, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 250,397. THE CLEMETSEN COMPANY, Chicago, Ill. Filed June 11, 1927.



No claim is made to the representation of the desk shown in the drawing. The trade-mark consists of a silver or white stripe or line arbitrarily painted or otherwise applied to the edge of the top of the articles described.

Particular description of goods.—Desks, Tables, and Filing Cabinets for Office and Household Use.

Claims use since May 17, 1927.

Ser. No. 259,681. HUMPTY DUMPTY STOOP-NO-MORE STORES, INC., Wilmington, Del., and McAllen, Tex. Filed Jan. 4, 1928.

BARGAIN CORNER WHERE TAKES A BIG FALL.

Particular description of goods.—Easels Designed to be Used in Calling Attention to Special Bargains in Stores.

Claims use since June 12, 1927.

Ser. No. 260,536. THE SKANDIA FURNITURE COMPANY OF ROCKFORD ILLINOIS, Rockford, Ill. Filed Jan. 23, 1928.

Viking

Particular description of goods.—Desks, Secretaries, Chest of Drawers, Highboys, Library and Sectional Bookcases, Dining-Room Suites, and Chairs, Tables, and Cabinets for Household and Office Use.

Claims use since about Jan. 1, 1907.

CLASS 33.

Glassware.

Ser. No. 262,256. THE PARAFLECTOR COMPANY, Minneapolis, Minn. Filed Feb. 25, 1928.

PARABEAM

Particular description of goods.—Headlight Lens.

Claims use since Nov. 15, 1925.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 243,880. PITTSBURG WATER HEATER COMPANY, Pittsburgh, Pa. Filed Feb. 5, 1927.

PITTSBURG-CUB

No claim is made herein to the use of the word "Pittsburg" apart from the mark as shown.

Particular description of goods.—Gas Hot-Water Heaters.

Claims use since Dec. 21, 1926.

Ser. No. 253,005. THE BUCKEYE BLOWER COMPANY, Columbus, Ohio. Filed Aug. 4, 1927.

THERMOFAN

Particular description of goods.—Heating and Ventilating Units Consisting of a Fan and Radiator.

Claims use since Apr. 1, 1927.

Ser. No. 256,013. THE REED AIR FILTER COMPANY, Louisville, Ky. Filed Oct. 12, 1927.

CIRCULAIR

Particular description of goods.—Heating Radiators.

Claims use since Oct. 4, 1927.

Ser. No. 256,556. WOOLWINE METAL PRODUCTS COMPANY, Los Angeles, Calif. Filed Oct. 24, 1927.



Applicant disclaims all words in the drawing except "Bear" apart from the mark as shown.

Particular description of goods.—Air-Tight Heaters for Coal and Wood, and Ovens.

Claims use since July 1, 1917.

Ser. No. 260,556. W. G. CLARK & CO., INC., North Attleboro, Mass. Filed Jan. 24, 1928.

Clark

No claim is made to the exclusive use of the name "Clark" apart from the mark as shown in the drawing.

Particular description of goods.—Friction Cigar Lighters.

Claims use since May 25, 1921.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 257,883. M. & S. TIRE AND TUBE PATCH CO., Washington, D. C. Filed Nov. 21, 1927.

Miser-Tite

Particular description of goods.—Portable Tire-Repair Kits.

Claims use since on or about Sept. 30, 1927.

Ser. No. 260,799. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Jan. 28, 1928.

R. F. D.

Particular description of goods.—Automobile Tires and Tubes.

Claims use since Aug. 25, 1927.

Ser. No. 261,185. GASH-STULL COMPANY, Chester, Pa. Filed Feb. 4, 1928.

COMPETITOR

Particular description of goods.—Automobile Tires.

Claims use since Jan. 26, 1928.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 243,551. LINEHAN PHONOGRAPH CO., INC., St. Paul, Minn., doing business as Nordica Mfg. Co., Chicago, Ill. Filed Jan. 29, 1927.

Nordica

Particular description of goods.—Phonographs Adapted for Combination with Radio Receiving Sets.

Claims use since on or about July 1, 1920.

Ser. No. 260,635. M. HOHNER, INC., New York, N. Y. Filed Jan. 25, 1928.

L'Organola

Particular description of goods.—Mouth Harmonicas and Accordions.

Claims use since 1903.

CLASS 37.

Paper and Stationery.

Ser. No. 259,576. POSTINDEX COMPANY INC., Jamestown, N. Y. Filed Dec. 31, 1927.

Postindex

Particular description of goods.—File Sheets.

Claims use since September, 1922.

Ser. No. 261,184. FEDERAL CONTAINER COMPANY, Philadelphia, Pa. Filed Feb. 4, 1928.

TUF-FIR

Particular description of goods.—Fibre Board in the Piece.

Claims use since on or about Jan. 5, 1928.

Ser. No. 261,438. NIKOLAUS HOFFRITZ, Uffing, Vogelmuhle, Germany. Filed Feb. 9, 1928.

Alivaz

Particular description of goods.—Pencils of All Kinds, Including Propeller Pencils.

Claims use since January, 1927.

Ser. No. 261,444. EDWARD D. LEVINSOHN, Chicago, Ill. Filed Feb. 9, 1928.



Particular description of goods.—Composition Books, Notebooks, Spelling Tablets, Examination Books, Writing Tablets, Bond Paper, Ledger Paper, Bond Mimeograph Paper, and School Writing Papers.

Claims use since Jan. 28, 1928.

Ser. No. 261,494. A. W. FABER INC., Newark, N. J. Filed Feb. 10, 1928.

A. W. FABER

Particular description of goods.—Lead Pencils, Colored Pencils, Copying Pencils, Ink Pencils, Screw Pencils, Rubber Pencils, Crayon Pencils, Slate Pencils, Pencil Holders, Pencil Leads, Pencil-Point Protectors, Lead-Pencil Fills, Penholders, Drawing Pens, Fountain Pens, Pocket Pen Shields, Crayons, Artists' Crayons, Chalks, Chalk Holders, Writing Slates, Writing-Paper Tablets, Parchment Tablets, Notebooks, Memorandum Books, Cross-Section Paper, Paper Cutters, Blotters, Hand Blotters, Rubber Bands, Rubber Pencil Tips, Plastic Erasing Rubber, Rubber Erasers, Thumb Tacks, and Artists' Stumps.
Claims use since 1851.

Ser. No. 261,495. A. W. FABER INC., Newark, N. J. Filed Feb. 10, 1928.

A. W. F.

Particular description of goods.—Lead Pencils, Colored Pencils, Copying Pencils, Ink Pencils, Screw Pencils, Rubber Pencils, Crayon Pencils, Slate Pencils, Pencil Holders, Pencil Leads, Pencil-Point Protectors, Lead-Pencil Fills, Penholders, Drawing Pens, Fountain Pens, Pocket Pen Shields, Crayons, Artists' Crayons, Chalks, Chalk Holders, Writing Slates, Writing-Paper Tablets, Parchment Tablets, Notebooks, Memorandum Books, Cross-Section Paper, Paper Cutters, Blotters, Hand Blotters, Rubber Bands, Rubber Pencil Tips, Plastic Erasing Rubber, Rubber Erasers, Thumb Tacks, Artists' Stumps.
Claims use since 1851.

Ser. No. 261,498. A. W. FABER INC., Newark, N. J. Filed Feb. 10, 1928.

BIPLEX

Particular description of goods.—Rubber Erasers.
Claims use since Jan. 17, 1928.

Ser. No. 261,536. TENSION ENVELOPE CO. INC., Brooklyn, N. Y. Filed Feb. 10, 1928.

HET—CLASP

No claim is made to the word "Clasp" apart from the mark shown in the drawing.
Particular description of goods.—Mailing Envelopes of the Clasp Type.
Claims use since Sept. 1, 1927.

Ser. No. 261,686. SAUQUOIT PAPER CO., INC., Utica, N. Y. Filed Feb. 14, 1928.

PURPLE CROSS

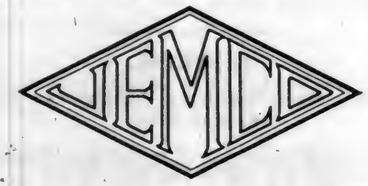
Particular description of goods.—Toilet Paper.
Claims use since June 1, 1917.

Ser. No. 261,733. C. E. BARRETT & CO., Chicago, Ill. Filed Feb. 16, 1928.



The mark consists in a yellow coloring for the fountain-pen barrel and cap, with black end for each. No claim is made herein to the fountain pen or the representation of the fountain pen as a part of this mark.
Particular description of goods.—Fountain Pens.
Claims use since about Sept. 1, 1926.

Ser. No. 261,900. J. E. MERGOTT COMPANY, Newark, N. J. Filed Feb. 18, 1928.



Particular description of goods.—Paper Knives, Pad Holders, Letter Openers, Paper Weights, Desk Sets, Calendar Stands.
Claims use since Oct. 14, 1921.

CLASS 38.

Prints and Publications.

Ser. No. 261,453. RADIO ENGINEERING MAGAZINE, INC., New York, N. Y. Filed Feb. 9, 1928.

RADIO ENGINEERING

Particular description of goods.—Monthly Magazine.
Claims use since Sept. 1, 1921.

Ser. No. 261,711. HAROLD HERSEY, New York, N. Y. Filed Feb. 15, 1928.

SWAP The Swapper's Exchange

Particular description of goods.—Magazines.
Claims use since Jan. 28, 1928.

Ser. No. 261,715. MOTOR REGISTRATION NEWS OF CALIFORNIA, Oakland, Calif. Filed Feb. 15, 1928.

MOTOR *Registration* **NEWS**

Particular description of goods.—Periodical.
Claims use since on or about Dec. 1, 1921.

Ser. No. 261,752. JOHN W. D. GRANT, New York, N. Y. Filed Feb. 16, 1928.

Prize Story

Particular description of goods.—Periodical.
Claims use since on or about Feb. 1, 1928.

Ser. No. 261,782. THE AMERICAN MERCURY, INC., New York, N. Y. Filed Feb. 17, 1928.



Particular description of goods.—Periodical Publication.
Claims use since Jan. 1, 1924.

Ser. No. 261,948. DELL PUBLISHING COMPANY, New York, N. Y. Filed Feb. 20, 1928.

WAR BIRDS

Particular description of goods.—Magazine Published Monthly.
Claims use since Jan. 19, 1928.

Ser. No. 261,949. DELL PUBLISHING COMPANY, New York, N. Y. Filed Feb. 20, 1928.

WAR NOVELS

Particular description of goods.—Magazine.
Claims use since Dec. 15, 1927.

Ser. No. 262,091. WILLIAM J. KOLLMORGEN, doing business as The Friendly Visitor Service, Fairmount, Ind. Filed Feb. 23, 1928.

The Friendly Visitor

Particular description of goods.—Publications for Religious News, Published Periodically.
Claims use since Sept. 1, 1922.

CLASS 39.

Clothing.

Ser. No. 242,687. THE METROPOLITAN COMPANY, Dayton, Ohio. Filed Jan. 11, 1927.

MARVILLE

No claim is made to the word "Marville" except as associated with the other features of the mark.
Particular description of goods.—Outer Suits for Men, Young Men, and Boys; Overcoats, Caps, and Vests.
Claims use since Nov. 1, 1926.

Ser. No. 245,502. LEBANON MILL COMPANY, Pawtucket, R. I. Filed Mar. 10, 1927.

UNDERSHEEN

Particular description of goods.—Women's, Misses', and Girls' Undergarments—Namely, Vests, Step-Ins, Bandeaux, Nightgowns, Pajamas, Bloomers, Bandeau Suits, Costume Slips, and Panel Suits of Woven or Knitted Textile Materials.
Claims use since Dec. 15, 1926.

Ser. No. 249,799. THE LONDON FEATHER NOVELTY COMPANY, New York, N. Y. Filed May 31, 1927.

IMPORTED VIS-CRUSH STRAW

No claim is made to the exclusive use of the words "Imported" and "Straw" apart from the mark as shown in the drawing.
Particular description of goods.—Ladies' Hats.
Claims use since Apr. 1, 1927.

Ser. No. 253,953. DANIEL NEAL & SONS LTD., London, England. Filed Aug. 25, 1927.

PHAT-PHEET

Particular description of goods.—Leather Boots, Rubber Boots; Boots Made in Part of Leather, Rubber, and Textile Fabric; Leather Shoes, Rubber Shoes; Shoes Made in Part of Leather, Rubber, and Textile Fabric; Leather Sandals, Rubber Sandals; Sandals Made in Part of Leather, Rubber, and Textile Fabric; Leather Leggings, Rubber Leggings; and Leggings Made in Part of Leather, Rubber, and Textile Fabric.
Claims use since Jan. 26, 1903.

Ser. No. 254,580. SAMUEL A. GOLDBERG, Chicago, Ill. Filed Sept. 10, 1927.

STEEPLE

Particular description of goods.—Hosiery.
Claims use since Aug. 29, 1927.

Ser. No. 254,709. THE FAIR, Chicago, Ill. Filed Sept. 14, 1927.

Ferncliffe
CLOTHES

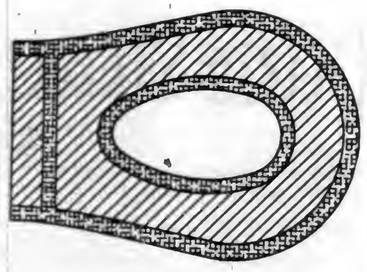
No claim is made to the word "Clothes" apart from the mark as shown in the drawing.
Particular description of goods.—Men's, Youths', and Boys' Suits, Coats, Pants, Vests, Overcoats, Raincoats, Topcoats, and Cravenettes.
Claims use since Mar. 1, 1927.

Ser. No. 256,670. HERBERT W. HANAN, doing business as Hanan & Son, Brooklyn, N. Y. Filed Oct. 27, 1927.

HANAN JUNIOR

Particular description of goods.—Leather, Cloth, and Rubber Boots, Shoes, and Slippers.
Claims use since July 6, 1926.

Ser. No. 257,889. THE NATIONAL MITTEN WORKS, Kokomo, Ind. Filed Nov. 21, 1927.



The color of the tag constitutes a part of the mark. The drawing is lined to represent the colors yellow and purple.
Particular description of goods.—Cotton Work Gloves and Mittens and Cotton Jersey Gloves.
Claims use since March, 1925.

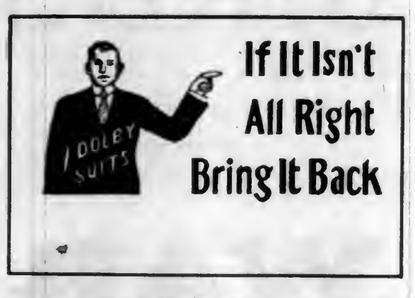
Ser. No. 258,783. ODEONHAT INC., New York, N. Y. Filed Dec. 10, 1927.



IMPORTED FELT

No claim is made to the exclusive use of the words "Imported Felt" apart from the mark as shown in the drawing.
Particular description of goods.—Ladies' Hats.
Claims use since on or about July 15, 1927.

Ser. No. 259,107. L. R. DOLBY COMPANY, Spokane, Wash. Filed Dec. 19, 1927.



The portrait is a fanciful figure. The right to the exclusive use of the descriptive matter "Suits" and the slogan "If it isn't all right bring it back" is hereby disclaimed.
Particular description of goods.—Men's, Women's, and Children's Ready-Made and Tailor-Made Suits, Coats, Overcoats, Wraps, Cloaks, Capes, Jackets, Vests, and Dresses; Dress Shirts, Work Shirts, Negligee Shirts, Shirt Waists, Blouses, Wrappers, House Dresses, Overalls; Jumpers; Sports Wear, Knitted and Textile, Consisting of Jackets, Shirts, and Hose for Men, and Dresses, Shirts, Jackets, Coats and Hose for Women; Pajamas, Nightgowns, Dressing Gowns, Stockings, Socks; Underwear, Knitted and Textile; Gloves and Mittens of Leather, Leather and Fabric; and Also Leather and Knitted, and Fabric and Knitted Gloves and Mittens, Suspenders; Belts of Leather, Part Leather and Fabric, and of Fabric for Outer Wear; Cravats, Knitted and Textile; Collars, Scarfs, Garters; Hats and Caps of Felt, Cloth, and of Waterproof Material for Men, Women, and Children; Boots and Shoes of Leather, of Fabric, of Rubber, of Leather and Fabric, and of Rubber and Fabric; Rubbers, and Galoshes.
Claims use since Dec. 10, 1910.

Ser. No. 259,276. BLUHUT HAT CO., INC., New York, N. Y. Filed Dec. 23, 1927.



No registration rights are claimed in the word "Felts" except in association with the rest of the mark.
Particular description of goods.—Hats and Caps for Men and Boys.
Claims use since May, 1927.

Ser. No. 259,745. MOSS-SEAMANS SHOE CO., Haverhill and Newburyport, Mass. Filed Jan. 5, 1928.

FEATHER PEDIC

Particular description of goods.—Leather Shoes.
Claims use since Oct. 30, 1926.

Ser. No. 259,947. THE DRYBAK CORPORATION, Binghamton, N. Y. Filed Jan. 11, 1928.

Lasticalf

Particular description of goods.—Men's, Boys' Women's, and Children's Breeches and Leggings; Men's and Boys' Trousers and Pants.
Claims use since Sept. 1, 1927.

Ser. No. 260,011. CHARLES HENIS, New York, N. Y. Filed Jan. 12, 1928.

Stybelser

Particular description of goods.—Coats, Capes, and Wraps for the Use of Women and Misses.
Claims use since Nov. 1, 1927.

Ser. No. 260,088. P. CENTEMERI & Co., New York, N. Y. Filed Jan. 14, 1928.

ALBERTA

Particular description of goods.—Men's, Women's, and Children's Gloves of Leather and Fabric or Combinations Thereof.
Claims use since Nov. 12, 1927.

Ser. No. 260,092. P. CENTEMERI & Co., New York, N. Y. Filed Jan. 14, 1928. Under 10-year proviso.

P. Centemeri & Co.

Applicant owns registration No. 45,888.
Particular description of goods.—Silk, Fabric, and Kid Gloves.
Claims use since March, 1888.

Ser. No. 260,103. DAVID & BLUM, INC., New York, N. Y. Filed Jan. 14, 1928.

EDELWEISS
G.F.
LAVABLE

Applicant disclaims the word "Lavable" apart from the mark shown in the drawing.
Particular description of goods.—Leather Gloves.
Claims use since July 1, 1927.

Ser. No. 260,124. JUNIOR, HALF-SIZE COAT CO., INC., New York, N. Y. Filed Jan. 14, 1928.

"Wee Moderns"
COATS FOR LITTLE WOMEN

No rights are asserted to the exclusive use of the words "Coats for Little Women" apart from the mark as shown in the drawing.
Particular description of goods.—Coats for Women, Misses, and Children.
Claims use since Nov. 18, 1927.

Ser. No. 260,350. PERLMAN BROS., New York, N. Y. Filed Jan. 19, 1928.

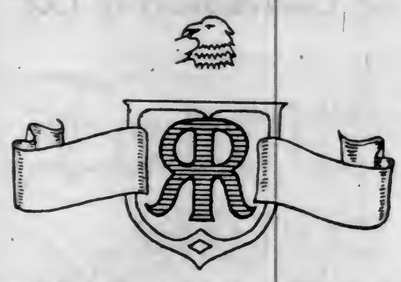


Applicant disclaims exclusive right to the use of the wording on the drawing except the word "Perly" except as the same is used in connection with the other features of the mark.

Particular description of goods.—Men's and Children's Caps.

Claims use since July 10, 1927.

Ser. No. 261,075. ABRAHAM J. ROSENFIELD, doing business as Rosenfield Uniform Company, Boston, Mass. Filed Feb. 2, 1928.



Particular description of goods.—Uniform and Civilian Coats, Trousers, Vests, and Breeches; Uniform and Civilian Overcoats and Capes, Leggings, Puttees, Negligee Shirts, Neckties, Hats, and Caps for Army and Navy Officers and Enlisted Men; Belts for Outer Wear in the Nature of Garment Supporters and Raincoats.

Claims use since Jan. 1, 1908.

Ser. No. 261,518. MERIT HOSIERY COMPANY, Ozone Park, N. Y. Filed Feb. 10, 1928.



Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since September, 1927.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 260,236. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Jan. 17, 1928.

PENGUARD

Particular description of goods.—Safety Pins Made of Metals Other Than Precious Metals.

Claims use since Apr. 25, 1927.

CLASS 41.

Canes, Parasols, and Umbrellas.

Ser. No. 259,783. ROSE BROTHERS COMPANY, Lancaster, Pa. Filed Jan. 6, 1928.



The mark is shown by forming in a flattened part near the outer end of each rib of an umbrella or parasol a narrow concavo-convex portion extending substantially the entire length of such flattened portion. No claim is made for the representation of the umbrella rib having a flattened portion.

Particular description of goods.—Umbrellas and Parasols.

Claims use since January, 1920

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 234,600. WARWICK MILLS, Centerville, R. I., and Boston, Mass. Filed July 15, 1926.

2139

Particular description of goods.—Two-Ply Cotton-Yarn Marquisette.

Claims use since Dec. 27, 1919.

Ser. No. 244,624. NATIONAL POOL & BILLIARD SUPPLY CO., Chicago, Ill. Filed Feb. 19, 1927.

NAPOBISCO BELGIUM *1

No claim is made to the word "Belgium" and the numerical number "1" apart from the mark as shown.

Particular description of goods.—Billiard-Table Cloths.

Claims use since Oct. 5, 1925.

Ser. No. 248,470. THE ATLANTIC MILLS, Olneyville, R. I., and Stottville, N. Y. Filed May 5, 1927.

FETHERSHEEN

Particular description of goods.—Woolen Textile Fabrics in the Piece.

Claims use since about Nov. 1, 1926.

Ser. No. 257,333. THE ATLANTIC MILLS, Olneyville, R. I., and Stottville, N. Y. Filed Nov. 10, 1927.

Camelaine

Particular description of goods.—Woolen Coatings in the Piece.

Claims use since about Oct. 20, 1927.

Ser. No. 258,155. WEILL & CALLMAN, New York, N. Y. Filed Nov. 28, 1927.

FAN-TAN CREPE

No registration rights are claimed in the word "Crepe" except as associated with the rest of the mark.

Particular description of goods.—Silk Piece Goods.

Claims use since Oct. 11, 1927.

Ser. No. 258,343. H. MIRENBURG & CO. INC., New York, N. Y. Filed Dec. 2, 1927.

KREPE FORSETTE

No claim is made to the word "Krepe" apart from the mark as shown in the drawing.

Particular description of goods.—Piece Goods Made of Silk.

Claims use since March, 1924.

Ser. No. 258,345. H. MIRENBURG & CO. INC., New York, N. Y. Filed Dec. 2, 1927.

KREPE MEDALINE

No claim is made to the word "Krepe" apart from the mark as shown in the drawing.

Particular description of goods.—Piece Goods Made of Silk.

Claims use since March, 1924.

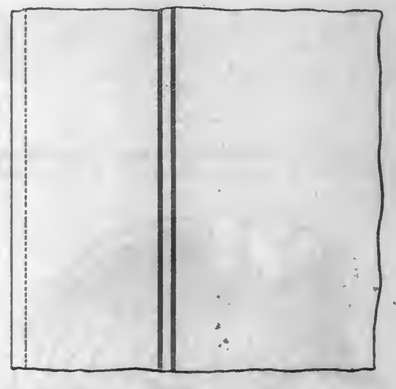
Ser. No. 260,042. BRITEX AWNING CLOTH CO. INC., Richmond Hill, N. Y. Filed Jan. 13, 1928.

BRITEX

Particular description of goods.—Awning Cloth.

Claims use since Sept. 1, 1927.

Ser. No. 260,172. EDGAR K. FRANK & CO., New York, N. Y. Filed Jan. 16, 1928.



No claim is made to the exclusive use of the representation of the fabric apart from the mark as shown. The mark consists of two lavender stripes arranged one-eighth of an inch apart either near the selvage or distributed at uniform distances throughout the cloth.

Particular description of goods.—Linings in the Piece Manufactured from Wool, Cotton and Rayon and Combinations of the Same.

Claims use since Nov. 15, 1927.

Ser. No. 260,355. CARLETON SCHALLER & CO., New York, N. Y. Filed Jan. 19, 1928.

GREENISLE

Particular description of goods.—Linen Goods in the Piece.

Claims use since on or about Dec. 1, 1927.

Ser. No. 260,947. LANG & LEWIN, INC., New York, N. Y. Filed Jan. 31, 1928.



Particular description of goods.—Piece Goods of Silk, Wool, Cotton, Rayon, or Mixtures Thereof for Clothing and Other Purposes.
Claims use since Aug. 12, 1927.

Ser. No. 261,011. LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Feb. 1, 1928.

ADVANSO

Particular description of goods.—Piece Goods, Being a Fabric with a Warp of Cotton, or of Cotton and Mohair Mixed, or of Cotton and Silk Mixed, or of Mohair, or Alpaca, or Silk, or Artificial Silk, Singly, or Combined.
Claims use since Dec. 29, 1927.

Ser. No. 261,141. ARTHUR A. PERKINS, doing business as Perkins Silk Shop Inc., Albany, N. Y. Filed Feb. 3, 1928.



Particular description of goods.—Silk and Silk Warp Goods in the Piece.
Claims use since Jan. 12, 1928.

Ser. No. 261,653. STEPHEN SANFORD & SONS INC., Amsterdam, N. Y. Filed Feb. 13, 1928.

Sanforstan

Particular description of goods.—Axminster Carpets and Rugs.
Claims use since Dec. 2, 1927.

CLASS 43.

Thread and Yarn.

Ser. No. 261,327. REVONAH SPINNING MILLS, INC., Hanover, Pa. Filed Feb. 7, 1928.

Excelofil
HIGH GRADE JUTE YARN

The slogan "High Grade Jute Yarn" is disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Jute Yarns Used in the Manufacturing and Construction of Floor Coverings, Particularly Rugs and Carpets.
Claims use since Dec. 10, 1927.

Ser. No. 261,328. REVONAH SPINNING MILLS, INC., Hanover, Pa. Filed Feb. 7, 1928.

Revonah Quality

The word "Quality" is disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Jute Yarns Used in the Manufacturing and Construction of Floor Coverings, Particularly Rugs and Carpets.
Claims use since July 1, 1927.

Ser. No. 261,329. REVONAH SPINNING MILLS, INC., Hanover, Pa. Filed Feb. 7, 1928.

Superax
DE LUXE JUTE TAPE

The term "Jute Tape" is disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Jute Yarns Used in the Manufacturing and Construction of Floor Coverings, Particularly Rugs and Carpets.
Claims use since Nov. 11, 1927.

Ser. No. 261,330. REVONAH SPINNING MILLS, INC., Hanover, Pa. Filed Feb. 7, 1928.

Excelowarp
CLEAN STRONG LEVEL JUTE YARN

The slogan "Clean Strong Level Jute Yarn" is disclaimed apart from the other features of the mark shown on the drawing.
Particular description of goods.—Jute Yarns Used in the Manufacturing and Construction of Floor Coverings, Particularly Rugs and Carpets.
Claims use since Dec. 10, 1927.

Ser. No. 261,772. SCHACHENMAYR, MANN & CO., Salach, Germany. Filed Feb. 16, 1928.

Nomotta

Particular description of goods.—Yarns.
Claims use since 1927.

Ser. No. 261,924. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 18, 1928.



Particular description of goods.—Yarns.
Claims use since Jan. 20, 1927.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 249,221. R. GRAF & CO. AKTIENGESELLSCHAFT, Nuremberg, Germany. Filed May 19, 1927.



All wording with the exception of applicant's name "R. Graf & Co. A. G." is disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—Catgut and Other Surgical Sewing Material, Crude Catgut, Sterilized Catgut, Sewing Silk, All for Surgical Purposes.
Claims use since Oct. 15, 1917.

Ser. No. 255,958. BREWER & COMPANY, INC., Worcester, Mass. Filed Oct. 12, 1927.

AERO

Particular description of goods.—Elastic Athletic Supporter with Knitted Mesh Pouch.
Claims use since June 1, 1927.

Ser. No. 257,366. MAX KAPPNER, doing business as The Kappner Manufacturing Company, Cincinnati, Ohio. Filed Nov. 10, 1927.

Foot Form

No claim is made to the exclusive use of the representation of an arch supporter apart from the mark shown in the drawing.
Particular description of goods.—Arch Supporters for the Treatment of Fallen Arches, Broken Arches, Weak Ankles, and Sprains.
Claims use since June 1, 1923.

Ser. No. 257,573. JULIUS BERBERT, Denver, Colo. Filed Nov. 15, 1927.

X-L-O

Particular description of goods.—Diagnostic Thermometers, Bone Instrument, Nasal Implement and Applicators, Rubber Stomach Tubes, Surgical Scissors, Operating Knives, Artery Forceps, Syringes of All Kinds; Hospital Furniture—Namely, Operating Tables, Examining Tables, Instrument Tables, Irrigating Stands, Bowl and Basin Stands, X-Ray Tables, Surgical Chairs, Specialist's Chairs, Stools, Instrument and Dressing Cabinets, Surgical Sanitary Waste Pails, Surgical Enameled Ware, Trusses, Crutches, Surgical Dressings, Abdominal Supporters, Orthopedic Appliances, and Sterilizers for Use by Physicians and Dentists.
Claims use since Sept. 19, 1927.

Ser. No. 258,572. COOK LABORATORIES, INC., Chicago, Ill. Filed Dec. 7, 1927.

PER-JECTION

Particular description of goods.—Needles for Hypodermic Syringes or for Injection-Administering Purposes.
Claims use since Nov. 6, 1927.

Ser. No. 259,981. UNIVERSAL PERMANENT WAVE MACHINE Co., Chicago, Ill. Filed Jan. 11, 1928.

ZIG-ZAG

Particular description of goods.—Hair-Waving Pads Used in the Process of Permanently Waving Hair.
Claims use since Jan. 1, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 260,875. COCA COLA BOTTLING COMPANY OF LOS ANGELES, doing business as Lime and Lemon Frost Company, Los Angeles, Calif. Filed Jan. 30, 1928.

LEMON FROST

The word "Lemon" forms a part of the trade-mark for which registration is sought only in association with the word "Frost."

Particular description of goods.—Lemon-Flavored, Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups Used in Making the Same.

Claims use since Oct. 15, 1927.

Ser. No. 260,876. COCA COLA BOTTLING COMPANY OF LOS ANGELES, doing business as Lime and Lemon Frost Company, Los Angeles, Calif. Filed Jan. 30, 1928.

Lime Frost

The word "Lime" forms a part of the trade-mark for which registration is sought only in association with the word "Frost."

Particular description of goods.—Lime-Flavored, Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups Used in Making the Same.

Claims use since Oct. 15, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 230,207. AKTIENGESELLSCHAFT CHOCOLAT TOBLER, Bern, Switzerland. Filed Apr. 15, 1926.

Nimrod

Particular description of goods.—Chocolate.

Claims use since June 17, 1913.

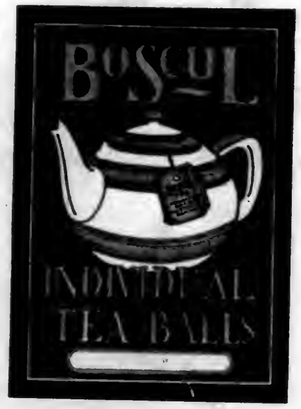
Ser. No. 242,261. WEART, SCHMALE & NEWBAUER INC., doing business as Weart & Schmale, San Francisco, Calif. Filed Dec. 31, 1926.

Poppy Maid

Particular description of goods.—Canned Fruits.

Claims use since April 19, 1926.

Ser. No. 242,443. WILLIAM S. SCULL COMPANY, Camden, N. J. Filed Jan. 6, 1927.



The drawing is lined for shading purposes only. No claim is made to the representation of a teapot nor the words "Tea Orange Pekoe India Blend Wm. S. Scull Co. Camden, N. J., Individual Tea Balls."

Particular description of goods.—Tea and Tea Balls.

Claims use since about Nov. 15, 1926.

Ser. No. 242,941. JITSUJI AOKI, doing business as Oakland Noodle Company, Oakland, Calif. Filed Jan. 17, 1927.



The lining shown on the drawing is for shading purposes only.

Particular description of goods.—Noodles.

Claims use since Sept. 1, 1922.

Ser. No. 243,547. HEINTZ, MERKLE & CO. (INC.), Philadelphia, Pa. Filed Jan. 29, 1927.

BANBURY "FRUIT-OH!"

No claim to exclusive rights by this registration being made to the words "Banbury" or "Fruit" per se apart from the mark shown in the drawing.

Particular description of goods.—Bottled Minced Fruit.

Claims use since about Dec. 29, 1926.

Ser. No. 249,369. NEW YORK CANNERS INC., Rochester, N. Y. Filed May 21, 1927.

ENCORE

Particular description of goods.—Canned Fruits and Vegetables, Ketchup, Chili Sauce, Jams, and Fruit Preserves.

Claims use since 1892.

Ser. No. 249,702. C. A. BRIGGS COMPANY, Cambridge, Mass. Filed May 28, 1927.



Particular description of goods.—Candy.

Claims use since March, 1923.

Ser. No. 250,546. KEEK COMPANY, INC., St. Louis, Mo. Filed June 15, 1927.



Particular description of goods.—Canned Vegetables, Vinegar, Canned Sauerkraut, Bottled and Canned Sauerkraut Juice, Vegetable Salad in Glass Jars; Sweet Relish Consisting of a Mixture of Vegetables, Spices, Pimentos, Etc.; Sweet Salad Spread, Combination Dressing for Salads, Etc.; Pancake Flour, Strawberry Preserves, Vanilla Extract for Food-Flavoring Purposes, French Dressing, Gherkins, Olives, Coffee; Delicatessen Oil, Comprising a Vegetable Oil Used for Salads, Cooking, Baking, Etc.; and Sweet Gherkins.

Claims use since Mar. 30, 1927.

Ser. No. 253,040. NEW ENGLAND FISH CO., Seattle, Wash. Filed Aug. 4, 1927.

Searchlight

Particular description of goods.—Canned Salmon.

Claims use since Mar. 1, 1927.

Ser. No. 257,032. THE ROSEMARY CREAMERY COMPANY, New York, N. Y. Filed Nov. 3, 1927.

ROSEMARY

Particular description of goods.—Dried Milk.

Claims use since about Jan. 1, 1927.

Ser. No. 257,454. THE STROH PRODUCTS COMPANY, Detroit, Mich. Filed Nov. 11, 1927.

BIG HORN



Particular description of goods.—Malt Syrup.

Claims use since June 10, 1927.

Ser. No. 257,706. SCAMPAVIA BROS., Watsonville, Calif. Filed Nov. 17, 1927.

GOLONDRINA

Particular description of goods.—Fresh Fruits—Namely, Apples.

Claims use since Sept. 3, 1927.

Ser. No. 258,110. BROWN PACKING COMPANY, San Francisco, Calif. Filed Nov. 28, 1927.

LAMANET

Particular description of goods.—Canned and Preserved Vegetables—Namely, Artichoke Hearts Processed in Glass.

Claims use since Nov. 15, 1926.

Ser. No. 258,962. STANARD TILTON MILLING COMPANY, St. Louis, Mo. Filed Dec. 15, 1927.

TRIUNFADORA

Particular description of goods.—Wheat Flour.

Claims use since Sept. 21, 1926.

Ser. No. 259,363. KEYSTONE MUSHROOM COMPANY, Pomeroy, Pa. Filed Dec. 27, 1927.

DeLuxe

Particular description of goods.—Mushrooms Packed in Glass Jars.

Claims use since Dec. 9, 1927.

Ser. No. 259,605. JOHN W. WHISENANT, Los Gatos, Calif. Filed Dec. 31, 1927.

WHIZ-NANS

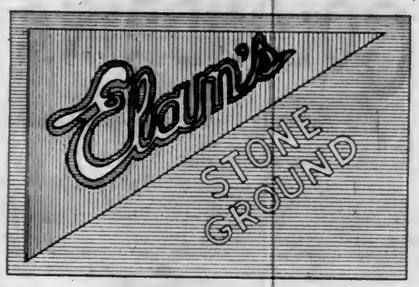
Particular description of goods.—Frozen Bananas.
Claims use since Nov. 25, 1927.

Ser. No. 259,768. HAPPINESS BAKERIES, INC., St. Paul, Minn. Filed Jan. 6, 1928.

GLADNESS

Particular description of goods.—Cakes, Rolls, Bread, Pie, Toast, and Doughnuts.
Claims use since Dec. 29, 1927.

Ser. No. 259,900. ELAM MILLS, INC., Chicago, Ill. Filed Jan. 10, 1928.



No claim is made to the words "Stone Ground" apart from the mark as used. The lining in the drawing indicates the colors red and blue.
Particular description of goods.—Whole-Wheat Flour, Whole-Wheat Meal, Corn Meal, and Oatmeal.
Claims use since about 1918.

Ser. No. 259,978. KARL P. TESKE, doing business as Teske Milling Company, Davenport, Iowa. Filed Jan. 11, 1928.



Particular description of goods.—Laying Mash, Scratch Grains, Chick Grains, Calf Meal, and Chick Mash.
Claims use since Oct. 13, 1927.

Ser. No. 260,193. AD. SEIDEL & SONS, Chicago, Ill. Filed Jan. 16, 1928.

TOP SCOTCH

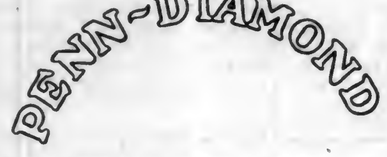
Particular description of goods.—Concentrated Syrup Containing Flavoring and Other Ingredients Ready Mixed for Making Cakes, Pies, and the Like.
Claims use since Feb. 16, 1926.

Ser. No. 260,317. BUDLONG PICKLE CO., Chicago, Ill. Filed Jan. 19, 1928.



Particular description of goods.—Pickles, Prepared Mustard, Catsup, Fruit and Berry Preserves, Chili Sauce, Vegetable Relishes, Pickled Onions, Piccalilli, Chowchow, and Preserved Olives.
Claims use since about 1915.

Ser. No. 260,428. D. F. & R. M. DENNIS, Carlisle, Pa., and Martinsburg, W. Va. Filed Jan. 21, 1928.



Particular description of goods.—Fresh Apples and Fresh Peaches.
Claims use since Sept. 7, 1924, on fresh apples and since August, 1925, on fresh peaches.

Ser. No. 260,586. KERMIT PERLMUTER, doing business as Supreme Malt Products Co., East Boston, Mass. Filed Jan. 24, 1928.

TOWN TALK

Particular description of goods.—Malt Extracts.
Claims use since the fall of 1927.

Ser. No. 260,587. KERMIT PERLMUTER, doing business as Supreme Malt Products Co., East Boston, Mass. Filed Jan. 24, 1928.

OLD TIMES

Particular description of goods.—Malt Extracts.
Claims use since late in 1927.

Ser. No. 260,700. TACOMA GRAIN COMPANY, Tacoma, Wash. Filed Jan. 26, 1928.

DAMON



Particular description of goods.—Wheat Flour.
Claims use since 1919.

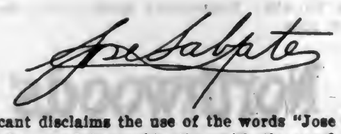
Ser. No. 260,704. STEPHEN F. WHITMAN & SON, INC., doing business as Whitman's, Philadelphia, Pa. Filed Jan. 26, 1928.

JOY BOX

No claim is made to the word "Box" apart from the mark as shown.
Particular description of goods.—Candy.
Claims use since Jan. 1, 1928.

Ser. No. 260,903. MUSHER AND COMPANY, Washington, D. C. Filed Jan. 30, 1928.

Saba



Applicant disclaims the use of the words "Jose Sabate" except when used in combination with the word "Saba," as appears in the drawing.
Particular description of goods.—Salad Oil.
Claims use since Jan. 30, 1928.

Ser. No. 260,939. J. H. FILBERT, INC., Baltimore, Md. Filed Jan. 31, 1928.

LIBERTY ROLL

Applicant makes no claim to the word "Roll" apart from the mark shown in the drawing.
Particular description of goods.—Oleomargarine.
Claims use since Jan. 1, 1925.

Ser. No. 260,998. DOMENICO GUARNERI, Brooklyn, N. Y. Filed Feb. 1, 1928.



No registration rights are claimed in the word "Brand" except in association with the other features of the mark. The mark consists of the surname and portrait of Peter Mazzoni, an Italian patriot, now deceased.
Particular description of goods.—Olive Oil.
Claims use since June 21, 1927.

Ser. No. 261,160. H. C. COLE MILLING COMPANY, Chester, Ill. Filed Feb. 8, 1928.



Particular description of goods.—Wheat Flour and Self-Rising Flour.
Claims use since Jan. 2, 1913, on self-rising flour and since Nov. 20, 1926, on wheat flour.

Ser. No. 261,161. H. C. COLE MILLING COMPANY, Chester, Ill. Filed Feb. 3, 1928.

OMEGA

Particular description of goods.—Wheat Flour, Self-Rising Flour, Cake Flour, and Mill Feeds.
Claims use since 1883 on wheat flour; since June 28, 1923 on self-rising flour; and since Nov. 1, 1926, on mill feed.

Ser. No. 261,215. 7 BAKER BROTHERS, Pittsburgh, Pa. Filed Feb. 4, 1928.

FEEL-IX
THE WONDER CAT

Particular description of goods.—Cakes and Biscuits.
Claims use since Apr. 1, 1927.

Ser. No. 261,216. 7 BAKER BROTHERS, Pittsburgh, Pa. Filed Feb. 4, 1928.

SIC 'EM!

THE WONDER DOG

Particular description of goods.—Cakes and Biscuits.
Claims use since Apr. 1, 1927.

Ser. No. 261,218. SHENANDOAH MILLING COMPANY, INC., Shenandoah, Va. Filed Feb. 4, 1928.



Particular description of goods.—Wheat Flour, Plain and Self Rising.
Claims use since July 1, 1921.

Ser. No. 261,249. ESKIMO PIE CORPORATION, Louisville, Ky. Filed Feb. 6, 1928.

ESKIMO PUDDING

Particular description of goods.—Frozen Confections.
Claims use since about Nov. 1, 1927.

Ser. No. 261,273. GEORGE MORRISON, Poughkeepsie, N. Y. Filed Feb. 6, 1928.



No claim is made to the exclusive use of the words "Extra Fancy" and "Honey" appearing on the drawing separate and apart from the other features of the mark.
Particular description of goods.—Honey.
Claims use since Oct. 1, 1927.

Ser. No. 261,452. PLATTSBURGH FEED & GROCERY CO., Plattsburg, N. Y. Filed Feb. 9, 1928.

Patrician

Particular description of goods.—Canned Vegetables, Catsup, Fruit Preserves, and Macaroni.
Claims use since 1922.

Ser. No. 261,454. RODDENBERY BROS., Cairo, Ga. Filed Feb. 9, 1928.

Northwoods

Particular description of goods.—Cane and Maple Sugar Syrup.
Claims use since Dec. 16, 1927.

Ser. No. 261,616. SARAH W. EVELETH, Winter Haven, Fla. Filed Feb. 13, 1928.

PAULILLA FRUITY SWEET

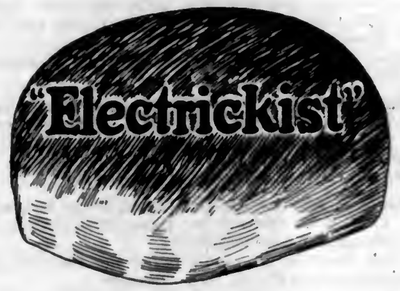
No claim is made to the exclusive use of the words "Fruity Sweet" apart from the mark shown in the drawing.
Particular description of goods.—Cakes.
Claims use since Jan. 13, 1928.

Ser. No. 261,672. HOFFMANN-HAYMAN COFFEE CO., San Antonio, Tex. Filed Feb. 14, 1928.

O. S. T.
OLD SPANISH TRAIL

Particular description of goods.—Coffee.
Claims use since 1926.

Ser. No. 261,680. FLOYD A. PEMBERTON, Aberdeen, S. Dak. Filed Feb. 14, 1928.



Particular description of goods.—Hamburger Sandwiches.
Claims use since Aug. 25, 1927.

Ser. No. 262,099. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Filed Feb. 23, 1928.

CRESME

Particular description of goods.—Cakes and Cookies.
Claims use since Nov. 2, 1926.

Ser. No. 262,100. LOOSE-WILES BISCUIT COMPANY, Kansas City, Mo. Filed Feb. 23, 1928.

Coquet

Particular description of goods.—Cakes and Cookies.
Claims use since Aug. 17, 1927.

Ser. No. 262,109. MEYER & LANGE, INC., New York, N. Y. Filed Feb. 23, 1928.

O-LA-LA

Particular description of goods.—Wafers.
Claims use since 1927.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 259,064. J. W. JOHNSON COMPANY, Chicago, Ill. Filed Dec. 17, 1927.

Can-va-tex

Particular description of goods.—Tarpaulins, and Waterproof Wagon and Truck Covers, Not Parts of Vehicles.
Claims use since June 1, 1926.

Ser. No. 261,083. THE TABLET & TICKET CO., Chicago, Ill. Filed Feb. 2, 1928.



Particular description of goods.—Directory Boards.
Claims use since Oct. 1, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 3, 1928.

240,566. NATURAL-SLATE BLACKBOARDS AND SLATE BULLETIN BOARDS. BLUE RIDGE QUARRIES, INC., Slatington, Pa.
Filed November 2, 1926. Serial No. 239,571. PUBLISHED JANUARY 10, 1928. Class 50.

240,567. NAILS AND ANCHORS FOR USE WITH CONCRETE AND THE LIKE. WILLIAM O. ISAACSON, Chicago, Ill.
Filed November 11, 1926. Serial No. 239,935. PUBLISHED JANUARY 24, 1928. Class 13.

240,568. GRAPE JUICE. THE PLEASANT VALLEY WINE COMPANY, Rheims, N. Y.
Filed January 10, 1927. Serial No. 242,614. PUBLISHED JANUARY 24, 1928. Class 45.

240,569. OVERALLS, JUMPERS, PANTS, OVERALL SUITS, MEN'S SUITS; WORK AND PLAY COATS FOR MEN, WOMEN, AND CHILDREN (LINED AND UNLINED); VESTS, WORK SHIRTS, BLAZERS, AND FLANNEL SHIRTS. THE MACINTYRE-FISHBACK MFG. CO., Pueblo, Colo.
Filed February 10, 1927. Serial No. 244,166. PUBLISHED JANUARY 17, 1928. Class 39.

240,570. WOMEN'S AND CHILDREN'S UNDERWEAR MADE CHIEFLY OR WHOLLY OF SILK OR RAYON FABRIC. WINSHIP, BOIT & Co., Wakefield, Mass.
Filed June 9, 1926. Serial No. 232,980. PUBLISHED JANUARY 17, 1928. Class 39.

240,571. MEN'S AND BOYS' KNITTED UNION SUITS AND KNITTED SWEATERS. LEVI STRAUSS AND COMPANY, San Francisco, Calif.
Filed March 7, 1927. Serial No. 245,355. PUBLISHED DECEMBER 6, 1927. Class 39.

240,572. LADIES', MISSES', AND CHILDREN'S HATS. ALEXANDER RUBIN, San Francisco, Calif.
Filed March 18, 1927. Serial No. 246,000. PUBLISHED JANUARY 17, 1928. Class 39.

240,573. LIQUID-FILLED CHEWING CONFECTION. W. & F. MFG. CO., INC., Buffalo, N. Y.
Filed March 25, 1927. Serial No. 246,372. PUBLISHED JANUARY 24, 1928. Class 46.

240,574. CIGARS, CIGARETTES, AND SMOKING TOBACCO. CIFUENTES, PEGO Y COMPAÑIA, Habana, Cuba.
Filed March 30, 1927. Serial No. 246,594. PUBLISHED JANUARY 24, 1928. Class 17.

240,575. HOSIERY. JACOB DIAMOND, doing business as Diamond Mercantile Co., Cincinnati, Ohio.
Filed April 4, 1927. Serial No. 246,891. PUBLISHED JANUARY 17, 1928. Class 39.

240,576. BRASS AND MALLEABLE-METAL FAUCETS AND COCKS. DETROIT BRASS & MALLEABLE WORKS, Detroit, Mich.
Filed May 2, 1927. Serial No. 248,288. PUBLISHED JANUARY 24, 1928. Class 13.

240,577. SUITS, BLOOMERS, MIDDIES, AND KNICKERS FOR WOMEN AND CHILDREN MADE OF TEXTILE FABRIC. THE LAFAYETTE MANUFACTURING CO., Baltimore, Md.
Filed May 4, 1927. Serial No. 248,412. PUBLISHED JANUARY 17, 1928. Class 39.

240,578. CANNED VEGETABLES AND CANNED BERRIES. THE J. M. PAYER COMPANY, Chicago, Ill.
Filed May 11, 1927. Serial No. 248,859. PUBLISHED JANUARY 24, 1928. Class 46.

240,579. MILK AND CREAM CANS, BUCKETS, WATER PAILS, STRAINER PAILS, DINNER PAILS, GARBAGE PAILS, MILK COOLERS, GARBAGE AND ASH CANS, WATERING POTS AND CANS, AND VACUUM HEAT-INSULATED JUGS, ALL MADE OF SHEET METAL. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 20, 1927. Serial No. 249,259. PUBLISHED JANUARY 24, 1928. Class 2.

240,580. INCUBATORS, BROODERS, AND EGG-TURNING TRAYS. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 28, 1927. Serial No. 249,694. PUBLISHED JANUARY 10, 1928. Class 50.

240,581. CHAMOIS SKINS. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 28, 1927. Serial No. 249,695. PUBLISHED JANUARY 10, 1928. Class 1.

240,582. PLAQUES FORMED WITH FIGURES IN RELIEF. KIDDY KRAFT PLAK CO., Indianapolis, Ind.
Filed May 28, 1927. Serial No. 249,731. PUBLISHED JANUARY 3, 1928. Class 50.

240,583. RAW OR PARTLY PREPARED INDIA RUBBER, INDIA RUBBER, INDIA-RUBBER LATEX, AND GUTTA-PERCHA. SAFETY GLASS AND XETAL PRODUCTS, LIMITED, Stapleford, England.
Filed June 2, 1927. Serial No. 249,929. PUBLISHED JANUARY 17, 1928. Class 1.

240,584. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. HERBERT SHOE CO., Stoneham, Mass.
Filed November 23, 1927. Serial No. 257,981. PUBLISHED JANUARY 17, 1928. Class 39.

240,585. WHEAT FLOUR. LARABEE FLOUR MILLS COMPANY, doing business as Aetna Mills, Kansas City, Mo., and Wellington, Kans.
Filed December 12, 1927. Serial No. 258,817. PUBLISHED JANUARY 24, 1928. Class 46.

240,586. CANDY. JOHN O. GILBERT CHOCOLATE COMPANY, Jackson, Mich.
Filed December 10, 1927. Serial No. 258,742. PUBLISHED JANUARY 24, 1928. Class 46.

240,587. OLEOMARGARINE. MCCANN & CO., INC., Pittsburgh, Pa.
Filed December 8, 1927. Serial No. 258,642. PUBLISHED JANUARY 24, 1928. Class 46.

240,588. FRESH CITRUS FRUITS—NAMELY, ORANGES AND LEMONS. OXNARD CITRUS ASSOCIATION, Hueneme and Camarillo, Calif.
Filed December 6, 1927. Serial No. 258,538. PUBLISHED JANUARY 24, 1928. Class 46.

240,589. PYROPHORIC POCKET CIGAR LIGHTERS. HENRY LEDERER & BRO. INC., Providence, R. I.
Filed December 5, 1927. Serial No. 258,474. PUBLISHED JANUARY 24, 1928. Class 34.

240,590. SLIDES AND WHEELS FOR FURNITURE CASTERS. THE BASSICK COMPANY, Bridgeport, Conn.
Filed December 5, 1927. Serial No. 258,448. PUBLISHED JANUARY 24, 1928. Class 13.

240,591. CEREAL BREAKFAST FOODS. REID, MURDOCH & Co., Chicago, Ill.
Filed December 3, 1927. Serial No. 258,428. PUBLISHED JANUARY 24, 1928. Class 46.

240,592. DOUBLE-FAUCET SOAP DISHES. UTILITY MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed December 2, 1927. Serial No. 258,369. PUBLISHED JANUARY 24, 1928. Class 13.

240,593. SPONGE BASKETS, COMBINATION SPONGE BASKETS AND SOAP TRAYS, SOAP DISHES, TOOTHBRUSH AND TOOTH-PASTE HOLDERS, TUMBLER HOLDERS, AND TOILET-PAPER HOLDERS. UTILITY MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed December 2, 1927. Serial No. 258,368. PUBLISHED JANUARY 24, 1928. Class 13.

240,594. BATHROOM FIXTURES—NAMELY, SOAP DISHES, SPONGE BASKETS, TOILET-PAPER HOLDERS, TUMBLER HOLDERS, TOWEL BARS, TOOTHBRUSH HOLDERS, TOOTH-PASTE HOLDERS, SHAVING-BRUSH HOLDERS AND SHAVING-CREAM HOLDERS. UTILITY MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed December 2, 1927. Serial No. 258,367. PUBLISHED JANUARY 24, 1928. Class 13.

240,595. DISH DRAINERS. UTILITY MANUFACTURING COMPANY INC., Baltimore, Md.
Filed December 2, 1927. Serial No. 258,366. PUBLISHED JANUARY 24, 1928. Class 13.

240,596. CLOTHESPINS. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed December 1, 1927. Serial No. 258,297. PUBLISHED JANUARY 24, 1928. Class 24.

240,597. SEPTIC TANKS. STANDARD SCHOOL COMPANY, St. Louis, Mich., and Louisville, Ky.
Filed November 25, 1927. Serial No. 258,047. PUBLISHED JANUARY 24, 1928. Class 13.

240,598. LADIES' AND MISSES' DRESSES. OPPENHEIM, COLLINS & CO., INC., New York, N. Y., and Cleveland, Ohio.
Filed November 25, 1927. Serial No. 258,036. PUBLISHED JANUARY 17, 1928. Class 39.

240,599. MEN'S AND CHILDREN'S UNION ATHLETIC TEXTILE FABRIC UNDERWEAR. AMERICAN UNDERWEAR MANUFACTURING CO. INC., Allentown, Pa.
Filed November 25, 1927. Serial No. 258,013. PUBLISHED JANUARY 17, 1928. Class 39.

240,600. HOSIERY. READING FULL FASHIONED HOSIERY MILLS, INC., Reading, Pa.
Filed December 1, 1927. Serial No. 258,290. PUBLISHED JANUARY 17, 1928. Class 39.

240,601. CLOTHING FOR MEN, YOUTHS, AND BOYS—NAMELY, OVERCOATS, TOPCOATS, SUITS, COATS, TROUSERS, AND VESTS. CHARLES SOLOMON, doing business as Charles Clothes, New York, N. Y.
Filed November 29, 1927. Serial No. 258,196. PUBLISHED JANUARY 17, 1928. Class 39.

240,602. WOMEN'S AND MISSES' COATS AND SUITS. GAMSON & COMPANY, Philadelphia, Pa.
Filed December 3, 1927. Serial No. 258,411. PUBLISHED JANUARY 17, 1928. Class 39.

240,603. MEN'S KNITTED UNDERWEAR. VAN DYKE KNITTING COMPANY, Milwaukee, Wis.
Filed December 2, 1927. Serial No. 258,370. PUBLISHED JANUARY 17, 1928. Class 39.

240,604. CERTAIN NAMED CONSTRUCTION MATERIALS. ASPHALT PRODUCTS COMPANY, Chicago, Ill.
Filed June 10, 1927. Serial No. 250,290. PUBLISHED JANUARY 17, 1928. Class 12.

240,605. PLASTER. GRAND RAPIDS PLASTER COMPANY, Grand Rapids, Mich.
Filed June 10, 1927. Serial No. 250,839. PUBLISHED JANUARY 17, 1928. Class 12.

240,606. LADIES' COATS. THE KELLER-KOHN COMPANY, Cleveland, Ohio.
Filed June 15, 1927. Serial No. 250,549. PUBLISHED JANUARY 17, 1928. Class 39.

240,607. MISSES' COATS. THE KELLER-KOHN COMPANY, Cleveland, Ohio.
Filed June 15, 1927. Serial No. 250,550. PUBLISHED JANUARY 17, 1928. Class 39.

240,608. ARTIFICIAL FLOWERS, TABLE PAD, FIGURINES, AND DRESDEN SETS, NAMELY, STATUES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 6, 1927. Serial No. 251,582. PUBLISHED JANUARY 3, 1928. Class 50.

240,609. PRODUCTS OF THE COAL MINES AND COKE OVENS. WHITE BROTHERS, Scotts, Mich.
Filed February 7, 1927. Serial No. 251,640. PUBLISHED JANUARY 3, 1928. Class 1.

240,610. LEATHER SHOES. FRANK G. DELBON, Brooklyn, N. Y.
Filed July 9, 1927. Serial No. 251,721. PUBLISHED JANUARY 17, 1928. Class 39.

240,611. BUTTER. THE JOBBING ASSOCIATION—FARMERS EDUCATIONAL AND COOPERATIVE UNION OF AMERICA—KANSAS BRANCH, Kansas City, Mo.
Filed July 14, 1927. Serial No. 252,046. PUBLISHED JANUARY 24, 1928. Class 46.

240,612. CERTAIN NAMED CONSTRUCTION MATERIALS. C. E. RAMSDEN, doing business as C. E. Ramsden & Company, Fenton, England.
Filed July 18, 1927. Serial No. 252,237. PUBLISHED JANUARY 3, 1928. Class 12.

240,613. LINIMENT FOR THE TREATMENT OF INFLUENZA, FEVER, ACHES OR PAINS, RHEUMATISM, NEURALGIA, NEURITIS, CHILLS, ASTHMA, HEADACHE, CATARRH, ITCHING RHEUMATISM, NEW OR OLD COLDS, PLEURISY, LUMBAGO, AND STIFFENING OF THE JOINTS. SPEED-O LINIMENT CO., INC., New York, N. Y.
Filed June 10, 1927. Serial No. 252,362. PUBLISHED DECEMBER 6, 1927. Class 6.

240,614. LADIES' STREET COATS AND SPORT COATS, LADIES' FELT AND STRAW HATS, LADIES' SUITS FOR STREET WEAR AND SPORT WEAR, LADIES' AND MISSES' HOUSE DRESSES AND EVENING GOWNS. HARRY B. DRYZER, doing business as H. B. Dryzer & Company, Knoxville, Tenn.
Filed July 29, 1927. Serial No. 252,694. PUBLISHED JANUARY 17, 1928. Class 39.

240,615. RUBBER PATCH FOR AUTOMOBILE TIRE TUBES AND OTHER RUBBER SURFACES. DIXIE MANUFACTURING CO., INC., Jackson, Miss.
Filed September 19, 1925. Serial No. 220,451. PUBLISHED JANUARY 24, 1928. Class 35.

240,616. HAM, SLICED HAM, RYE BREAD, AND CORNED BEEF SOLD IN BULK. WITT'S MARKET HOUSE, Minneapolis, Minn.
Filed January 18, 1926. Serial No. 226,088. PUBLISHED NOVEMBER 29, 1927. Class 46.

240,617. CHEMICAL-SOLUTION ADMIXTURES TO BE USED WITH PORTLAND CEMENT TO HASTEN SETTING AND EARLY STRENGTH IN CONCRETE, MORTAR, OR GROUT. THREE-M MANUFACTURING COMPANY, Kansas City, Mo.
Filed October 16, 1926. Serial No. 238,753. PUBLISHED JANUARY 24, 1928. Class 6.

240,618. TONIC AND SYSTEM PURIFIER FOR BLOOD DISEASES AND STOMACH AND LIVER DIFFICULTIES. EDWARD P. READ, doing business as The T. B. Donaldson Medicine Mfg. Company, Philadelphia, Pa.
Filed October 22, 1926. Serial No. 239,062. PUBLISHED JANUARY 24, 1928. Class 6.

240,619. CERTAIN NAMED CONSTRUCTION MATERIALS. STANDARD PLASTERING SYSTEMS, INC., Detroit, Mich.
Filed October 25, 1926. Serial No. 239,204. PUBLISHED JANUARY 10, 1928. Class 12.

240,620. FACE POWDER. ISABEY-PARIS-INC., New York, N. Y.
Filed October 27, 1927. Serial No. 256,647. PUBLISHED JANUARY 24, 1928. Class 6.

240,621. OLEOMARGARINE. ST. LOUIS INDEPENDENT PACKING COMPANY, doing business as Missouri Butterine Co., St. Louis, Mo.
Filed December 12, 1927. Serial No. 258,831. PUBLISHED JANUARY 24, 1928. Class 46.

240,622. WHEAT MIDDLINGS. MONROE MILLING COMPANY, Waterloo, Ill.
Filed December 12, 1927. Serial No. 258,824. PUBLISHED JANUARY 24, 1928. Class 46.

240,623. HAIR OIL. HENRY BAUER, St. Louis, Mo.
Filed December 12, 1927. Serial No. 258,792. PUBLISHED JANUARY 24, 1928. Class 6.

240,624. ANTISEPTIC MOUTH WASH. BATON ROUGE DENTAL CHEMICAL CO., Baton Rouge, La.
Filed December 12, 1927. Serial No. 258,791. PUBLISHED JANUARY 24, 1928. Class 6.

240,625. LIQUID INSECTICIDE AND CLEANER. WILLIAM E. NEWLIN, doing business as Newlin's Chemical Laboratory, Chicago, Ill.
Filed December 10, 1927. Serial No. 258,765. PUBLISHED JANUARY 24, 1928. Class 6.

240,626. CHEWING GUM. L. P. LARSON JR. COMPANY, Chicago, Ill.
Filed December 10, 1927. Serial No. 258,753. PUBLISHED JANUARY 24, 1928. Class 46.

240,627. TRUNKS, TRAVELING BAGS, BOSTON AND CABIN BAGS, WEEK-END CASES, FITTED CASES, HATBOXES, BRIEF CASES, PORTFOLIOS, LADIES' HAND BAGS, BILL FOLDS. MEN'S TRAVELING SETS, KEY CASES, OVERNIGHT BAGS, LADIES' POCKETBOOKS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed December 7, 1927. Serial No. 258,590. PUBLISHED JANUARY 24, 1928. Class 3.

240,628. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. THE MUNROE SHOE COMPANY, INC., Auburn, Me.
Filed December 7, 1927. Serial No. 258,584. PUBLISHED JANUARY 17, 1928. Class 39.

240,629. PLAIN AND SELF-RISING FLOUR. J. ALLEN SMITH & COMPANY, Knoxville, Tenn.
Filed December 1, 1927. Serial No. 258,300. PUBLISHED JANUARY 24, 1928. Class 46.

240,630. ANTISEPTIC MOUTH WASH AND DENTAL LOTION FOR USE IN TREATING MOUTH LESIONS. SOLOMON L. QUITT, doing business as Oradento Chemical Company, Greenwich, Conn.
Filed December 1, 1927. Serial No. 258,289. PUBLISHED JANUARY 24, 1928. Class 6.

240,631. MEN'S AND BOYS' CAPS MADE OF KNITTED AND TEXTILE FABRICS OF COTTON, WOOL, LINEN, AND SILK AND OF LEATHER AND ANIMAL SKINS. ELY & WALKER DRY GOODS CO., St. Louis, Mo.
Filed November 29, 1927. Serial No. 258,171. PUBLISHED JANUARY 17, 1928. Class 39.

240,632. ORANGE MARMALADE. RUTH S. FORD, doing business as Ford's Service Bureau, New London, Conn.
Filed November 26, 1927. Serial No. 258,075. PUBLISHED JANUARY 24, 1928. Class 46.

240,633. RUBBER HEELS, RUBBER TAPS, AND RUBBER SOLES. TAUNTON RUBBER COMPANY, Taunton, Mass.
Filed November 25, 1927. Serial No. 258,048. PUBLISHED JANUARY 17, 1928. Class 39.

240,634. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. HARRY M. HUSK COMPANY, Newburyport, Mass.
Filed November 25, 1927. Serial No. 258,027. PUBLISHED JANUARY 17, 1928. Class 39.

240,635. MEN'S AND BOYS' CAPS. FIT ALL CAP CO., INC., New York, N. Y.
Filed November 25, 1927. Serial No. 258,021. PUBLISHED JANUARY 17, 1928. Class 39.

240,636. LIME. BREWER & COMPANY INC., Worcester, Mass.
Filed November 3, 1927. Serial No. 256,998. PUBLISHED JANUARY 3, 1928. Class 12.

240,637. BITUMINOUS MATERIAL FOR USE IN THE CURING OF CONCRETE. THE BARBER ASPHALT COMPANY, Philadelphia, Pa.
Filed November 3, 1927. Serial No. 256,992. PUBLISHED JANUARY 3, 1928. Class 12.

240,638. LEATHER GLOVES. DAVID & BLUM, INC., New York, N. Y.
Filed November 2, 1927. Serial No. 256,915. PUBLISHED JANUARY 17, 1928. Class 39.

240,639. CRUDE RUBBER AND RUBBER CREPE. CHARLES E. WOOD, INCORPORATED, New York, N. Y.
Filed November 1, 1927. Serial No. 256,893. PUBLISHED JANUARY 17, 1928. Class 1.

240,640. LEATHER SHOE SOLES, BOTH WATERPROOF AND NONWATERPROOF. KLEIN'S RAPID SHOE REPAIR CO. INC., New York, N. Y.
Filed November 1, 1927. Serial No. 256,875. PUBLISHED JANUARY 17, 1928. Class 39.

240,641. HOSIERY; UNDERWEAR OF KNITTED OR TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN; DRESSES AND SKIRTS FOR WOMEN, MISSES, AND CHILDREN, AND SWEATERS. MAY HOSIERY MILLS INC., Burlington, N. C.
Filed October 31, 1927. Serial No. 256,827. PUBLISHED JANUARY 17, 1928. Class 39.

240,642. WARM-AIR HEATING, FORCE CIRCULATING, AND VENTILATING SYSTEMS AS A COMPLETE UNIT OR PARTS THEREOF EQUIPPED FOR COAL, GAS, OR OIL HEAT GENERATORS. P. H. MAGIRL FOUNDRY & FURNACE WORKS, Bloomington, Ill.
Filed October 29, 1927. Serial No. 256,785. PUBLISHED JANUARY 24, 1928. Class 34.

240,643. MECHANICAL BEATER FOR WHIPPING EGGS, CREAM, BATTERS, SALAD DRESSINGS, AND LIKE FOODS. HENDERSON CORPORATION, Seattle, Wash.
Filed October 28, 1927. Serial No. 256,724. PUBLISHED JANUARY 24, 1928. Class 23.

240,644. TREATED FABRICS FOR PROTECTIVE COVERINGS. EASTERN FINISHING WORKS, Kenyon, R. I.
Filed October 28, 1927. Serial No. 256,719. PUBLISHED JANUARY 3, 1928. Class 50.

240,645. WOODEN SHINGLES. BLUE RIBBON PRODUCTS CO., Kalama, Wash.
Filed October 28, 1927. Serial No. 256,711. PUBLISHED JANUARY 10, 1928. Class 12.

240,646. COATS AND DRESSES FOR WOMEN AND MISSES. BEN GINSBURG CO., INC., New York, N. Y.
Filed October 27, 1927. Serial No. 256,669. PUBLISHED JANUARY 17, 1928. Class 39.

240,647. PERFUMES AND TOILET WATER. ISABEY-PARIS-INC., New York, N. Y.
Filed October 27, 1927. Serial No. 256,648. PUBLISHED JANUARY 24, 1928. Class 6.

240,648. HAIRDRESSING. MORRIS NECHTOW, doing business as Slick-O Mfg. Co., Los Angeles, Calif.
Filed October 26, 1927. Serial No. 256,635. PUBLISHED JANUARY 24, 1928. Class 6.

240,649. ADHESIVE GUMS, SIZINGS, PASTES, CEMENTS, AND GLUES IN POWDERED AND PASTE FORM. BORDEN & REMINGTON CO., Fall River, Mass.
Filed October 21, 1927. Serial No. 256,392. PUBLISHED JANUARY 24, 1928. Class 5.

240,650. GINGER ALE. MANUEL F. GONSALVES, doing business as Pomery Club Sales Co., New York, N. Y.
Filed October 20, 1927. Serial No. 256,341. PUBLISHED JANUARY 24, 1928. Class 45.

240,651. ANTISEPTIC TABLETS FOR LEUCORRHEA. TEMMLER-WERKE VEREINIGTE CHEMISCHE FABRIKEN HERMANN TEMMLER, Berlin-Johannisthal, Germany.
Filed October 19, 1927. Serial No. 256,314. PUBLISHED JANUARY 24, 1928. Class 6.

240,652. CERTAIN NAMED RUBBER LATEX. WARREN MACPHERSON, Cambridge, Mass.
Filed October 18, 1927. Serial No. 256,258. PUBLISHED JANUARY 10, 1928. Class 1.

240,653. LEATHER GLOVES. DAVID & BLUM, INC., New York, N. Y.
Filed October 15, 1927. Serial No. 256,101. PUBLISHED JANUARY 17, 1928. Class 39.

240,654. FISH MEAL FOR DOG FEEDING. CHARLES M. STRUVEN, doing business as Charles M. Struven & Company, Baltimore, Md.
Filed October 12, 1927. Serial No. 256,020. PUBLISHED JANUARY 24, 1928. Class 46.

240,655. CLEANER AND POLISH FOR VARNISHED AND LACQUERED SURFACES. LEO. SCHMIDT, doing business as Sun-Burst Liquid Gloss Co., Fairfield, Iowa.
Filed November 3, 1927. Serial No. 257,035. PUBLISHED JANUARY 17, 1928. Class 16.

240,656. CERTAIN NAMED CONSTRUCTION MATERIALS. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed November 3, 1927. Serial No. 257,003. PUBLISHED JANUARY 3, 1928. Class 12.

240,657. WRAPPING PAPER, TISSUE PAPER, PAPER TOWELS, TOILET PAPER, WATERPROOF PAPER, PARCHMENT AND GLASSINE PAPER, WAXED PAPER, CORRESPONDENCE ENVELOPES, BLOTTING PAPER, PAPER SEALING TAPE, AND CORRUGATED PAPER. HERBERT J. GREY, doing business as The H. J. Grey Company, New York, N. Y.
Filed November 28, 1927. Serial No. 258,119. PUBLISHED JANUARY 10, 1928. Class 37.

240,658. NUT-CANDY BARS. HUBERT B. GRINER, doing business as International Pe-Can-Dy Company, Albany, Ga.
Filed November 23, 1927. Serial No. 257,979. PUBLISHED JANUARY 24, 1928. Class 46.

240,659. HYDROEXTRACTORS FOR USE IN LAUNDRIES AND OTHER ARTS WHEREIN IT IS DESIRED TO EXTRACT MOISTURE FROM THE ARTICLE TREATED. FLETCHER WORKS, Philadelphia, Pa.
Filed November 23, 1927. Serial No. 257,975. PUBLISHED JANUARY 24, 1928. Class 24.

240,660. SINK-TRAP-CLEANING COMPOUND. DAVID A. BERGER, doing business as Ashton Chemical Company, Cleveland, Ohio.
Filed November 23, 1927. Serial No. 257,958. PUBLISHED JANUARY 24, 1928. Class 6.

240,661. CIGARS AND ALL-TOBACCO CIGARETTES. R. J. SEIDENBERG CO., Buffalo, N. Y.
Filed November 22, 1927. Serial No. 257,940. PUBLISHED JANUARY 24, 1928. Class 17.

240,662. AUTOMOBILE AND FURNITURE POLISH. RECKITT & SONS, LIMITED, Hull, England.
Filed November 22, 1927. Serial No. 257,938. PUBLISHED JANUARY 17, 1928. Class 16.

240,663. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. ALEXANDER L. ANDERSON, doing business as Anderson Beverage Co., Buffalo, N. Y.
Filed November 22, 1927. Serial No. 257,912. PUBLISHED JANUARY 24, 1928. Class 45.

240,664. CIRCULATING PUMPS. JANETTE MANUFACTURING COMPANY, Chicago, Ill.
Filed November 21, 1927. Serial No. 257,874. PUBLISHED JANUARY 24, 1928. Class 23.

240,665. CANNED FISH. WM. H. STANLEY, INC., New York, N. Y.
Filed November 19, 1927. Serial No. 257,820. PUBLISHED JANUARY 24, 1928. Class 46.

240,666. MISSES' AND WOMEN'S COATS, SUITS, AND DRESSES. KENMORE SPORTSWEAR, INC., New York, N. Y.
Filed November 19, 1927. Serial No. 257,801. PUBLISHED JANUARY 17, 1928. Class 39.

240,667. SMOKING TOBACCO, CHEWING TOBACCO, CIGARS, CIGARETTES, CHEROOTS, AND SNUFF. ALBERT FREEMAN, New York, N. Y.
Filed November 18, 1927. Serial No. 257,733. PUBLISHED JANUARY 24, 1928. Class 17.

240,668. SMOKING TOBACCO, CIGARS, CIGARETTES, CHEWING TOBACCO, CHEROOTS, AND SNUFF. ALBERT FREEMAN, New York, N. Y.
Filed November 18, 1927. Serial No. 257,732. PUBLISHED JANUARY 24, 1928. Class 17.

240,669. RADIOCABINETS, LOUD-SPEAKER CABINETS, PHONOGRAPH CABINETS, STANDS AND TABLES FOR HOUSE OR OFFICE USE. SPLITDORF RADIO CORPORATION, Newark, N. J.
Filed November 17, 1927. Serial No. 257,711. PUBLISHED JANUARY 24, 1928. Class 32.

240,670. WHEAT FLOUR. THE SECURITY FLOUR MILLS COMPANY, Abilene, Kans.
Filed November 17, 1927. Serial No. 257,707. PUBLISHED JANUARY 24, 1928. Class 46.

240,671. BRICK—NAMELY, FIRE BRICK. PACIFIC CLAY PRODUCTS, Los Angeles, Calif.
Filed November 17, 1927. Serial No. 257,697. PUBLISHED JANUARY 17, 1928. Class 12.

240,672. WAISTCOATS. GEORGE W. HELLER, INC., New York, N. Y.
Filed November 16, 1927. Serial No. 257,626. PUBLISHED JANUARY 17, 1928. Class 39.

240,673. SMOKERS' STANDS ON PEDESTALS. THE TUBULAR PRODUCTS COMPANY, Southington, Conn.
Filed November 15, 1927. Serial No. 257,608. PUBLISHED JANUARY 24, 1928. Class 32.

240,674. A HEATING STOVE USING SOLID FUEL. HARDWICK STOVE COMPANY, Cleveland, Tenn.
Filed November 15, 1927. Serial No. 257,579. PUBLISHED JANUARY 24, 1928. Class 34.

240,675. APPARATUS FOR MAKING STEREOTYPE PRINTING PLATES. WOOD NEWSPAPER MACHINERY CORPORATION, New York, N. Y.
Filed November 12, 1927. Serial No. 257,497. PUBLISHED JANUARY 24, 1928. Class 23.

240,676. COAL. GREAT VALLEY ANTHRACITE CORPORATION, East Radford, Va.
Filed November 12, 1927. Serial No. 257,476. PUBLISHED JANUARY 10, 1928. Class 1.

240,677. A MEDICINAL PREPARATION RECOMMENDED PARTICULARLY AS A HEART STIMULANT. P. BEIERSDORF & CO. INC., New York, N. Y.
Filed November 12, 1927. Serial No. 257,464. PUBLISHED JANUARY 24, 1928. Class 6.

240,678. SHOES FOR CHILDREN AND INFANTS MADE OF LEATHER, FABRIC, AND CLOTH AND COMBINATIONS OF THESE MATERIALS, AND OVERSHOES. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed October 12, 1927. Serial No. 256,006. PUBLISHED JANUARY 17, 1928. Class 39.

240,679. WOMEN'S AND CHILDREN'S SHOES, SLIPPERS, MULES, AND PUMPS OF LEATHER, FABRIC, RUBBER, AND CLOTH AND COMBINATIONS OF THE MATERIALS; GAITERS AND OVERSHOES. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed October 12, 1927. Serial No. 256,005. PUBLISHED JANUARY 17, 1928. Class 39.

240,680. CRUSHERS, SHREDDERS, BREAKERS, PULVERIZERS, AND GRINDERS. GRUENDLER PATENT CRUSHER AND PULVERIZER COMPANY, St. Louis, Mo.
Filed October 12, 1927. Serial No. 255,986. PUBLISHED JANUARY 24, 1928. Class 23.

240,681. CERTAIN NAMED RAW OR PARTLY PREPARED COMPOSITIONS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed October 12, 1927. Serial No. 255,961. PUBLISHED JANUARY 17, 1928. Class 1.

240,682. HAIRDRESSING. JACOB F. KATZ, New York, N. Y.
Filed October 10, 1927. Serial No. 255,851. PUBLISHED JANUARY 24, 1928. Class 6.

240,683. BRAKEMAN'S CLUBS, RAMMER RODS, AND HANDLES FOR AXES, HATCHETS, ADZES, PICKS, GRUBBING HOES, HAMMERS, SLEDGES, TAMPERS, HEDGE KNIVES, SLASHERS, BUSH HOOKS, PICKAROONS, CHISELS, CANT HOOKS, PEAVEYS, AND LUG HOOKS. HARTWELL BROTHERS, Hollywood and Memphis, Tenn., Chicago Heights, Ill., and New York, N. Y.
Filed October 10, 1927. Serial No. 255,849. PUBLISHED JANUARY 24, 1928. Class 23.

240,684. METAL COVERS OR HEADS FOR FASTENERS SUCH AS SCREWS, BOLTS, NUTS, AND THE LIKE. JOSEPH BERGE, doing business as Crowner Company, New York, N. Y.
Filed September 30, 1927. Serial No. 255,431. PUBLISHED JANUARY 24, 1928. Class 13.

240,685. TIMBER, LOGS. OTIS, MCALLISTER & CO., San Francisco, Calif.
Filed September 29, 1927. Serial No. 255,396. PUBLISHED JANUARY 3, 1928. Class 1.

240,686. NONFERROUS-METAL PIPE, PIPE FITTINGS, BOLTS, NUTS, SCREWS, NOZZLES, BALL SEATS, GLANDS, WASHERS, PINS, RIVETS, RINGS, STUDS, JETS, SPINDLES, COLLARS, VALVES, AND VALVE PARTS. MUELLER BRASS CO., Port Huron, Mich.
Filed September 29, 1927. Serial No. 255,393. PUBLISHED JANUARY 24, 1928. Class 13.

240,687. ASPHALT SHINGLES. FORD ROOFING PRODUCTS COMPANY, Chicago, Ill.
Filed September 29, 1927. Serial No. 255,376. PUBLISHED JANUARY 17, 1928. Class 12.

240,688. FURNITURE. FORT SMITH FURNITURE MANUFACTURERS' COMPANY, Fort Smith, Ark.
Filed September 26, 1927. Serial No. 255,239. PUBLISHED JANUARY 24, 1928. Class 32.

240,689. CIGARS. THOMAS E. BROOKS & COMPANY, Red Lion, Pa.
Filed September 26, 1927. Serial No. 255,226. PUBLISHED JANUARY 24, 1928. Class 17.

240,690. CINDER CONCRETE BUILDING BLOCKS, BRICKS, AND TILES. NATIONAL BUILDING UNITS CORPORATION, Philadelphia, Pa.
Filed September 24, 1927. Serial No. 255,193. PUBLISHED JANUARY 10, 1928. Class 12.

240,691. POCKETS IN CLOTHING. PAUL SCHERTL, Hoboken, N. J.
Filed September 14, 1927. Serial No. 254,727. PUBLISHED JANUARY 17, 1928. Class 39.

240,692. RUBBER CAPS AND HATS, BATHING CAPS, HOUSEHOLD APRONS, AND BABY PANTS. JACOB STEIN, doing business as Climax Rubber Company, New York and Brooklyn, N. Y.
Filed September 13, 1927. Serial No. 254,687. PUBLISHED JANUARY 17, 1928. Class 39.

240,693. PHOTOGRAPH APPARATUS OR MACHINES COMPRISING BOOTHS OR CABINETS AND CAMERAS. PONOGRAPH, INC., Philadelphia, Pa.
Filed September 8, 1927. Serial No. 254,510. PUBLISHED JANUARY 24, 1928. Class 26.

240,694. CANNED VEGETABLES—NAMELY, CORN, BEANS, TOMATOES, PEAS; CANNED FRUITS—NAMELY, PEARS; CANNED BERRIES—NAMELY, STRAWBERRIES. THE J. M. PAVER COMPANY, Chicago, Ill.
Filed September 6, 1927. Serial No. 254,421. PUBLISHED JANUARY 17, 1928. Class 46.

240,695. EMERGENCY FUEL CANS. MACOMB MANUFACTURING COMPANY, Macomb, Ill.
Filed August 24, 1927. Serial No. 253,904. PUBLISHED DECEMBER 6, 1927. Class 2.

240,696. CERTAIN NAMED CONSTRUCTION MATERIALS. THE LOGAN CLAY PRODUCTS CO., Logan, Ohio.
Filed August 22, 1927. Serial No. 253,811. PUBLISHED JANUARY 3, 1928. Class 12.

240,697. BUILDING BRICKS. THE FINZER BROTHERS CLAY COMPANY, Sugar Creek, Ohio.
Filed August 9, 1927. Serial No. 253,235. PUBLISHED JANUARY 10, 1928. Class 12.

240,698. WOOD CABINETS FOR STORING CLOTHING AND HOUSEHOLD GOODS. AGUILAR, New York, N. Y.
Filed November 12, 1927. Serial No. 257,462. PUBLISHED JANUARY 24, 1928. Class 32.

240,699. CERTAIN NAMED LEATHER. VAN TASSEL COMPANY, Boston, Mass.
Filed November 11, 1927. Serial No. 257,459. PUBLISHED JANUARY 17, 1928. Class 1.

240,700. CANNED FRUITS PACKED IN WINE SYRUP, IN SUGAR SYRUP, AND IN WATER. CALIFORNIA CANNERIES COMPANY, San Francisco, Calif.
Filed November 11, 1927. Serial No. 257,401. PUBLISHED JANUARY 24, 1928. Class 46.

240,701. CANNED FRUITS PACKED IN WINE SYRUP, IN SUGAR SYRUP, AND IN WATER. CALIFORNIA CANNERIES COMPANY, San Frnacisco, Calif.
Filed November 11, 1927. Serial No. 257,400. PUBLISHED JANUARY 24, 1928. Class 46.

240,702. KNICKERBOCKERS, TROUSERS, AND SKIRTS. STADLER & STADLER, New York, N. Y.
Filed November 10, 1927. Serial No. 257,389. PUBLISHED JANUARY 17, 1928. Class 39.

240,703. SLED PROPULSION ATTACHMENTS FOR AUTOMOBILES. THE SNOW FLYER CORPORATION, New Holstein, Wis.
Filed November 10, 1927. Serial No. 257,387. PUBLISHED JANUARY 24, 1928. Class 19.

240,704. FLYCATCHERS. JULIUS SCHMID, INC., New York, N. Y.
Filed November 10, 1927. Serial No. 257,362. PUBLISHED JANUARY 10, 1928. Class 50.

240,705. COFFEE. ZANDER & COMPANY, INC., New Orleans, La.
Filed November 9, 1927. Serial No. 257,330. PUBLISHED JANUARY 24, 1928. Class 46.

240,706. FRESH CITRUS FRUITS. ROCKY HILL CORPORATION, Exeter, Calif.
Filed November 9, 1927. Serial No. 257,314. PUBLISHED JANUARY 24, 1928. Class 46.

240,707. WEATHER STRIPS FOR DOORS. CHAMBERLIN METAL WEATHER STRIP COMPANY, Detroit, Mich.
Filed November 9, 1927. Serial No. 257,278. PUBLISHED JANUARY 10, 1928. Class 12.

240,708. WEATHER STRIPS FOR DOORS. CHAMBERLIN METAL WEATHER STRIP COMPANY, Detroit, Mich.
Filed November 9, 1927. Serial No. 257,277. PUBLISHED JANUARY 10, 1928. Class 12.

240,709. PICKLES. FANNING BREAD AND BUTTER PICKLE COMPANY, INC., New York, N. Y., and Streator, Ill.
Filed November 8, 1927. Serial No. 257,264. PUBLISHED JANUARY 24, 1928. Class 46.

240,710. MEN'S RAINCOATS. CHARLES H. PLACE, New Rochelle, N. Y.
Filed November 7, 1927. Serial No. 257,194. PUBLISHED JANUARY 17, 1928. Class 39.

240,711. FIRE BRICK AND FIRE-CLAY TILE. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed November 7, 1927. Serial No. 257,152. PUBLISHED JANUARY 10, 1928. Class 12.

240,712. FIRE BRICK AND FIRE-CLAY TILE. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed November 7, 1927. Serial No. 257,151. PUBLISHED JANUARY 3, 1928. Class 12.

240,713. PLASTER WEATHERPROOF COATING FOR INSULATION. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed November 5, 1927. Serial No. 257,101. PUBLISHED JANUARY 10, 1928. Class 12.

240,714. CHAMPAGNE WINE. SOCIETE VINICOLE DE CHAMPAGNE, Paris, France.
Filed November 4, 1927. Serial No. 257,084. PUBLISHED JANUARY 24, 1928. Class 47.

240,715. WALNUTS IN THEIR NATURAL STATE. LOUIS GROOBMAN, doing business as Whittier Walnut Packing House Co., Whittier, Calif.
Filed November 4, 1927. Serial No. 257,062. PUBLISHED JANUARY 24, 1928. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

240,716. (CLASS 39. CLOTHING.) L & M SYSTEM CLOTHES, INC., New York, N. Y. Filed Dec. 7, 1925. Serial No. 224,340.

IVORYSTRIPE

Particular description of goods.—Men's Suits.
Claims use since about Nov. 9, 1925.

240,717. (CLASS 39. CLOTHING.) STERLING STOCKING CO., Mount Sterling, Ohio. Filed Feb. 7, 1927. Serial No. 243,980.

Sterling Sanitary Stump Stocking
The World's Softest Stump Stocking

Particular description of goods.—Stump Stockings and Stump Socks.
Claims use since on or about Dec. 1, 1926.

240,718. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE LEO MEYER COMPANY, Akron, Ohio. Filed Mar. 1, 1927. Serial No. 245,060.

SAVE-A-TIRE

Particular description of goods.—Gum-Coated Cord Patches, Pulled Skived Cord Patches, Reliners, Lace-On Boots, Blow-Out Patches, Red Cemented Plaster Patches, and Automobile Tire-Tube Repair Kits.
Claims use since Feb. 16, 1927.

240,719. (CLASS 39. CLOTHING.) HAIRTITE BARBER APRON CO., Tampa, Fla. Filed Mar. 29, 1927. Serial No. 246,548.

HAIRTITE

Particular description of goods.—Barber's Hair Cloth and Apron.
Claims use since Feb. 1, 1927.

240,720. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Apr. 4, 1927. Serial No. 240,912.

Kroger's

Particular description of goods.—Malt Syrup for Food Purposes.
Claims use since Feb. 12, 1927.

240,721. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) B. C. DUDLEY COAL COMPANY, Indianapolis, Ind. Filed Apr. 15, 1927. Serial No. 247,466.

CLEAN HEAT

Particular description of goods.—Coal.
Claims use since Feb. 11, 1927.

240,722. (CLASS 5. ADHESIVES.) SWIFT AND COMPANY, Chicago, Ill. Filed May 5, 1927. Serial No. 248,531.

SAMPSON

Particular description of goods.—Glue.
Claims use since Feb. 14, 1927.

240,723. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEES TEXTILE CO., INC., Lowell, Mass. Filed Aug. 26, 1927. Serial No. 254,000.

TYWELL

Particular description of goods.—Tinsel Ribbons and Ribbonzene in the Piece or Bolt.
Claims use since Nov. 1, 1923.

240,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. THE W. W. TRAVIS COMPANY, Bloomington, Ill. Filed Nov. 28, 1927. Serial No. 258,151.

TRAVIS'

Particular description of goods.—Preparations for the Treatment of Diarrhea, Colic, Colds, Sore Throat, Tonsilitis, Sprains, Bruises, Burns, Swellings, Backache, Rheumatism, Neuralgia, Insect Bites and Stings, Flesh Wounds, Lumbago, Pleurisy, Sores, Stiff Joints, Cholera Morbus, Indigestion, Grippe, Earache, Headache, Catarrh, Frostbites, Chilblains, Scalds, Gravel; Kidney, Bladder, and Urinary Canal Diseases; Dyspepsia, Acid Fermentation, Malassimilation, Heartburn, Spasmodic Croup, Bronchitis, Stiff Neck, Tickling in Throat, Whooping Cough, Hoarseness, Constipation, Biliousness, Torpid Liver, Costiveness, Gas on the Stomach, Fever, Piles, Diseases due to Irregular Bowel Movements, Quinsy, General Tonics; Veterinary Preparations—Namely, Stock Powder, Preparations for the Treatment of Gall Diseases, Healing Powders, Liniments, Healing Oils, Colic and Bloat Preparation, Camphorated Cream, Herb Liniment for Internal and External Use, and Insecticides Particularly Adapted for Veterinary Use; Preparations for the Treatment of Diseases of Poultry; Skin Cream, Preparations for Training and Keeping the Hair in Place, Cold Creams, Vanishing Creams, Talcum Powders, Dentifrices, Hair Oils, Shampoo Preparations, Complexion Powders, Hair Tonics, Toilet Waters, Insecticides, Cream of Tartar, Baking Powder.
Claims use since 1913.

240,725. (CLASS 39. CLOTHING.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed Jan. 5, 1928. Serial No. 259,720.

Brockley

Particular description of goods.—Men's Suits, Overcoats, Topcoats, and Tuxedos Made of Textile Materials.
Claims use since Oct. 7, 1926.

240,726. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE CHICAGO NORFOLK WESTERN COAL COMPANY, Chicago, Ill. Filed Jan. 9, 1928. Serial No. 259,843.

TIFFANY

Particular description of goods.—Coal.
Claims use since April, 1924.

240,727. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BOYE NEEDLE CO., Chicago, Ill. Filed Jan. 27, 1928. Serial No. 260,713.

"BOYE"

Particular description of goods.—Key Chains, Coiled-Wire Curtain Holders, Key Hooks, and Hasps.
Claims use since February, 1923 as to key chains; April, 1912, as to coiled wire curtain holders; November, 1913, as to key hooks, and since March, 1913, as to hasps.

TRADE-MARK REGISTRATIONS RENEWED

31,160. A MEDICINAL POWDER FOR THE CURE OF HEADACHE. Registered January 18, 1898. DAISY, LIMITED, Leeds, England. Renewed January 18, 1928, to J. E. Ellis Ltd., Horsforth, England, a Corporation of Great Britain, assignee.

31,172. SUBSTITUTES FOR COFFEE MADE OF GRAIN. Registered January 25, 1898. GENESEE PURE FOOD CO., Le Roy, N. Y. Renewed January 25, 1928, to Postum Company, Incorporated, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

31,414. TWIST DRILLS, REAMERS, TAPS, AND THE LIKE. Registered March 8, 1898. CLEVELAND TWIST DRILL CO. Renewed March 8, 1928, to The Cleveland Twist Drill Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

31,843. LOCKS. Registered August 2, 1898. THE YALE & TOWNE MANUFACTURING COMPANY, Stamford, Conn., a Corporation of Connecticut. Renewed August 2, 1928.

31,852. BUTTER, MILK, CHEESE, AND CREAM. Registered August 9, 1898. JAMES L. HUMPHREY JR., New Bedford, Mass. Renewed August 9, 1928.

46,225. A PREPARATION OF MAGNESIA. Registered September 12, 1905. THE CHARLES H. PHILLIPS CHEMICAL COMPANY, Glenbrook, Conn., and New York, N. Y., a Corporation of Connecticut. Renewed September 12, 1925.

61,301. PIANOS AND ORGANS. Registered March 12, 1907, to M. SCHULZ CO., Chicago, Ill., a Corporation of Illinois. Renewed March 12, 1927.

62,595. A CARD GAME. Registered May 14, 1907. WILLIAM J. ROCHE, New Bethlehem, Pa. Renewed May 14, 1927, to Parker Brothers (Inc.), Salem, Mass., a Corporation of Maine, successor.

67,368. TALCUM POWDER. Registered January 28, 1908. TALCUM PUFF COMPANY, INC., Asheville, N. C. Renewed January 28, 1928, to Talcum Puff Co. Inc., Brooklyn, N. Y., a Corporation of New York, successor.

67,435. A PERIODICAL DEVOTED TO OPTICAL INTERESTS. Registered February 4, 1908. THE JEWELERS CIRCULAR PUB. CO. Renewed February 4, 1928, to Jewelers Publishing Corporation, New York, N. Y., a Corporation of Delaware, successor.

67,558. CANNED FISH. Registered February 11, 1908. SCHWABACHER BROS. & CO. INCORPORATED, Seattle, Wash., a Corporation of Washington. Renewed February 11, 1928.

67,561. COFFEE. Registered February 11, 1908. BLACK HAWK COFFEE & SPICE COMPANY, Waterloo, Iowa, a Corporation of Iowa. Renewed February 11, 1928.

67,562. COFFEE. Registered February 11, 1908. BLACK HAWK COFFEE & SPICE COMPANY, Waterloo, Iowa, a Corporation of Iowa. Renewed February 11, 1928.

67,604. CAR-TRUCK BOLSTERS. Registered February 11, 1908. PRESSED STEEL CAR COMPANY, Pittsburgh, Pa., a Corporation of New Jersey. Renewed February 11, 1928.

67,608. MEDICINE FOR CERTAIN DISEASES. Registered February 11, 1908. WENDELL PHARMACAL CO. Renewed February 11, 1928, to The Wendell Pharmacal Company, Inc., Syracuse, N. Y., a Corporation of New York, assignee.

67,620. LINIMENT. Registered February 11, 1908. MINARD'S LINIMENT MANUFACTURING COMPANY, Framingham and Boston, Mass. Renewed February 11, 1928, to Minard Company, Framingham, Mass., a Corporation of Massachusetts, assignee.

67,880. INSECTICIDES. Registered February 25, 1908. STRAWSONS. Renewed February 25, 1928, to Strawson Chemical Co. Limited, London, England, a Corporation of Great Britain, assignee by mesne assignments.

67,899. COLD CREAM AND POMADES. Registered February 25, 1908. VEREINIGTE CHEMISCHE WERKE AKTIENGESELLSCHAFT, Charlottenburg, Germany, a Corporation of Germany. Renewed February 25, 1928.

68,029. CHAINS FOR PERSONAL ADORNMENT. Registered March 3, 1908. THE D. F. BRIGGS CO. Renewed March 3, 1928, to Associated Attleboro Manufacturers, Inc., Attleboro, Mass., a Corporation of Massachusetts, successor.

68,046. HEAT OR TEMPERATURE REGULATORS. Registered March 3, 1908. THE FULTON COMPANY. Renewed March 3, 1928, to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware, assignee.

68,223. CERTAIN RAILWAY SUPPLIES. Registered March 17, 1908. RAILWAY STEEL SPRING COMPANY. Renewed March 17, 1928, to Railway Steel-Spring Company, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

68,509. CIGARS. Registered April 14, 1908. SIDNEY S. SPEIER, Louisville, Ky. Renewed April 14, 1928.

68,575. COTTON DUCK. Registered April 14, 1908. MOUNT VERNON-WOODBERRY COTTON DUCK COMPANY. Renewed April 14, 1928, to Mt. Vernon Woodberry Mills, Inc., Baltimore, Md., a Corporation of Maryland, assignee.

68,577. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 14, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 14, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,578. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 14, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 14, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,656. A PREPARATION TO IMPROVE THE COLOR, AROMA, AND FLAVOR OF COFFEE. Registered April 21, 1908. PFEIFFER & DILLER G. M. B. H. Renewed April 21, 1928, to Pfeiffer & Diller Gesellschaft mit beschrankter Haftung, Horchheim, Germany, a Corporation of Germany, successor.

68,700. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 21, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 21, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

68,701. BLEACHED AND UNBLEACHED COTTON PIECE GOODS. Registered April 21, 1908. PEPPERELL MANUFACTURING CO., Biddeford, Me. Renewed April 21, 1928, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee, by mesne assignments.

68,737. GINGER ALE. Registered April 28, 1908. W. T. WAGNER'S SONS. Renewed April 28, 1928, to The W. T. Wagner's Sons Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

68,787. CIGARETTES. Registered April 28, 1908. SOCIETE ANONYME LE KHEDIVE, Brussels, Belgium, and Paris, France. Renewed April 28, 1928, to Societe Anonyme Ed. Laurens- "Le Khedive" Extension Suisse, Geneva, Switzerland, a Corporation of Switzerland, assignee.

68,788. CIGARETTES. Registered April 28, 1908. SOCIETE ANONYME LE KHEDIVE, Brussels, Belgium, and Paris, France. Renewed April 28, 1928, to Societe Anonyme Ed. Laurens- "Le Khedive" Extension Suisse, Geneva, Switzerland, a Corporation of Switzerland, assignee.

68,962. DYES. Registered May 12, 1908. WELLS & RICHARDSON COMPANY. Renewed May 12, 1928, to Wells & Richardson Company, Inc., Burlington, Vt., a Corporation of Vermont, assignee.

68,963. DYES. Registered May 12, 1908. WELLS & RICHARDSON COMPANY. Renewed May 12, 1928, to Wells & Richardson Company, Inc., Burlington, Vt., a Corporation of Vermont, assignee.

68,966. CAST-METAL SOIL PIPES AND FITTINGS. Registered May 12, 1908. ABENDROTH BROTHERS, Port Chester and New York, N. Y. Renewed May 12, 1928, to Abendroth Brothers, Port Chester, N. Y., a Corporation of New York.

69,135. A CERTAIN PLASTIC PREPARATION. Registered May 19, 1908. THE KNOWLTON DANDERINE CO., Chicago, Ill. Renewed May 19, 1928, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee.

69,143. PERFUMERY AND FACE TINTS. Registered May 19, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed May 19, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

69,145. PERFUMERY, TOILET POWDERS, AND FACE TINTS. Registered May 19, 1908. E. WERTHEIMER & CIE., Paris, France. Renewed May 19, 1928, to Bourjois, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

69,160. TOOTH POWDERS AND TOOTH PASTES. Registered May 19, 1908. LIZZIE E. VAN WYCK RHEIN. Renewed May 19, 1928, to Prophylactic Tooth Powder, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

69,252. MILLBOARD. Registered June 2, 1908. HARVEY & OUTERBRIDGE, New York, N. Y. Renewed June 2, 1928, to The Agasote Millboard Co., Ewing Township, N. J., a Corporation of New Jersey, assignee.

69,275. CERTAIN FOODS. Registered June 2, 1908. THE FRANK TEA & SPICE CO. Renewed June 2, 1928, to The Frank Tea & Spice Company, Cincinnati, Ohio, a Corporation of Ohio, successor.

69,287. LINEN HOSE. Registered June 2, 1908. CHAS. NIEDNER'S SONS COMPANY, Malden, Mass., a Corporation of Massachusetts. Renewed June 2, 1928.

69,288. LINEN HOSE. Registered June 2, 1908. CHAS. NIEDNER'S SONS COMPANY, Malden, Mass., a Corporation of Massachusetts. Renewed June 2, 1928.

69,321. CONDENSED MILK. Registered June 2, 1908. NESTLÉ AND ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland, and London, England. Renewed June 2, 1928, to Nestle's Food Company, Inc., New York, N. Y., a Corporation of New York, assignee.

69,322. CONDENSED MILK. Registered June 2, 1908. NESTLÉ AND ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland, and London, England. Renewed June 2, 1928, to Nestle's Food Company, Inc., New York, N. Y., a Corporation of New York, assignee.

69,605. DOCUMENT FILES. Registered June 23, 1908. THE GLOBE-WERNICKE COMPANY, Cincinnati, Ohio. Renewed June 23, 1928, to The Globe-Wernicke Co., Norwood, Ohio, a Corporation of Ohio.

69,638. TABLE WATERS. Registered June 23, 1908. W. T. WAGNER'S SONS. Renewed June 23, 1928, to The W. T. Wagner's Sons Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

69,668. CIGARS, CIGARETTES, AND SMOKING TOBACCO. Registered June 30, 1908. LEAVITT & PEIRCE, INCORPORATED, Cambridge, Mass., a Corporation of Massachusetts. Renewed June 30, 1928.

69,705. CORN BRANDY. Registered June 30, 1908. HERMANN C. KÖNIG, Steinbagen, Germany. Renewed June 30, 1928.

69,723. BACTERIOLOGICAL PREPARATIONS FOR THE EXTERMINATION OF RATS AND MICE. Registered June 30, 1908. BAKTERIOLOGISK LABORATORIUM, NEUMANN & CO. I AALBORG, GRAVENSGADE 1, Aalborg, Denmark. Renewed June 30, 1928, to A/S Bakteriologisk Laborantorium "Ratin," Frederiksberg, Denmark, a Company of Denmark, successor.

69,805. LEMONADE, SELTZER WATER, AND FRUIT JUICES. Registered July 7, 1908. DEUTSCHE SI'-SI' WERKE MIT BESCHRÄNKTER HAFTUNG, Hamburg, Germany. Renewed July 7, 1928.

69,913. SIGNAL HORNS OR ALARMS. Registered July 14, 1908. THE LOVELL-MCCONNELL MANUFACTURING COMPANY. Renewed July 14, 1928, to The Klaxon Company, Newark, N. J., a Corporation of Delaware, assignee by mesne assignments.

69,983. LEATHER BOOTS, SHOES, AND SLIPPERS. Registered July 21, 1908. THE STETSON SHOE COMPANY, INC., Weymouth, Mass., a Corporation of Massachusetts. Renewed July 21, 1928.

69,989. PAINT. Registered July 21, 1908. C. A. WOOLSEY PAINT & COLOR CO., Jersey City, N. J., a Corporation of New Jersey. Renewed July 21, 1928.

70,032. HONES, OILSTONES, AND WHETSTONES. Registered July 28, 1908. SEVERIN ROBERT DROESCHER, Cranford, N. J., and New York, N. Y. Renewed July 28, 1928.

70,051. WHEAT FLOUR. Registered July 28, 1908. THE KANSAS MILLING COMPANY, Wichita, Kans., a Corporation of Kansas. Renewed July 28, 1928.

70,073. CERTAIN TOOLS. Registered July 28, 1908. BUTLER BROTHERS, New York, N. Y. Renewed July 28, 1928, to Butler Brothers, Chicago, Ill., a Corporation of Illinois.

70,107. KNIT SILK UNDERWEAR. Registered July 28, 1908. JULIUS KAYSER & CO., New York, N. Y., a Corporation of New York. Renewed July 28, 1928.

70,139. CERTAIN HARNESS PARTS. Registered August 4, 1908. NORTH & JUDD MANUFACTURING COMPANY, New Britain, Conn., a Corporation of Connecticut. Renewed August 4, 1928.

70,180. CERTAIN ABRASIVE MATERIALS AND SHARPENING STONES. Registered August 11, 1908. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Renewed August 11, 1928, to Simmons Hardware Company, New Haven, Conn., a Corporation of Missouri.

70,206. A MONTHLY TRADE JOURNAL. Registered August 11, 1908. ROBERT H. MCCREADY, Plainfield, N. J. and New York, N. Y. Renewed August 11, 1928, to Silk Publishing Company, New York, N. Y., a Corporation of New York, assignee.

70,236. A MALT EXTRACT. Registered August 11, 1908. THE AMERICAN DIAMALT COMPANY, Cincinnati, Ohio. Renewed August 11, 1928, to The American Diamalt Company, New York, N. Y., a Corporation of Ohio.

70,372. COMBED YARN. Registered August 25, 1908. KILBURN MILL, New Bedford, Mass., a Corporation of Massachusetts. Renewed August 25, 1928.

LABELS

REGISTERED APRIL 3, 1928.

33,752.—*Title:* TOSTKO. For Prepared Cocoa. JOHN F. ABBOTT, doing business as Caribbean Products Co., Philadelphia, Pa. Published September 15, 1927.

33,753.—*Title:* JOLLY COP RING TOSS. For a Game. ALDERMAN FAIRCHILD CO., Rochester, N. Y. Published February 4, 1928.

33,754.—*Title:* CAPTAIN HOP ACROSS JUNIOR. For a Game. ALDERMAN FAIRCHILD CO., Rochester, N. Y. Published February 4, 1928.

33,755.—*Title:* THE CAPITAL CITIES AIR DERBY. For a Game. ALDERMAN FAIRCHILD CO., Rochester, N. Y. Published February 4, 1928.

33,756.—*Title:* NOAH'S ARK. For a Game. ALDERMAN FAIRCHILD CO., Rochester, N. Y. Published February 4, 1928.

33,757.—*Title:* POP AND PLOP. For a Game. ALDERMAN FAIRCHILD CO., Rochester, N. Y. Published February 4, 1928.

33,758.—*Title:* BLINKY BLINX TIDDLEDY WINKS. For a Game. ALDERMAN FAIRCHILD CO., Rochester, N. Y. Published February 4, 1928.

33,759.—*Title:* BECKMEISTER. For Malt Syrup. BARNEY BECKER, doing business as Beckers Malt Extract Company, Pleasantville, N. J. Published September 17, 1927.

33,760.—*Title:* BIGOSH EYE WASH. For Eye Lotion. BIGOSH EYE WASH CO., Fargo, N. Dak. Published September 1, 1927.

33,761.—*Title:* CHESS. For Fresh Oranges. MEYER W. CHESS, doing business as Meyer W. Chess Brokerage Co., Pacoima and San Fernando, Calif. Published December 19, 1927.

33,762.—*Title:* DECKER'S TOWN CLUB. For Ham. JACOB E. DECKER & SONS, Mason City, Iowa. Published January 20, 1928.

33,763.—*Title:* DECKER'S TOWN CLUB. For Bacon. JACOB E. DECKER & SONS, Mason City, Iowa. Published January 20, 1928.

33,764.—*Title:* BEAUTY. For Evaporated Milk. THE DEFIANCE DAIRY PRODUCTS COMPANY, Defiance, Ohio. Published August 22, 1927.

33,765.—*Title:* SUNSHINE. For Evaporated Milk. THE DEFIANCE DAIRY PRODUCTS COMPANY, Defiance, Ohio. Published August 22, 1927.

33,766.—*Title:* COLOR BRITE. For Compound for Preserving the Colors of Wash Fabrics. SARAH C. DEXTER, doing business as Color-Brite Laboratory, Chicago, Ill. Published December 7, 1927.

33,767.—*Title.* THE DAYTON COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 21, 1927.

33,768.—*Title:* THE EDWARDS STORE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 29, 1927.

33,769.—*Title:* KERRISON'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 28, 1927.

33,770.—*Title:* THE HOUSE THAT SAVES YOU MONEY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 19, 1927.

33,771.—*Title:* CHAMBERLIN-JOHNSON-DUBOSE COMPANY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 23, 1928.

33,772.—*Title:* STYLE WITHOUT EXTRAVAGANCE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 4, 1928.

33,773.—*Title:* ED. KEMP, GOLDEN GLOW FARM FUDGE. For Golden Glow Farm Fudge. EDWARD F. KEMP, Somerville and Boston, Mass. Published January 3, 1928.

33,774.—*Title:* E. F. KEMP, SALTED ALMONDS. For Salted Almonds. EDWARD F. KEMP, Somerville and Boston, Mass. Published February 17, 1928.

33,775.—*Title:* E. F. KEMP, SALTED PECANS. For Salted Pecans. EDWARD F. KEMP, Somerville and Boston, Mass. Published February 17, 1928.

33,776.—*Title:* E. F. KEMP, SALTED CASHEW NUTS. For Salted Cashew Nuts. EDWARD F. KEMP, Somerville and Boston, Mass. Published February 17, 1928.

33,777.—*Title:* E. F. KEMP, SALTED MIXED NUTS. For Salted Mixed Nuts. EDWARD F. KEMP, Somerville and Boston, Mass. Published February 17, 1928.

33,778.—*Title:* KICK-O-MATO. For a Tomato Sauce. KICK-O-MATO INCORPORATED, Duluth, Minn. Published December 27, 1927.

33,779.—*Title:* HOLLYWOOD STARS MASK OF MINERALS. For Facial Cream. ARTHUR R. LEE, doing business as Art Lee, Los Angeles, Calif. Published November 30, 1927.

33,780.—*Title:* SANTA. For Lemons. LIMONEIRA COMPANY, Santa Paula, Calif. Published January 2, 1928.

33,781.—*Title:* PAULA. For Lemons. LIMONEIRA COMPANY, Santa Paula, Calif. Published January 2, 1928.

33,782.—*Title:* LINDY. For Candy. LINDY CANDY COMPANY, Palisades Park, N. J. Published December 28, 1927.

33,783.—*Title:* MADAME IDA VON LINDEMAN'S. For Hair Tonic. MADAME IDA VON LINDEMAN, Chicago, Ill. Published October 10, 1927.

33,784.—*Title:* PLANTAIDE CUT WORM AND GOPHER REPELLENT. For a Medicinal Preparation for Treating Seed Corn. IRVING MCEWEN, Omaha, Nebr. Published February 20, 1928.

33,785.—*Title:* DELICIOUS BACON HEART'S DELIGHT FARM. For Bacon. WILLIAM H. MINER, Chazy, N. Y. Published January 3, 1928.

33,786.—*Title:* PLUNKETT'S COMPOUND LAXATIVE BROMO ASPIRON TABLETS. For Compound Laxative Bromo Aspiron Tablets. PAUL EUGENE PLUNKETT, Baltimore, Md. Published December 1, 1927.

33,787.—*Title:* HUMPTY-DUMPTY EGGS. For Eggs. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, San Francisco, Calif. Published November 7, 1927.

33,788.—*Title:* GOLD'N WHITE EGGS. For Eggs. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, San Francisco, Calif. Published December 19, 1927.

33,789.—*Title:* SUNNYLAND. For Syrup. RODDENBERY BROS., Cairo, Ga. Published February 3, 1928.

33,790.—*Title:* EL REY. For Gopher Poison. STOVER-GIBBS & WINSEL, Los Angeles, Calif. Published June 14, 1927.

33,791.—*Title:* WINCO. For Shoe Laces. JOSHUA WEINGARTEN, Philadelphia, Pa. Published December 27, 1927.

33,792.—*Title:* WRIGLEY'S DULCE 16—CHICLE ROSADO. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

33,793.—*Title:* WRIGLEY'S DULCE 16—CHICLE RO-SADO. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

33,794.—*Title:* WRIGLEY'S DULCE 16—CHICLE RO-SADO. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

PRINTS

REGISTERED APRIL 3, 1928.

10,741.—*Title:* IN SO INTIMATE AND PRESONAL A GIFT AS THE ENGAGEMENT RING. For Jewelry. BLACK, STARR & FROST, New York, N. Y. Published February 15, 1928.

10,742.—*Title:* PROGRESS. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published December 24, 1927.

10,743.—*Title:* MORE LOVABLE—MORE DIFFICULT TO MANAGE EVERY DAY. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published February 10, 1928.

10,744.—*Title:* YOU'VE PROBABLY BEEN WISHING FOR THIS VERY THING. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published February 10, 1928.

10,745.—*Title:* SERVICISED. For Construction Material and Specifically Expansion Joints. ALBERT C. FISCHER, doing business as Servicised Products Company, Chicago, Ill. Published October 8, 1920.

10,746.—*Title:* HICKMAN'S SILVER BIRCH CHEWING GUM. For Chewing Gum. R. H. HICKMAN COMPANY, Stowe Township and Pittsburgh, Pa. Published December 8, 1927.

10,747.—*Title:* WANT A BUCKET OF RAIN WATER? For Mel'O, a Water Softener. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio. Published January 23, 1928.

10,748.—*Title:* KOLYNOS DENTAL CREAM. For Dental Cream. THE KOLYNOS COMPANY, New Haven, Conn. Published January 5, 1928.

10,749.—*Title:* CORDAY PERFUMES FOR EXQUISITE WOMEN. For Perfumes and Lip Sticks. LIONEL TRADING CO. INC., doing business as Lionel, New York, N. Y. Published October 1, 1927.

10,750.—*Title:* ANT KILLER NO. 9 IS THE ENVELOPE KIND. For Ant Killer. W. C. MCKEE, doing busi-nss as The No. 9 Chemical Company, Columbus, Ga. Published December 23, 1927.

10,751.—*Title:* R GROCER. For Grocery Products and Meats. NATIONAL GROCER COMPANY, Detroit, Mich. Published February 11, 1928.

10,752.—*Title:* FOR A PERFECT LUNCH DRINK CO-COA-CRUSH. For Nonalcoholic, Noncereal, Maltless Beverage. ORANGE-CRUSH COMPANY, Chicago, Ill. Published December 15, 1927.

10,753.—*Title:* THEY SAY P. A. IS THE WORLD'S LARGEST SELLER. For Tobacco. R. J. REYNOLDS TOBACCO COMPNAY, Winston-Salem, N. C. Published January 3, 1928.

10,754.—*Title:* P. A. SUITS MY TASTE LIKE NO-BODY'S BUSINESS. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published January 17, 1928.

10,755.—*Title:* QUALITY SENT P. A. TO THE HEAD OF THE CLASS. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published January 31, 1928.

10,756.—*Title:* THE SUM-TOTAL OF PIPE-JOY. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Win-ston-Salem, N. C. Published February 6, 1928.

10,757.—*Title:* WATCH ME ROLL A GREAT CIGA-RETTE. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published February 6, 1928.

10,758.—*Title:* ME—I LIKE A PIPE. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 10, 1927.

10,759.—*Title:* GO GET A PIPE! For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 24, 1927.

10,760.—*Title:* P. A. SUITS MY TASTE LIKE NO-BODY'S BUSINESS. For Tobacco. R. J. REYN-OLDS TOBACCO COMPANY, Winston-Salem, N. C. Published January 7, 1928.

10,761.—*Title:* NOTHING LIKE A PIPE, I SAY. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Win-ston-Salem, N. C. Published January 21, 1928.

10,762.—*Title:* I'LL BACK P. A. AGAINST THEM ALL. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published February 4, 1928.

10,763.—*Title:* ROLLING 'EM WITH P. A. IS A GREAT RACKET. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 5, 1927.

10,764.—*Title:* CAMEL STANDS ALONE—UNUSUAL IN EVERY WAY. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 5, 1927.

10,765.—*Title:* TO MAKE A MAN HAPPY AT CHRIST-MAS . . . AND FROM THEN ON. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 12, 1927.

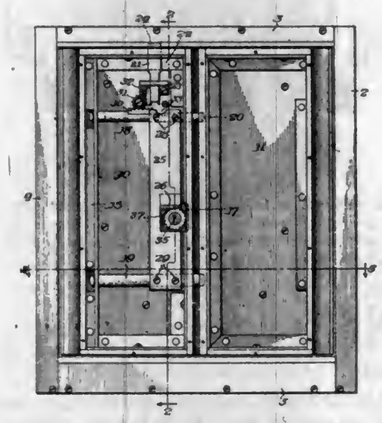
10,766.—*Title:* I KNOW MY HOME-ROLLED CIGA-RETTES. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 13, 1927.

10,767.—*Title:* DOES HE SMOKE A PIPE? WELL, THEN, THAT'S SETTLED! For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published December 19, 1927.

REISSUES

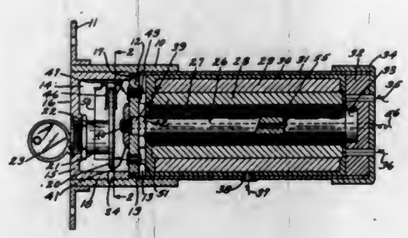
APRIL 3, 1928.

16,919. SAFE LOCK. JOSEPH J. MARIOTTI, Chicago, Ill., assignor to Daprato Statuary Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 21, 1927. Serial No. 241,707. Original No. 1,577,335, dated Mar. 16, 1926, Serial No. 14,864, filed Mar. 12, 1925. 5 Claims. (Cl. 109—3.)



1. A double door locking mechanism for safes comprising, a key operable pinion, a member, including a rack for engaging said pinion, carrying a plurality of horizontally slidable locking bolts, a second rack carried by one of said bolts, a vertically slidable locking bolt having a rack associated therewith, and a pinion for operatively connecting the two last said racks.

16,920. BURGLARPROOF INDUCTION COIL. HOWARD J. MURRAY, New York, N. Y., assignor, by mesne assignments, to H. A. Douglas, Bronson, Mich. Filed Mar. 18, 1927. Serial No. 176,529. Original No. 1,576,779, dated Mar. 16, 1926, Serial No. 507,011, filed Oct. 11, 1921. 17 Claims. (Cl. 175—361.)

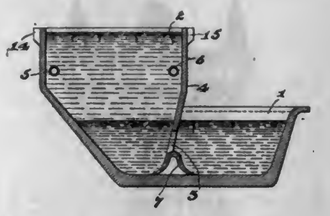


1. In an induction coil unit, the combination of cylindrical metallic burglar proof casing open at opposite ends and provided with a barrier for dividing the casing into a circuit closer containing compartment and into a coil receiving compartment, an induction coil having one end fitted in said coil receiving compartment and projecting therefrom, said coil including a core bolt with one end secured to said barrier, means accessible through the open end of the circuit closer containing compartment for locking the bolt in place, said barrier provided with an opening extending therethrough, a circuit closer disposed within the circuit closer containing compartment for controlling the coil, a conductor leading from the primary windings of the coil through said opening to the circuit closer and a burglar proof closure for the open end of the circuit closer containing compartment.

16,921. WATER-SOLUBLE METALLIC ORGANIC COMPOUND AND PROCESS OF MAKING THE SAME. MORRIS SELIG KHARASCH, College Park, Md. Filed June 16, 1927. Serial No. 199,413. Original No. 1,589,599, dated June 22, 1926, Serial No. 708,807, filed Apr. 24, 1924. 13 Claims. (Cl. 260—13.)

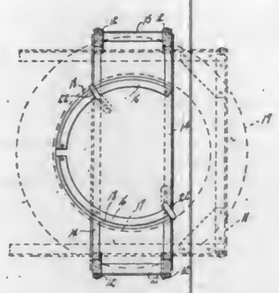
1. The step in the process of producing water soluble metallo-organic compounds which comprises treating with a solution of an organic compound containing a thio-hydroxyl group directly attached to a carbon atom a compound of the formula R—M—α in which R is any organic radical having the metal attached to a carbon atom, in which α is any replaceable inorganic radical or group, and in which M is any metal having a valence greater than one which will form organo-metallic compounds with the metal bonded to a carbon atom, stable toward water.

16,922. TINNING POT. JOHN J. MARKEY, Washington, Pa. Filed Aug. 12, 1927. Serial No. 212,598. Original No. 1,585,308, dated May 18, 1926, Serial No. 10,436, filed Feb. 19, 1925. 4 Claims. (Cl. 266—39.)



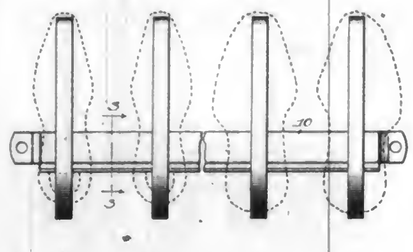
4. A tinning pot comprising a plate bendable under heat and shaped to form the bottom, front, and rear walls of said tank; stepped end plates connected to said plate to form the end walls of said tank; a partition connecting said end plates between said walls to divide the tank into two chambers extending from the bottom of the tank and one deeper than the other, said partition having its bottom edge extending below the top of the shorter chamber; and regulable temperature controlling means in the deeper chamber above the top edge of said shorter chamber.

16,923. UNDERSLUNG TIRE CARRIER. WILLIAM H. NEELY, Evansville, Ind., assignor to Graham Brothers, Evansville, Ind., a Corporation. Filed Jan. 25, 1926. Serial No. 83,765. Original No. 1,550,447, dated Aug. 18, 1925, Serial No. 666,751, filed Oct. 5, 1923. 8 Claims. (Cl. 224—29.)



2. The combination with a vehicle frame of an underslung tire carrier, including a horizontally arranged supporting platform secured in spaced relation beneath said frame, and a member carried by said platform for reinforcing said platform and for supporting the tire spaced from said frame and platform.

16,924. SHOE SUPPORT. EUGENE L. CAVANNA, Chicago, Ill. Filed Aug. 11, 1926. Serial No. 129,296. Original No. 1,507,038. dated Dec. 29, 1925, Serial No. 715,277, filed May 23, 1924. 8 Claims. (Cl. 211—35.)

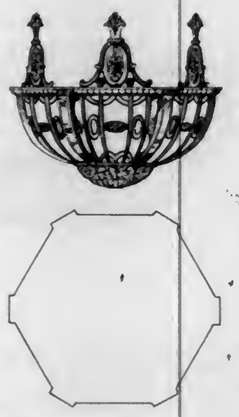


1. A resilient shoe support comprising a member having a portion insertable in the toe of a shoe or the like and a second portion extending therefrom to underlie and contact the sole of said shoe.

DESIGNS

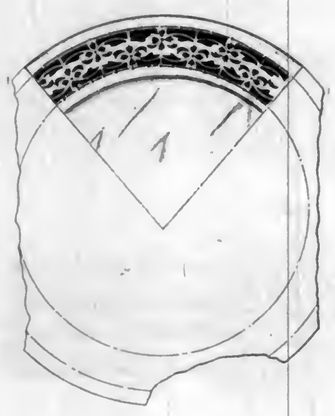
APRIL 3, 1928.

74,815. LIGHTING-FIXTURE BODY OR ARTICLE OF SIMILAR NATURE. HARRY AGLOW, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co., a Corporation of New York. Filed Jan. 7, 1928. Serial No. 24,772. Term of patent 3½ years.



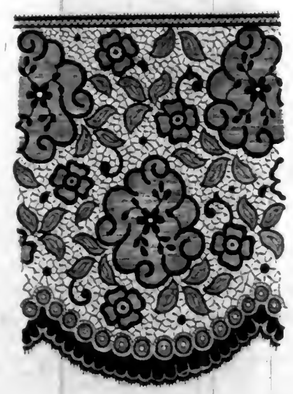
The ornamental design for a lighting fixture body or article of similar nature substantially as shown.

74,816. PLATE OR SIMILAR ARTICLE. HUGO AUVERA, Dresden, Germany, assignor to Mitchell, Woodbury Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 13, 1927. Serial No. 23,082. Term of patent 7 years.



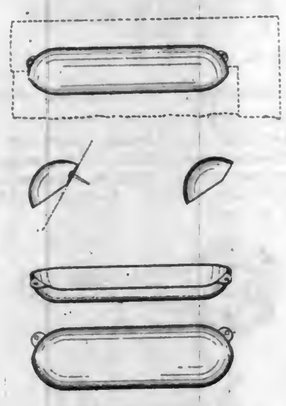
The ornamental design for a plate or similar article substantially as shown and described.

74,817. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 19, 1928. Serial No. 24,935. Term of patent 3½ years.



The ornamental design for lace, substantially as shown.

74,818. REFLECTOR HOUSING FOR DISPLAY-CASE LIGHTS. DAVID J. BILLER, St. Louis, Mo., assignor to Day-Brite Reflector Company, St. Louis, Mo. Filed Oct. 31, 1927. Serial No. 23,953. Term of patent 14 years.



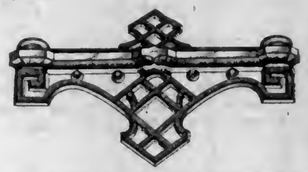
The ornamental design for a reflector housing for display case lights, as shown.

74,819. ELECTRIC WALL-BRACKET PLATE OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 17, 1927. Serial No. 24,178. Term of patent 3½ years.



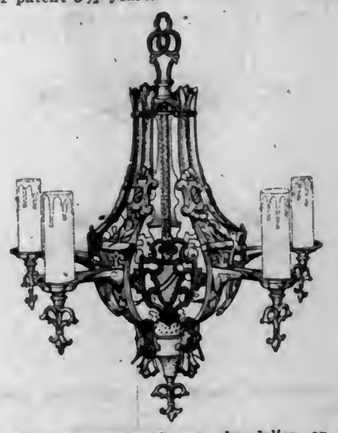
The ornamental design for an electric wall bracket plate or similar article, as shown.

74,820. ARM FOR AN ELECTRIC WALL-BRACKET PLATE OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 17, 1927. Serial No. 24,179. Term of patent 3½ years.



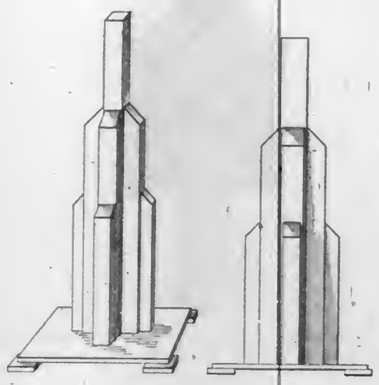
The ornamental design for an arm for an electric wall bracket plate or similar article, as shown.

74,821. CHANDELIER OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1928. Serial No. 24,873. Term of patent 3½ years.



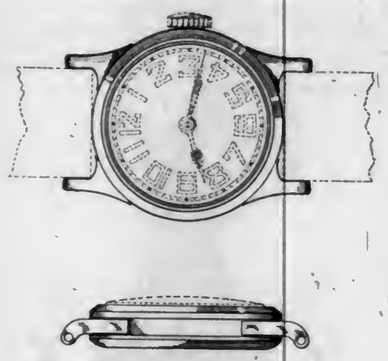
The ornamental design for a chandelier or similar article, as shown.

74,822. SUPPORT OR SIMILAR ARTICLE. JULES BOUY, New York, N. Y. Filed Oct. 20, 1927. Serial No. 23,829. Term of patent 3½ years.



The ornamental design for a support or similar article as shown.

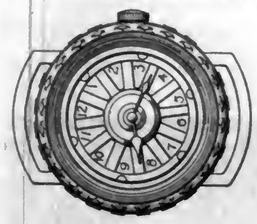
74,823. WATCHCASE. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Dec. 6, 1926. Serial No. 19,942. Term of patent 14 years.



The ornamental design for a watchcase, substantially as shown.

74,824. [WITHDRAWN.]

74,825. WRIST WATCH. HARRY I. CRAMER, Dayton, Ohio, assignor to The Sterling Jewelry Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 27, 1927. Serial No. 24,660. Term of patent 3½ years.





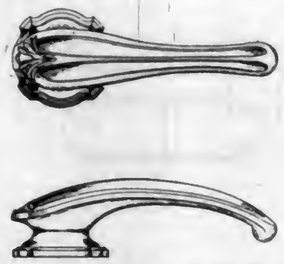
The ornamental design for a wrist watch, as shown.

74,826. POST CAP. ANDREW DE VRIES, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 14, 1927. Serial No. 22,750. Term of patent 14 years.



The ornamental design for a post cap as shown.

74,827. HANDLE FOR DOOR LATCHES OR THE LIKE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed May 2, 1927. Serial No. 21,821. Term of patent 14 years.



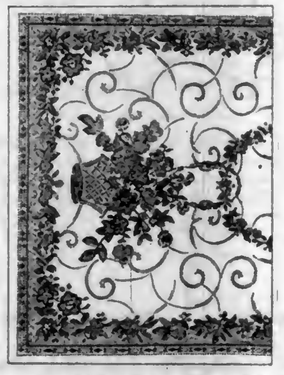
The ornamental design for a handle for a door latch or the like substantially as shown.

74,828. OIL BOTTLE. FREDERICK D. GATCHELL, New York, N. Y. Filed July 9, 1927. Serial No. 22,715. Term of patent 7 years.



The ornamental design for an oil bottle, as shown.

74,829. RUG OR SIMILAR ARTICLE. OSCAR W. FAUSER, Bellerose, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Nov. 19, 1927. Serial No. 24,206. Term of patent 7 years.



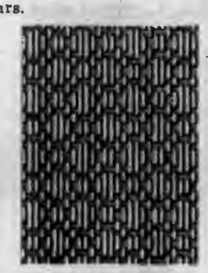
The ornamental design for a rug or similar article, substantially as shown and described.

74,830. AUTOMOBILE RADIATOR-CAP ORNAMENT. ADELBERT F. FILER, Birmingham, Ala., assignor to H. H. Bryans, trustee, Birmingham, Ala. Filed Oct. 25, 1927. Serial No. 23,882. Term of patent 3½ years.



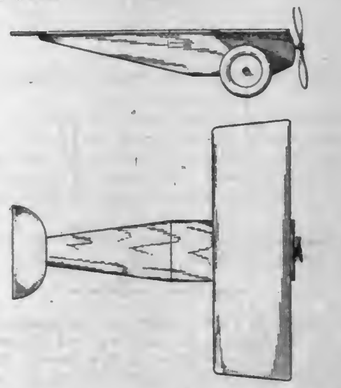
The ornamental design for an automobile radiator cap ornament substantially as shown.

74,831. PILE FABRIC. CHARLES S. HAMILTON, Harrison, N. Y., assignor to New York Mills Corporation, New York Mills, N. Y., a Corporation of New York. Filed Mar. 23, 1927. Serial No. 21,272. Term of patent 7 years.



The ornamental design for a pile fabric as shown.

74,832. BOX. FRANCIS F. HAMILTON, Indianapolis, Ind. Filed June 25, 1927. Serial No. 22,556. Term of patent 3½ years.



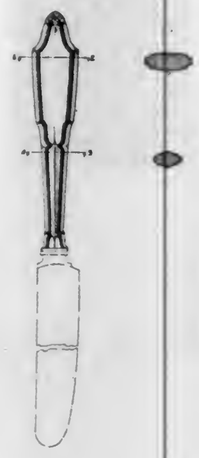
The ornamental design for a box as shown and described.

74,833. PLATE OR SIMILAR ARTICLE. ADOLF HATZEL, Selb, Germany, assignor to Mitchell, Woodbury Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1927. Serial No. 23,085. Term of patent 7 years.



The ornamental design for a plate or similar article substantially as shown and described.

74,834. HANDLE FOR A KNIFE OR SIMILAR ARTICLE. HARRISON HEBBARD, East Orange, N. J., assignor to Dominick & Haff, Inc., Newark, N. J., a Corporation of Delaware. Filed Sept. 20, 1927. Serial No. 23,475. Term of patent 7 years.



The ornamental design for a handle for a knife or similar article, as shown.

74,835. METAL CAN. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 19, 1925. Serial No. 12,083. Term of patent 14 years.



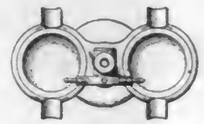
The ornamental design for a metal can as shown.

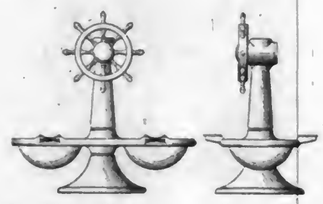
74,836. CONSOLE TABLE AND CABINET. AARON S. KATZ, New York, N. Y. Filed Jan. 13, 1928. Serial No. 24,865. Term of patent 3½ years.



The ornamental design for a console table and cabinet as shown.

74,837. SMOKER'S STAND. SAMUEL CLYDE KYLE, New York, N. Y. Filed Jan. 6, 1928. Serial No. 24,762. Term of patent 14 years.





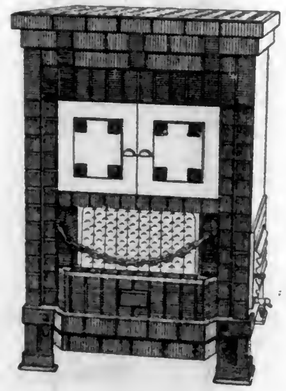
The ornamental design for a smoker's stand substantially as shown and described.

74,838. GAS HEATER. HENRY LANGE, Quincy, Ill. Filed Jan. 28, 1928. Serial No. 25,068. Term of patent 14 years.



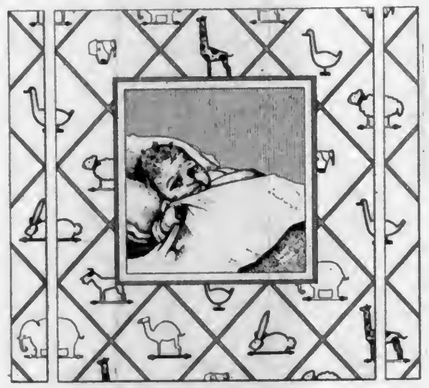
The ornamental design for a gas-heater, as shown.

74,839. HEATING STOVE. HENRY LANGE, Quincy, Ill. Filed Jan. 28, 1928. Serial No. 25,069. Term of patent 14 years.



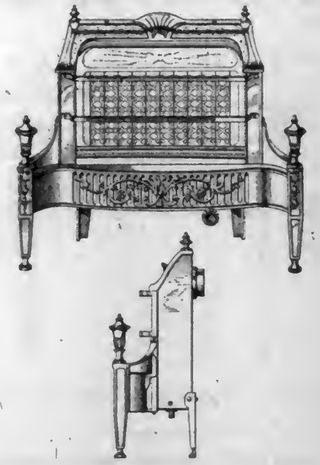
The ornamental design for a heating stove, as shown.

74,840. BOX COVER. ALLYN B. MCINTIRE, Newton Center, Mass., assignor to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 14, 1928. Serial No. 24,869. Term of patent 14 years.



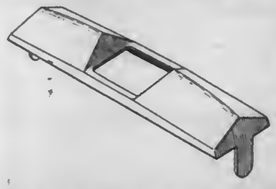
The ornamental design for a box cover as shown and described.

74,841. HEATER. ANTHONY A. NIEBERDING, Brookpark, Ohio. Filed Jan. 26, 1927. Serial No. 20,511. Term of patent 7 years.



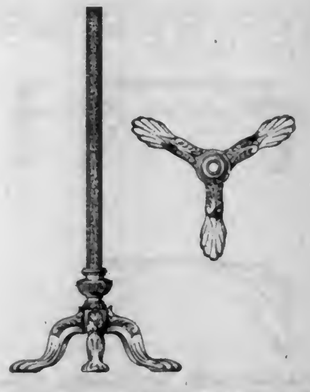
The ornamental design for a heater as shown.

74,842. BAG-LOCK ESCUTCHEON OR SIMILAR ARTICLE. JOHN B. RUSS, Shelton, Conn., assignor to The Bassett Metal Goods Company, Inc., Derby, Conn., a Corporation of Connecticut. Filed Dec. 27, 1927. Serial No. 24,651. Term of patent 7 years.



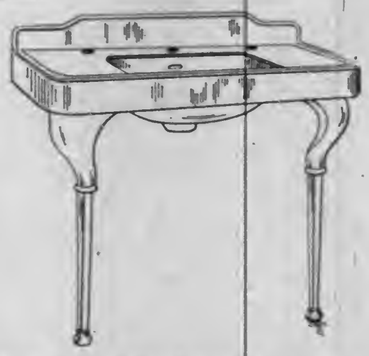
The ornamental design for a bag lock escutcheon or similar article as shown.

74,843. DISPLAY STAND. JOSEPH SOBEL, Brooklyn, N. Y., assignor to Genuine Bronze Fixture Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1928. Serial No. 24,863. Term of patent 7 years.



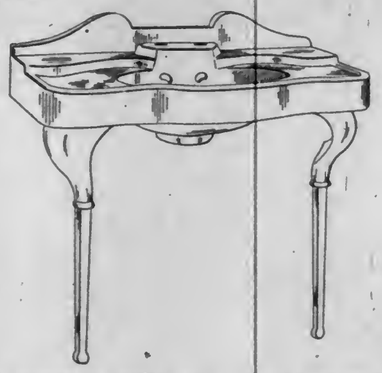
The ornamental design for a display stand, as shown.

74,844. LAVATORY. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 3, 1928. Serial No. 25,149. Term of patent 14 years.



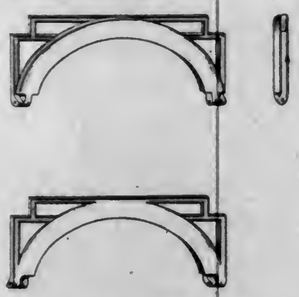
The ornamental design for a lavatory, substantially as shown.

74,845. LAVATORY. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 3, 1928. Serial No. 25,150. Term of patent 14 years.



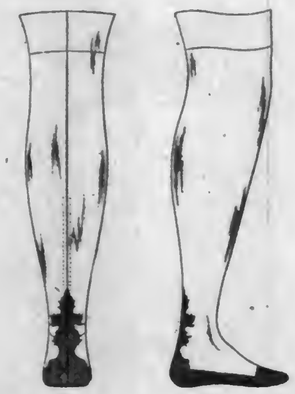
The ornamental design for a lavatory, substantially as shown.

74,846. HAND-BAG FRAME. ROBERT E. SOMMERS, New York, N. Y. Filed Dec. 31, 1927. Serial No. 24,714. Term of patent 3½ years.



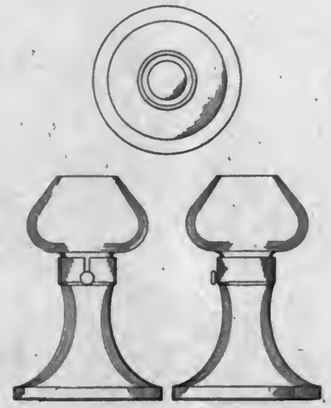
The ornamental design for a handbag frame substantially as shown.

74,847. STOCKING. CLARKE W. TOBIN, East Orange, N. J. Filed July 2, 1926. Serial No. 18,231. Term of patent 14 years.



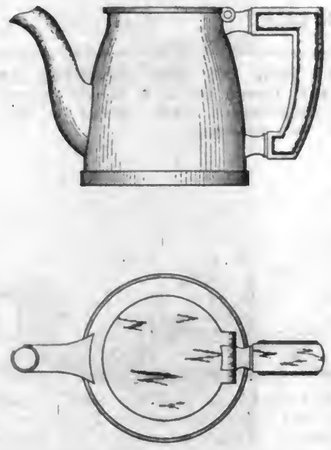
The ornamental design for a stocking as shown.

74,848. PORTABLE ELECTRIC LAMP. JAMES F. WHELAN, Philadelphia, Pa. Filed Nov. 12, 1927. Serial No. 24,095. Term of patent 14 years.



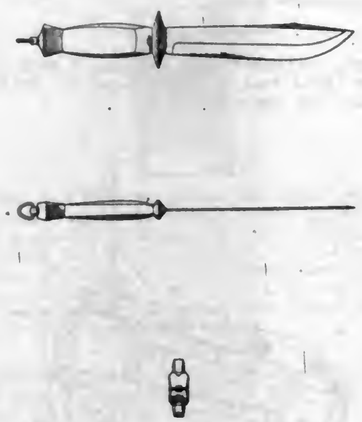
The ornamental design for a portable electric lamp as shown.

74,849. COFFEEPOT OR SIMILAR ARTICLE. SAMUEL G. WILKES, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed Jan. 20, 1928. Serial No. 24,946. Term of patent 14 years.



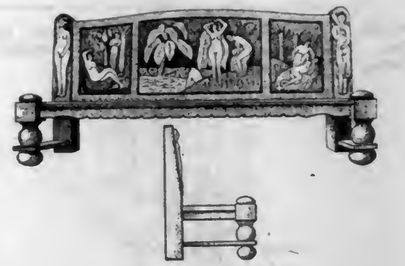
The ornamental design for a coffeepot or similar article as shown.

74,850. KNIFE. JOHN H. WILLIAMS, Westwood, Calif. Filed Dec. 17, 1927. Serial No. 24,512. Term of patent 14 years.



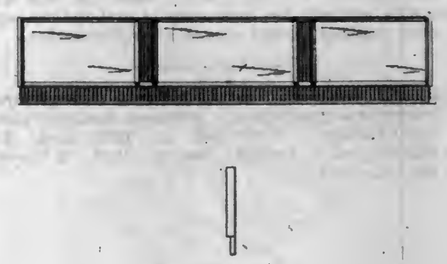
The ornamental design for a knife, as shown.

74,851. BENCH. RUSKIN WILLIAMS, Woodstock, N. Y. Filed Oct. 27, 1927. Serial No. 23,909. Term of patent 7 years.



The ornamental design for a bench, as shown.

74,852. ADVERTISING SIGN. WILLIAM G. BROWNE, Yonkers, N. Y., and ROGER W. OLMSTED, San Francisco, Calif. Filed June 20, 1927. Serial No. 22,497. Term of patent 14 years.



The ornamental design for an advertising sign as shown.

PATENTS

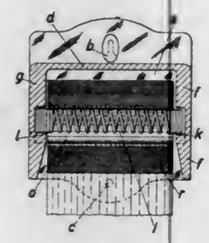
GRANTED APRIL 3, 1928.

1,664,391. WRENCH. ROBERT E. ASHCROFT, Nucla, Colo. Filed Apr. 20, 1926. Serial No. 103,296. 3 Claims. (Cl. 81—58.)



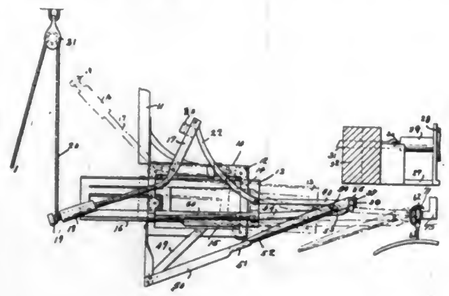
1. In a wrench of the class described, an operating device comprising pivotally connected crossed handles, a ball connector, a clamping device associated with said connector and with the outer ends of said handles, and a work engaging element carried by said connector.

1,664,392. INTEGRAL RECEIVER FOR SUSPENDING TOILET-PAPER ROLLS. ALPHONS BARUCH, Hamburg, Germany. Filed Sept. 30, 1927, Serial No. 223,081, and in Germany May 30, 1926. 9 Claims. (Cl. 242—55.2.)



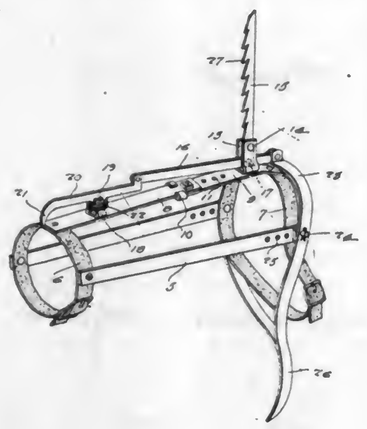
1. A receiver for suspending toilet paper rolls from a supporting shaft, comprising a hood of mouldable material having integral closed side, top and front walls and one wide opening at its lower end, and a bearing face at each inner side of said hood for a reception of the paper roll supporting shaft thereon.

1,664,393. PICK OFF FOR CONVEYER SYSTEMS. WILLIAM L. BIXLER and L. B. HENRY BIXLER, Fresno, Calif. Filed May 6, 1924. Serial No. 711,385. 7 Claims. (Cl. 198—38.)



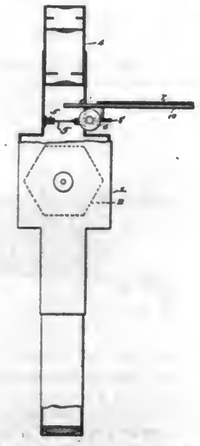
1. A pick-off device for conveyer systems comprising a stationary frame; a movable frame slidably mounted in said stationary frame to slide longitudinally; means to move said movable frame into its operative position; means to lock said last means; means to release said last means; and means to return said movable frame to its inoperative position.

1,664,394. CATTLE YOKE. NICHOLAS J. BOOR, Claflin, Kans. Filed June 14, 1927. Serial No. 198,752. 8 Claims. (Cl. 119—140.)



1. In a device of the class described, a plurality of longitudinally extending rods adapted to be secured upon the head of an animal, levers pivotally mounted thereon and extending substantially at right angles to said rods and a hook movable into or out of engagement with a portion of the animal operatively connected with said levers.

1,664,395. GROUND SPEED METER. SAMUEL HERBERT ANDERSON, Seattle, Wash. Filed Jan. 26, 1923. Serial No. 615,130. 2 Claims. (Cl. 33—46.5.)



1. A ground speed indicator comprising a scale and mounting therefor, a revoluble cross hair gear device on said mounting, and a pointer gear device, on said mounting for cooperation with said scale, and an adjusting tangent screw means in mesh with both said gear devices, said scale including altitude and ground speed coordinates for variable settings of said pointer device.

1,664,396. SHEET WALL TILING. GEORGE L. BENNETT, Cleveland Heights, Ohio. Filed Mar. 24, 1926. Serial No. 96,917. 3 Claims. (Cl. 72—19.)



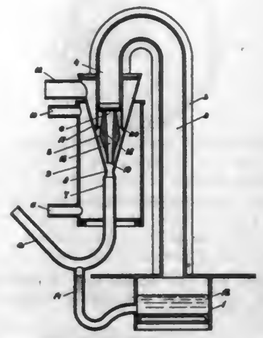
1. Sheet wall tiling having one face thereof decorated and having permanently secured to the opposite face thereof a plurality of fastening devices projecting at an abrupt angle from the face to which they are attached and being of a length to penetrate the structure of the wall of a building, and firmly secure said sheet in position thereon without the presence of visible securing means at the decorative face thereof.

1,664,397. LOST-BALL INDICATOR. SAMUEL J. BENS, New York, N. Y. Filed Feb. 14, 1925. Serial No. 9,348. 8 Claims. (Cl. 273—62.)



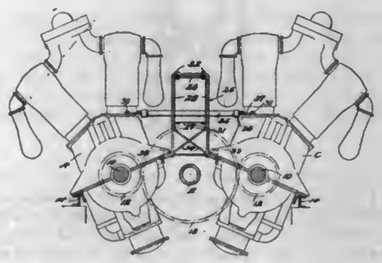
1. In combination, a golf ball and a substance applied thereto capable of producing a visible vapor.

1,664,398. VACUUM PUMP. CORNELIS BOL, Eindhoven, Netherlands, assignor to N. V. Philip's Gloeilampenfabrieken, Eindhoven, Netherlands. Filed Nov. 11, 1924, Serial No. 749,199, and in the Netherlands May 5, 1924. 5 Claims. (Cl. 230—101.)



1. A metal vapour jet comprising in combination a central jet and at least one removable member forming one or more annular jet tubes with said jet, a partition, and apertures in said partition by means of which the stream of metal vapour through said annular tubes is regulated.

1,664,399. MULTIPLE-ENGINE DRIVE GEAR. ELLSWORTH BROWN, Dayton, Ohio, and CHARLES P. BREESE, Norfolk, Va. Filed Aug. 7, 1923. Serial No. 656,248. 2 Claims. (Cl. 60—97.)



1. A multiple engine drive gear embodying, in combination, a driven shaft, engines arranged in pairs in tandem on each side of the driven shaft, each pair consisting of a right hand and left hand engine the corresponding ends of which face each other, transmission gearing between said pairs of engines and the driven shaft, and transverse tie braces connecting the engines at opposite sides of the driven shaft and longitudinally extensible to properly line up the shafts of each pair of engines and render them parallel to the driven shaft.

1,664,400. GOLF TEE. EARL F. COPP, Montclair, N. J. Filed July 13, 1927. Serial No. 205,339. 1 Claim. (Cl. 273—33.)

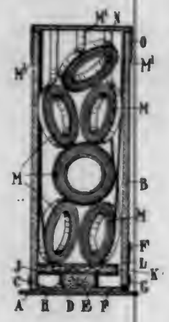
A golf tee comprising a single piece of thin flat strip metal having a straight driving shank, an elbow angled away from the upper end of the straight shank and a head reversely bent from said elbow over the top of the

shank and provided with a spherical depression therein, said depression extending to substantially the upper end of the elbow to reinforce the head and its connection



with the elbow and the under side of said cupped head forming with the elbow an acutely angled finger gripping pocket.

1,664,401. TOY BOMB OR PROJECTOR. ALFRED CRAIG, Mitcham, England, assignor to James Pain & Sons Limited, London, England, an English Limited Liability Company. Filed Feb. 16, 1927. Serial No. 168,788, and in Great Britain Nov. 17, 1926. 5 Claims. (Cl. 46—46.)



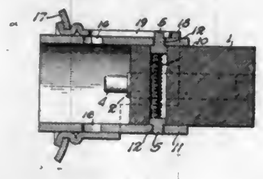
1. A toy bomb comprising a receptacle permanently secured to a suitable base, an explosive charge in the bottom of said receptacle, means for igniting said charge and a number of rolled streamers located in said receptacle above said explosive charge and having their free ends secured to the body of the receptacle so that upon explosion of the charge the said streamers are expelled from the mouth of the receptacle and due to their attachment thereto are caused to unroll and spread out in the air.

1,664,402. METHOD OF AND MEANS FOR DECORATING FISH LURES. CLARENCE L. DEWEY, Elkhart, Ind. Filed Nov. 4, 1925. Serial No. 66,704. 4 Claims. (Cl. 101—115.)



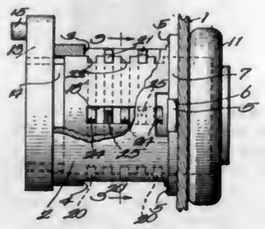
1. The method of decorating fish lures which includes shielding parts of the body of a lure; spraying the exposed parts thereof with a coloring liquid; shielding other parts of the body and some parts that have been previously colored; spraying all of the exposed parts with another distinctively colored liquid and removing the shield from the body.

1,664,403. CIRCUIT-CONTINUING DEVICE. HARRY A. DOUGLAS, Bronson, Mich. Filed Apr. 17, 1922. Serial No. 554,268. 1 Claim. (Cl. 173—328.)



A circuit continuing device including a hollow holder having a longitudinal slot in one side and cut away opposite said slot to provide a clear space; a shell received in said holder and having two opposite openings in register with said slot and clear space; a plug received in said shell and having an opening extending transversely therethrough and in register with the aforesaid slot, clear space, and the opposite openings in the shell, said opposite openings being narrower than the transverse openings in the plug; bended pins whose shanks pass through said opposite openings in the shell and whose heads are larger than these openings and engage the inner side of the shell; and a single spring received in said transverse opening and pressing outwardly upon said pins.

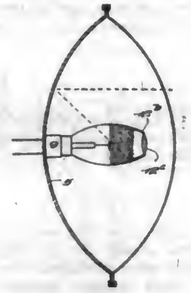
1,664,404. LOCK. HARRY A. DOUGLAS, Bronson, Mich. Filed Jan. 17, 1927. Serial No. 161,598. 6 Claims. (Cl. 70—46.)



1. A lock including a guard; two tumblers each formed of strip metal and movable into one position into engagement with the guard and into an alternative position out of such engagement and operable by a key into one of its positions; and a key receiving member, each of said tumblers having a spring tongue which engages said member and is pressed thereupon and toward the body of the tumbler when the tumbler is moved into one position by the key and serves to hold the tumbler in its other position upon removal of the key, said springs extending toward each other and crossing when each tumbler is in one of its alternative positions.

1,664,405. HEAD LAMP. FRANK G. ENGLE, New York, N. Y. Filed Apr. 8, 1925. Serial No. 21,711. 6 Claims. (Cl. 240—41.)

1. In a head lamp, the combination with a reflector of substantially parabolic form terminating substantially at the focal plane, of a lamp having its illuminating element in said focal plane and out of the focal point, and an internal reflector in reverse relation to the first reflector



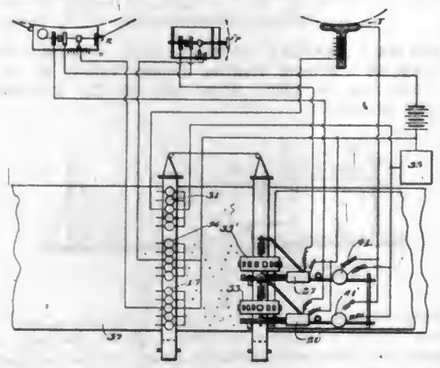
and being in the substantial form of part of a parabolic spindle whose axis intersects the said focal point and is substantially perpendicular to the focal plane.

1,664,406. SPEEDOMETER OF THE EDDY-CURRENT TYPE. WILHELM EARFURTH, Berlin, Germany, assignor to Deuta-Werke vormals Deutsche Tachometerwerke G. m. b. H., Berlin, Germany. Filed Mar. 11, 1925, Serial No. 14,851, and in Germany Mar. 29, 1924. 7 Claims. (Cl. 264—13.)



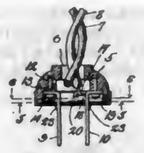
1. A magnetic speedometer comprising a flat disc-shaped magnet and having one pole thereof in the plane of the magnet; a pole shoe mounted on said magnet and forming the other pole thereof, the free end of the pole shoe being in a plane which is parallel to the plane of the magnet; and an armature for the poles which is adapted to be rotatably mounted in a plane which is parallel to and between the planes of the pole shoe and the magnet.

1,664,407. AUTOMATIC PULSE, RESPIRATION, AND TEMPERATURE RECORDER. JESSE EVERETT ESHBAUGH, Dayton, Ohio. Filed Mar. 18, 1924. Serial No. 700,092. 4 Claims. (Cl. 234—1.5.)



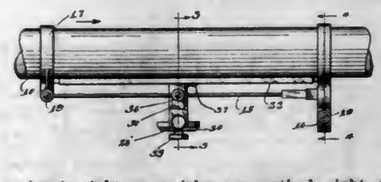
1. A respiration recording device comprising a tape to pass around a person's chest, a self-acting take-up for said tape to wind up and let out the tape in the respirations, a contactor movable by said tape the amplitude of the respirations, contacts in the path of movement of said contactor, a record, and electrically-sensitive recording means connected in circuit with said contacts to make a graphic reproduction of the respirations on said record.

1,664,408. ATTACHMENT PLUG. FRANK FOSTER FRAKES, Columbia, Tenn., assignor of one-half to Joseph M. Dedman, Columbia, Tenn. Filed May 31, 1927. Serial No. 195,311. 2 Claims. (Cl. 200—115.5.)



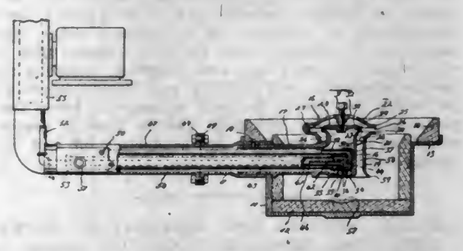
1. In an attachment plug, a head, contact arms extending from the head, contact members in circuit with the contact arms and spaced apart, a contact member spaced from the first mentioned contact member, wires leading to one of the first mentioned contact members and to the last mentioned contact member, a disk-like supporting member having openings to accommodate the contact arms, a fusible wire supported by the disk and adapted to complete a circuit between the last mentioned contact members and one of the first mentioned contact members, and said fusible wire adapted to break the circuit between the contact members in circuit therewith when a short circuit occurs.

1,664,409. BOMB SIGHT. GRANDISON GARDNER, Luke Field, Territory of Hawaii. Filed Mar. 29, 1924. Serial No. 702,882. 19 Claims. (Cl. 33—46.)



1. A bomb sight comprising an optical sight system carried by a moving body, a target reticle in said optical system and means to adjust the reticle in horizontal and vertical plane relative to said optical system, said means comprising universal joints attached thereto and co-acting therewith whereby the reticle is adjustable as described.

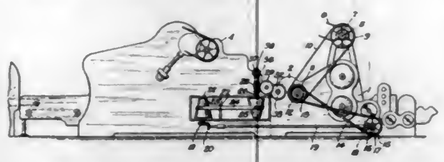
1,664,410. OIL BURNER. HAROLD A. GREENWALD and JOHN D. HOWE, Detroit, Mich., assignors to Whitehead & Kales, Detroit, Mich., a Corporation of Michigan. Filed June 1, 1926. Serial No. 112,967. 5 Claims. (Cl. 158—92.)



1. In an oil burner, a chambered member connected to a source of air supply and provided with an ejector nozzle, a casing surrounding said member in spaced relation and provided with an ejector nozzle in substantial alignment with said first mentioned nozzle, a fuel oil pool beneath said above mentioned members and means for supplying fuel oil thereto, said casing being open in the area of said

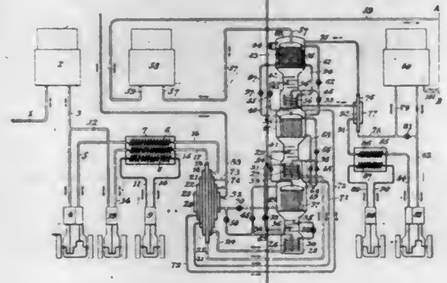
pool for conducting the vapors therefrom to a point adjacent said first mentioned ejector whereby said air and fuel vapors are mixed and ejected through said second mentioned ejector.

1,664,411. EVENER-MOTION-CONTROLLED COMBINED DRIVE BETWEEN FINISHING LAPPER AND HOPPER FEEDER. WILLIAM HARDMAN, Hamilton, Ontario, Canada. Filed Oct. 20, 1926. Serial No. 142,985. 9 Claims. (Cl. 19—68.)



1. In an evener motion controlled combined drive between finishing lapper and hopper feeder, the combination with the evener motion driven element, of means driven from the evener motion driven element for condensing the material fed from the hopper feeder to the finishing lapper and assisting in its positive conveyal.

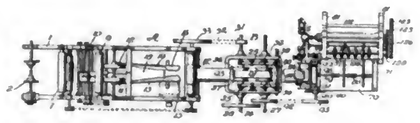
1,664,412. PRODUCTION OF HELIUM FROM NATURAL GAS. PIERRE E. HAYNES, Buffalo, N. Y., assignor to The Linde Air Products Company, a Corporation of Ohio. Filed Aug. 7, 1919. Serial No. 315,938. 6 Claims. (Cl. 183—115.)



1. In a process of obtaining helium from natural gas, compressing and cooling the gas, expanding the cooled compressed gas and thereby liquefying a substantial portion thereof, consisting principally of hydrocarbons; rectifying said liquefied portion to recover helium therefrom, and adding this helium to the residual expanded gas; subjecting the residual expanded gas to successively lower temperatures to condense its constituents other than helium in the order of their liquefying temperatures at the pressure to which they were expanded, collecting the liquids separately, and utilizing said liquids separately in cooling the gas to the said successively lower temperatures; whereby helium in gaseous form is concentrated as a final residue; and conducting off and collecting such final residue.

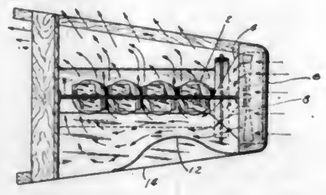
1,664,413. CUTTING AND PERFORATING MECHANISM. BERG HEINRICHS, Chicago, Ill., assignor to Mid-West Box Company, Anderson, Ind., a Corporation of Indiana. Original application field Jan. 9, 1922. Serial No. 527,819. Divided and this application filed Nov. 10, 1924. Serial No. 748,856. 9 Claims. (Cl. 164—61.)

9. In mechanism of the character described, the combination of cutting mechanism, feeding mechanism for longitudinally feeding a band through said cutting mechanism, said cutting mechanism being adapted to periodically cut said band so as to form lengths, a table for receiving said lengths, conveyor mechanism traveling laterally from said table, means for shifting the severed



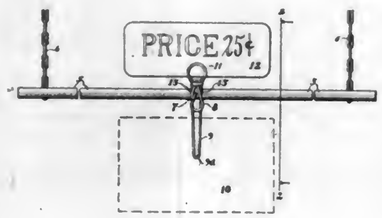
lengths on said table into alignment relative to said conveyor mechanism, means for yieldingly holding said lengths on the table after alignment thereof, spring fingers for holding said lengths against said conveyor mechanism, and means in the path of said conveyor mechanism for transversely perforating said lengths.

1,664,414. AIR-COOLING INTERNAL-COMBUSTION ENGINE. SAM D. HERON, Dayton, Ohio. Filed Nov. 11, 1922. Serial No. 600,309. 2 Claims. (Cl. 123—171.)



1. In a cooling system for internal combustion engines having a plurality of cylinders, a hood surrounding said engine, means at the forward end of said hood for inducing a flow of cooling medium into said hood, baffle means on one side of said hood adapted to guide said cooling medium to the opposite side of said hood, and a substantially arcuate shaped baffle plate positioned laterally of said second named side of said hood for guiding the flow of cooling medium tangentially past said cylinders.

1,664,415. DISPLAY DEVICE FOR GOODS AND PRICES. EUGENE HERZOG, Golden Valley, N. Dak. Filed Aug. 19, 1926. Serial No. 130,178. 2 Claims. (Cl. 24—73.)



1. In a price tag and goods holder of the class described a vertically disposed single wire device comprising a coil spring top part, clamping jaws formed below said top and directed downwardly and arranged to be spread in a plane at right angles to said coiled top and to spread the coils of the latter when said jaws

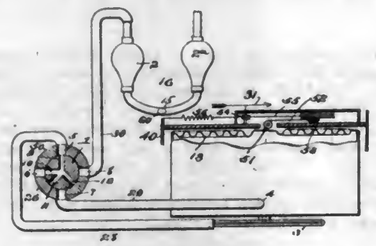
are spread, said jaws formed of two arms of said wire coil extended downwardly to the terminus of each arm thence upwardly and directed horizontally past the opposite jaw to form a shoulder, and thence downwardly to form a presser arm each arranged just below said top coil and adjacent the upper part of the adjacent clamp arm.

1,664,416. LIQUID-LEVEL INDICATOR. WILLIAM F. HOHORST, Monrovia, Calif. Filed Aug. 28, 1924. Serial No. 734,782. 2 Claims. (Cl. 73—82.)



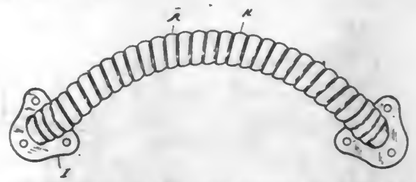
1. In combination with a tank and a spring pressed gage indicator mounted on said tank, a roller float within said tank having winding drums, two of large and one of smaller diameter, winding leads two severally attached to the two large drums and both attached to the bottom of said tank and another lead attached to the smaller drum and to said gage indicator to actuate said gage indicator.

1,664,417. COMBINED STATOSCOPE AND RATE-OF-CLIMB INDICATOR. FRANKLIN L. HUNT and ATHERTON H. MEARS, Washington, D. C. Filed Nov. 11, 1922. Serial No. 600,467. 3 Claims. (Cl. 264—1.)



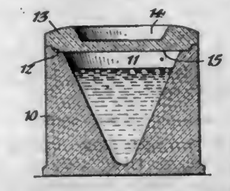
1. In a combined statoscope and rate-of-climb meter, the combination of a pressure responsive device comprising a container and a diaphragm, an indicating means operatively connected to said diaphragm, a leakage device comprising a capillary tube connecting said container to the atmosphere, a flexible sealing means connected to said container adapted to seal the container against differential pressure up to a certain degree, and a two-way valve interposed between the container and said leakage and flexible sealing devices in such manner that the container is operatively connected to only one of said devices at a time.

1,664,418. FLEXIBLE ROBE RAIL. JOSEPH H. HUNTER, Detroit, Mich., assignor to Detroit Insulated Wire Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 20, 1925. Serial No. 24,635. 1 Claim. (Cl. 211—16.)



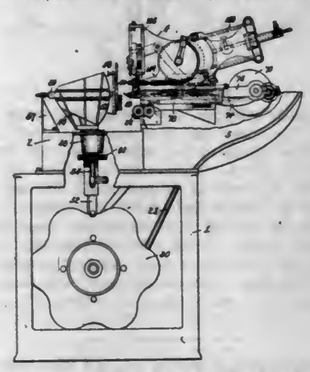
In a supporting hanger, the combination with an anchor member comprising a base adapted to be secured to the back of an automobile seat and a tubular interiorly corrugated portion projecting outwardly from said base, of a corrugated flexible metallic tube, the corrugations of which are adapted to threadedly engage the corrugations of the tubular portion.

1,664,419. DENTAL ACID CONTAINER. WILLIAM B. JACKMAN, Niagara Falls, N. Y. Filed Nov. 5, 1925. Serial No. 67,109. 1 Claim. (Cl. 215—1.)



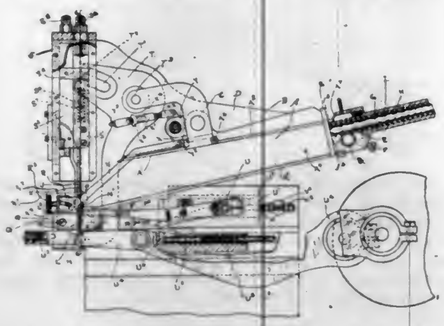
A dental acid dish, comprising a body having an acid-receiving cavity having a wide mouth, the side walls of the cavity converging downwardly substantially to a point to cause an article immersed in the acid to always seek a predetermined position at the junction of the cavity-walls, whereby the dentist is enabled to directly fish out the article being treated without having to search blindly over an extensive area.

1,664,420. BRUSH-MAKING MACHINE. CONRAD JOBST, Toledo, Ohio, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 19, 1921. Serial No. 438,391. 21 Claims. (Cl. 300—8.)



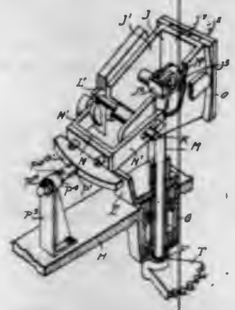
1. In a machine of the class described, a tuft placing nozzle, a tuft setting plunger, and mechanism operatively connected to impart relative movements to the nozzle and plunger and to cause an initial retracting movement of the nozzle while the plunger is completing its tuft setting movement.

1,664,421. TUFT-FORMING MECHANISM. CONRAD JOBST, Toledo, Ohio, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 7, 1922. Serial No. 527,589. 22 Claims. (Cl. 300—7.)



1. In a brush machine, a magazine for the bristles having a longitudinally extending wall and a movable wall inclined thereto forming a tapering end portion, a yieldably pressed follower for feeding the bristles toward the tapering end portion, and means for oscillating said inclined wall in a direction longitudinally of said magazine to effect alternate expansion and compression of the bristles whereby the feeding of the same into the tapering portion is facilitated.

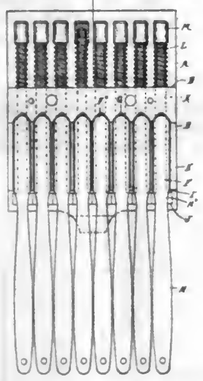
1,664,422. WORK HOLDER FOR BRUSH MACHINES. CONRAD JOBST, Toledo, Ohio, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 7, 1922. Serial No. 527,591. 12 Claims. (Cl. 300—11.)



1. In a brush machine, the combination with a reciprocable tool for operating on a brush back, of a frame, a work holder mounted on said frame for oscillating movements about two transverse axes and for sliding movement in the line of reciprocation of said tool, a cam carried by said work holder and adapted to move therewith about one of said transverse axes, said cam being spaced farther from said reciprocable tool than said transverse axes and a back bearing secured to said frame and engaging said movable cam, said back bearing being arranged in axial alignment with said reciprocable tool.

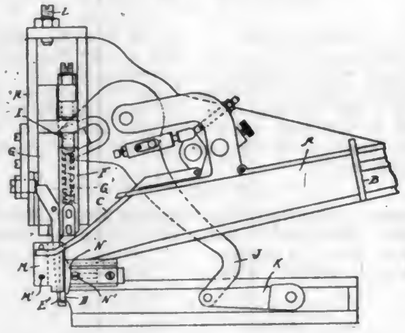
1,664,423. MULTIPLE WORK CLAMP FOR BRUSH MACHINES. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed May 14, 1923. Serial No. 638,908. 10 Claims. (Cl. 300—10.)

1. In a brush making machine, a holder for the brush back of the type provided with an integral handle having a contracted portion, comprising a fixed abutment for engaging the end of said brush back, a bifurcated abutment for engaging the contracted portion of said handle



and yieldable in the lengthwise direction of the brush back, and resilient means for urging said yieldable abutment toward said fixed abutment.

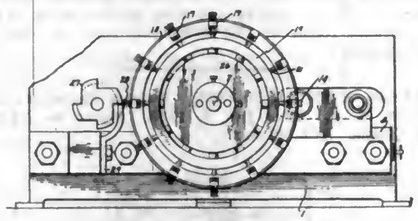
1,664,424. TUFT-SEPARATING MECHANISM FOR BRUSH MACHINES. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 1, 1924, Serial No. 703,374. Renewed Nov. 12, 1927. 4 Claims. (Cl. 300—7.)



1. The combination with a bristle holding magazine and means for yieldably advancing the mass of bristles therein, of a pair of cooperating needles reciprocating across said magazine, said needles forming there between, while in registration with said magazine, an open pocket, and means for moving said needles relative to each other while in registration with the magazine to alternately expand and contract the width of said pocket to successively receive bristles from the mass, compress the same and eject the surplus.

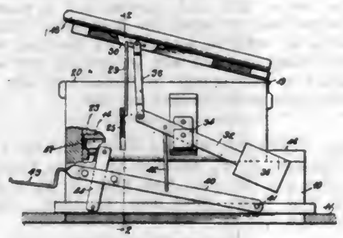
1,664,425. CONTINUOUS TRIMMER FOR BRUSH MACHINES. CONRAD JOBST, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 19, 1925. Serial No. 10,288. 3 Claims. (Cl. 300—17.)

1. The combination with a trimmer, of a rotary cylindrical work carrier having a series of grooves on the periphery thereof extending transversely to the direction of rotation and adapted for receiving brush backs inserted endwise therein, shoulders on opposite sides of said grooves for limiting the radially outward movement of said brush backs and providing a space therebetween for the outward passage of the bristles, a spring pressed follower in each transverse groove yieldable radially in-



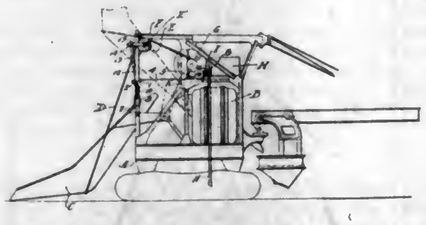
ward for the insertion of the brush back, and means arranged to bear on those followers of said carrier which are passing said trimmer to hold said brush backs firmly clamped.

1,664,426. AUTOMATIC PRIVY-VAULT COVER. JOHN D. LANG, Aulander, N. C. Filed Aug. 9, 1927. Serial No. 211,697. 3 Claims. (Cl. 4—144.)



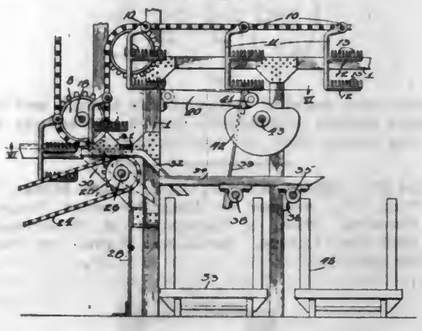
1. A vault cover comprising in combination, a frame having internal shoulders below its upper edges, a seat hinged to the frame, a pair of upwardly opening covers hinged to the interior of said frame above said shoulders and adapted to open upwardly under said seat and when closed to engage said shoulders and cover the vault opening, levers secured to said covers and having free ends projecting through openings in the frame, links connecting the ends of said levers to said seat, an arm pivotally mounted upon one side of the frame, means to urge said arm upwardly at its forward end to normally hold the seat in elevated position and the covers in closed position and cause depression of the seat to automatically open said covers.

1,664,427. VALVE-ACTUATING MECHANISM FOR CONCRETE MIXERS. ANDREW A. MCCREE, St. Paul, Minn. Filed Apr. 30, 1926. Serial No. 105,847. 17 Claims. (Cl. 83—73.)



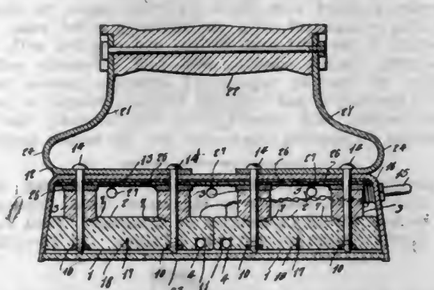
1. In concrete mixing apparatus, the combination with a valve device and mixer charging means, of an operating connection between said device and charging means and arranged to be actuated upon successive charging movements only of said means.

1,664,428. PICKLING MACHINE. CONSTANTINE G. MILLER and CHARLES F. CLEVELAND, Chicago, Ill., assignors to The Menker Co., a Corporation of Illinois. Original application filed Aug. 22, 1925, Serial No. 51,726. Divided and this application filed Oct. 28, 1926. Serial No. 114,663. 9 Claims. (Cl. 198—156.)



1. In an automatic pickling machine of the class described, the combination with a framework, article carrying means movably mounted thereon, mechanisms for operating said article carrying means, a stationary platform positioned to permit said article carrying means to pass therethrough to permit articles thereon to be deposited on said platform, and rotatable means operating through said platform adapted to discharge the articles therefrom.

1,664,429. ELECTRIC PAINT REMOVER. WILLIAM MULTHAUP, Winona, Minn. Filed Mar. 29, 1927. Serial No. 179,308. 1 Claim. (Cl. 219—30.)

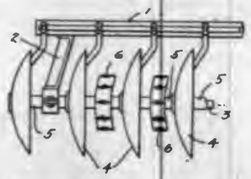


In a device of the character specified, a hollow shell or casing, porcelain heating unit retainers mounted therein, said retainers provided in their outer or front faces with reversely extending grooves, coil wire heating units arranged in said grooves, spacing posts arranged with their inner ends bearing against the back walls of said retainers, asbestos strips fitting against the back wall of the shell or casing, washers interposed between the asbestos strips and spacing posts, handle brackets, fastening bolts extending through the inner ends of the handle brackets, the asbestos strips, the washers, spacing posts and heating unit retainers, and electrical connections used in association with said heating units.

1,664,430. DISK-HARROW ATTACHMENT. HENRY J. O'NEIL, Tampico, Ill. Filed Sept. 8, 1925. Serial No. 55,074. 1 Claim. (Cl. 97—220.)

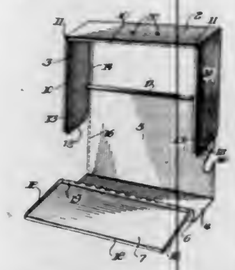
A device of the class described, comprising a star-shaped wheel formed of two similar sections, provided with complementary recesses adapted to receive the shaft

of a disk harrow, two oppositely disposed points of the wheel being split longitudinally and transversely of the



points, and fastening means passing through said split points adapted to detachably connect said sections with a disk harrow shaft, for rotation therewith.

1,664,431. METAL RECEPTACLE. SOREN RINGER, Oak Park, Ill., assignor to Ringer-Worcester Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 1, 1926. Serial No. 85,117. 14 Claims. (Cl. 220—1.)



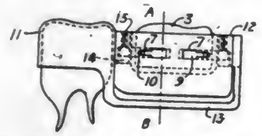
10. A receptacle comprising, a plurality of sections providing a top and ends, each section having an inwardly rolled edge at one side of the receptacle and each end section having a tongue at a lower edge thereof, a side section provided with outwardly rolled edges for interlocking engagement with the inwardly rolled edges of certain of the first said sections and provided with an inwardly flanged edge between said outwardly rolled edges for abutting engagement with the interior face of a top section, and a bottom section connected to said side section, said tongues being bent inwardly into a position for securing engagement with the bottom section.

1,664,432. CLAMPING LOCK. JULIUS RITTER, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed July 7, 1923. Serial No. 650,192. 2 Claims. (Cl. 70—115.)



1. A clamping lock, comprising an escutcheon plate having hook like shoulders and a locking recess, a hasp plate, a link hinged at one end to the hasp plate, and a hasp member hinged at one end to the free end of the link and having a U-shaped extension at its hinged end engageable with one of the hook like shoulders to clampingly draw the hasp plate toward the escutcheon plate when the hasp member is swung to locking position or engageable with the other hook like shoulder to separate the hasp plate from the escutcheon plate when the hasp member is swung away from its locking position, the said hasp member also having a locking portion which enters the locking recess of the escutcheon plate to lock the parts together.

1,664,433. DENTAL DEVICE. EUGENE SEABROOK, New York, N. Y. Filed Dec. 8, 1925. Serial No. 74,119. 3 Claims. (Cl. 32—12.)



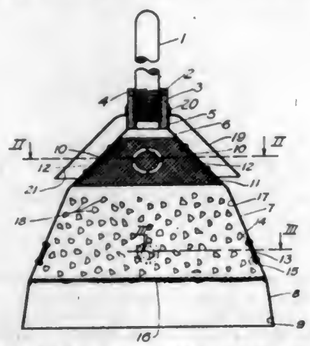
1. The combination of a denture provided with a mortise and with a slot, a plunger carried by said denture and slidable relatively thereto in order to be thrust into said mortise and withdrawn therefrom, a cushion carried by said denture and engaging said plunger in order to normally hold said plunger in the position into which it is thus thrust into said mortise, and a second denture provided with a tenon for detachably fitting into said mortise in order to hold the two dentures together, said tenon being provided with an opening for receiving said plunger as said plunger is thrust into said mortise while said tenon is within said mortise.

1,664,434. STAPLING MECHANISM. EDWARD P. SHELDON, Brooklyn, N. Y., assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 11, 1924. Serial No. 737,019. 20 Claims. (Cl. 1—7.)



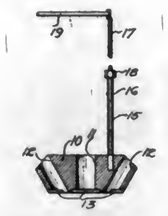
1. In a stapling mechanism, the combination of a rotary cylinder, a pair of heads on which the cylinder is secured at each end, shafts for the heads, staple wire supplies mounted on the shafts outside the heads, means for driving one of the heads, a staple forming and inserting mechanism mounted in the cylinder, sheet taking devices carried by the cylinder, and means for actuating the sheet taking devices.

1,664,435. WATER SOFTENER. HOWARD N. SMITH, Oak Park, Ill. Filed Mar. 3, 1927. Serial No. 172,267. 11 Claims. (Cl. 210—24.)



1. A water softener comprising a conical casing having a plurality of sets of openings, a main screen positioned transversely in said casing to retain a mineral therein, a handle in one end of said casing to permit operation of the same, and a hood engaged over one end of said casing and spaced therefrom.

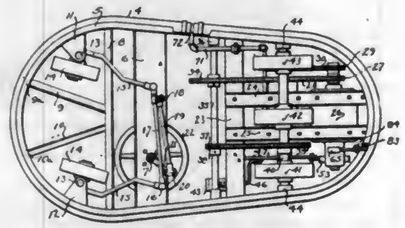
1,664,436. HOLDER FOR LONG-STEM FLOWERS. BEATRICE S. TONNESEN, Chicago, Ill. Filed June 16, 1924. Serial No. 720,182. 5 Claims. (Cl. 47—41.)



1. The combination of a heavy base having a central vertical aperture and a series of upwardly and outwardly inclined apertures spaced around the central aperture, with an upright frictionally and rigidly secured at its lower end to the base at a point offset with respect to the central aperture of said base, and a pair of resilient arms attached to the upper end of said upright.

3. In a device of the class described, a heavy base having passages therethrough and a square recess therein, a telescopic upright set in said recess, and resilient arms affixed to said upright and extending over said base.

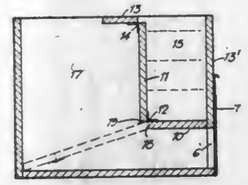
1,664,437. VEHICLE. AUREL VASZIN, Dayton, Ohio. Filed Oct. 31, 1925. Serial No. 65,951. 13 Claims. (Cl. 180—2.)



1. In a vehicle, a driving motor supplied with current, driving means for the vehicle driven by said motor, a switch for said motor, means to reverse the direction of said motor, a common means for operating said switch and said reverse means, adapted to be operated by the operator, and a floor operated member adapted to operate said switch independently, and means on the floor for operating said switch.

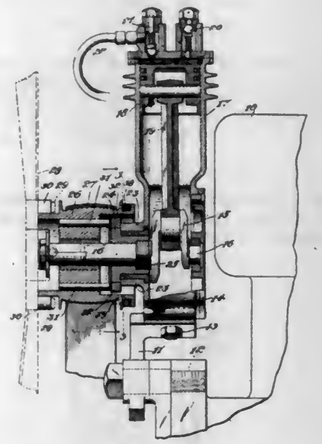
1,664,438. TRUCK BODY FOR DELIVERING ICE CREAM. JULIUS W. VETTER, Milwaukee, Wis. Filed Apr. 23, 1927. Serial No. 185,963. 7 Claims. (Cl. 296—24.)

1. A body for delivery trucks sub-divided into a plurality of compartments one of which is provided with a side opening and a door normally closing the same, in combination with a set of walls arranged to form a third compartment above the space within said door-way, said walls having hinged connection with each other, adapted to permit one of them to form a floor for the third compartment, and another to form an upwardly



projecting interior wall adapted to progressively swing inwardly in proportion to the withdrawal of material through said opening, thereby enlarging said third compartment.

1,664,439. CLUTCH. NICKOLAS VIEHMANN, Newark, N. J. Filed Jan. 27, 1925. Serial No. 5,115. 2 Claims. (Cl. 192—67.)

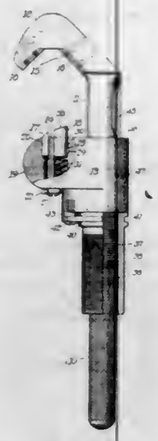


1. In a device of the kind described, a casing, a shaft rotatable in the casing and extending therefrom, a fan pulley freely rotatable and slidable longitudinally on the shaft the fan pulley forming one member of a clutch, a second member of the clutch being secured to the shaft, bearings on the casing, a handle adapted to swing between the bearings and having a hub with an inclined slot, a yoke engaging the pulley to slide it, a rod secured to the yoke and slidable in the hub and the bearings, and a pin on the rod and extending into the slot in the hub and co-acting means on the handle and the casing for locking the handle in normal position.

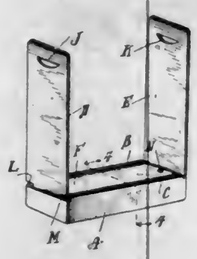
1,664,440. TOOL FOR TURNING CRANK PINS AND THE LIKE. FREDERICK G. WACKER, Chicago, Ill., assignor to Automotive Maintenance Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1924. Serial No. 738,737. 10 Claims. (Cl. 82—4.)

1. A hand-tool for truing crank pins and the like, comprising, in combination, a work-receptive jaw, and a tool carrying jaw in opposed relatively-movable relation, a

handle-formed shank fixed to one said jaw and guidingly engaging the other, relatively-movable jaw, means for adjusting the relatively-movable jaw along said shank and positioning it positively at desired distance from the shank-carried jaw, a wide turning-blade positively positioned in the tool-carrying jaw with its protruding cutting-edge toward the shank and workpressing means carried by the tool-carrying jaw between said blade and the shank and yieldable with respect to said jaw for engaging the work in advance of blade-engagement therewith.



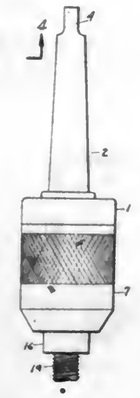
1,664,441. CIGARETTE-CASE ATTACHMENT. RUSSELL S. WEHLER, York, Pa. Filed Feb. 17, 1927. Serial No. 169,039. 4 Claims. (Cl. 206—38.)



... The combination with a cigarette case, a removable concealed compartment therefor, a sliding closure for said compartment, said closure having means to resiliently snap the same in place when in operative position, and means for withdrawing said compartment from the flexible case to obtain access thereto.

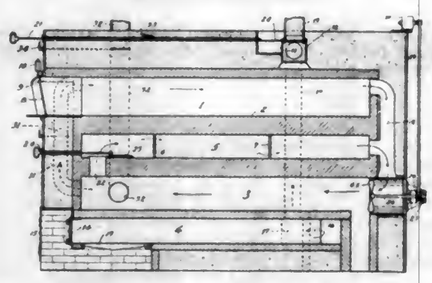
1,664,442. MECHANICAL STUD-DRIVING DEVICE. LOUIS A. WEIL and CHARLES F. WEIL, Detroit, Mich. Filed June 19, 1925. Serial No. 38,291. 5 Claims. (Cl. 81—53.)

1. A stud driver adapted to a power machine for setting threaded stud bolts into machine parts, comprising a cylindrical driving head, means for attaching the said driving head for the power spindle of an operating machine, a cylindrical casing attached to the driving head for retaining the working parts therein, helical cams formed on the end of the driving head, a threaded stud driving thimble mounted in the end of the cylindrical casing and projecting therefrom, a helical cam locking



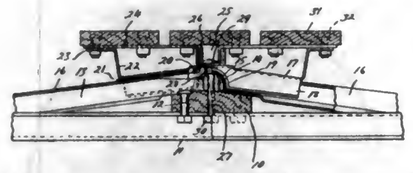
disc interposed between the end of the driving head and the driving thimble, and means for locking and driving a threaded stud therein.

1,664,443. OVEN. ROBERT W. WILLIAMS and HARRY R. WILLIAMS, Brooklyn, and IRWIN ELLIOTT, New York, N. Y., assignors to Williams Oven Manufacturing Company, a Corporation of New York. Filed Aug. 13, 1925. Serial No. 49,974. 5 Claims. (Cl. 107—55.)



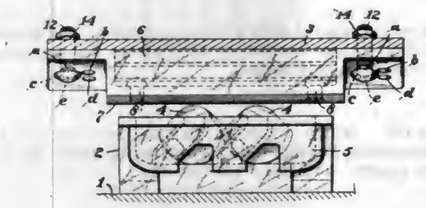
5. In a baker's oven, a structure having a baking chamber, a heating chamber, a heating flue extending through the floor of the baking chamber, a door for said baking chamber, a conduit connecting the heating chamber with the door end of said baking chamber, a valve to control said conduit, another conduit connecting the heating chamber with one end of the heating flue through the floor of the baking chamber, a valve to control the last named conduit, conduit means coanecting the rear end of the baking chamber and the corresponding end of the heating flue with the heating chamber, means associated with said conduit means for causing a circulation of air between said chambers through said conduits and conduit means, means for supplying heat to said heating chamber, whereby the proportions of hot air conducted from the heating chamber to either the flue or baking chamber may be selectively varied, and another valve controlled conduit connecting the heating chamber to the exterior of the structure, whereby when the baking chamber door is opened and the conduits connecting the heating chamber with the heating flue and baking chamber are closed, cold air may flow through the baking chamber to the heating chamber to cool the same to the desired extent.

1,664,444. SADDLE AND CENTER JOINT CAP. ALFRED R. WILSON, Detroit, Mich., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Delaware. Filed Apr. 5, 1926. Serial No. 99,948. 9 Claims. (Cl. 105—457.)



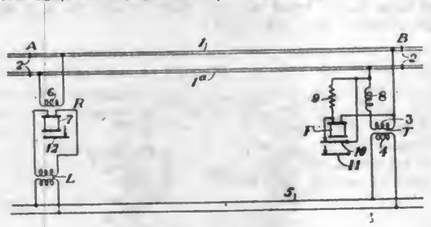
3. In a car roof, a ridge pole a center joint or junction cap, a saddle plate, said cap and plate being formed with engaging parallel portions and a saddle bolt riveted to the said parallel portions and securing said cap and plate to said ridge pole.

1,664,445. SIDE BEARING. WILLIAM E. WINE, Toledo, Ohio. Filed Feb. 23, 1927. Serial No. 170,389. 5 Claims. (Cl. 308—226.)



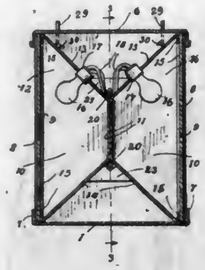
5. In combination with a body bolster having a sloping lower surface of a wedge shaped body side bearing having its lower surface horizontal and its top surface shaped to conform to the slope of said body bolster, said body side bearing being provided with ends having plane surfaces throughout their length and provided with holes, means for positioning the body side bearing along the said lower surface of said body bolster, said means incorporating members passing respectively through the holes at the ends of side bearings and the sloping part of the bolster and at right angles thereto.

1,664,446. RAILWAY-TRACK CIRCUIT APPARATUS. HENRY S. YOUNG, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1926. Serial No. 140,009. 10 Claims. (Cl. 246—34.)



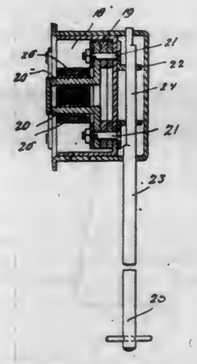
1. In combination, a section of railway track, a source of current connected across the rails of said section, a relay connected across the rails of said section through an impedance, and a shunt around said impedance including a front contact of said relay.

1,664,447. LANTERN. GEORGE E. ALLEN, Buffalo, N. Y. Filed Aug. 24, 1926. Serial No. 131,250. 4 Claims. (Cl. 240—11.)



1. A lantern comprising a casing open at opposite sides and having opposed side walls, transparencies closing the open sides of the casing, reflectors in said casing having contacting intermediate portions and portions diverging therefrom and engaging said transparencies, bracing means for the side walls of the casing extending between diverging portions of the reflectors above and below their contacting intermediate portions and engaging the adjacent inner ends of their diverging portions to retain the reflectors in place, and means for supporting illuminating means in the casing between the reflectors and transparencies.

1,664,448. LOUD-SPEAKER UNIT. PETER AMATO, Lynn, Mass. Filed May 5, 1926. Serial No. 106,912. 1 Claim. (Cl. 179—114.)

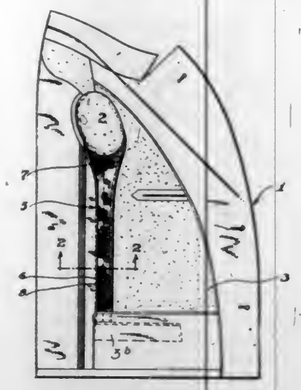


A sound reproducing unit, comprising a housing, a sound reproducing structure having a full floating mounting on said housing, a casing slidable in said housing, electromagnetic means mounted in the casing operably associated with the sound reproducing structure adapted to operate said structure for reproducing sound waves, and a rod member rotatably mounted in the housing and having an eccentric connection with said casing operable to slide the casing in the housing in the rotation thereof for varying the volume of sound reproduction of said unit.

1,664,449. COAT SHIELD. WILLIAM BLUMENTHAL, Philadelphia, Pa. Filed Dec. 4, 1926. Serial No. 152,624. 1 Claim. (Cl. 2—93.)

The combination with a cont, of a shield attached to the inside thereof underneath the arm pit, an outside pocket, said shield composed of a straight portion reach-

ing downward substantially on the level with the outside pocket, a widened portion at the top where it reaches the arm pit, one side of said shield sewed to the coat



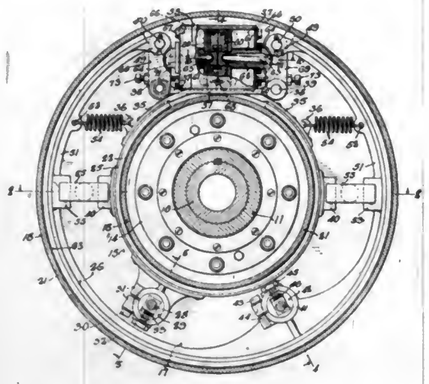
lining and the other side sewed to the body of the coat and a strip of binding sewed to the shield for reenforcing the edges.

1,664,450. FIRE EXTINGUISHER. GEORGE W. BURKE, Jr., Dayton, Ohio. Filed Mar. 29, 1923. Serial No. 628,490. 4 Claims. (Cl. 169—28.)

1. In a fire extinguisher, the combination of a barrel-like container for the fire extinguishing material, a pistol hand grip projecting from said barrel and formed with a cartridge chamber in communication with said barrel to receive a pressure generating cartridge, and cartridge-firing means including a trigger located adjacent to said hand grip.

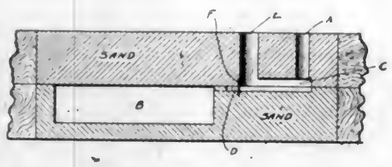
1,664,451. DUPLEX BRAKE. NIELS A. CHRISTENSEN, Milwaukee, Wis. Filed Feb. 10, 1925. Serial No. 10,287. 13 Claims. (Cl. 188—152.)

8. In brake mechanism of the character described, the combination of concentric brake drums constructed and arranged to form an annular space between oppositely disposed braking surfaces, a contracting type brake within said space engageable with the braking surface of small diameter, an expanding type brake within said space engageable with the braking surface of large diameter, levers operatively connecting the ends of said brakes whereby movement of said levers acts to apply both brakes, a fluid-pressure-operated motor having parts in thrusting engagement with said levers and operable



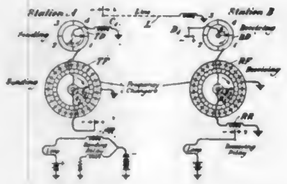
to move the same to make a brake application, and means including springs secured to both brakes for releasing the same from said drums.

1,664,452. MOLD. SAMUEL DANIELS and GEORGE J. HIMMELEIN, Dayton, Ohio. Filed Dec. 4, 1925. Serial No. 73,200. 6 Claims. (Cl. 22—134.)



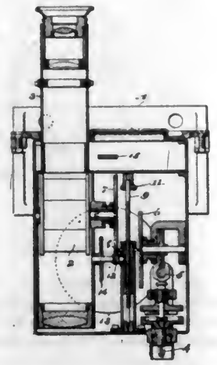
1. In a mold, a mold cavity proper, a pouring sprue, a passageway between the cavity and sprue, a fusible plate in said passageway and a skim-gate connected in said passageway between the plate and the sprue.

1,664,453. MANUAL MORSE MULTIPLEX SYSTEM. JOSEPH HERMAN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 13, 1923. Serial No. 668,383. 28 Claims. (Cl. 178—17.5.)



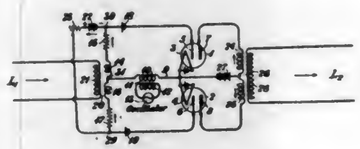
1. The method of signaling, which consists in transmitting direct current telegraph impulses of variable duration at a certain dot rate, and translating the impulses into impulses having substantially the same wave form but a higher dot rate without overlapping successions of impulses from the same circuit.

1,664,454. AIRCRAFT GROUND-SPEED INDICATOR. FRANKLIN L. HUNT and ROY C. SYLVANDER, Washington, D. C. Filed Oct. 19, 1923. Serial No. 669,618. 4 Claims. (Cl. 88—1.)



1. In combination with a viewing piece, a prism, means for rotating said prism in the field of said viewing piece to produce a substantially stationary field of view, and means to determine the speed of rotation of said prism, and means between the said prism and the said speed determining means shiftable in accordance with altitude to alter the indicated speed of the said prism.

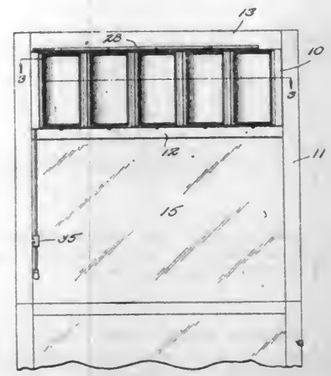
1,664,455. ELECTRICAL TRANSLATING CIRCUIT. ROBERT W. KING, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 4, 1922. Serial No. 526,924. 4 Claims. (Cl. 179—171.)



3. In a modulating system, the combination with a modulator having a plurality of vacuum tubes symmetrically disposed therein of a source of current to be modulated, means to apply like currents from said source to each of said vacuum tubes, a source of modulating current and a source of direct current potential common to the grids of the said tubes and connected unsymmetrically therewith to control the degree of modulation.

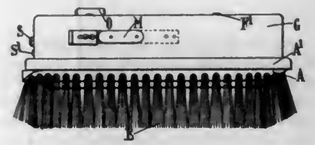
1,664,456. VENTILATOR. JOHN LINZ, Pittsburgh, Pa. Filed Apr. 12, 1927. Serial No. 183,128. 4 Claims. (Cl. 98—98.)

1. A ventilator comprising a casing open at its front and rear and having spaced arcuate slots in one of its horizontal walls, shutters mounted for pivotal movement between said walls concentric with said slots, a rod extending longitudinally of the casing, pins extending



through the arcuate slots and connecting the shutters and rod and means associated with the rod to move the latter longitudinally to adjust the shutters.

1,664,457. ELECTRICAL HAIR OR MASSAGE BRUSH. ALFRED LLOYD, London, England, assignor to Milan Francis Pratt, Rochester, N. Y. Filed Apr. 10, 1926, Serial No. 101,142, and in Great Britain Sept. 18, 1925. 2 Claims. (Cl. 174—173.)

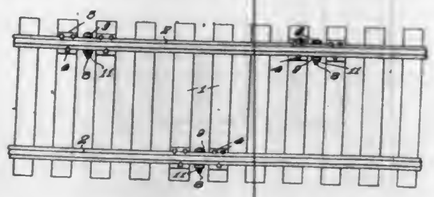


1. A "military" type hair brush comprising electrically conductive brisles, a battery mounted on the back of the brush towards one end thereof with one pole of said battery connected through a press contact switch to a detachable metallic cover for the back of the brush and the other pole in contact with a plate in circuit with an adjusting screw for a trembler make and break device, an induction coil mounted on the back of the brush with one pole of the primary winding connected to the armature of the make and break device and the other pole to the said metallic cover, a plurality of tappings from the secondary winding connected to a multiple-way switch with an operating handle projecting through the metallic cover and the latter being connected to the other end of the secondary winding of the induction coil so that in use the secondary circuit is completed through the metallic cover and the hand and body of the user.

1,664,458. ANCHOR PLATE. CRES MARKS, Corona, N. Mex. Filed Jan. 14, 1927. Serial No. 161,147. 1 Claim. (Cl. 238—289.)

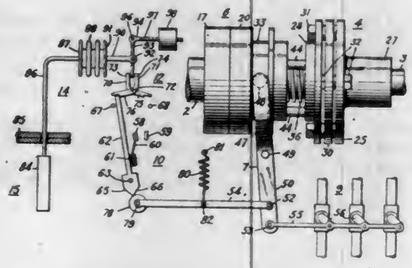
The combination with the rails of a railway track and ties on which the rails rest, of plates of a length to rest on two of such ties and to receive the rails thereon, spikes passing through the plates and contacting with the base flanges of the rails, each of said plates having a central reduced portion of a width equaling that of

the base flange of the rail and said reduced portion having a transverse channel therethrough, a bolt seated in the channel and having rail engaging means on one



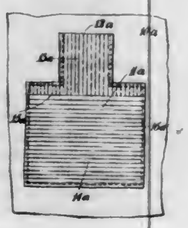
end thereof, and a nut screwed on the second end of the bolt to contact with the edge of the plate and with one edge of the base flange of the rail.

1,664,459. CONTROL MECHANISM. CHARLES THOMAS MASON, Sumter, S. C. Filed Mar. 28, 1922. Serial No. 547,594. 16 Claims. (Cl. 236—90.)



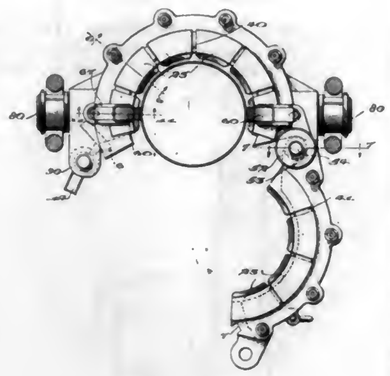
1. In a control mechanism, the combination with driving and driven members having a slip connection therebetween, of control means, means responsive to relative movement of the driving and driven members for actuating said control means to operative and inoperative positions, and automatically-releasable means for locking said control means in said positions.

1,664,460. POCKET CONSTRUCTION. FRED MAYER, Philadelphia, Pa. Filed Aug. 8, 1924. Serial No. 730,876. 3 Claims. (Cl. 2—247.)



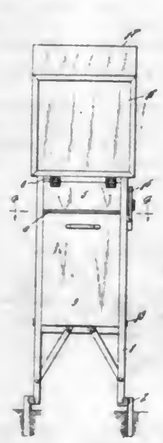
1. An article of wearing apparel comprising a main body portion, and a pocket-defining facing portion attached to said body portion, said pocket-defining facing portion having its open end of reduced size but of relatively great expansibility transversely as compared to the longitudinal expansibility of said open end, the remaining portion of said pocket-defining facing portion being of relatively slight expansibility transversely as compared to the longitudinal expansibility of said remaining portion.

1,664,461. CASING ELEVATOR. GUSTAVUS A. MONTGOMERY, Titusville, Pa. Filed Sept. 15, 1925. Serial No. 56,527. 24 Claims. (Cl. 294—102.)



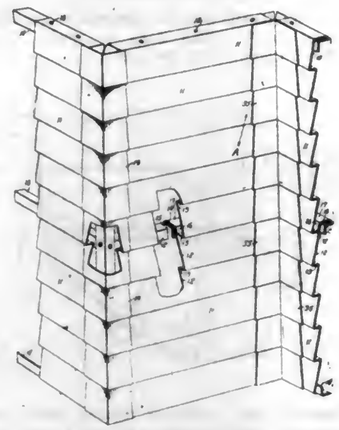
1. A casing elevator comprising a sectional body, slips mounted on the sections of the body, and a sectional carrier for controlling the position and movement of the slips in all positions of the sections of the body.

1,664,462. MAIL BOX. GOTTLIEB MUEHLEISEN, Alma, Wis., assignor to National Soil Conservation Company, Alma, Wis. Filed Apr. 4, 1924. Serial No. 704,216. 1 Claim. (Cl. 232—24.)



A structure of the class described, comprising a framework, a casing carried thereby, a horizontal partition in the casing dividing the same into a small upper compartment and a large lower compartment, a door for closing the upper compartment, said door being hinged at its upper edge and the door opening having inclined end walls which act to hold the door in a downwardly and outwardly sloping position, a tiltable member in the large compartment consisting of a bottom, a front and tapered sides, pivot pins carried by the member at the lower front corner thereof for engaging the lower walls of the casing and a stop on said member for limiting its outward movement.

1,664,463. METAL-BUILDING CONSTRUCTION. JOHN J. MURYN, Milwaukee, Wis. Filed Nov. 30, 1925. Serial No. 72,156. 9 Claims. (Cl. 189—86.)



4. In a building construction, the combination of metal sheets formed to present the appearance of weatherboards, and concealed connecting means between adjacent sheets to internally secure them to a frame at their juncture.

9. In a building structure having externally corrugated side walls, a corner closure therefor comprising a sheet metal structure having connected upright portions angularly disposed to fit the corner and extended over several corrugations of said side wall, each portion being corrugated to match said corrugations and to make face to face contact therewith throughout said corrugations.

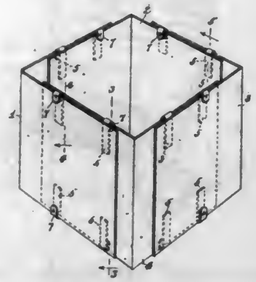
1,664,464. CANDY BOX. FREDERICK A. PURCHAS, McGraw, N. Y. Filed Dec. 3, 1926. Serial No. 152,471. 4 Claims. (Cl. 46—87.)



1. A box simulating a log cabin in appearance and including a body and a cover, the walls of said body comprising front, rear and end walls composed of superimposed logs, the logs at right angles to each other having interengagement, a catch supported by the body and adapted to engage the cover, and one of the logs of the box operatively engaging the catch and adapted to be moved to operate the catch.

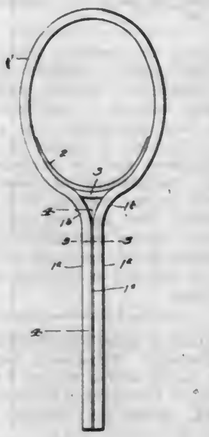
1,664,465. PARTITIONING DEVICE. FREDERICK A. PURCHAS, McGraw, N. Y. Filed Dec. 9, 1926. Serial No. 153,653. 1 Claim. (Cl. 45—7.)

A partitioning device of the character described, comprising a plurality of bendable sections, coupling devices on the respective sections adapted to engage other sections, said coupling devices comprising metal straps secured to the sections and having tongues overlapping



the edges of adjacent sections, and spurs on said tongues adapted to be projected into the material of the sections and hold the latter in their positions of adjustment.

1,664,466. TENNIS RACKET. MILTON B. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed July 12, 1927. Serial No. 205,115. 4 Claims. (Cl. 273—73.)

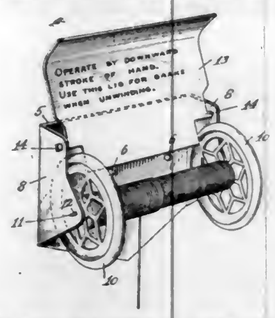


3. A tennis racket having a bow portion and integral handle portions, a substantially crescent shaped strip secured to the inner face of the bow and bridging the throat and leaving the throat open below the strip, a filler strip of softer material than the handle portions to opposite faces of which filler strip the handle portions are adhesively secured, the end of said filler strip forming a terminus for the open throat.

1,664,467. HOUSEHOLD TWINE REEL. HENRY O. ROESKE, Belfast, N. Y. Filed Apr. 28, 1927. Serial No. 187,143. 2 Claims. (Cl. 242—156.)

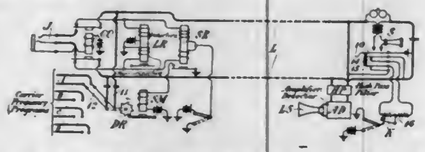
1. In a household twine-reel, a bracket-plate, a reel journalled therein and consisting of a shaft or drum provided with a pair of fly-wheels, one at each end, journals supported on the bracket, and a gravitating

brake-plate pivotally mounted on the bracket and resting gravitatingly upon the top edges of the fly-wheels, the



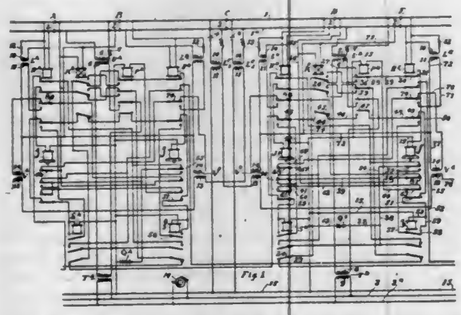
pivots for this brake-plate being so located that the plate may be swung upwardly and backwardly to a position to rest out of braking action.

1,664,468. PROGRAM-SELECTING CIRCUITS. MAURICE E. STRIEBY, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 10, 1923. Serial No. 679,722. 6 Claims. (Cl. 179—2.)



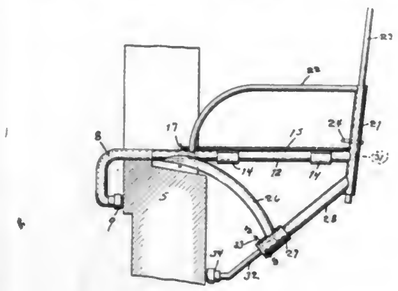
1. In a program transmitting system, a subscriber's telephone line terminating in subscriber's telephone apparatus at the subscriber's station, switching means at the central office whereby a connection may be established between said subscriber's line and another subscriber's line, a plurality of trunks at the central office upon which programs may be impressed, a directively operated switch independent of said first mentioned switching means at the central office for establishing connections between said line and any desired trunk to exclusion of other trunks, and means at the subscriber's station for controlling the operation of said switch over the two sides of the line in parallel with the receiver on the switch hook.

1,664,469. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 11, 1926. Serial No. 128,594. 9 Claims. (Cl. 246—34.)



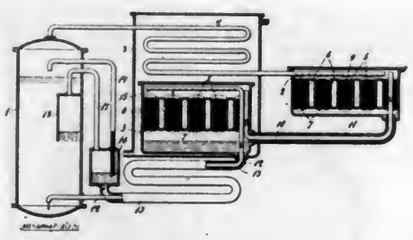
1. In combination with a section of railway track, a relay having its terminals connected with one end of one rail and with the other end of the other rail, respectively and a source of energy having its terminals connected with the free ends of such rails, respectively.

1,664,470. WINDOW SEAT. GEORGE J. TRIGONIS, San Francisco, Calif. Filed June 4, 1926. Serial No. 113,762. 1 Claim. (Cl. 304—27.)



In a window seat, a pair of tubular spaced members, hooked members slidably engaged in said tubular members, means for maintaining said hooked members in adjusted position, vertically disposed tubular members secured to said first mentioned tubular members, a U-shaped back rest, vertically adjustably held in said upright members, and legs slidably secured to said device, for the purpose specified.

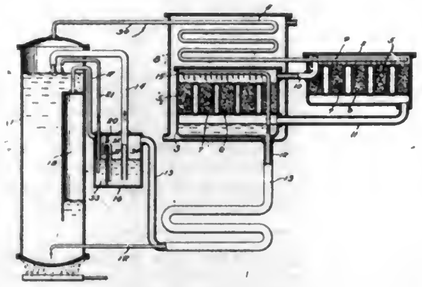
1,664,471. REFRIGERATION. BALTZAR CARL VON PLATEN, Ystad, and CARL GEORG MUNTERS, Dala-Jarna, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation, a Corporation of Delaware. Filed Mar. 6, 1924, Serial No. 697,418, and in Sweden Mar. 8, 1923. 23 Claims. (Cl. 62—118.)



1. That improvement in the art of refrigerating through the agency of an absorption system including a generator containing a first body of absorption liquid and an absorber containing a second body of absorption liquid which consists in forming a third body of absorption liquid, generating a gas pressure reacting against the first body, the second body and the third body and causing movement of said third body between the absorber and generator due to said gas pressure.

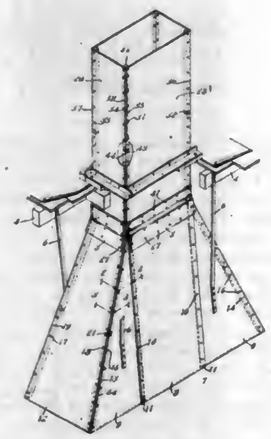
1,664,472. REFRIGERATING APPARATUS. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 6, 1924, Serial No. 697,418, and in Sweden Mar. 8, 1923. Divided and this application filed June 8, 1926. Serial No. 114,425. 9 Claims. (Cl. 62—119.)

1. Refrigerating apparatus comprising a generator, a condenser, an evaporator, an absorber, an upwardly extending riser conduit opening into said generator and arranged to communicate with the liquid space of the absorber, a second conduit connected to communicate with said generator and arranged so that pressure variations occurring within the same are transmitted to liquid in said riser conduit, means to form a pool of liquid in



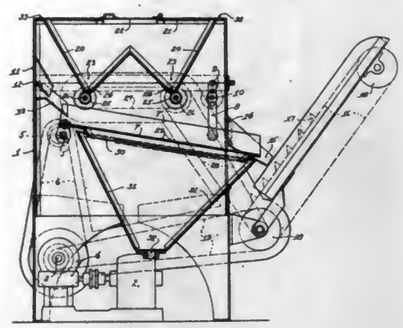
communication with said second conduit and means to apply an excess pressure to said pool and to liquid in said riser conduit to move liquid in the riser conduit into the generator, said means operating to move the liquid of said pool to uncover the end of said second conduit communicating therewith to equalize the excess pressure.

1,664,473. SMOKE JACK. SAMUEL A. WILLIAMS, Waukegan, Ill., assignor to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1925. Serial No. 6,596. 4 Claims. (Cl. 104—52.)



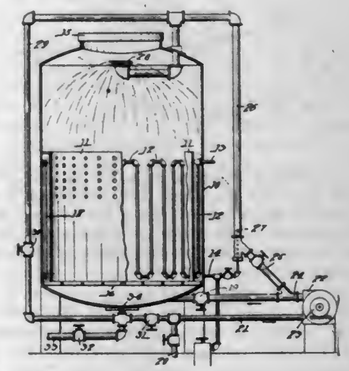
2. A smoke jack comprising walls of sheets of bonded asbestos angularly disposed and substantially meeting along their adjacent margins, corner members conforming to the angle thus defined, countersunk openings passing through the corner members in a plurality of directions, fastening means seated therein and joined to the marginal portions of the walls, and cementitious material covering said fastening means.

1,664,474. SALTING APPARATUS. DAVID R. BAILEY, Sacramento, Calif., assignor to California Almond Growers Exchange, San Francisco, Calif., a Corporation of California. Filed Sept. 27, 1924. Serial No. 740,321. 4 Claims. (Cl. 107—43.)



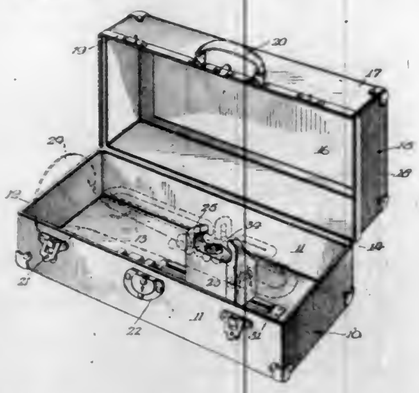
1. A salting apparatus comprising a reticulated salting tray receiving material to be salted at one end and fed by the motion of the tray to the opposite end, a salt hopper having a plurality of discharge outlets spaced apart for discharging salt onto the material fed over the tray at successive points, means for reciprocating the tray and means for discharging the salt from said outlets.

1,664,475. KIER. JOSEPH CYRUS BONNEAU, Webster, Mass. Filed Mar. 16, 1927. Serial No. 175,848. 3 Claims. (Cl. 8—18.)



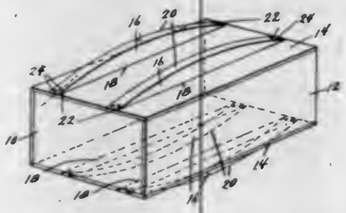
1. In a kier, the combination with a tank, of a grating across the bottom thereof to support the goods and permit circulation of liquid therethrough, a perforated partition spaced from the wall of the tank extending upwardly from said grating, steam coils in the space between the tank wall and the partition, means for spraying liquid in the top of the tank above the space within said partition, means for introducing liquid into the bottom of the tank below the partition, piping for introducing the liquid into said spraying means at the top, and means whereby the exhaust steam from said coils is introduced into the last-named piping to heat the liquid and assist its flow.

1,664,476. CASE FOR MUSICAL INSTRUMENTS. AMBROSE C. GEIB, Chicago, Ill., assignor to Geib & Schaefer Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1926. Serial No. 91,906. 5 Claims. (Cl. 206—13.)



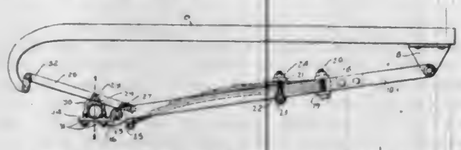
1. The combination with a case for a musical instrument comprising a body-section and a cover-section hinged together, of a block provided with means for retaining the instrument, means to slidably connect the block to a wall of the case, and means to clamp the block in an assigned position.

1,664,477. SHIPPING CASE. JOHN B. HUNZELMAN, Somerville, Mass., assignor to Wm. F. Schrafft & Sons Corp., Boston, Mass., a Corporation of Massachusetts. Filed June 26, 1925. Serial No. 39,839. 7 Claims. (Cl. 217—5.)



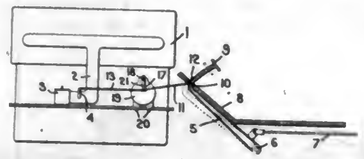
1. A rectangular shipping case having flat side and end walls and straight edges and having at least one of its long side walls formed with a flat internal face and an outer supporting-face which is convex along its length only and is co-extensive with the length of the side wall between two of the straight edges.

1,664,478. SPRING SUSPENSION FOR VEHICLES. JAMES A. LUKE, deceased, Cleveland, Ohio, by Howard J. Luke, administrator, Cleveland, Ohio. Filed Aug. 5, 1927. Serial No. 210,887. 9 Claims. (Cl. 267—19.)



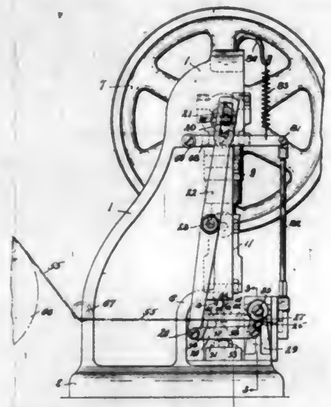
1. The combination with a body frame and axle, of a thrust frame pivotally connected between the body frame and the axle, a spring fixed to the thrust frame, and a lever and link connection between the body frame and the spring, the lever being fulcrumed upon the axle.

1,664,479. THROTTLE CONTROL FOR AUTOMOBILES. EMROE A. MACKEAN, Saugus, Mass. Filed Sept. 30, 1927. Serial No. 223,179. 4 Claims. (Cl. 192—3.)



2. In an automobile, the combination with a foot brake pedal, of a throttle-controlling member, a connection between said member and pedals which will transmit gentle movement from the pedal to the controlling member but which is disruptable under heavy strain, an inertia device associated with said connection and which interposes sufficient resistance to a sudden movement of the pedal to cause said connection to be disrupted.

1,664,480. MANUFACTURE OF PRIMER ANVILS. JAMES A. MURPHY, Lowell, Mass., assignor to United States Cartridge Co., Lowell, Mass., a Corporation of Massachusetts. Filed July 27, 1923. Serial No. 654,171. 19 Claims. (Cl. 29—34.)



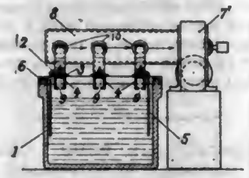
1. A machine for making primer anvils comprising means for advancing a sheet of metal therethrough, means for shaping a portion of said sheet into a hollow cone, the outer and inner surfaces of which having different conical angles, and means for cutting the portion so shaped from the metal sheet.

10. A machine for making primer anvils comprising a punch with an ovoido-conical point and an annular shoulder at its base, a die block having in registry with said punch a conical depression with a cylindrical surface at its base and apex, said punch and die block being adapted to press and shape between them a sheet of metal, and an extruding punch having an ovoido-conical point and an annular shoulder at its base, and adapted to register with a corresponding aperture in the die block and with a shaped portion of said metal sheet and to cut from the latter a right-cylindrical section with longitudinal grooves therein.

1,664,481. RUBBER VULCANIZATION ACCELERATOR. CLAYTON OLIN NORTH, Talmadge Township, Summit County, and WINFIELD SCOTT, Akron, Ohio, assignors to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Dec. 17, 1924. Serial No. 756,619. 12 Claims. (Cl. 18—53.)

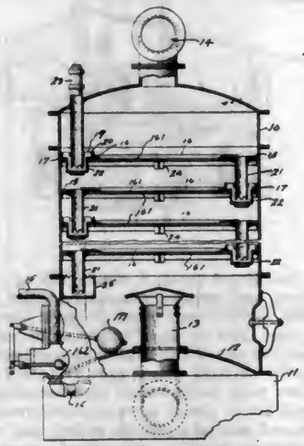
2. The process of manufacturing vulcanized rubber which comprises plasticizing rubber, adding thereto sulfur, and a small quantity of a compound formed by the reaction of hydrogen sulfid upon the ammonia addition product of a straight chain aldehyde and heating the mixture so formed.

1,664,482. WITHDRAWAL OF VAPORS AND GASES FROM GALVANOTECHNICAL TANKS. WILHELM ANTON FRANZ PFANHAUSER, Leipzig, Germany. Filed Dec. 16, 1925, Serial No. 75,824, and in Germany Mar. 18, 1925. 5 Claims. (Cl. 204—5.)



1. In an electrolytic apparatus in which deleterious vapors and gases are developed during the operation of the process practiced therein, means comprising hollow members arranged above the electrolyte and having apertures permitting the reception of said gases, and means for positively insuring the collection of the gases developed and rising from said apparatus in said pipes.

1,664,483. APPARATUS FOR ABSORBING FLUIDS FROM GASES. EMIL PIRON, New York, N. Y., assignor to Piron Coal Distillation Systems, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 30, 1921. Serial No. 504,505. 4 Claims. (Cl. 261—114.)

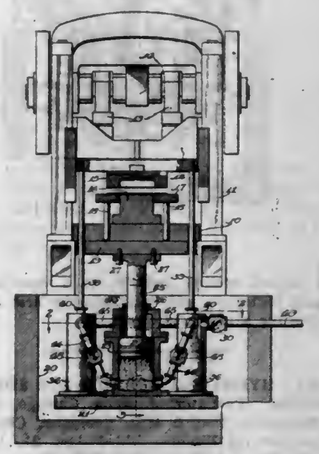


1. An absorption device comprising a horizontal foraminous member, a menstruum inlet at one side of said member and a menstruum outlet at the other side thereof, and guides between said inlet and said outlet arranged to divide the menstruum into a plurality of defined streams flowing across said member.

1,664,484. METHOD OF REMOVING TAR FROM GASES. EMIL PIRON, New York, N. Y., assignor to Piron Coal Distillation Systems, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 25, 1925. Serial No. 18,102. 2 Claims. (Cl. 23—3.)

1. In the art of wood distillation, the method of removing tar and tar-forming elements from distillation gases, which consists in washing said gases with a scrubbing medium having substantially no chemical action upon the tar constituents to remove the greater portion thereof, heating said gases, then scrubbing said gases with a sulphuric acid solution while maintaining the temperature of the gases during said scrubbing steps above the condensing point of the non-tar vapors, condensing the pyroligneous acid, heating a portion of the non-condensable gases formed and adding it to the gases prior to the scrubbing with sulphuric acid to constitute said heating step, said heating being sufficient in amount to keep the temperature during the step of scrubbing with sulphuric acid above the condensing point of the non-tar vapors.

1,664,485. HYDRAULIC CUSHION FOR SHEET-METAL PRESSES. FREDRICH J. RODE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1927. Serial No. 184,070. 14 Claims. (Cl. 267—1.)

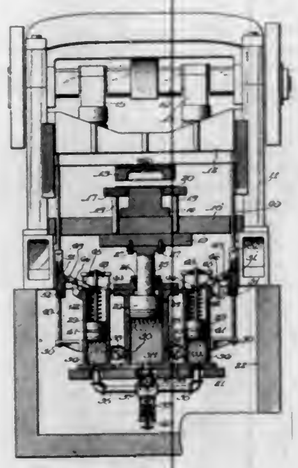


1. A sheet metal working machine embodying a work holding element, an hydraulic cushion for resisting the movement of said element in one direction, said cushion embodying cylinder and piston members one of which is acted upon by said element, a conduit for leading the liquid from one side to the other side of the piston, a valve for controlling the conduit, variable resistance pressure means acting upon the valve and against which pressure the valve is adapted to be opened by pressure upon the liquid by the movement of the said element, means for restoring the work holding element, the last said means embodying cylinder and piston members, means whereby the liquid will be forced from the first to the second said cylinder when the said valve is opened, and means for forcing the liquid from the second said cylinder back into the first said cylinder to thus restore the work holding element.

1,664,486. HYDRAULIC CUSHION FOR SHEET-METAL PRESSES. FREDRICH J. RODE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1927. Serial No. 185,489. 14 Claims. (Cl. 267—1.)

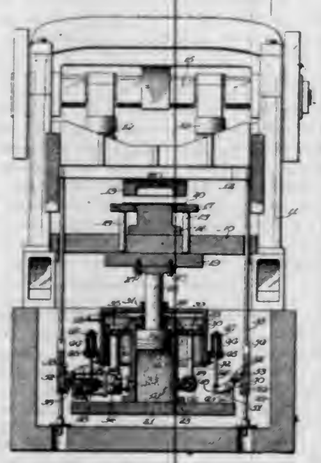
1. In a sheet metal press a pressure pad, an hydraulic cushion for resisting the movement of the pad in one direction and embodying cylinder and piston members one of which operates upon the pad, a second cylinder and piston members, a conduit for leading the liquid from the pressure side of the first said piston to the pressure side of the other piston, variable resistance means for controlling the conduit and operable upon by the liquid pressure to open the conduit, a conduit for leading the liquid back from the second to the first recited cylinder, a check

valve in the last said conduit, and means rendered active by a movable part of the press at a predetermined time in the cycle of operation of the press for moving the piston



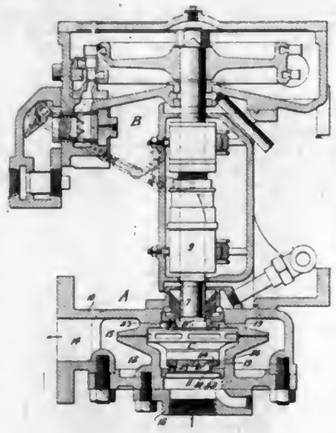
in the second recited cylinder in a direction to force the liquid therefrom and back into the first said cylinder to restore the said pressure pad.

1,664,487. HYDRAULIC CUSHION FOR SHEET-METAL PRESSES. FREDRICH J. ROSE, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1927. Serial No. 185,490. 14 Claims. (Cl. 267—1.)



1. In a sheet metal working press a pressure pad, an hydraulic cushion for resisting the movement of said pad in one direction and embodying cylinder and piston members one of which members operates upon the pad, an additional and movable cylinder, a stationary piston co-operating with the latter, a conduit for leading liquid from the pressure side of the first said piston between the said movable cylinder and stationary piston, variable resistance means for controlling, said conduit, a second conduit for leading the liquid from between the stationary piston and movable cylinder back to the pressure side of the first said piston to restore the latter, means for controlling the last said conduit, a normally inactive resilient element carried by the movable cylinder, a lever mounted upon a fixed pivot and operable upon said resilient element, and means connected with a movable part of the press for operating the lever at a predetermined time in the cycle of operation of the press to create energy in the said resilient element to restore the said movable cylinder.

1,664,488. CENTRIFUGAL PUMP. CHRISTOPHER A. SCHELLENS, Marblehead, Mass., assignor, by mesne assignments, to C-S Engineering Company, a Corporation of Delaware. Filed July 1, 1924. Serial No. 723,469. 9 Claims. (Cl. 103—88.)

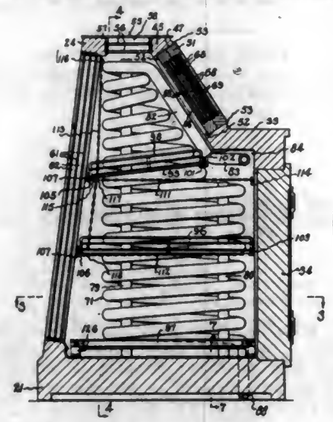


1. In a centrifugal pump, a runner having a plurality of axial inlet and radial discharge passages of quadrilateral cross section, two walls of each passage being formed through part of their length as helical portions and through the remainder as circular portions of spiral circumferential surfaces spaced radially from each other; the other two walls being formed from surfaces which at the inlet end are in planes spaced circumferentially from each other and are substantially radial, and which are warped therefrom helically into planes perpendicular to the axis and spaced axially from each other.

1,664,489. REFRIGERATOR DISPLAY CASE. GUSTAV SCHMIDT, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 30, 1927. Serial No. 243,559. 5 Claims. (Cl. 62—37.)

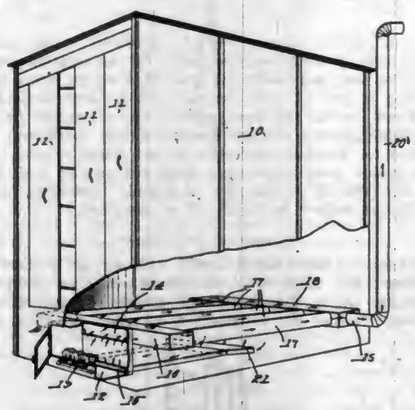
1. A refrigerator display case comprising a base arranged to be supported on the floor and posts extending upwardly from the front portion of said base for dividing the front portion of the case into display openings arranged side by side lengthwise of the case, the upper portion of the rear wall of the case sloping forwardly to form an interior of the case which contracts cross-sectionally at its upper portion, and refrigerating elements provided with contracting upper portions and arranged

crosswise of the interior of the case in rear of said posts respectively and extending into said contracting upper



portion of said interior for dividing said interior into display sections in rear of said respective display openings.

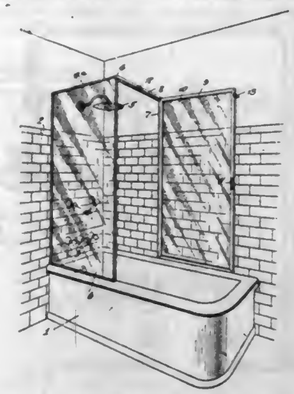
1,664,490. LAUNDRY DRIER. WILLIAM C. SCHRENKEISEN, Mount Vernon, N. Y., assignor to Hill Laundry Equipment Co., Inc., Long Island City, N. Y., a Corporation of New York. Filed June 14, 1926. Serial No. 115,850. 3 Claims. (Cl. 34—40.)



1. In a laundry drier, the combination with a gas heated fire box, cross ducts at the front and rear, into the front one of which the box delivers the fumes and a series of horizontal flues connecting the two ducts and conducting the fumes from one to the other, of a damp air intake having its inlet near the floor of the drier under the flues and conducting the damp air from the bottom of the drier near the center thereof into the fire box below the burners therein and below one of said cross ducts.

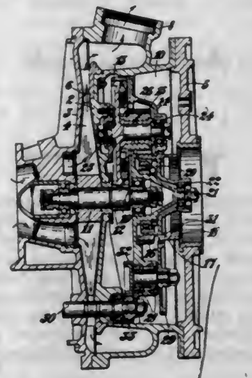
1,664,491. COMBINED SHOWER CABINET AND TUB. SAMUEL SIEGEL, New York, N. Y. Filed Feb. 16, 1925. Serial No. 9,393. Renewed Sept. 15, 1927. 5 Claims. (Cl. 4—146.)

1. A construction for bath rooms comprising a tub, a rigid shower cabinet superstructure provided upon one end portion of the tub and utilizing the tub as the drain pan therefor, a wall of the said superstructure extending across intermediate the ends of the tub to complete the shower bath cabinet and hingedly movable into



an open position in which it extends along a side of the tub so as to permit of the normal use of the tub for a tub bath.

1,664,492. INTERNAL-COMBUSTION ENGINE. FREDERICK ROBERTSON SMITH and SPIRITO MARIO VIALE, Coventry, England. Filed May 12, 1926, Serial No. 108,647, and in Great Britain May 16, 1925. 2 Claims. (Cl. 123—55.)

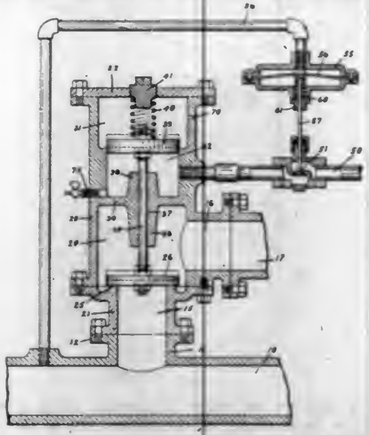


1. In an internal combustion engine having radial cylinders, the combination of a blower mounted coaxially with the engine crankshaft and attached to the crankcase, a casing enclosing said blower adjacent and attached to the crankcase, a recess in the side of said casing adjacent said crankcase, a detachable carrier plate within said recess, and transmission gearing for driving said blower supported by said plate, said transmission gearing being supported on spindles mounted in bearings in the casing on one end and in bearings in the carrier plate on the other end, substantially as set forth.

1,664,493. VALVE. HARRY F. SMITH, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 27, 1922. Serial No. 532,145. 5 Claims. (Cl. 137—53.)

3. A pressure relief valve comprising a casing, a valve member within said casing constructed to normally open under the influence of a predetermined pressure within the said casing, a spring cooperating with said valve for resisting opening movement of said valve member until a predetermined pressure has been reached, means actuated by the pressure within said valve casing for forcing said

valve from its seat when a definite pressure in excess of the said predetermined pressure has been reached, and



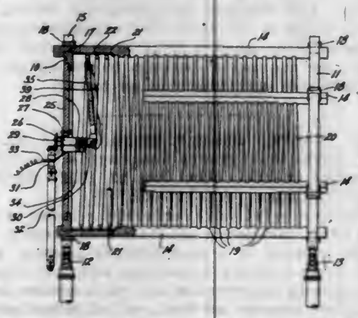
means for automatically rendering ineffective said forcing means when the valve member has been opened a predetermined distance.

1,664,494. RADIO APPARATUS. HARRY F. SMITH, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 30, 1927. Serial No. 179,575. 2 Claims. (Cl. 175—359.)



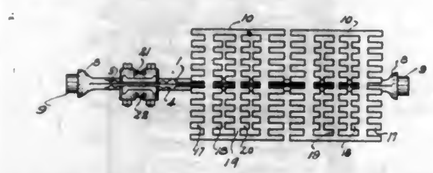
1. A radio apparatus of the class described comprising a coil of wire, a nonmagnetic secondary member extending longitudinally of said coil and formed of a number of separate spaced conductive discs having very short length in the direction of the coil axis and having high electrical conductivity in a direction transverse of the coil axis, said coil of wire being adapted to carry power currents and having very low inductance at commercial power frequencies and very high inductance at high frequencies.

1,664,495. VARIABLE-INDUCTANCE APPARATUS. HERBERT VADERSEN, Elizabeth, N. J., assignor to Western Electric Company, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1924. Serial No. 695,214. 6 Claims. (Cl. 171—242.)



1. In combination, a cylindrical coil comprising a helical conductor, a rotatable shaft positioned coincident with the axis of said coil, a support pivoted upon said shaft, a contact arm slidable in said support, and a contact wiper on said arm engaging said conductor.

1,664,496. GRATE BAR. CALVIN RETICUS WAID, Birmingham, Ala., assignor to W. C. Appleby, Birmingham, Ala. Filed Dec. 26, 1923. Serial No. 682,762. 11 Claims. (Cl. 126—176.)



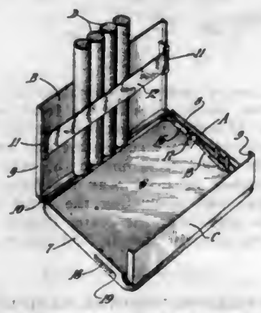
1. In a grate, an assembly bar having rocker trunnions, a plurality of duplicate grate segments having spaced supporting webs detachably mounted on said bar, and a shaker attachment clamped to the base of said bar between the supporting webs of said segments.

1,664,497. RUG AND STRAND THEREFOR. PHILIP C. WAITE, Oshkosh, Wis. Filed Mar. 11, 1927. Serial No. 174,503. 6 Claims. (Cl. 28—1.)



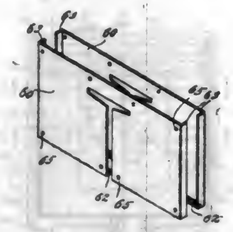
1 A rug strand composed of a plurality of flat braids both spirally coiled together with the convolutions lying flatwise over and under one another, each flat braid comprising a pair of core sections having yarns braided in and out around the core sections, and a central line of stitching passing through the alternately overlapped flat braids for holding the braids in flat coiled relation and the braids being alternately displayed on the same side of the strand as parallel diagonally extending uninterrupted stripes, substantially as described.

1,664,498. CIGARETTE CASE. FRANK E. WAKEFIELD, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Mar. 7, 1927. Serial No. 173,256. 3 Claims. (Cl. 206—41.)



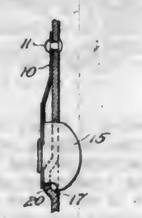
2. A case having marginal walls, a pair of covers hinged to opposite walls of the case and adapted conjointly to provide a closure therefor, means for removably supporting in one cover articles which are swung out of the case when both covers are opened, and latch means carried by the case for releasably holding either or both of the two covers in closed position upon the case, substantially as described.

1,664,499. BEAM HANGER. HUGH J. BAKER, Indianapolis, Ind. Filed July 12, 1926. Serial No. 121,782. 4 Claims. (189—35.)



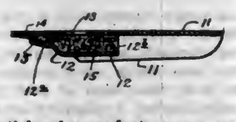
1. A bracket for supporting a joist from a girder, said joist having one or more longitudinal flanges, said bracket being formed of sheet metal and cut out to fit against one side and over the top of the girder, said bracket being provided with a seat adapted to receive and support the joist, the material of said bracket being bent along the outer vertical edge to form a flange, the flanges of said joist being notched for the reception of said bracket flange.

1,664,500. CATCH FOR CASES AND THE LIKE. GEORGE T. BATES, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Jan. 18, 1926. Serial No. 81,946. 1 Claim. (Cl. 292—87.)



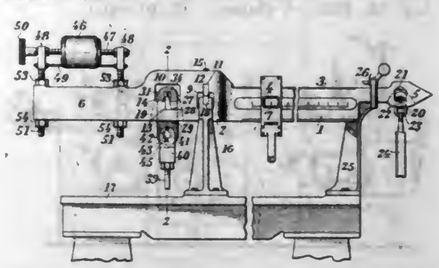
The combination with a case and cover therefor of a spring bar fastened at one end to a wall of the case, there being a finger catch extended from the bar to releasably hold the cover upon the case, a flat button connected to the bar at a point remote from its fastened end and extended through the case wall wherein is a closely surrounding aperture for this purpose, the case wall adjacent said aperture being inset at one point and the button having an overhanging shoulder adapted to engage with said inset wall portion when a push-in pressure is applied thereto, the button shoulder being normally substantially flush with the outer face of the case wall and serving as a stop, when engaged therewith, to limit further inward movement of the catch, substantially as described.

1,664,501. WRITING PEN. ISRAEL BENJAMINS, Brooklyn, N. Y. Filed June 10, 1926. Serial No. 115,040. 2 Claims. (Cl. 120—114.)



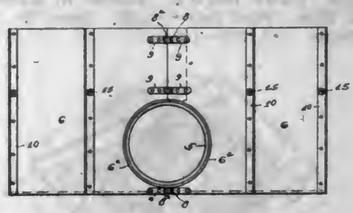
1. As an article of manufacture a removable pen point, comprising a main body, a bracket, secured thereto in a way to form an integral structure therewith, and absorbent material, supported by said bracket in contact with the underside of said pen point near the forward end thereof, said bracket and said pen point having therebetween an opening at the forward end thereof, to allow said material to absorb ink therethrough when said end is dipped into an inkwell.

1,664,502. WEIGH BEAM. ALFRED BOUSFIELD, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed Jan. 22, 1926. Serial No. 82,918. 2 Claims. (Cl. 265—49.)



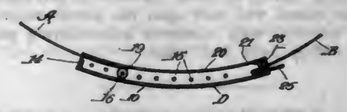
1. In combination, a weigh-beam having a T-shaped recess formed therein, comprising a rectangular opening extending laterally of said weigh-beam and a vertical slot arranged centrally of said weigh-beam and extending downwardly from said rectangular opening, a pivot in said rectangular opening and means for positively clamping said pivot in position.

1,664,503. BULKHEAD WALL FOR CULVERTS. CARL M. CORNELL, Buffalo, S. Dak., assignor of one-half to Wynn M. Bennett, Buffalo, S. Dak. Filed June 29, 1927. Serial No. 202,301. 6 Claims. (Cl. 61—16.)



1. A bulkhead wall of the character described made in two sections, each of said sections comprising a vertical wall portion and a floor portion, the confronting edges of said wall portion being complementally cut out to fit about a culvert pipe, means for drawing said sections toward each other to bind them upon a culvert pipe, and braces engaged with said floor portion and said wall portion.

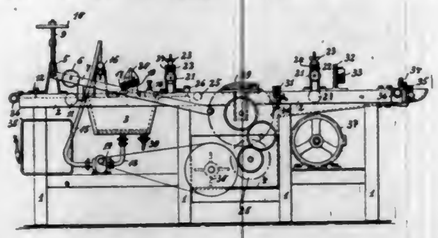
1,664,504. ADJUSTABLE BRACELET. SIDNEY C. EPPENSTEIN, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed June 9, 1927. Serial No. 197,659. 2 Claims. (Cl. 24—206.)



1. In combination with a pair of strap ends, a coupling member comprising a plate having spaced flanges each formed with a plurality of aligned openings, said coupling having slotted end walls extending between the flanges, one strap end extending through the slotted wall

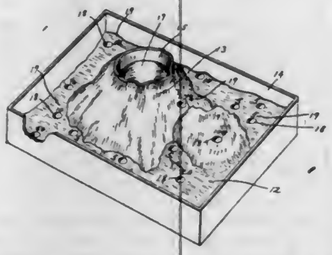
of one end of said coupling member and carrying a spring catch having oppositely extending trunnions receivable within any selected pair of said openings, and a spring catch extending longitudinally with the other strap end having means for detachably engaging the slotted end wall of the other end of said coupling member.

1,664,505. MACHINE FOR COATING OBJECTS. JOSEPH FRANZ, Berlin-Neutempelhof, Germany. Filed Nov. 18, 1926, Serial No. 149,104, and in Germany Aug. 12, 1925. 4 Claims. (Cl. 91—41.)



1. In a machine for coating objects such as boards with colour, paint or the like in combination a spring actuated adjustable roller driven by a motor and pressed against the top of the object to be treated, a colour trough in communication with a spraying device actuated by a pump, a second colour trough arranged longitudinally behind the first mentioned trough, a feed roller in said second trough, a rotary brush-roller, cooperating with said feed roller and adjustable brushes fixed to the machine and extending into the path of the object to be treated so as to contact with the lateral surfaces of the latter.

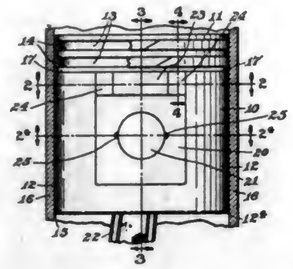
1,664,506. GAME DEVICE. ERNEST W. GATES, Needham, Mass. Filed July 1, 1927. Serial No. 202,944. 4 Claims. (Cl. 273—119.)



1. A game device comprising a bed having a diversified surface including a protuberance simulating a volcanic mountain, an upstanding curb surrounding the bed, the summit of the protuberance being provided with an upwardly opening recess surrounded by a wall which simulates a crater, a plurality of loose balls adapted to be assembled in the recess, and a ball-supporting plunger formed to support said balls within the recess, and movable vertically therein to cause the balls to roll outwardly over the recess wall and upon the protuberance, the bed being provided with numbered ball-receiving pockets in which rolling balls may lodge.

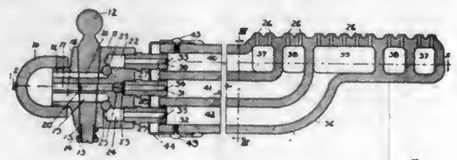
1,664,507. LUBRICATING PISTON. CHARLES C. HANCH, Connersville, Ind. Filed Feb. 9, 1922. Serial No. 535,115. 13 Claims. (Cl. 74—108.)

1. A piston for internal combustion engines, comprising a head and a skirt with a piston ring near the head end of the piston, said piston being provided with a substantially imperforate external circumferential passage at that side of said piston ring which is remote



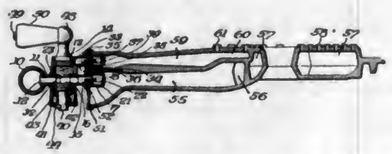
from the piston head, and being also provided in its outer face with a reservoir into which said circumferential passage feeds.

1,664,508. GAS BURNER. PHILIP S. HARPER, Chicago, Ill. Filed Jan. 26, 1921. Serial No. 439,905. 7 Claims. (Cl. 158—105.)



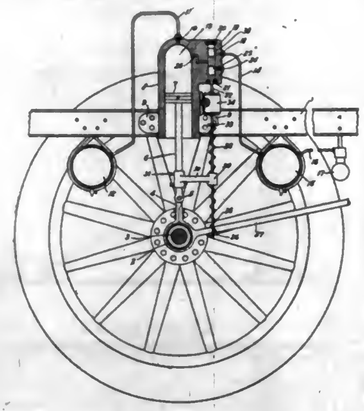
1. In a gas burner, a burner body member having a plurality of heating sections, said sections being arranged within the area covered by the usual cooking vessel, and having a plurality of burner ports in the upper side of each of said burner sections, a plurality of mixing tubes connecting directly into said sections, each tube to its respective section, each of the said mixing tubes being positioned one above the other, and each tube separated from another by a substantially horizontal wall; a valve casing having a plurality of passages therein leading to the said mixing tubes; and control means in the said valve casing.

1,664,509. GAS-RANGE BURNER. PHILIP S. HARPER, Chicago, Ill. Filed May 20, 1927. Serial No. 192,852. 5 Claims. (Cl. 158—104.)



1. A double gas range burner with a gas cock having a single lever handle and having two gas nozzles, said nozzles projecting through an air shutter common to two mixing tubes into which said nozzles respectively discharge, one to each tube, each of said tubes leading to a burner section having a plurality of burner ports in the upper side thereof, one section having over twice the number of ports as the other section, said air shutter having an adjustable closing means intercepting air openings to both of said mixing tubes, the air opening to one tube being over twice the air opening to the other tube.

1,664,510. SHOCK ABSORBER. HOWARD R. HUGHES, Jr., Houston, Tex. Filed Jan. 9, 1924. Serial No. 685,103. 2 Claims. (Cl. 267—65.)



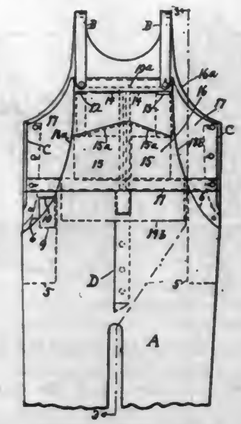
1. In a vehicle including a frame and axle, a cylinder, a piston in said cylinder, a rod on said piston, said cylinder and piston being connected between said frame and axle, a tank for air under pressure, a pipe connecting the tank and said cylinder beyond said piston, a valve in said pipe, a valve stem on said valve having resilient connection with said piston and a dash pot on said stem acting to resist movement of said stem and valve, said valve controlling the air to said cylinder to maintain the normal position of said piston therein.

1,664,511. INFORMATION DISPLAY DEVICE. ELTON ISBELL, Los Angeles, Calif. Filed Mar. 9, 1927. Serial No. 174,044. 2 Claims. (Cl. 40—86.)



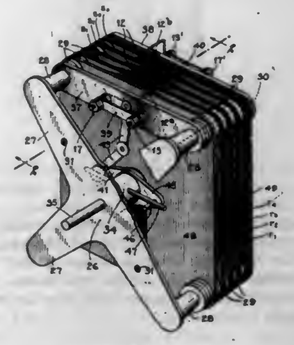
1. In an article of the character described, a supporting plate, a cover plate adapted to be slid to and from a position overlapping the supporting plate, a pair of spaced, axially parallel rollers mounted on the cover plate, a data-carrying tape applied at its opposite ends to the rollers and extending along the underside of the cover plate, means whereby one of said rollers is adapted to be revolved to wind the tape thereonto from the other roller; there being a sight opening in the cover plate between the rollers and giving visibility to a portion of the data tape where it extends between said rollers.

1,664,512. OVERALLS. ALFRED JOHNSON, Richfield, Minn. Filed Mar. 6, 1926. Serial No. 92,753. 1 Claim. (Cl. 2—79.)



As a new article of manufacture, overalls provided with a breast flap above the belt line and shoulder straps detachably securable to the upper part of said flap, a belt seam, a bib sewed to the upper edge of said breast flap and extending to the belt seam and widened at said latter seam to provide upright openings at the edges of said bib, and between it and the breast flap a pocket extending below said belt seam interiorly of the overall front and opening upwardly into the space between the breast flap and said bib.

1,664,513. VARIOMETER. LESTER L. JONES, Oradell, N. J. Filed Jan. 23, 1923. Serial No. 614,404. 19 Claims. (Cl. 171—119.)

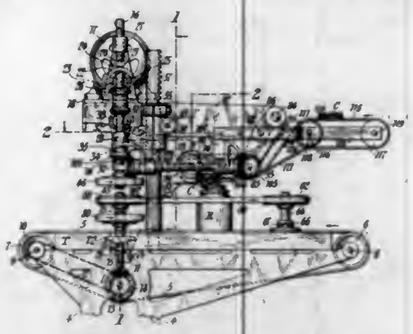


1. A variable inductance comprising a stator formed of a set of flat coils each coil comprising oppositely wound coil sections wound in a single plane, and a rotor also formed of a set of flat coils each coil comprising oppositely wound coil sections wound in a single plane, the coils of the stator set and the coils of the rotor set being arranged in alternating interleaving relation.

1,664,514. CAPPING MACHINE. ERIC B. KRAMER, Brooklyn, N. Y. Filed June 7, 1924. Serial No. 718,422. 6 Claims. (Cl. 226—88.)

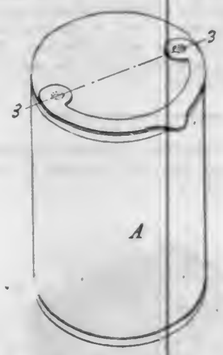
1. In a machine of the character described the combination of means for advancing a receptacle, means for screwing a cap in a clockwise direction onto the recep-

tacle, cap feeding means comprising a chute for receiving the cap, a pair of pivotally mounted arms, a cap rotating wheel mounted in the free end of each of said arms,



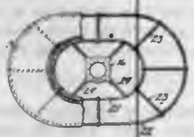
means for rotating said wheels in opposite directions for rotating the cap in anti-clockwise direction, and means for releasably retaining the cap at the delivery end of said chute.

1,664,515. OPENING DEVICE FOR CANS. WILLIAM R. LAMBERT, Norphlet, Ark., assignor of one-fifth to Orin Gilstrap, Norphlet, Ark. Filed Nov. 6, 1926. Serial No. 146,690. 2 Claims. (Cl. 220—53.)



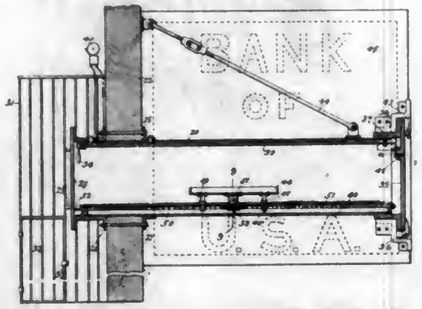
1. In a can of the class described wherein the same is formed in its top with a pair of spaced openings, a flat strip lying flush against the top of the can, the ends of the strip being enlarged for disposition completely over the respective openings in the top of the can, said enlarged ends of the strip being soldered to the top of the can for maintaining the can sealed, and means formed on the strip to facilitate the removal of the same from the can to uncover the opening.

1,664,516. SHADE HOLDER. LAWRENCE H. LEVINSON, Chicago, Ill. Filed Aug. 30, 1926. Serial No. 132,441. 1 Claim. (Cl. 240—136.)



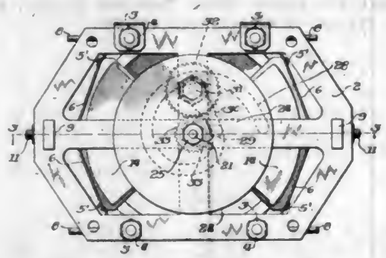
The combination with a shade supporting wire ring of a flat metal ring provided with a plurality of integral flat extensions at its circumference and in the same plane, a plurality of wires secured to said wire ring and brazed to the underside of said extensions, said wire ring, wires and flat ring being formed to be substantially in the same plane, and a depending circular and threaded flange at the central aperture of said flat ring and normal thereto and adapted to screw over a lamp socket.

1,664,517. SYSTEM OF TRANSPORTATION. HENRY JOHN LIEBL, Buffalo, N. Y. Filed Mar. 5, 1926. Serial No. 92,650. 3 Claims. (Cl. 214—38.)



1. A system for introducing articles into and removing them from a building comprising a tunnel communicating with a building at a distance from the ground, means for opening and closing said tunnel and a carriage movable lengthwise in said tunnel.

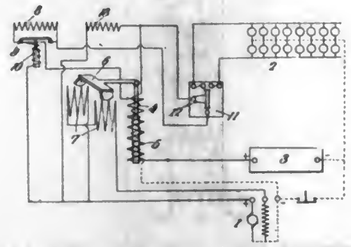
1,664,518. ELECTROSTATIC CONDENSER. JOHN F. LINDBERG, Chicago, Ill., assignor to Reliance Die & Stamping Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 21, 1927. Serial No. 177,043. 1 Claim. (Cl. 175—41.5.)



An electrostatic condenser including a rotator; a gear member carried by and coaxial with the rotor; a second gear member in actuating relation to the first; a crank coupled with the second gear member to turn it and thereby turn the first gear member and the rotor; a cam in actuating relation with said crank; and a rotatable handle coaxial with the rotor and coupled with the cam to turn it, the cam being formed to vary the rate of turning movement of said crank, and thereby of the rotor, with respect to the rate of turning movement of the handle.

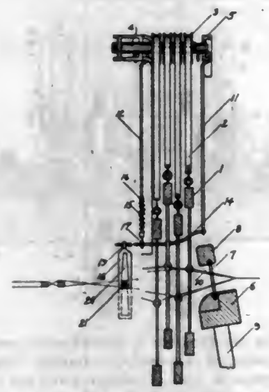
1,664,519. AUTOMATIC REGULATION IN ELECTRIC-LIGHTING SYSTEMS. FREDERICK CHARLES LYNE, Westminster, London, and JAMES ETCHELLS, Aston, Birmingham, England, assignors to Vickers Limited, Westminster, London, England. Filed Apr. 25, 1927, Serial No. 186,360, and in Great Britain Mar. 30, 1926. 3 Claims. (Cl. 171—313.)

1. An electric lighting system comprising in combination a dynamo, a battery, connections whereby said battery may be supplied from said dynamo, a lamp load, a field regulating resistance for said dynamo, electromagnetic means including a controlling coil whereby the amount of said field regulating resistance in series with the field winding of said dynamo may be varied, a series



resistance, connections whereby said lamp load and said controlling coil may be supplied from said dynamo through said series resistance, a further resistance and connections whereby said further resistance and said controlling coil are connected in series with said dynamo.

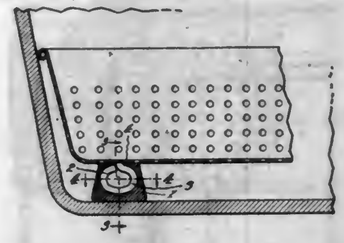
1,664,520. HARNESS-OPERATED STOP-MOTION DEVICE FOR LOOMS. JOAO MAOINA, New Bedford, Mass. Filed May 31, 1927. Serial No. 195,411. 4 Claims. (Cl. 139—337.)



1. A harness operated stop motion for use in combination with the warp stop motion of a loom, comprising means suspended from said loom and disposed transversely within the harness members, a drop member attached to said means and being adapted when lowered of coacting with a normally moving part of the warp stop motion to automatically stop the loom, said drop member being substantially O-shaped and having a tapered slot therein, said tapered slot being adapted to freely inclose the normally moving part of the warp stop motion during the normal operation of a loom.

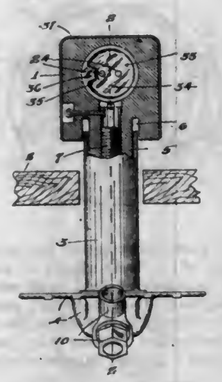
1,664,521. CUSHION FOR SINK STRAINERS. ANNE D. MAYETTE, Cleveland, Ohio. Filed Mar. 9, 1925. Serial No. 14,085. 1 Claim. (Cl. 45—137.)

A cushion for the feet of culinary utensils formed from resilient material and having a frusto-conical shape of oval cross section, a cavity formed in said cushion which is substantially circular in one plane and substantially rectangular in a plane at right angles thereto, said cavity being formed with a restricted opening at its top and of



sufficient depth to allow said cushion to engage the bottom of the utensil whereby to prevent moisture from entering said cavity around the opening.

1,664,522. CONTROLLING MEANS FOR STARTERS FOR INTERNAL-COMBUSTION ENGINES. WILLIAM METZROTH, Syracuse, N. Y. Original application filed Oct. 13, 1922, Serial No. 594,249. Divided and this application filed June 3, 1925. Serial No. 34,580. 1 Claim. (Cl. 70—127.)

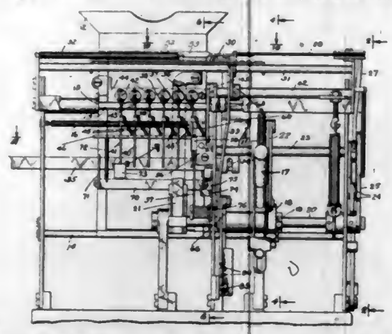


In a locking mechanism, the combination of a stationary tubular guide and an operating member comprising a head mounted on the end of the guide and reciprocally movable relatively thereto, the head having a groove at its lower face for receiving the upper end of the guide, the head also having a stem movable in the guide and the head also having a passage extending transversely thereof and of the upper end of the tubular guide, a locking bolt movable in the transverse passage and having a recess movable into and out of alinement with the groove and with the upper end of the tubular guide and mechanism carried by the head for operating the locking bolt.

1,664,523. IN-AND-OUT MACHINE. JOSEPH WILLIAM MILES, London, England, assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed Feb. 23, 1924, Serial No. 694,525, and in Great Britain Aug. 8, 1923. 12 Claims. (Cl. 234—43.)

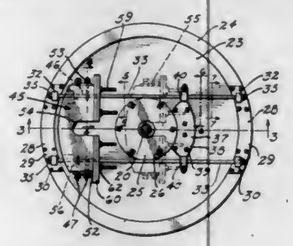
1. In a recording machine which includes a record sheet holder adapted to receive a record sheet therein and record making devices in operative relation to said holder,

with a single means for moving and positioning the sheet holder with relation to the record making devices when making a record indication on said sheet, means for elim-



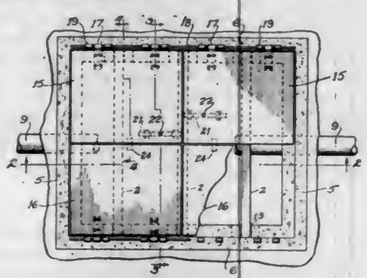
inating said first named positioning means and interposing another positioning means when making a succeeding record indication on said sheet.

1,664,524. BAND-WHEEL COUNTERBALANCE. MAX J. MILZ, Taft, Calif., assignor to Midway Iron Works, Inc., Taft, Calif., a Corporation of California. Filed July 12, 1926. Serial No. 121,825. 10 Claims. (Cl. 74—71.)



4. In a band-wheel construction for derrick equipment, the combination of: a band-wheel; a pair of rods extending across one face of said band-wheel on opposite sides of an imaginary diametral line; means for attaching the opposite ends of said rods to the peripheral portion of said band-wheel; means for placing said rods under tension; and a counter balance carried by said rods.

1,664,525. PIT COVER. JOHN HENRY OWENS, Elgin, Ill. Filed Sept. 21, 1927. Serial No. 220,983. 3 Claims. (Cl. 94—34.)



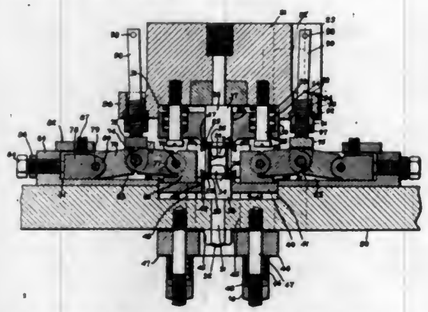
1. A public utility manhole comprising an open pit having upright walls provided with recesses in the upper edges thereof, a structural steel beam removably seated in said recesses and spanning the pit, a hinge pin anchored to one of said walls, and a cover mounted on said pin and loosely supported on said beam.

1,664,526. BACK-SPRING CONSTRUCTION FOR SEATS. FREDRIC A. PETTINGELL and ALEXANDER CARLSON, Dayton, Ohio, asignors to Dayton-Wright Company, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 28, 1923. Serial No. 620,595. 4 Claims. (Cl. 155—181.)



1. A seat-back spring construction including a frame having a plurality of relatively strong coiled springs arranged along the bottom of said frame and a plurality of other relatively weak coiled springs distributed over the remaining area of the frame, said strong springs being bound together along their front coils by a comparatively rigid member whereby the bottom portion of said spring construction is more rigidly held in place.

1,664,527. COMMUTATOR-RIVETING MACHINE. LORA E. POOLE, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 22, 1926. Serial No. 124,181. 12 Claims. (Cl. 218—1.)

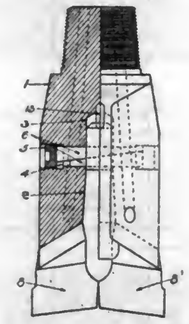


7. A riveting machine for a commutator comprising an annulus of insulated segments, clamping rings for engaging the segments, and a tubular rivet for holding the rings in spaced relation, which comprises in combination a base for supporting the commutator, a head movable relative to the base, a device carried by the head for deforming an end of the tubular rivet, a member supported by the head and adapted to engage a clamping ring of the commutator, clamping blocks supported by the base and adapted to apply lateral pressure to the commutator segments, springs for transmitting motion from the head to the member which engages the clamping ring, and mechanism operated by the head for advancing and retracting the clamping blocks relative to the commutator.

1,664,528. ROTARY DRILL BIT OF THE FLAT-BLADE TYPE. CLARENCE E. REED, Wichita, Kans. Filed Nov. 5, 1925. Serial No. 67,001. 2 Claims. (Cl. 279—103.)

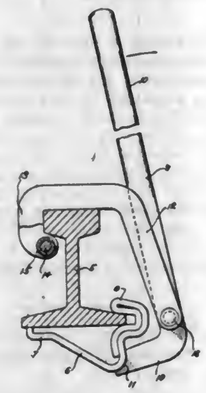
1. In combination in a rotary deep well drilling tool of fish tail type, a main body of flat fish tail form provided with a shank at its upper end for attachment to a drill stem, said flat body having an axial socket in its lower end consisting of an upper cylindrical portion, an intermediate frusto-conical, thrust-sustaining portion tapering upwardly, and communicating at its upper end with the

lower end of the cylindrical portion, and a lower beveled wedge-shaped portion tapering upwardly into communication with the lower end of the frusto-conical portion and extending flatwise across the lower end of the body to form a terminal wedge-shaped cutter receiving groove therein, a flat tapered and beveled cutter blade in said



socket and groove having a shank with a cylindrical upper part, and a frusto-conical lower part all to fit the said socket and groove, and means for drawing the shank with its blade into said body to seat them rigidly in the body, the walls of said groove overhanging the blade so as to take the torque.

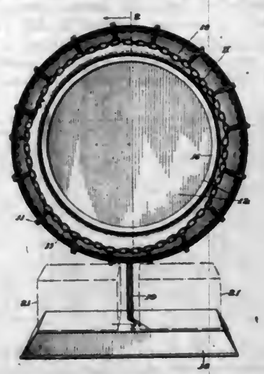
1,664,529. TOOL. FRANK J. SCHROEDER, Altoona, Pa., assignor to Continental Railway Supply Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 8, 1927. Serial No. 182,125. 2 Claims. (Cl. 81—15.)



1. A tool for positioning rail anchors on rails including a bar having a right angled end portion, defining a jaw, the free end of the jaw being curved to engage the anchor, and means carried by the bar to grip the rail to hold the tool while the jaw is being moved forwardly in the act of positioning an anchor.

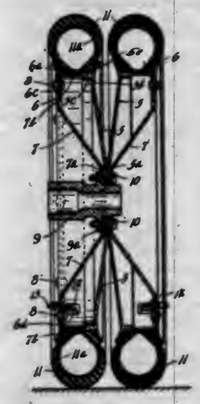
1,664,530. DISPLAY STAND. WARREN J. SHAY, Chicago, Ill., assignor to The Columbus McKinnon Chain Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 26, 1925. Serial No. 64,799. 2 Claims. (Cl. 211—13.)

1. A tire chain display stand, comprising in combination a central disk; and a noninflatable annulus surrounding the disk and mounted thereupon to receive a tire chain, said annulus having the size and shape of an automobile tire and formed of overlapping sections of sheet material that are arc shaped in cross-section and one of which embraces the other and has a crimped edge



to hold the sections assembled and in abutting engagement with the opposite sides of the disk, and a stand for supporting the annulus in an upstanding position.

1,664,531. WHEEL FOR AUTOMOBILES. HALBERT E. THOMPSON, Minneapolis, Minn. Filed June 10, 1926. Serial No. 114,976. 4 Claims. (Cl. 301—63.)

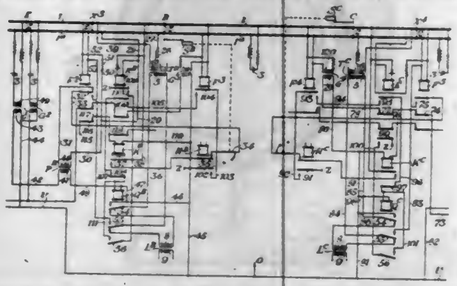


1. A wheel structure having in combination, a pair of disks, one having flanges at its periphery forming respectively the face and one side of the rim and the other having a flange at its periphery forming the other side of said rim, said disks having central conical portions extending axially of said wheel in the same direction and having inner flanges disposed in planes substantially at right angles to the axis of said disks, a hub member extending through said disks and having a circumferential flange adjacent said inner flanges and a plurality of circumferentially spaced bolts passing through said inner flanges and threaded into said flange of said hub.

1,664,532. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 13, 1927. Serial No. 191,059. 3 Claims. (Cl. 246—34.)

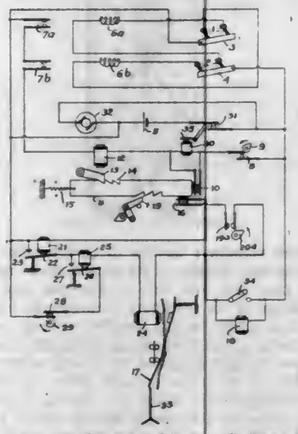
1. In combination, a stretch of railway track along which traffic moves in both directions, said stretch being divided into blocks and also into a short eastbound reset section and a short westbound reset section, means op-

erating during the passage of a train in either direction through said stretch to supply train governing current to the rails of each block under the control of traffic conditions in advance of the block, means normally operating to supply train governing current to the rails of each reset section regardless of traffic conditions in advance of such section, means operating while an eastbound train occupies said westbound reset section to discontinue the



normal supply of train governing current to such section and to supply train governing current to such section under the control of traffic conditions in advance of the train, and means operating when a westbound train occupies said eastbound reset section to discontinue the normal supply of train governing current to the rails of such section and to supply train governing current to the rails of such section under the control of traffic conditions in advance of the train.

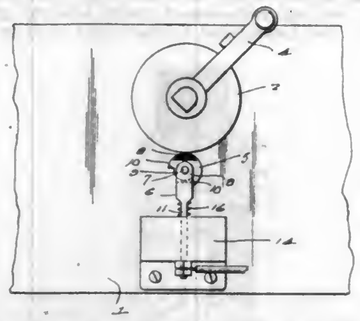
1,664,533. MACHINE FOR COMPARING PUNCHED CARDS. HERMANN ADALBERT WEINLICH, Berlin, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Dec. 24, 1926. Serial No. 156,977, and in Germany June 10, 1926. 8 Claims. (Cl. 209—110.)



1. A record controlled machine including means for automatically comparing data designations on successive controlling records and means controlled by said first named means for sorting the records according to like and unlike data designations on successive records.

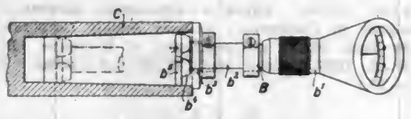
1,664,534. CIRCUIT CONTROLLER. FRANK DEWEY ZIMMERMAN and ELLIS MCKINLEY PYLE, Jerome, Pa. Filed May 26, 1926. Serial No. 111,813. 4 Claims. (Cl. 200—59.)

1. A controller attachment, comprising a rotatable electric conductor contact disk, a control member having an arcuate surface engaging the periphery of said disk and adapted to be rotated thereby, an insulating segment in said control member adapted to engage the disk in one position of the control member, means for rotatably



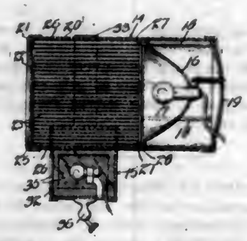
mounting the control member operable to normally hold said control member in engagement with the disk, and means for limiting the extent of rotation of said control member in either direction.

1,664,535. METHOD OF TESTING TAPER HOLES. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 4, 1926. Serial No. 79,222, and in Germany Sept. 5, 1925. 1 Claim. (Cl. 33—178.)



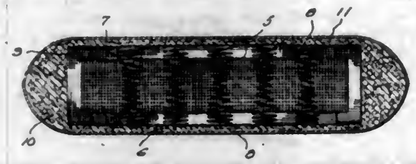
The method of testing a plurality of taper holes by means of adjustable hole gages adapted to indicate variations from measurements for which they are set and having adjustable stops for limiting the extent of their projection into a hole, which consists in setting one such gage in accordance with the diameter of a comparison piece at one transverse plane, and adjusting its stop to correspond with such plane, setting another such gage in accordance with the diameter of said comparison piece at another transverse plane and correspondingly adjusting its stop, and then successively introducing each of said gages into the taper holes to be tested and observing the comparative diameters indicated by said gages.

1,664,536. TRAFFIC LIGHT. NEWTON S. BEMENT, Ann Arbor, Mich. Filed Aug. 24, 1926. Serial No. 131,288. 5 Claims. (Cl. 240—7.1.)



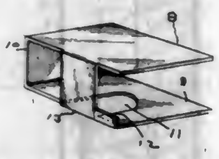
1. A light deflector for traffic lights comprising a series of comparatively thin metal plates having concave reflecting surfaces and convex nonreflecting surfaces, and flanges on the straight edges of each of said plates, substantially as set forth.

1,664,537. SLEEPING PILLOW. WILLIAM J. BLANKINSHIP, Valdosta, Ga. Filed Oct. 11, 1927. Serial No. 225,493. 2 Claims. (Cl. 5—342.)



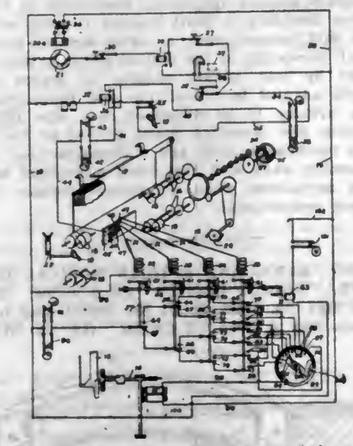
1. In a sleeping pillow of the character described, a core consisting of a pair of concentrically arranged cylinders of slightly flexible material, expansible coil springs located within the innermost cylinder and in longitudinally spaced relation, expansible springs arranged between these cylinders at the ends of the first mentioned spring and a covering for said core.

1,664,538. SAFETY DEVICE FOR BRAKE BEAMS. LLOYD J. BROWN, Evanston, Ill., assignor to E. Payson Smith, Springfield, Ill. Filed Apr. 7, 1925. Serial No. 21,827. 3 Claims. (Cl. 85—5.)



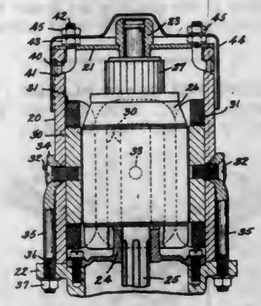
1. A blank for a safety device for brake beams comprising a flat plate body having a recess extending inwardly from one side edge, and two flanges of different length projecting beyond the body line from the same side edge in which the recess is formed.

1,664,539. BRUSH READING DEVICE FOR COMBINATIONAL HOLE RECORDS. JAMES W. BRYCE, Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed June 11, 1924. Serial No. 719,453. 22 Claims. (Cl. 235—92.)



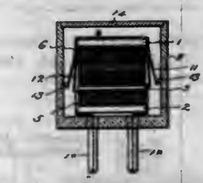
8. In a combinational index point record controlled machine adapted to operate concurrently upon a plurality of character designating record fields, analyzing means for simultaneously sensing a combinational index point designation while the records are in motion and means for converting said combinational reading into a time differential equivalent.

1,664,540. DYNAMO FRAME. WILLIAM A. CHRYST, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 27, 1925. Serial No. 52,927. 2 Claims. (Cl. 172—36.)



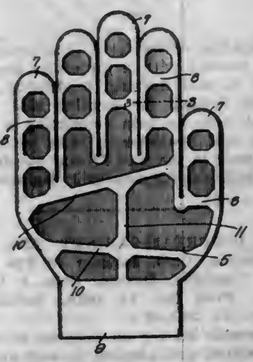
1. A dynamo frame comprising, in combination, a field shell, pole pieces, an end frame adapted to abut the end of the field frame, bolts having threaded shanks extending through the end frame, and located along the exterior of the field shell, common means for securing to the exterior of the shell a portion of the bolt and to the interior of the shell a pole piece, and nuts cooperating with the threaded shanks of the bolts for clamping the end frame to the shell.

1,664,541. TUNED TRANSFORMER. GEORGE H. COOPER, Hartford, Conn. Filed Aug. 3, 1927. Serial No. 210,354. 3 Claims. (Cl. 175—356.)



1. The method of producing a tuned transformer which consists in winding primary and secondary coils of predetermined definite numbers of turns upon a spool of insulation and tuning the same by folding a thin narrow strip or strips of iron over the end and down the sides of said spool.

1,664,542. GLOVE PROTECTOR. JAMES B. DOUGLASS, Harvey, Iowa. Filed May 12, 1925. Serial No. 29,755. 3 Claims. (Cl. 2—161.)



1. A glove protector, of elastic material and integral throughout, comprising a palm portion to cover the palm of the glove, a wrist portion and finger stall por-

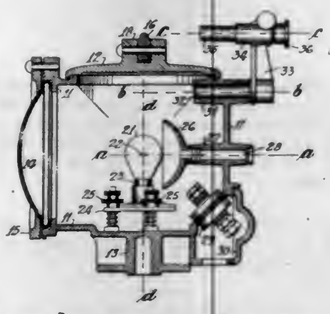
tions to cover the front and sides of the respective finger stalls of the glove, a plurality of spaced strip portions connecting the opposite sides of each finger stall portion, beyond the base of said portion, and a strip portion connecting the opposite sides of the palm portion inwardly of the bases of the finger stall portions and spaced forwardly from the wrist portion.

1,664,543. JOINT FOR GLASS PLATES. LEA EASTERMAN, Brooklyn, N. Y. Filed Oct. 12, 1926. Serial No. 141,073. 5 Claims. (Cl. 189—78.)



1. A joint fastening device for glass window plates in abutting relation, comprising a pair of opposed metallic members adapted to be disposed respectively at the inner and outer sides of the glass plates, resilient cushioning pads disposed in recesses in the opposing surfaces of said metallic members, said pads being adapted to bear against the surfaces of the glass plates, a transparent glass cover plate overlying the outer metallic member, and clamping means for imposing a clamping pressure between said metallic member, said clamping means holding the glass cover plate in position free from clamping pressure.

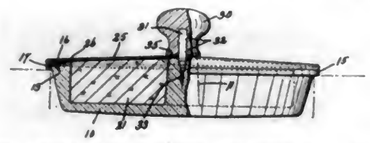
1,664,544. SIGHTING DEVICE. EDWARD A. EVERETT, New York, N. Y. Filed Jan. 18, 1926. Serial No. 82,156. 4 Claims. (Cl. 88—14.)



1. In a sighting device for a light projector, the combination, a housing with a projecting lens, a source of illumination in said housing, a sighting device in the wall of said housing for locating said source in the axis of said lens, an arm supporting a sighting tube for aligning said projector, a stem carrying said arm and a receptacle in the wall of said housing off-set from the axis of said lens for detachably supporting said stem.

1,664,545. ICE-CREAM-CABINET LID. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 15, 1926. Serial No. 154,910. 3 Claims. (Cl. 220—9.)

1. A removable lid for an opening in the top of an ice cream cabinet and adapted to seat by gravity upon said top, comprising: a molded composition cupped bottom member having a central upward projection integral therewith, a peripheral groove in its upper face, a sealing gasket in said groove, an upwardly convex sheet metal top member, means for clamping the central portion of said top member down upon said central projection and thereby also clamping the peripheral edges of said top member down upon said gasket by the spring of the sheet metal.

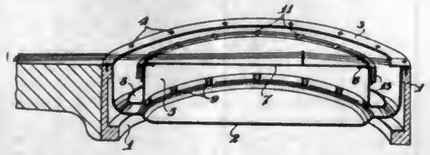


1,664,546. VENDING MACHINE. ANSEL P. GILBERTSON, Wausau, Wis. Filed Mar. 2, 1925. Serial No. 12,680. 4 Claims. (Cl. 312—84.)



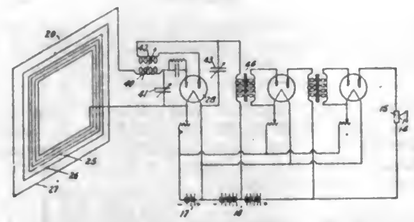
1. In a vending machine of the class described the combination of a casing including a body providing a compartment therein and a closure member connected to said body for closing said compartment, said body including a rear wall and a bracket plate extending across the forward part of said compartment adjacent said closure member, dispensing mechanism in the compartment including a shaft bearing in said rear wall and in said bracket plate, a clutch member carried by the shaft forwardly of the bracket plate, a wall carried inwardly by said closure member in spaced relation therewith adapted to extend into said compartment for guiding articles to be dispensed onto said dispensing mechanism, and operating means carried by the closure member including a shaft and a clutch member adapted to releasably mesh with the clutch member of said dispensing mechanism when the closure member is shut over said compartment.

1,664,547. BANJO AND SIMILAR MUSICAL INSTRUMENT. NORTON GREENOP, Leigh-on-Sea, England. Filed Mar. 23, 1926, Serial No. 96,801, and in Great Britain May 4, 1925. 3 Claims. (Cl. 84—271.)



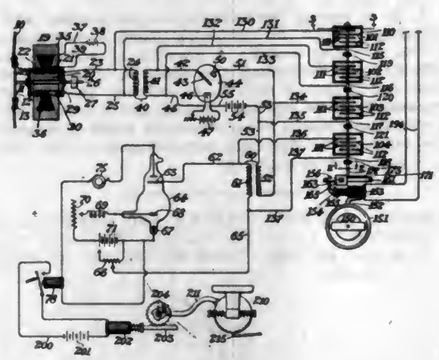
1. In a banjo, an outer wooden hoop, a metal resonator plate within said hoop and comprising a central resonating portion and an upstanding wall having an offset flange secured to said wooden hoop, a vellum carrying ring located within the resonator plate and having oppositely offset flanges, elements for spacing one of said flanges of the vellum carrying ring from the resonator plate, a vellum straining ring surrounding the vellum carrying ring, and bolts engaging said vellum straining ring and passing through the resonator plate thereby to press said vellum mounted on said vellum straining ring against the vellum carrying ring and pressing the latter against said spacing elements.

1,664,548. RADIO APPARATUS. DAVID GRIMES, Grasmere, N. Y. Filed May 27, 1922. Serial No. 564,227. 2 Claims. (Cl. 250—33.)



1. In a radio apparatus, a loop antenna comprising a plurality of substantially parallel turns of wire unequally spaced.

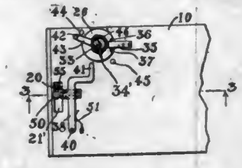
1,664,549. SYSTEM OF CONTROL BY COMPRESSIONAL WAVES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 7, 1917, Serial No. 173,332. Renewed Oct. 28, 1925. 41 Claims. (Cl. 114—21.)



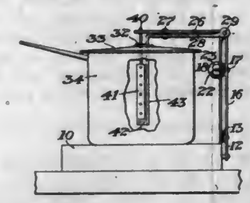
1. A system for the distant control of a movable body, comprising receiving means tuned to respond selectively to radiant oscillations, in combination with means automatically operative to vary the tuning of said receiving means in response to a variation in the direction of movement of said movable body.

1,664,550. SHUTTER-CONTROL MECHANISM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Jan. 21, 1921. Serial No. 438,865. 2 Claims. (Cl. 95—31.)

1. In a camera, the combination of a shutter, a pivoted lever for operating said shutter, a pivoted locking arm having its free end movable into the path of movement into the shutter lever for effectively preventing the operation of said shutter lever, a detent to hold the locking lever inoperative, said detent having an extension, a cam lug carried by the shutter lever for engaging the extension of the detent during the operation of the shutter lever thereby releasing the locking lever, an oscillatory feeding mechanism for light sensitive material, a trip member arranged to be operated by said feeding mechanism for moving the locking lever into unlocking position, and a yielding element for retaining the locking lever in locked position.

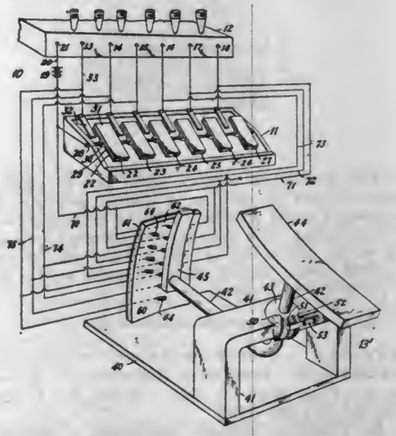


1,664,551. THERMOSTAT CONTROL FOR COOKING UTENSILS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 19, 1923. Serial No. 681,544. 5 Claims. (Cl. 236—20.)



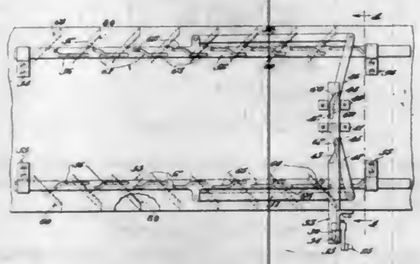
1. In a cooking utensil, the combination of a vessel, an element positioned therein responsive to variations in temperature, a source of heat spaced from the vessel, a plurality of movable vanes each including a layer formed of heat insulating material interposed between the vessel and the heat source to control the temperature of the vessel between predetermined temperature limits, and means operatively interconnecting said element and said vanes.

1,664,552. PEDAL CONTROL FOR PIPE ORGANS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 21, 1924. Serial No. 733,258. 7 Claims. (Cl. 84—343.)



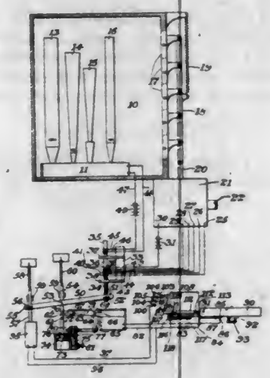
5. A control mechanism for musical instruments comprising a terminal bank having fixed contacts arranged in rows, a movable contact, a pedal for actuating said movable contact in one direction to select a desired row and in a different direction to select desired fixed contacts in the selected row.

1,664,553. SUCCESSIVELY-OPERATED TONE MODULATOR. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 12, 1925. Serial No. 49,823. 12 Claims. (Cl. 84—182.)



10. A modulating system for a pianoforte, comprising a plurality of resonating chambers, a plurality of sound wave reflectors for each of said chambers for variably controlling the volume of sound emitted from the respective chamber independently of the other chambers, a tone modulating pedal, and means including a pin and slot connection operatively interconnecting said pedal with said sound wave reflectors for variably positioning the same.

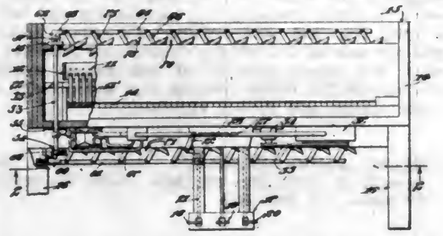
1,664,554. PIPE ORGAN FOR PRODUCING A PIANO EFFECT. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 17, 1925. Serial No. 50,688. 8 Claims. (Cl. 84—346.)



8. The combination with an organ key, an organ swell chamber having an opening, a shutter normally closing said opening and a plurality of sound producing elements positioned within said chamber and actuated by said key, of a motor for actuating the shutter, and an inertia controlled device variably operative under control of said key for controlling said motor.

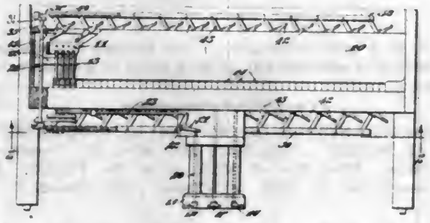
1,664,555. POWER-OPERATED TONE-CONTROL MECHANISM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Sept. 2, 1925. Serial No. 54,078. 8 Claims. (Cl. 84—182.)

5. In a musical stringed instrument a plurality of strings tuned to the notes of the musical scale, a sounding board adjacent said strings, a substantially sound proof casing having metal lining and surrounding said board and said strings and forming two enclosed resonating chambers, a plurality of centrally pivoted metal lined reflecting devices for each of said resonating chambers for controlling the sound emitted therefrom, a pneumatically operated two-way bellows for selectively rotating said reflectors in either direction, a pneumatic pump,



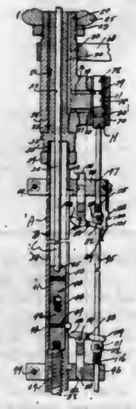
and a control valve interposed between the pump and the bellows for selectively controlling the movement of the reflectors.

1,664,556. MODULATING REFLECTORS FOR CONTROLLING THE RATE OF CHANGE OF SOUND EMISSION. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Jan. 28, 1926. Serial No. 84,274. 9 Claims. (Cl. 84—182.)



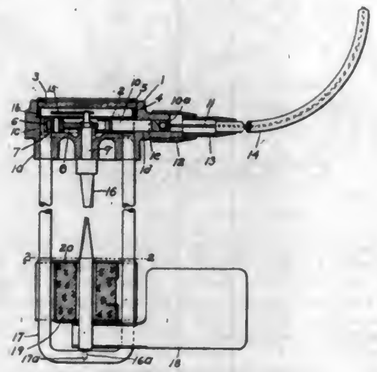
8. In a musical instrument, the combination with a vibratory element for producing damped compressional waves, a casing therefor, a plurality of movable sound reflectors for controlling the emission of sound therefrom and formed to restrict the emission of sound when the reflectors are partially opened, and a variable speed mechanism arranged to accelerate the speed of opening of the reflectors substantially proportionally to the extent of opening provided thereby.

1,664,557. AIR-PUMP STROKE AND PRESSURE INDICATOR. JAMES W. HANNAN, Coffeyville, Kans. Filed Dec. 16, 1926. Serial No. 155,316. 17 Claims. (Cl. 73—56.)



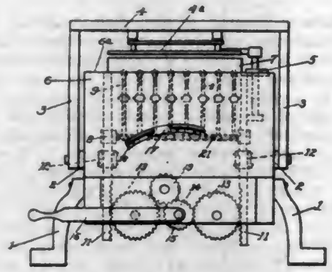
1. In combination with a cylinder having a piston therein, a gauge, means connecting the gauge with the cylinder for indicating pressures existing in the cylinder, and means operatively following the piston for cutting the gauge into operation at the limits of travel of the piston to determine air pressures existing in the cylinder with respect to the location of the piston in the cylinder.

1,664,558. LIQUID GAUGE. HERBERT HASTINGS, Brighton, N. Y. Filed Sept. 10, 1921. Serial No. 499,695. 21 Claims. (Cl. 73—82.)



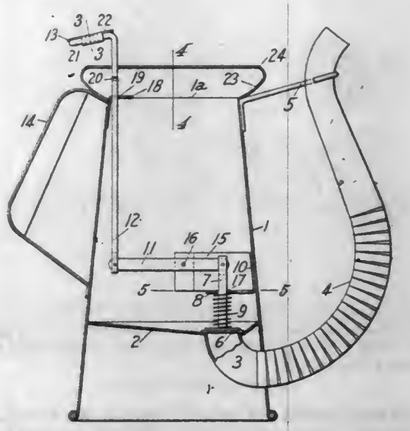
1. In a liquid gauge, the combination of a float with means for guiding it, a rotatable member adapted to have its rotation controlled by the float and means other than the float adapted to be driven by the impact or movement of the liquid that supports the float for moving the rotatable member.

1,664,559. MOLDING MACHINE. EDWARD C. HOLMES, Cincinnati, Ohio. Filed May 9, 1925. Serial No. 29,211. 3 Claims. (Cl. 22—14.)



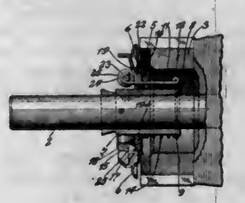
1. In combination with a molding machine, a movable top head element and a stationary bottom table element with apertures in the table element and a housing element outside the table element with means for reciprocatingly moving the housing element with relation to the table element, spirally fluted patterns rotatively mounted within the housing element, and a stationary element with projecting elements adapted to project within the flutes of the patterns, and means for moving the housing element, and the spirally fluted patterns adapted to form female impressions in a mold on the table top.

1,664,560. MEASURING CAN. ROBERT D. HUGHES, Dayton, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,502. 7 Claims. (Cl. 221—16.)



1. In a measuring can, a body portion having an open upper end and having an outlet near its lower end, and a guard rim extending outwardly about the entire circumference of the upper edge of said body portion and having its outer portion turned upwardly and inwardly.

1,664,561. SHORT-CIRCUITING MECHANISM. JOSEPH J. JANCA, St. Louis, Mo., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 24, 1925. Serial No. 77,646. 10 Claims. (Cl. 172—279.)

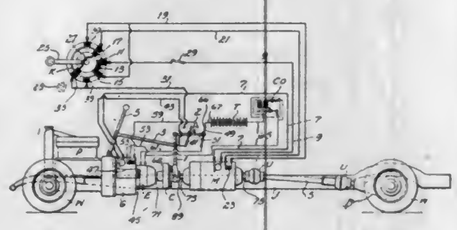


1. A short circuiting mechanism comprising a contact member movable to make and break contact with commutator segments, an actuator for moving the contact member to contact with the commutator segments, a plurality of arms each pivoted at one end and having its other end free, and a roller connected to and movable with the free end of each of said arms and arranged to operate by centrifugal force to engage and move said actuator and thereby said contact member into contact with the commutator segments.

1,664,562. AUTOMOTIVE DRIVE. THORVALD JENSEN, St. Louis, Mo., assignor to The Winther Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 8, 1926. Serial No. 86,793. 3 Claims. (Cl. 290—16.)

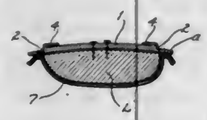
1. A vehicle drive comprising a prime mover, driving wheels for the vehicle, a generator driven by the prime mover, a motor adapted to receive energy from the generator and drive the vehicle, an electrical connecting circuit between the motor and generator for transferring said

energy, a direct mechanical connection between the prime mover and the driving wheels, a clutch interposed in said mechanical connection, and means for closing the electrical circuit and opening said clutch at one operation,



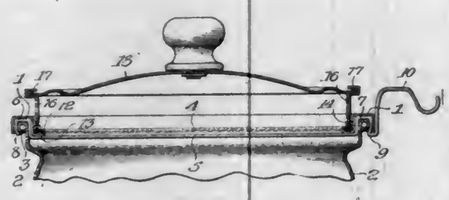
said means being adapted to also open the electrical circuit and close the clutch at one operation and means for throwing a battery charging circuit into connection upon closing the clutch.

1,664,563. SHOE. RICHARD KENNETT, St. Louis, Mo., assignor of one-third to Seth Randall, St. Louis, Mo. Filed Nov. 8, 1926. Serial No. 147,027. 2 Claims. (Cl. 36—16.)



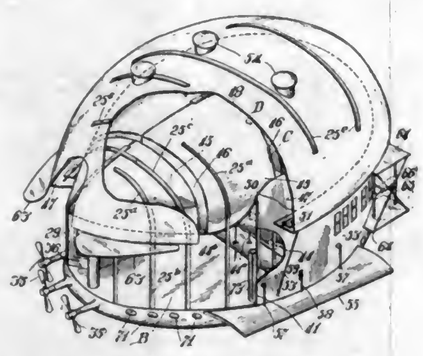
1. A shoe embodying an upper and a single sole, said sole having its margin channeled from one side of the breast to the other to form a channel leaf and sewing lip, and split from the heel part to the break of the ball portion, a metallic shank cemented into the sole between the layers thereof formed by the split, the margin of the upper and a welt thereover stitched to the sewing lip of the sole, the said channel leaf being cemented over the stitches, and a heel secured to the heel seat.

1,664,564. CULINARY STRAINER. ABE LIPNER, Indiana Harbor, Ind. Filed Apr. 21, 1927. Serial No. 185,402. 7 Claims. (Cl. 53—8.)



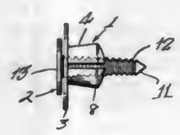
1. A strainer of the character described, consisting of a sheet metal ring made channel shape to receive and fit over the upper edge of a cooking vessel and extend completely about the same, a screen carried by the ring and extending completely over the opening within the same, and means within the channel of the ring and carried thereby for releasably connecting the same to the upper edge of the vessel on applying the ring thereto.

1,664,565. AIRSHIP. LAWRENCE W. MAMMEN, Chicago, Ill. Filed Aug. 26, 1925. Serial No. 52,553. 29 Claims. (Cl. 244—6.)



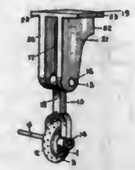
1. An air ship, comprising a main or hull portion provided with a deck, side walls and a ceiling or top for the deck, the walls being formed to provide an air passage from end to end of the ship, an offset or pocket formed in the ceiling intermediate of the ends of the passage to constitute a vacuum chamber.

1,664,566. FASTENER. WILLIAM MARSHALL, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Original application filed Aug. 25, 1924, Serial No. 734,127. Divided and this application filed June 7, 1926. Serial No. 114,335. 4 Claims. (Cl. 85—32.)



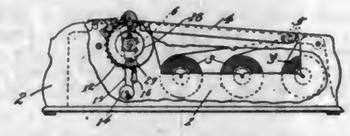
1. A fastener element of the class described formed of sheet metal and comprising a base having an opening therein, and a plurality of longitudinally extending prongs projecting from said base at the edges of said opening and having their end portions extending freely inwardly toward a common center, the thickness of said prongs being substantially the same throughout their length, said prongs being arcuate-shape in cross section and forming a hollow longitudinally split tube for insertion through an opening in a suitable support, said tube having an annular hollow bulging portion at its outer end, the area of the base and the cross sectional area of said bulging portion being larger than the cross-sectional area of the tube at a point between said base and bulging portion whereby said base and bulging portion will retain said element in place when inserted for use in an opening in a support, said bulging portion being contractable so that the cross-sectional area thereof when contracted is substantially equal to the normal cross-sectional area of said tube at the intermediate point aforesaid thereof to permit the passage of said bulging portion through an opening of a size substantially equal in area to the normal cross-sectional area of said intermediate portion, said bulging portion being formed of resilient material so that said bulging portion will automatically expand to normal position after passing through such opening and will engage over an edge of the opening to prevent accidental withdrawal of said element from said opening.

1,664,567. POWER-TRANSMITTING DEVICE. CHARLES MCPHERSON, Montreal, Quebec, Canada, assignor, by mesne assignments, to Friction Power Corporation Limited, Montreal, Quebec, Canada. Filed Apr. 14, 1924. Serial No. 706,617. 1 Claim. (Cl. 74—26.)



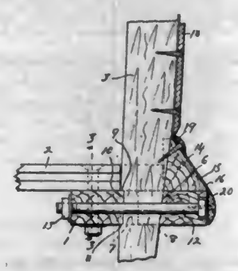
In power transmission for train lighting purposes, a truck bracket formed with a base and parallel hangers therefrom constituting a pivot bearing therebetween and closed in at the inner ends to form a housing and an abutment for a spring, a rocker arm having a central pivot orifice journalled in said pivot bearing, a loose spring engaging the inner end of said arm and said abutment and enclosed by said housing, a friction roller and transmission shaft therefrom journalled at the outer end of said rocker arm, a car axle and a friction disk fixedly mounted on said axle and driving said friction roller.

1,664,568. MANIFOLDING MACHINE. ALBERT W. METZNER, Dayton, Ohio, assignor to John Q. Sherman, Dayton, Ohio. Filed Feb. 18, 1924. Serial No. 693,484. 6 Claims. (Cl. 271—2.4.)



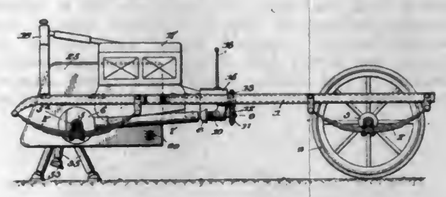
1. In a manifolding machine, a paper feeding device having a rotating member, a power means, a pawl and ratchet drive intermediate the power means and the rotating member and means adapted to hold the pawl out of engagement during desired portions of a single operation of the power means, said pawl holding means comprising a member, having an arc shaped flange concentric with the movement of the pawl and the pawl having an extension to be engaged by said flange, said flange having an edge presenting pawl engaging zones of different length dependent upon the position of said member.

1,664,569. BUS-BODY CONSTRUCTION. NUGENT MILNER, Evansville, Ind., assignor to Graham Brothers, Evansville, Ind., a Corporation of Indiana. Filed Dec. 7, 1925. Serial No. 73,739. 4 Claims. (Cl. 296—29.)



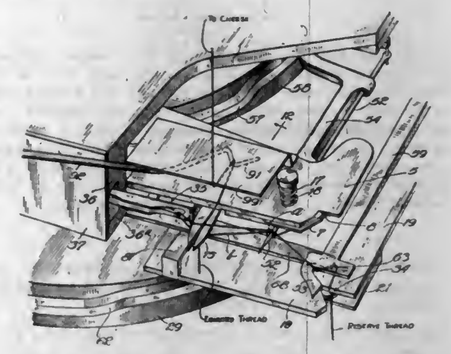
1. In a vehicle body, a sill having cooperating sections, a bar secured to one section and cooperating therewith to form a guard rail, and flooring secured to the other section and constituting an abutment for the bar.

1,664,570. PROPELLING MECHANISM FOR VEHICLES. LOUIS PERILLI, Portsmouth, N. H. Filed Sept. 15, 1923, Serial No. 662,850. Renewed July 26, 1927. 11 Claims. (Cl. 180—8.)



1. The combination with a vehicle, of means for propelling the same, comprising a group of three steppers at each side of the vehicle, means for oscillating the same, and means for so shifting each stepper as it oscillates that the end thereof maintains a substantially constant distance from the vehicle frame during the working stroke, said means being constructed so as to hold two of each group of steppers in contact with the ground at the start and finish of each step.

1,664,571. METHOD OF AND MEANS FOR TYING WEAVERS' KNOTS. BURT A. PETERSON, Rockford, Ill., assignor to Edgar S. Nethercut, Evanston, Ill. Filed Nov. 18, 1921, Serial No. 516,010. Renewed Feb. 14, 1927. 52 Claims. (Cl. 289—3.)

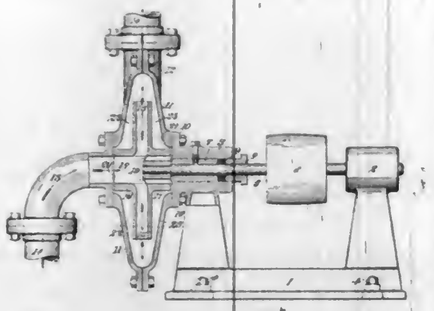


1. A knot-tying mechanism comprising, in combination, means for holding and guiding a thread, a reciprocatory device operable into engagement with said thread to form a loop therein, a member movable from a position at one side of the plane of movement of said device into engagement with said loop to carry the strands thereof to a position at the opposite side of the plane of movement of said device, a second member movable into engagement with one of the strands of said loop to position it in crossed relation with reference to the other strand, said device being operable to engage said crossed strand and draw it through said loop to form a second loop, means for inserting a second thread through said second loop, and means for drawing the second loop together with said inserted thread through the first loop.

1,664,572. CENTRIFUGAL PUMP. OSCAR POULSEN, Alameda, Calif. Filed May 10, 1920, Serial No. 380,256. Renewed Mar. 5, 1927. 2 Claims. (Cl. 103—112.)

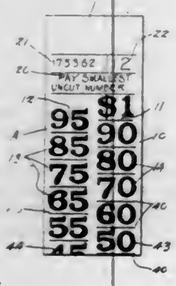
1. A centrifugal pump comprising in combination a casing, consisting of two sections, substantially alike and secured together, and having central annular portions, a suction pipe provided with a flange secured to the an-

nular portion of one of said sections and a bearing on the side opposite said suction pipe secured to the annular portion of the other of said sections, an impeller centrally located within said sections, said impeller being spaced from the casing sections to provide a variable pressure chamber on each side of said impeller, said impeller having a uniform shaped hub on each side thereof, and having their opposite extremities positioned internal to said annular portions with a light clearance therebetween, one of said hubs abutting said flange on said



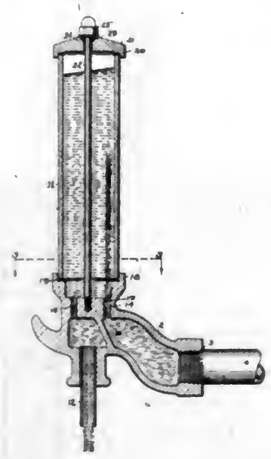
suction pipe and the other having longitudinal channels therebetween abutting the bearing, the width between the hubs being less than the width between the suction pipe flange and bearing, said flange, hubs and bearing, cooperating with said annular portions to form a chamber on each side of said hubs of substantially the same diameter, surrounding the entire diameter of said hubs and adapted to connect directly at one time one of said variable pressure chambers with the suction pipe.

1,664,573. RESTAURANT CHECK. CHARLES T. RASCHICK, St. Paul, Minn. Filed Oct. 6, 1922. Serial No. 592,725. 1 Claim. (Cl. 283—60.)



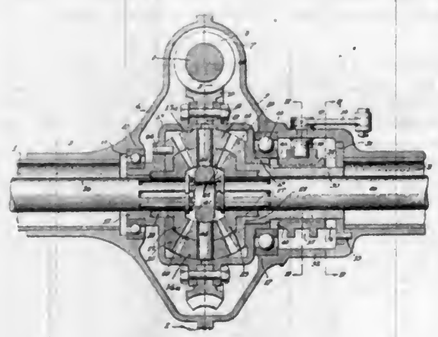
A check having a plurality of numerals arranged in adjacent columns thereon and adapted to be transversely severed to indicate the amount payable at the line of severance thereof, said numerals being arranged in said columns in alternate arithmetical progression.

1,664,574. DISPENSING PUMP. CHARLES SPAETH, Cleveland, Ohio, assignor to The Marvel Equipment Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 28, 1924. Serial No. 695,640. 5 Claims. (Cl. 221—67.



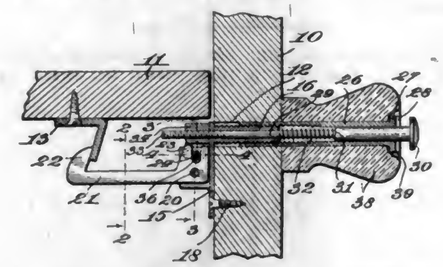
1. A liquid dispensing device comprising a discharge nozzle and a display tube for the liquid being dispensed, said nozzle having upwardly directed inlet ports of restricted area for said tube to jet a fine stream of oil upwardly into said tube, and said tube having outlet ports of capillary size with respect to said liquid.

1,664,575. TRANSMISSION MECHANISM. CHARLES F. STAPLES, Detroit, Mich., assignor, by direct and mesne assignments, of one-half to Lloyd M. Field, Alameda, Calif., and one-half to Arthur A. Wiedemaier, Detroit, Mich. Filed May 29, 1925. Serial No. 33,610. 8 Claims. (Cl. 74—99.)



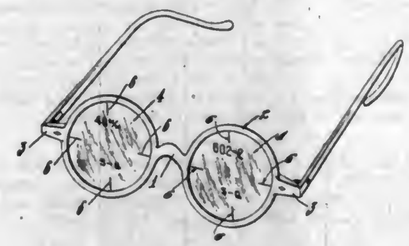
1. In a differential mechanism, a driven casing, inner differential gears and pinions arranged in said casing and adapted to be driven from said casing, shafts adapted to be driven by said differential gears and pinions, a gear reduction for said differential mechanism interposed between said driven casing and said inner differential gears and pinions for translating motion from said casing to said inner differential gears and pinions, said gear reduction including outer differential gears and pinions in said casing about said inner differential gears and pinions, and a spider having arms passed through said pinions for carrying the same, one of said outer differential gears being constantly fixed to said casing and meshed with said outer pinions; and means adapted for controlling the other of said outer differential gears to have a reduction of speed from said differential casing to said shafts.

1,664,576. PUSH CATCH FOR DOORS. THOMAS F. STUART and HENRY A. MOORE, Los Angeles, Calif. Filed July 16, 1926. Serial No. 122,820. 4 Claims. (Cl. 292—127.)



1. A door latch comprising a tubular housing that is adjustable in length, a knob removably mounted on the outer portion of said tubular housing, a plate at the inner end of said housing, which plate is adapted to be secured to the door to which the latch is applied, a latching hook pivotally mounted on said plate, a spring-held push rod passing through the tubular housing, a member adjustably mounted on the inner end of said push rod and a pin and slot connection between said adjustable member and the inner end of said latching hook.

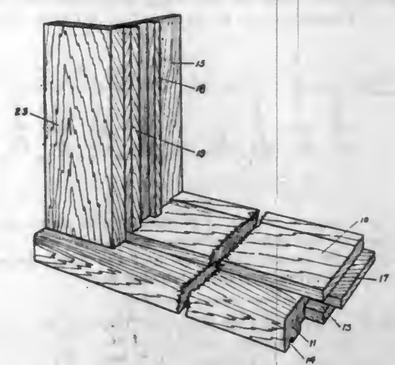
1,664,577. OPHTHALMIC MOUNTING. JAMES A. SWEENEY, Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 3, 1923. Serial No. 678,086. 9 Claims. (Cl. 33—200.)



1. A fitting frame comprising two lens-holding rims, a bridge connecting the rims, and lenses in the rims, the center of each lens being transparent to permit unobstructed vision therethrough to the eyes of the patient being fitted, there being an indicator for indicating the centers of the rims.

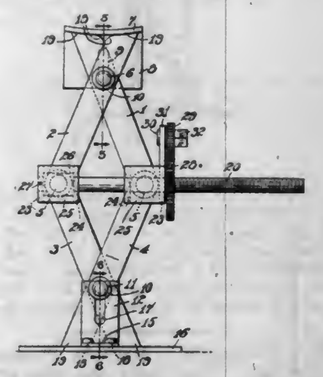
1,664,578. SASH FRAME. CHARLES L. THORNBERRY, Lincoln, Nebr. Filed Mar. 16, 1926. Serial No. 95,090. 1 Claim. (Cl. 20—11.)

A window frame including a pair of pulley stiles and a sill, said pulley stiles being provided with grooves for the reception of sash stops, said sill having an inner and an outer member, a tongue projecting inwardly from the top edge of the outer of said two members, the inner of said two members being provided with a groove for receiving said tongue, and tenons projecting laterally from



the inner only of said two members, said pulley stiles being provided with transverse grooves for receiving said tenons.

1,664,579. LIFTING JACK. B WICKLIFFE TWYMAN, Marysville, Mich. Filed June 8, 1925. Serial No. 35,694. 1 Claim. (Cl. 254—126.)

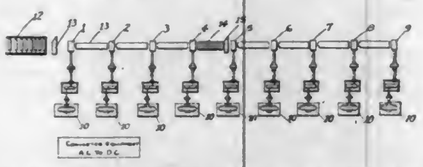


In a lifting jack the combination with a flat base plate having a vertically disposed lug thereon, of a pair of crossed arms having their lower ends pivotally connected at their crossing point and having their lower ends rounded and bearing on said base plate, said vertically extending lug preventing said arms from tilting from the vertical, a pair of upper crossed arms pivotally connected at their crossing point and having their upper ends rounded and pivoted at their lower ends to the upper ends of the lower crossed arms, a collapsing and expanding screw connected at the pivotal juncture of one of each pair of arms and having a threaded connection at the pivotal juncture of the opposite arms, a saddle block resting upon the free ends of the upper crossed arms and having a down turned side member provided with connecting means for connecting the same with the crossed arms while permitting the block to move vertically.

1,664,580. ROLLING METAL STRIPS. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed June 11, 1926. Serial No. 115,385. 1 Claim. (Cl. 80—60.)

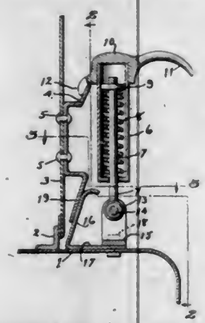
A strip rolling process which consists in passing a piece of metal through a series of stands of rolls arranged as a continuous mill so as to produce long, single thickness strips of great width, which consists in forming a piece

of convex cross section, and in giving an active pass to the strip, in the finishing stands at least, which reduces the center of the piece in each stand more than the edges, said active pass in said finishing stands at least applied



so as to engage a restricted portion of the metal with a minimum of flexibility, such as is applied when small diameter rolls engage the piece, and the small diameter rolls are backed up by large diameter rolls.

1,664,581. HOOD CLAMP FOR AUTOMOBILES. Louis C. VANDERLIP, Elkhart, Ind. Filed Dec. 11, 1926. Serial No. 154,055. 14 Claims. (Cl. 292—114.)



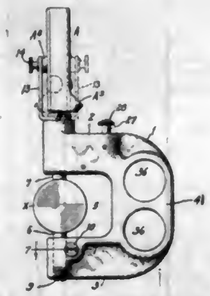
1. In an automobile hood-clamp, the combination with a hood of a combined keeper and cam element rigidly secured to the hood exterior, a spring-actuated hold-down clamp positioned exteriorly of the hood and connected with said keeper, and a stationary cam element arranged exteriorly of the hood and adapted to coact with the cam section of said keeper for laterally projecting the hood.

1,664,582. FASTENER. JINDŘICH WALDES, Prague, Czechoslovakia. Filed Sept. 20, 1924, Serial No. 738,738, and in Germany Mar. 6, 1924. 5 Claims. (Cl. 24—95.)

1. In combination with a carrying material a fastener of the type described, comprising a hood element bearing against one face of said material and having a pin-admitting aperture and a hollow interior, comprising arched top and arched sides merging into a smooth surface having a gently changing curvature throughout and being free from abrupt changes in curvature, a pin member having a head bearing against the other face of said material, and having a straight pin portion of materially smaller cross-section at its level nearest the pin-admitting aperture than that of said aperture, and having a bent portion formed into a coil within the hood, the parts of said pin located within the hood being smoothly coiled out of the axial line of the pin in opposite direction therefrom, said coil operating as a fixed, locked tension control agent for the carrying material, the lower faces of said agent fitting with snug surface-engagement against the lower faces of the arched sides of the hood interior at opposite sides of the axial line of the pin while the upper face of said agent fits with snug surface engagement against the arched top of the hood interior, said coil making rigid the hood structure by making continuous uninterrupted contact between the outer surface of the coil and the inner surface of the hood, said continuous contact beginning from a point to one side of the pin axis, lower than the wide portion of the side arch of the interiorly and extending continuously in contact with the inner surface of the hood, to a point lower than such wide portion of the side arch of the hood interior as faces an opposed part of the pin axis, the coil being of such character as results from initially introducing a relatively long pin having its point initially bent to one side, through the carrying material, into cotnact with the arched top of the hood interior and then applyng pressure between the pin head and the hood until the carrying material is tightly clamped therebetween.

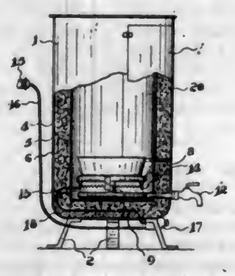


1,664,583. SNAP GAUGE. ERNEST O. WHEELOCK, Rockford, Ill. Filed May 15, 1925. Serial No. 30,425. 4 Claims. (Cl. 33—147.)



1. A snap gauge having, in combination, a body provided with a contact, a contact plunger slidably mounted in said body, a sleeve having a screw-thread connection with the body, the contact plunger extending into said sleeve, a coiled expansive spring within said sleeve and bearing against said contact plunger to move it toward said contact, a testometer having an externally tapered sleeve which fits within a correspondingly tapered opening in the sleeve in alinement with the contact plunger, said testometer comprising a contact plunger mounted in the second-mentioned sleeve and extending into position for engagement by the first contact plunger, and an angular bracket one arm of which has an opening through which the first-mentioned sleeve extends, said sleeve having a flange overlying said bracket arm whereby the bracket may be clamped to the gauge body by means of the first-mentioned sleeve, said testometer being detachably secured to the other arm of said bracket.

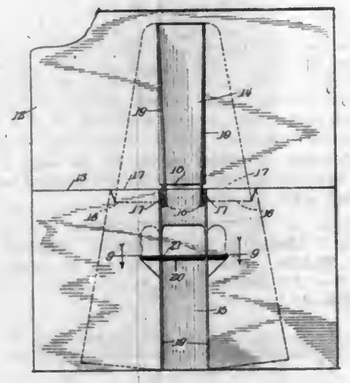
1,664,584. ELECTRIC COOKING AND HEATING APPARATUS. JOHN H. WILLIAMS, Toronto, Ontario, Canada. Filed Apr. 6, 1925, Serial No. 20,988, and in Canada Jan. 5, 1925. 2 Claims. (Cl. 219—39.)



2. In an electric stove, a chamber having outer and inner walls suitably spaced and lined and a cover closing

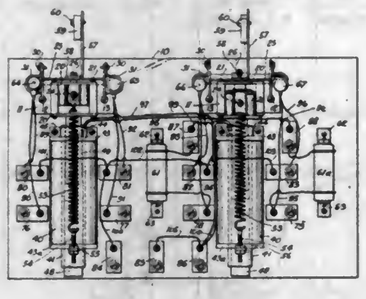
in the top, a coil of pipe having a liquid receiving end outside the chamber on one side and a faucet end beyond the other side, a plurality of clamps encircling the coil and having screw fasteners, and a resistance wire held in said clamps adjacent to said coil and supported thereby.

1,664,585. FOLDING DISPLAY CARD. HENRY ZIEMMERMAN, Chicago, Ill., assignor to Chicago Cardboard Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1925. Serial No. 27,737. 8 Claims. (Cl. 40—150.)



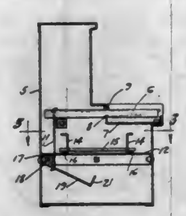
1. The combination of a folding display card and an easel therefor including a section foldable doubly upon itself when in supporting position to compensate for and to permit the forward folding and unfolding of the card.

1,664,586. SWITCHING APPARATUS. LLEWELLYN T. BARNES, Hempstead, N. Y., assignor to The Gem Engineering Corporation, Hempstead, N. Y., a Corporation of New York. Filed Dec. 5, 1925. Serial No. 73,462. 7 Claims. (Cl. 200—90.)



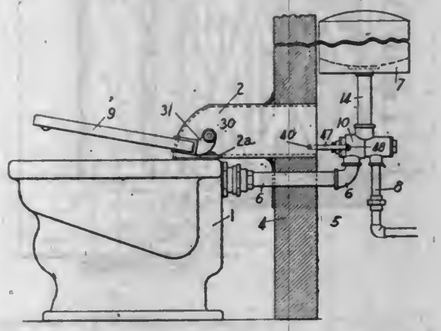
1. In a switching apparatus, a master control comprising a switch unit, adapted to operate similar units, having a pair of pivotally mounted mercury tube switches angularly disposed in relation to each other, so that one is closed, while the other is open, electrical means connected to the said closed switch to reverse the position of the said switches, and mechanical means to return the said switches to their original position to cause them to be opened and closed alternately.

1,664,587. PIANO. CHARLES E. BLALACK and GEORGE H. ECKSTEIN, Los Angeles, Calif. Filed Mar. 12, 1925. Serial No. 14,967. 8 Claims. (Cl. 84—404.)



1. In a toy piano, the combination of a case having key mounting, a row of keys pivotally disposed therein and extending into the case, said case having a music bar support disposed therein, a row of music bars mounted on said support, a shaft extending along and mounted upon said support, a row of hammers pivotally mounted on said shaft, each hammer being formed of sheet metal having lateral bearing ears at one end and an upturned head at the other, said keys and said hammer having aligned holes, link rods loosely extending through said holes and having laterally directed locking ends, said keys, music bars and hammers being arranged in a tier with the row of music bars in the center.

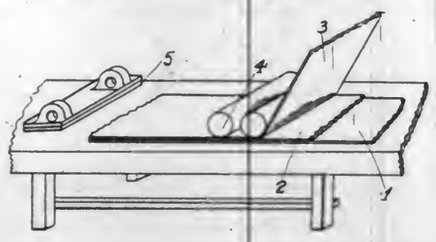
1,664,588. FLUSHING AND VENTILATING APPARATUS FOR CLOSETS. HENRY C. BOWLUS, Springfield, Ohio, assignor to Arthur D. Hosterman, Springfield, Ohio. Filed May 7, 1925. Serial No. 28,575. 11 Claims. (Cl. 4—21.)



1. In a device of the character described, a bowl, a flush pipe connected with said bowl, valve mechanism to control the flow of water through said flush pipe, a ventilating conduit mounted at the top of said bowl in open communication therewith and having its rear end connected with an outlet, a shaft rotatably mounted in the walls of said conduit and extending beyond said walls, an arm connected with said shaft, an actuating rod arranged within said conduit, connected at one end with said arm and connected at its other end with said valve mechanism, a spring acting on said rod to move the same in one direction, a seat, and hinge members for said sent mounted on the respective ends of said shaft for rotary movement with relation thereto, said hinge members and said ends of said shaft having cooperating parts to cause said seat to be partially elevated by the action of said spring and to cause said actuating rod to

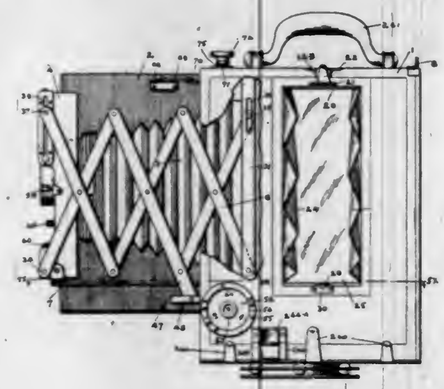
be moved against the tension of said spring by the movement of said seat in one direction but permit said seat to be moved in the other direction independently of said shaft.

1,664,589. FLOOR COVERING. NEIL L. CAMPBELL, Glendale, Ohio, assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 29, 1926. Serial No. 98,144. 8 Claims. (Cl. 154—49.)



1. A floor covering comprising a sheet of material as a base, a coat of paint thereon having the quality of being hard when dry, and a textile material embedded into the paint, with none of said paint penetrating to the upper surface thereof.

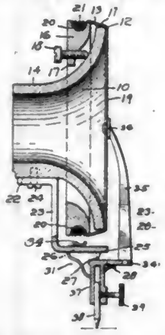
1,664,590. CIRCUIT CAMERA. ARTHUR V. CASSAL, Rochester, N. Y. Filed July 24, 1923. Serial No. 653,459. 59 Claims. (Cl. 95—15.)



1. A camera having a box, a compartment partitioned off at one rear corner of the box, a compartment partitioned off at another rear corner of the box with a narrow opening between them through which the light can pass from the lens to the film, a mirror mounted to cover said opening and being mounted at an angle to reflect the image from the lens to a vertical opening in one of the vertical sides of the camera.

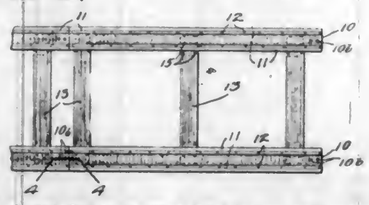
1,664,591. SOUND BOX FOR SOUND-REPRODUCING MACHINES. AUGUSTUS CLOT, West New York, N. J. Filed May 3, 1927. Serial No. 188,496. 4 Claims. (Cl. 274—35.)

4. A sound box for sound reproducing machines comprising, a shell embodying a tube which flares outwardly, a flexible fibrous diaphragm arranged at the outer large end of the shell and passed over its periphery and extending to the rear of the same, a tension ring surrounding the reduced portion of the shell and disposed rearwardly of the large end and having a groove upon its periphery, means for binding the edge of the diaphragm within the groove of said ring, adjusting screws carried by the ring and engaging the rear side of the large



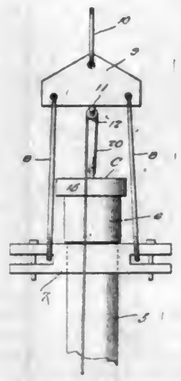
end of the shell, a bracket carried by the shell, a stylus pivoted upon the bracket, and a lever connected with the stylus and with the diaphragm.

1,664,592. VEHICLE SUPPORTING DEVICE FOR SOFT ROADS. RALPH M. COOLEY, St. Paul, Minn. Filed May 16, 1927. Serial No. 191,645. 10 Claims. (Cl. 238—14.)



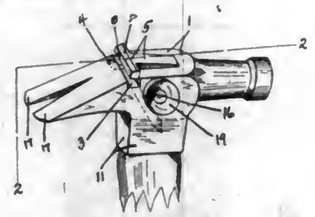
1. A device for supporting vehicles on soft roads comprising a pair of trough-shaped members of sheet material, rigid members secured to said trough-shaped members at each edge thereof and extending longitudinally thereof, and spaced transverse members connecting said trough-shaped members and holding the same in parallel relation.

1,664,593. OIL-TUBE CAP. JAMES W. COFFMAN, Webb City, Okla. Filed Feb. 7, 1927. Serial No. 166,457. 2 Claims. (Cl. 166—16.)



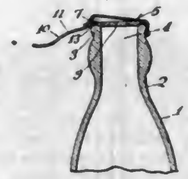
1. A device of the class described comprising a cap, a gasket in the cap, an eye on the cap, a cable engaged with the eye, an oil well tube engaging apparatus, a pulley mounted in the apparatus, said cable being trained over said pulley.

1,664,594. CLAW HAMMER. CHARLES D. CUMMINGS, Tully, N. Y. Filed Apr. 9, 1927. Serial No. 182,888. 5 Claims. (Cl. 7—8.)



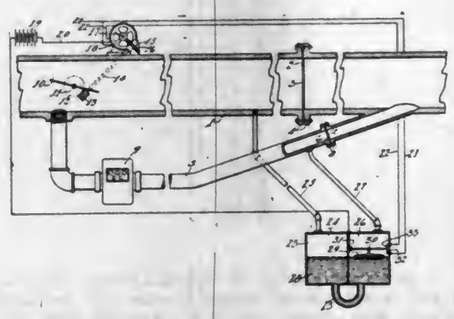
2. In a device of the class described, a hammer head, a recess in the top of said head, a movable member in said recess pivotally mounted in one end thereof and movable to a vertical position with respect to said recess, and a slot in the other end of said recess adapted to receive the head end of a nail under said movable member.

1,664,595. CRIMPED-CAP OPENER. FRANK L. DARLING, Long Beach, Calif. Filed July 16, 1926. Serial No. 122,909. 12 Claims. (Cl. 215—46.)



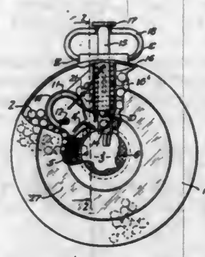
1. A crimp cap opener comprising in combination a bottle, a cap having a crimped flange, an opener formed of strip material having a reverse bend, the two sides of the strip engaging underneath the crimp of the cap at a considerable distance apart circumferentially of the bottle neck and the crimp to bend the flange outwardly a considerable distance circumferentially.

1,664,596. METHOD OF CONTROLLING THE FLOW OF FLUIDS IN CONNECTED CONDUITS AND DEVICE THEREFOR. JOHN C. DIEHL, Erie, Pa. Filed Jan. 4, 1924. Serial No. 684,313. 8 Claims. (Cl. 73—68.)



8. In a fluid flow controlling device, the combination of two conduits branching from a common source and having constrictions therein forming orifices of definite relation, and means automatically responsive to relative pressure changes at corresponding sides of the orifices to maintain an equal pressure and consequent definitely related flow through the orifices.

1,664,597. CIGAR LIGHTER. LESTER P. DITTEMORE, Topeka, Kans. Filed July 14, 1926. Serial No. 122,421. 6 Claims. (Cl. 67—7.)

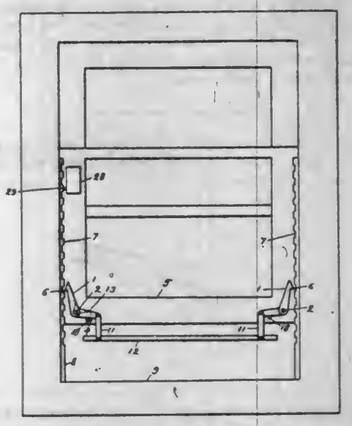


1. In a cigar lighter, a case functioning as a container for ignitible pellets, an ignition chamber concentrically positioned in said case, woven wire fabric covering one end of said chamber, a lid having an annular woven wire fabric concentrically positioned thereon and adapted to encompass the opposite side of said chamber, a plunger radially positioned in said case, means for feeding the pellets beneath the inner end of said plunger, ignition means for the pellet when driven within said ignition chamber.

1,664,598. PLASTIC HYDRATED LIME AND PROCESS OF MAKING IT. HIPPOLYT DITTLINGER, New Braunfels, Tex. Filed June 25, 1926. Serial No. 118,518. 10 Claims. (Cl. 23—186.)

9. As a new article of manufacture a shattered hydrate of lime of finish plasticity as freshly made into putty.

1,664,599. SAFETY DEVICE FOR WINDOWS. FRANK DZIERZENGA, Brooklyn, N. Y. Filed Feb. 28, 1927. Serial No. 171,571. 3 Claims. (Cl. 292—25.)



1. In a safety device for windows, the combination with catches pivotally connected with the window sash, of a bar, operating connections between said bar and said catches, strips with notches, attached to the sides of the window casing, said catches being adapted to engage said notches when said bar is raised.

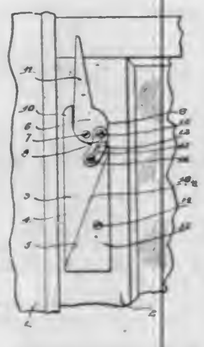
1,664,600. AMYLACEOUS MOLDED PRODUCT AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed May 13, 1926. Serial No. 108,987. 10 Claims. (Cl. 106—22.)

1. A thermoset molded product comprising cassava starch, sulphur and a filler.

1,664,601. CASSAVA-STARCH PLASTIC COMPOSITION AND METHOD OF MOLDING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed May 27, 1926, Serial No. 112,177. Renewed July 14, 1927. 3 Claims. (Cl. 18—55.)

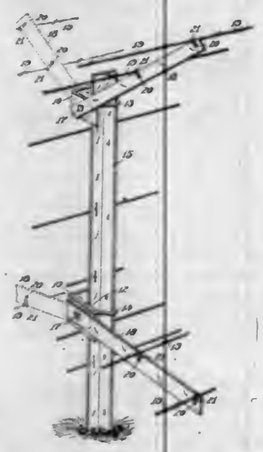
3. The process of making molded articles from a mixture of cassava starch, rosin, wood flour and water, which comprises hot-pressing such a mixture in a suitable mold and permitting the escape of steam during the pressing stage.

1,664,602. SASH HOLDER. DANIEL S. EVERETT, Jordan, N. Y. Filed Feb. 26, 1926. Serial No. 90,790. 3 Claims. (Cl. 292—342.)



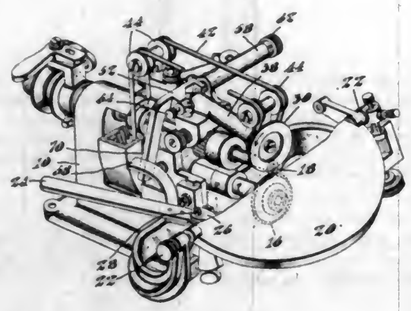
1. A sash holder comprising a wedge having two surfaces at angles to each other other than right angles, one of said surfaces being adapted to cooperate with a part to hold the sash in an adjusted position, a rocking member having a straight line surface for cooperating with the other surface of the wedge when the latter is in holding position and means for moving said wedge into engagement with the rocking member including a pivoted eccentric engaging said wedge.

1,664,603. FENCE GUARD. JAMES C. FARRINGTON, La Fayette, Ind. Filed Mar. 20, 1924. Serial No. 701,934. 2 Claims. (Cl. 256—11.)



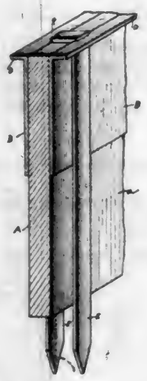
1. A fence guard comprising an L-shaped bracket, means for securing one leg of the bracket to the post with the legs of the bracket substantially at right angles to the post, and with the free leg of the bracket traversing the fence plane, and a wire carrying arm clamped to said free leg.

1,664,604. MACHINE FOR TRIMMING RUBBER HEELS. SIDNEY J. FINN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 3, 1926. Serial No. 85,718. 14 Claims. (Cl. 104—63.)



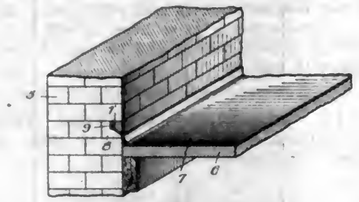
5. A machine for trimming the overflow from molded rubber articles comprising rotary shearing cutters and means for driving them, a work-engaging table relatively to which an article of work may be fed in cooperative relation to said cutters, a rotary disk the marginal portion of which is in lapped relation to one of the said cutters and is provided with a flat work-engaging face, and means for driving said disk to feed an article of work held manually against said flat face.

1,664,605. EXPANSION-JOINT INSTALLER. ALBERT C. FISCHER, Chicago, Ill. Filed July 16, 1925. Serial No. 44,137. 8 Claims. (Cl. 94—51.)



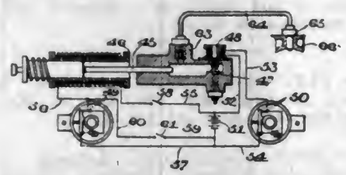
1. An installing device for expansion joints, comprising a pair of metal plates adapted to enter into embracing relation with opposed sides of an expansion joint, said plates having outwardly presented flanges, openings in the flanges, and stakes separable from the plates adapted to engage said openings, and extend downwardly over the sides of the joint for holding the plates to the joint and vertically support the joint prior to the formation of the concrete sections between which the joint is to be installed.

1,664,606. FLASHING FOR ROOFS OR THE LIKE. ALBERT C. FISCHER, Chicago, Ill. Filed Jan. 24, 1927. Serial No. 163,052. 9 Claims. (Cl. 108—26.)



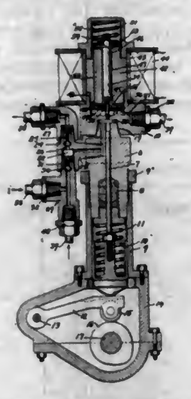
1. A flashing of the class described, comprising separable companion members adapted to enter into engagement with one another to provide a joint between them for the reception of the edge of a roof covering, said members being formed of a homogeneous mixture waterproofing binder and fiber.

1,664,607. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed Sept. 4, 1923. Serial No. 660,840. 7 Claims. (Cl. 123—140.)



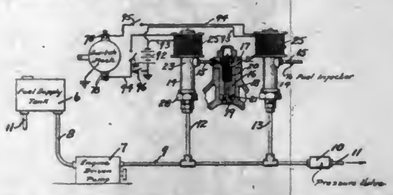
1. In a fuel injection system, the combination with a pump having a valve controlling passage to its fuel supply, of an electromagnet so located as to act directly on said valve for moving it in one direction to control the amount of fuel delivered by the pump, means for energizing said magnet, and adjustable engine-controlled means for controlling the operation of said energizing means.

1,664,608. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed May 12, 1924. Serial No. 712,830. 9 Claims. (Cl. 123—140.)



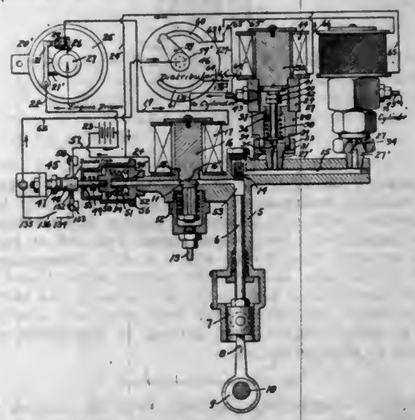
1. In a fuel injection system, the combination with a pump having a valve controlling passage of fuel to its fuel supply, of an electromagnet for controlling the operation of said valve, means for energizing said magnet, and engine-operated circuit control mechanism including means adjustable to vary the time said energizing means is rendered operative, and means adjustable to vary the duration of operation of said energizing means whereby to vary the operation of said valve and hence cause the pump to deliver variable quantities of fuel at the desired time during its working stroke.

1,664,609. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed July 28, 1924. Serial No. 728,805. 6 Claims. (Cl. 123—32.)



1. In a fuel injection system, the combination with a multicylinder engine, of a supply pipe containing fuel at injection pressure, means for supplying said pipe with fuel, branch conduits from said supply pipe leading to each cylinder of the engine, a fuel-pressure-operated injector controlling the passage of fuel from each branch conduit to the cylinder supplied thereby, an electromagnetically-operated valve in each branch conduit and constituting the sole means for controlling the operation of the fuel injector associated with that conduit, a source of electrical current, and circuit control means operated by the engine, for controlling the supply of current to the operating magnet of each electromagnetically-operated valve.

1,664,610. FUEL-FEEDING SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed Jan. 8, 1925, Serial No. 1,828. Renewed July 18, 1927. 18 Claims. (Cl. 123—139.)

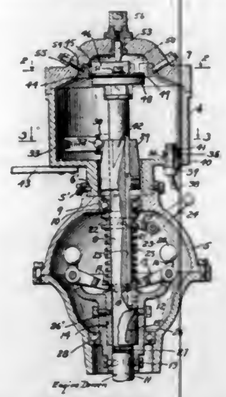


1. In a fuel feeding system for multicylinder internal combustion engines, the combination of a pump of variable delivery for delivering a metered charge of fuel to each of a plurality of engine cylinders during a complete engine cycle, a distributor valve for each cylinder controlling the passage of fuel from the pump to its cylinder, an electro-magnet for controlling each valve, and means for supplying current to each electro-magnet in predetermined order, including a current distributor and timing circuit control mechanism associated with said distributor.

1,664,611. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed Apr. 29, 1925. Serial No. 26,676. 8 Claims. (Cl. 123—32.)

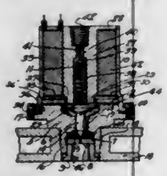
1. In a circuit controller for fuel injection systems, the combination with a switch including a movable contact, of an engine-driven timing shaft, a cam on said

shaft for controlling said movable contact, said cam being slidably mounted on said shaft and having a variable profile shiftable relative to said movable contact to vary the duration of the circuit closing periods of said



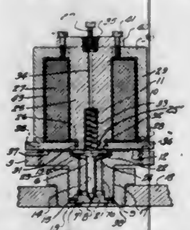
switch to vary the duration of the injection period, and means for angularly shifting said cam and shaft simultaneously with the shifting of said cam on said shaft to vary the time of injection as the injection period is varied.

1,664,612. FUEL-CONTROL VALVE. LOUIS O. FRENCH, Milwaukee, Wis. Filed Nov. 4, 1925. Serial No. 66,769. 14 Claims. (Cl. 137—139.)



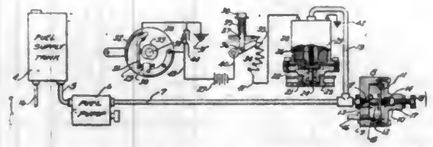
1. In an electromagnetically-operated control valve mechanism, the combination of a valve casing member, an iron-clad electromagnet having a fluid-tight pole face cooperating with said member to form a fluid-containing valve housing and including a central pole and an outer pole extending inwardly to within a short distance from said central pole, and a needle control valve biased to closed position and mounted in said housing and having an armature cooperating with said poles and overlying for a short distance that portion of the outer pole closest to said central pole.

1,664,613. ELECTROMAGNETIC VALVE. LOUIS O. FRENCH, Milwaukee, Wis. Filed Jan. 27, 1926. Serial No. 84,102. 7 Claims. (Cl. 137—139.)



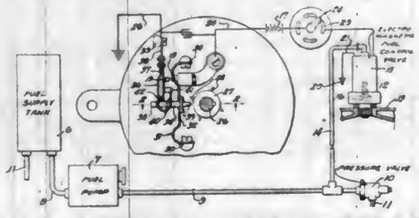
1. In an electrically-operated control valve mechanism, the combination of a valve casing member, an iron-clad electromagnet having a core including an inner pole, an outer pole surrounding the inner end of the core, and a sealing member interposed between the inner end portion of said core and said outer pole and clamped therebetween whereby said electromagnet has a fluid-tight pole face, said pole face cooperating with said valve casing member to form a fluid-containing valve housing, and a control valve mounted in said housing and having an armature cooperating with said poles.

1,664,614. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed Feb. 15, 1926. Serial No. 88,406. 14 Claims. (Cl. 123—32.)



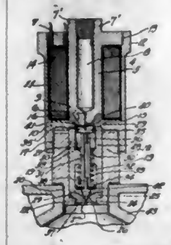
1. In a fuel supply system, the combination with a fuel metering device, of an electromagnet for controlling said device, a control circuit for said electromagnet including engine-controlled switch mechanism for controlling said electromagnet, and a variable resistance for varying the current supplied to said electromagnet and thus vary the action of said device and consequently the amount of fuel furnished the engine.

1,664,615. FUEL-INJECTION SYSTEM. LOUIS O. FRENCH, Milwaukee, Wis. Filed Mar. 26, 1926. Serial No. 97,637. 8 Claims. (Cl. 123—32.)



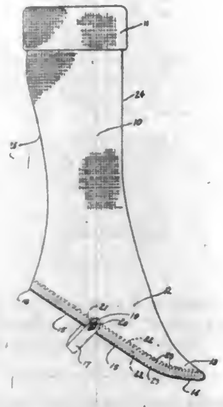
1. In a fuel injection system, the combination of a fuel-metering device, an electromagnet for controlling said device, and a control circuit for said electromagnet including means influencing the current supply to said magnet to actuate said device to supply substantially constant quantity fuel charges through a predetermined range of engine speeds and thereafter decreasing the amount of fuel above a predetermined engine speed and cutting off said fuel supply at a predetermined maximum speed.

1,664,616. FUEL-CONTROL VALVE. LOUIS O. FRENCH, Milwaukee, Wis. Filed May 26, 1926. Serial No. 111,775. 11 Claims. (Cl. 137—139.)



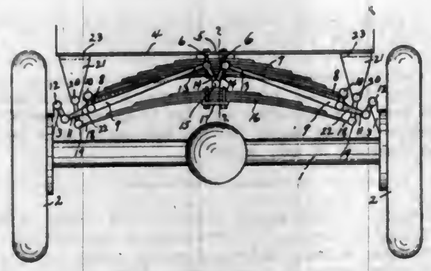
1. In an electromagnetically-operated valve mechanism, the combination with an electromagnet having a fluid-tight pole face including an inner and an outer pole, a clamping member associated with said outer pole and having a bore, a casing member removably fitting within said bore and clamped by said member against the pole face of said magnet, and a control valve working in said casing member and having an armature cooperating with said poles.

1,664,617. WOOLEN SPAT. ADOLPH L. FRIEDENTHAL, Portland, Oreg. Filed Apr. 29, 1927. Serial No. 187,630. 1 Claim. (Cl. 36—2.)



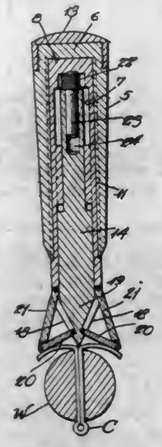
A spat comprising a body portion of ribbed relatively elastic material conforming closely to the shape of the wearer's leg, each end of said body portion terminating in an increasingly distended section the front of the edge of the bottom section being arcuately shaped to provide a snug fit about said wearer's shoe; the rest of said edge inclining upwardly along a straight line to a higher heel portion, and a detachable fastening means extending from one side of said spat to the other which construction allows the upward withdrawal of the spat to permit access to the shoe beneath, the interior surface of the whole edge of said distended section being provided with an elastic facing stitched thereto to prevent fraying and to preserve the elasticity thereof and snug engagement with the shoe aforesaid.

1,664,618. STABILIZING SPRING. JOHN W. FRY, Struthers, Ohio. Filed Mar. 28, 1927. Serial No. 179,157. 2 Claims. (Cl. 267—19.)



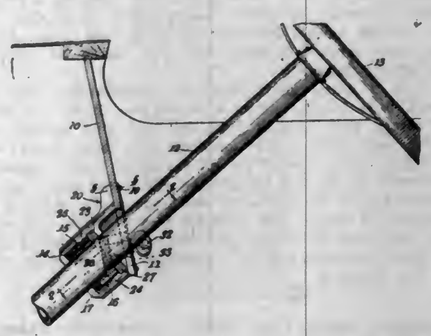
1. In a device of the class described, in combination with an axle and support members attached thereto, two levers inserted between two springs, the outer ends of said levers pivotally connected to the supports attached to the axle, the upper spring rigidly secured at a central point to a frame member to which is attached a body, a lower spring and means for securing outer ends of said lower spring to outer ends of the frame member above mentioned, inner ends of said levers pivotally attached to said lower spring, a curved upper surface on each of said levers, upturned ends of said upper spring, means for keeping said outer ends of upper spring under constant tension, substantially as described for the purpose set forth.

1,664,619. COTTER-PIN-SPREADING TOOL. ALBERT GIRARD, Canisteo, N. Y. Filed Mar. 18, 1927. Serial No. 176,494. 12 Claims. (Cl. 81—15.)



1. A cotter-pin spreading tool including a wedge member, spreading members hinged at the tapered sides of the wedge member to swing outwardly and forwardly relative to the latter, and means for swinging said spreading members.

1,664,620. LOCK FOR MOTOR VEHICLES. GEORGE A. GILLEN, New York, N. Y., assignor to Gillen, Kimmey, Baker Syndicate Inc., New York, N. Y. Filed Mar. 6, 1926. Serial No. 92,978. 2 Claims. (Cl. 70—127.)



1. A motor vehicle steering post lock comprising a collar adapted to be fixed to the steering post, a second collar disposed adjacent the first collar and adapted to be rotatably mounted on the steering post, a casing fixed to the motor vehicle and surrounding said collars, pin tumblers carried by the casing for interlocking en-

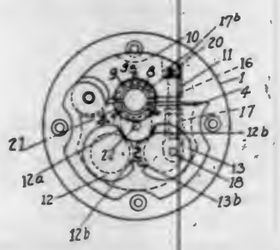
gagement with said fixed collar, said rotatable collar having cam faces thereon for engaging said pin tumblers, and key controlled means for turning said rotatable collar.

1,664,621. DEFLATION TOOL FOR TUBES OF PNEUMATIC TIRES. JUDSON L. GOFF, Topeka, Kans., assignor of one-half to John A. Goff, Topeka, Kans. Filed Aug. 29, 1927. Serial No. 216,217. 1 Claim. (Cl. 152—27.)



In a deflation tool for tubes of pneumatic tires, a tool of the kind described comprising a shaft having a handle on one end and a point on the opposite end, a slot diametrically passing through the shaft intermediate the handle and point, a V-shaped extension in the end of the slot adjacent the handle, all as and for the purpose described.

1,664,622. CRANK-SHAFT LATHE CHUCK. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed June 20, 1925. Serial No. 38,459. 6 Claims. (Cl. 82—40.)

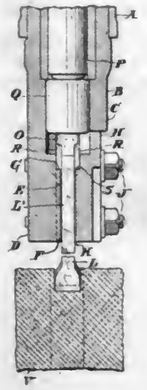


1. In a crank shaft lathe, the combination with a chuck body having shaft clamping means thereon arranged to surround a pin of the crank shaft, cheek grippers on the body for engaging the cheek of a crank shaft to center the shaft, said grippers comprising rotary bodies having intermeshing teeth, and cheek gripping jaws opposed to each other, and means for rocking one of the grippers.

4. In a crank shaft lathe the combination with a chuck body having journals lengthwise thereof, a pair of rotary pins in said journals, said pins having exposed ends formed with opposed cam faces to act as gripping jaws, and with intermeshing teeth whereby operation of one will operate the other, and said pins so mounted that the said jaws will engage the cheek of a shaft to be turned and mounted in the chuck, and center and grip the cheek, and means for operating the grippers comprising a bolt mounted off center in one of the grippers.

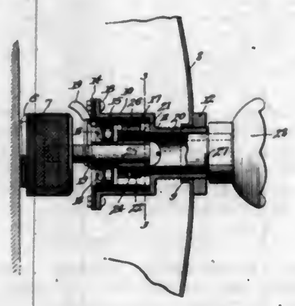
1,664,623. BROACHING TOOL. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 8, 1926. Serial No. 80,017. 2 Claims. (Cl. 121—32.)

1. A broaching tool comprising a flat rectangular body portion of substantially uniform cross sectional area throughout its length to prevent flexion thereof, a portion of said body portion comprising a shank adapted to cooperate slidably with a guiding attachment, a shoulder at one end of said portion forming a head adapted



to receive the blows of a rock drill piston and a cutting bit at the other end of the body portion, said bit being of substantially the same width as the body portion.

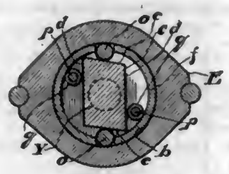
1,664,624. ELECTRIC-FIXTURE MOUNT. MORRIS HEICHEN, Brooklyn, N. Y. Filed July 24, 1926. Serial No. 124,634. 7 Claims. (Cl. 200—166.)



1. In an electric switch, the combination of a casing provided with switching contacts and having an aperture to receive a screw for fixing said casing in place; a switching element including a tubular actuator open at both ends and guided in a portion of said casing, the bore of said tubular actuator being alined with the aperture in said casing and so dimensioned as to permit the insertion of said screw.

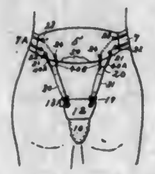
1,664,625. ROTATION MECHANISM FOR ROCK DRILLS. GEORGE W. HULSHIZER, Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 4, 1927. Serial No. 172,731. 7 Claims. (Cl. 121—7.)

1. In a rock drill having a cylinder provided with a piston, rotation mechanism for the piston comprising a rotation ring having a bore, a rifle bar in the bore extending into the cylinder to interlock slidably with the piston, means disposed loosely in the bore, means rotatable in the bore for guiding said means, and a cam in the second said means integral with the rifle bar for forcing the first said means firmly into engagement with



the rotation ring during one stroke of the piston, thus preventing rotation of the rifle bar and causing the piston to describe a partial revolution.

1,664,626. SANITARY PROTECTOR. YEI ITO, Selma, Calif. Filed Mar. 23, 1925. Serial No. 17,640. 1 Claim. (Cl. 128—291.)



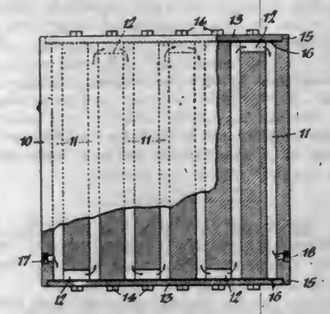
A catamenial sack support consisting of a belt having holes therethrough, said holes being adapted as a slideway for a string, said holes being arranged in pairs of two, the position of the holes on the left side of the belt being approximately similar to the arrangement of the holes on the right side thereof, an endless string for the right side of said belt and a separate endless string for the left side, each of said strings being threaded through one hole and back through the adjacent hole in said belt, each of said strings being attached at a loop at the front portion of the belt to a corner of the sack at the front portion thereof, and attached at the other loop end to a rear corner of said sack, said belt having a lining adapted to cover the holes and the portion of the strings on the inside of the belt.

1,664,627. SHADE ROLLER. BRONISLAW KACZMARSKI, Detroit, Mich. Filed Apr. 23, 1927. Serial No. 186,076. 1 Claim. (Cl. 150—29.)



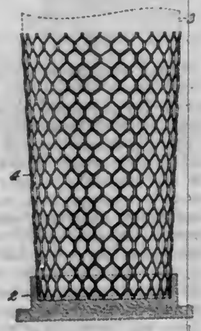
A shade-roller of the class described comprising a pair of end members, and a median part composed of a plurality of members each substantially triangular in cross-section and having its outer face curved at the arc of a circle to form with the other members the outer, substantially circular circumference of the roller, the outer ends of said members integral with said roller end members, one of said members sliding within the opening formed between the adjoining two members, bands for guiding and holding the members, a rack on one of said members, and a pawl pivotally secured intermediate its ends to the member next adjoining the member to which said rack is secured, and a spring plate yieldingly secured to the member next adjoining to the member carrying the rack to which the rear end of said pawl is secured for locking the parts in their relative adjusted positions.

1,664,628. FLUID-CIRCULATING PLATE. ARMIN GEORGE KESSLER, Buffalo, N. Y., assignor to Farrel Foundry and Machine Co., Buffalo, N. Y., a Corporation of Connecticut. Original application filed Aug. 20, 1925, Serial No. 51,374, Patent No. 1,621,742, dated Mar. 22, 1927. Divided and this application filed June 14, 1926. Serial No. 115,858. 3 Claims. (Cl. 18—17.)



3. A circulating plate of the character described, having a plurality of fluid-circulating channels having a common inlet and a common outlet and a recess in two opposing end walls thereof, the channels opening into said recesses, transverse grooves in the bottoms of said recesses forming connecting ports between said pair of channels, the grooves at one side of the plate being staggered with respect to those in the opposite side, cover plates seated in the recesses for closing the ends of said channels and the open sides of said grooves, each cover plate being common to the several channels and grooves opening in the corresponding recess, and means for detachably securing said cover plates in place.

1,664,629. METHOD OF PRODUCING TAPERED EXPANDED-METAL RECEPTACLES. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Apr. 10, 1926. Serial No. 101,201. 3 Claims. (Cl. 113—116.)



1. The method of producing tapered basket bodies, which consists in joining the ends of a rectangular expanded-metal sheet to form a cylinder, disposing said cylinder on end, and then lowering within said cylinder a tapered mandrel to effect gradual stretching of the sheet to conform to the size and shape of said mandrel.

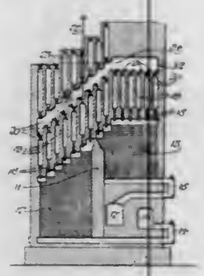
1,664,630. PROCESS FOR THE PRODUCTION OF MAGNESIUM OXIDE. WILLIAM KOEHLER, Cleveland, Ohio. Filed Dec. 21, 1923. Serial No. 681,979. 2 Claims. (Cl. 23—201.)

2. A cyclic process for obtaining magnesium oxide and calcium carbonate from raw dolomite, comprising calcining a mixture of magnesium chloride and raw dolomite to obtain magnesium oxide, calcium chloride, and carbon dioxide, collecting the carbon dioxide, dissolving out and collecting the calcium chloride, separately calcining a second portion of raw dolomite to obtain magnesium oxide and calcium oxide, and collecting the carbon dioxide, treating said magnesium oxide and calcium oxide with said calcium chloride and carbon dioxide to form magnesium chloride and calcium carbonate, separating said last obtained magnesium chloride and calcium carbonate, and utilizing the magnesium chloride for the decomposition of a new supply of raw dolomite as described in the first step of the process.

1,664,631. PROCESS FOR THE PRODUCTION OF REFRACTORY MAGNESIA COMPOUNDS. WILLIAM KOEHLER, Cleveland, Ohio. Filed Mar. 15, 1926. Serial No. 94,961. 10 Claims. (Cl. 106—9.)

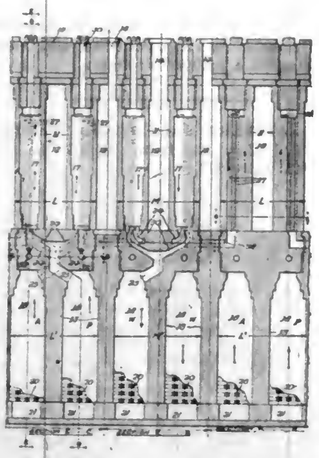
1. A process for the production of an oxide from dolomite comprising treating comminuted uncalcined dolomite with its lime equivalent of a metallic chloride, moderately heating the mixture, dehydrating the mass, dissolving out the calcium chloride formed and calcining the residue.

1,664,632. COKING RETORT OVEN. HEINRICH KOPPERS, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1921, Serial No. 497,368, and in Germany Nov. 7, 1919. 4 Claims. (Cl. 202—9.)



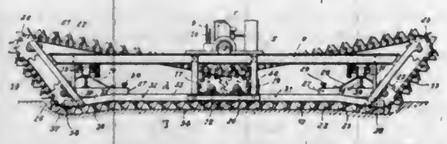
1. An inclined furnace chamber structure for producing gas and coke, comprising in combination: an inclined retort; vertical heating flues arranged alongside the lower end of said inclined retort having their lower ends arranged in an inclined plane substantially parallel to the plane of inclination of said retort; vertical heating flues arranged alongside the upper end of said inclined retort having their lower ends arranged in a substantially horizontal plane; a regenerator below and communicably connected with the vertical flues alongside the lower end of said retort; a regenerator below and communicably connected with the vertical flues alongside the upper end of said retort, each of said regenerators being adapted to alternate for inflow and outflow; the regenerator for the vertical flues alongside the lower end of said retort having its upper part arranged stepwise, each step being directly connected with a vertical flue, and the regenerator for the vertical flues alongside the upper end of said retort having the major portion of its upper part in a single horizontal plane for direct connection with its vertical flues; a waste gas collecting channel above said vertical flues and communicably connected therewith, said channel being inclined throughout a portion of its length over the vertical flues alongside the lower end of said retort, and extending horizontally throughout a portion of its length over the vertical flues alongside the upper end of said retort; the furnace structure being formed to provide a charging platform over said horizontally extended portion of the waste gas collecting channel.

1,664,633. COKING RETORT OVEN. NATHANIEL G. PARRY, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 6, 1921. Serial No. 498,872. 10 Claims. (Cl. 202—9.)



1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such coking chambers and respectively constituted of vertical combustion flues disposed into pairs; vertical out-flow channels in each heating wall communicably connected with a pair of combustion flues; duct means extended beneath the coking chambers, said duct means communicably connecting the individual vertical out-flow channels of one heating wall respectively with the individual vertical out-flow channels of an adjacent heating wall; and crosswise regenerators parallel with the coking chambers and the heating walls, such regenerators being disposed into in-flow and out-flow operating pairs; each regenerator of each pair being communicably connected with the combustion flues of a pair of adjacent heating walls; substantially as specified.

1,664,634. ROAD-SUBGRADING MACHINE. HERMAN K. LEHMER, Rockford, Ill. Filed Mar. 19, 1927. Serial No. 176,614. 12 Claims. (Cl. 37—109.)



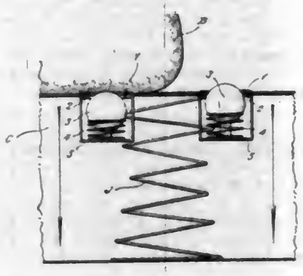
1. In a machine of the character described, a supporting frame having driving means carried thereby, a pair of laterally spaced track beams on which said frame is supported and along which the same is arranged to be fed, means for adjusting said beams as to pitch and elevation so as to determine the grading or banking of the road, one or more endless chain belts having ground cutting and conveying means operating thereon transversely with respect to said beams crosswise of the road, and a guide frame providing guideways for said belts whereby to determine the conformation of the crown of the road produced.

1,664,635. MILK-BOTTLE CLOSURE AND METHOD OF APPLYING SAME. DONALD G. MAGILL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1923. Serial No. 674,156. 1 Claim. (Cl. 215—38.)



A closure for milk bottles and the like, having in combination a bottle formed with an internal seat at its mouth, a disk in said seat, and a seal of latex applied in liquid form over said disk and the neighboring portion of the bottle and forming with said disk an hermetic and easily peelable and removable closure, said latex solidifying to produce an elastic non-constricting and sanitary seal which tears readily for the opening of the bottle.

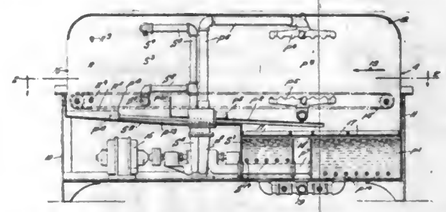
1,664,636. COOLING DEVICE. AUGUSTINE MAYER, St. Augustine, Fla. Filed Sept. 27, 1926. Serial No. 138,005. 2 Claims. (Cl. 155—179.)



1. A cooling device for a seat comprising an inflated cushion provided with a plurality of check valves consisting of spring pressed members disposed below the valve seats and having portions extending above the surface of the cushion, some of said valves being disposed within that area of the surface of the cushion with which the body of the user contacts, and others of said valves being disposed without that area of the surface.

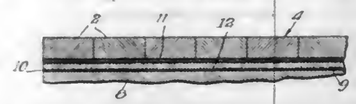
1,664,637. WASHING MACHINE. HENRY R. MERSELES, Bronxville, and PEIRCE M. WOOD, New Rochelle, N. Y., assignors, by mesne assignments, to Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio. Filed June 12, 1924. Serial No. 719,262. 5 Claims. (Cl. 141—9.)

1. A dish-washing machine having a casing providing a long hood, means for guiding the articles to be washed through said hood, a rotary liquid distributor located in said hood near its entrance end, a rinse spray located in said hood near its exit end, and a fixed projector extending transversely across the hood between the rotary projector and the rinse spray and arranged to project



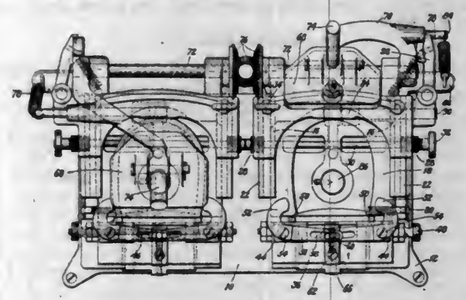
across the hood a curtain of liquid which screens the rinse spray from the liquid discharged by the rotary distributor.

1,664,638. FLOOR CONSTRUCTION. JOSEPH H. MITTER, Chicago, Ill. Filed Feb. 23, 1926. Serial No. 89,087. 5 Claims. (Cl. 94—3.)



5. A floor of the kind described, comprising a base, a layer of plastic material on the base adapted to provide a level top surface and a layer of tile bonded to the plastic material by a layer of sheet fibrous material, the fibrous sheet material having the tile secured to the top surface of the fibrous sheet material by suitable cementitious material, and the lower side of said fibrous sheet material having a granular coating adapting it to be bonded to the plastic material.

1,664,639. HEEL-ASSEMBLING MACHINE. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 3, 1926. Serial No. 85,681. 7 Claims. (Cl. 12—50.)

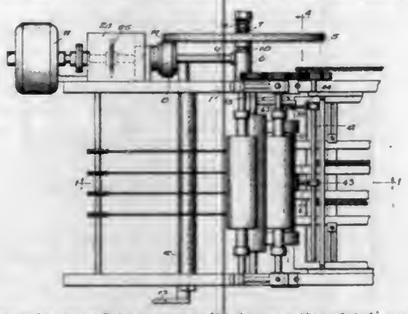


1. A duplex heel assembling machine, comprising two heel shaped assembling forms, and a separate, manually operable, pressure applying pad for each form, said pads being respectively movable toward and away from the forms and being so connected to each other that movement of one pad toward one form causes movement of the other pad away from the other form.

1,664,640. SHEET FEEDING AND DRIVING MEANS. CLAUDE L. POST, Chicago, Ill. Filed Oct. 3, 1924. Serial No. 741,426. 9 Claims. (Cl. 74—26.)

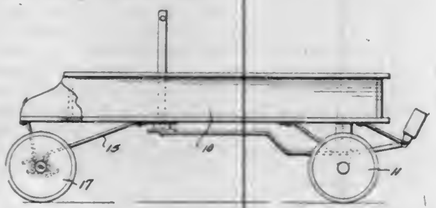
2. In a device of the kind described and in combination, driving mechanism comprising a driven element and a driving element, said elements each relatively adjustable

whereby movement of one element away from the other disengages them from operative relation, and movement of the other element engages them when the said first



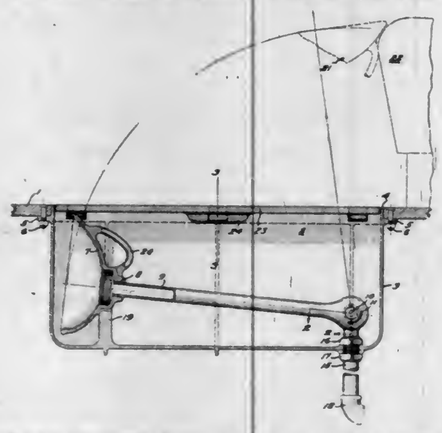
element is moved in a normally inoperative driving position, and one of said elements having a cylindrical face engageable with the other element in each of the driving positions.

1,664,641. COASTER WAGON. PAUL K. RAASCH, East Akron, Ohio. Filed Apr. 14, 1927. Serial No. 183,765. 2 Claims. (Cl. 208—34.)



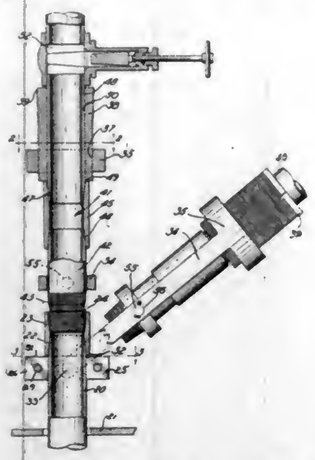
1. In a child's wagon or coaster having a floor, front steering wheels, a crank shaft mounted upon the wagon at the rear thereof and rearward of the rear edge of the floor and below the body, and having pedals mounted directly upon the crank shaft whereby it may be operated, wheels mounted upon the ends of the crank shaft, and means for transmitting power from the crank shaft to said wheels.

1,664,642. URINAL FOR AUTOMOBILES AND THE LIKE. GEORGE N. RANDLE, Oakland, Calif. Filed Nov. 30, 1925. Serial No. 72,076. 1 Claim. (Cl. 4—110.)



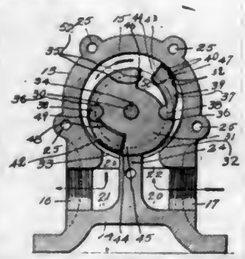
In an automobile having a floor, an elongated casing extending longitudinally of said automobile, an outlet pipe secured to said casing and opening to the rear of said vehicle, a tube pivoted at one end to said outlet pipe and adapted in one position to lie within said casing, a basin on the other end of said tube, and a support in said casing for holding said tube inclined downwardly toward said outlet pipe.

1,664,643. CAPPING DEVICE FOR OIL WELLS. CHESTER A. RASMUSSEN, Long Beach, Calif. Filed June 28, 1926. Serial No. 118,955. 12 Claims. (Cl. 166—15.)



1. A control means for capping the tubing of a flowing oil well comprising: securing means adapted to be secured to said tubing below the upwardly projecting open end thereof; reins pivoted at their lower end to said securing means so that they can swing about a horizontal axis passing through said tubing near the axis thereof; a threaded member carried by the upper end of said reins; capping means; and a rotatable member through which said capping means extends threaded in said threaded member and engaging said capping means to force it downwardly into a position where it may be secured in fluid-tight relationship with said tubing.

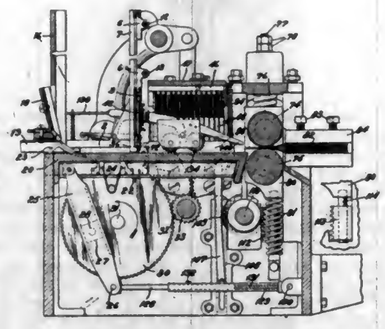
1,664,644. ROTARY PUMP. ARTHUR E. SIMPSON, West Frankfort, Ill., assignor of one-seventh to H. L. Webb, one-seventh to J. M. Harris, one-seventh to B. H. Webb, one-seventh to T. M. Silkwood, one-seventh to R. P. Blake, and one-seventh to C. E. Pitchford, West Frankfort, Ill. Filed June 2, 1924. Serial No. 717,307. 3 Claims. (Cl. 103—140.)



1. A rotary pump comprising a housing having a base, a cylinder formed in said housing above said base, a rotor eccentrically mounted in said cylinder, a pair of substantially triangular pistons pivotally mounted at their rear ends and diametrically opposite each other in said rotor and adapted to contact with the periphery of said cylinder, a plurality of intersecting ribs formed on

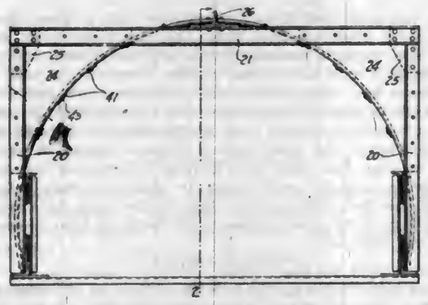
the outer face of said pistons, bearing metal located between said ribs, a suction chamber formed in said base, a delivery chamber formed in said base, a plurality of laterally spaced parallel passages gradually increasing in depth and having ports therein at their point of greatest depth for connecting the suction and delivery chambers with the interior of the cylinder, and an abutment located between said ports and said passages and the chambers in the base, said abutment being in constant contact with the rotor.

1,664,645. EVENING AND GRADING MACHINE. GEORGE L. SMITH, Manchester, N. H. Filed Feb. 7, 1923. Serial No. 617,521. 25 Claims. (Cl. 69—13.)



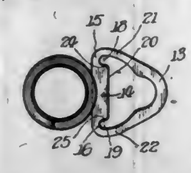
1. In a machine of the character described, the combination of feeler mechanism for detecting variations in the thickness of a piece of sheet stock, said mechanism comprising a series of feelers arranged to engage the stock simultaneously, said feelers being individually movable in conformity to the thickness of the portions of the stock engaged thereby and being operative to detect the thinnest portion of the stock so engaged, a magazine for holding a supply of said pieces of stock, a rigid table for supporting the pieces of stock while they are engaged by said feelers, means for feeding the pieces of stock one at a time from said magazine over the surface of said table and positioning them for engagement by said feelers, and additional means under control of said feeler mechanism and independent of said feeding means for subsequently treating said pieces of stock in accordance with the thickness determinations made by said feeler mechanism.

1,664,646. PORTABLE OVERCAST. FREDERICK A. SWEET, Salt Lake City, Utah. Filed June 28, 1926. Serial No. 119,090. 5 Claims. (Cl. 61—42.)



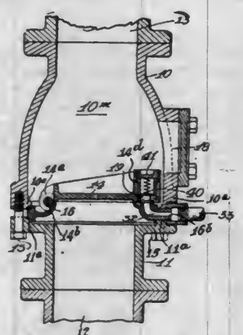
1. A portable overcast comprising a collapsible framework having portal posts spaced apart from each other transversely and longitudinally, transverse chord members and longitudinal side members extending between said portal posts, a ridge member extending between said chord members, and arched body plates, detachably connected at their upper ends to said ridge member and at their lower ends to said longitudinal side members.

1,664,647. MEANS FOR ATTACHING COILED SPRINGS. OSCAR J. SUNDSTRAND, Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del., a Corporation of Delaware. Filed Nov. 22, 1923. Serial No. 676,374. 4 Claims. (Cl. 267—73.)



1. An attaching element for a coiled spring comprising a piece of relatively thin material having an opening adjacent one edge thereof, said opening having two notches extending toward said edge, the notches being adapted to receive opposite sides of a coil of the spring.

1,664,648. VALVE FOR FIRE-EXTINGUISHING SPRINKLER SYSTEMS. EMIL TYDEN, Evanston, Ill. Filed Jan. 29, 1924. Serial No. 689,355. 2 Claims. (Cl. 277—20.)

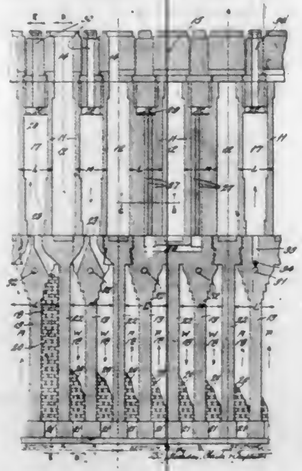


1. In a construction of the class indicated a main valve body and an immediately antecedent water pipe element on which said valve body is mounted at the intake of the latter; a valve seat member peripherally dimensioned for clamping engagement between the facing surfaces of said valve body and pipe element marginal with respect to the registering apertures of said parts; and means for securing the valve body and pipe element together adapted for clamping said valve seat between said marginal areas, said valve seat member being dimensioned as to thickness for exposing a substantial width of peripheral area outwardly between the two members between which it is clamped, said valve seat member having formed in it an auxiliary duct opening at the inner end in the direction toward the seating movement of the main valve and opening at the outer end through the exposed periphery of said valve seating member, and a valve carried by the main valve for controlling the inner end of said duct.

1,664,649. COKING RETORT OVEN. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 6, 1921, Serial No. 498,796. Renewed Jan. 29, 1926. 3 Claims. (Cl. 202—9.)

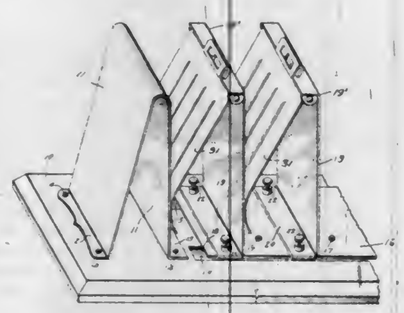
1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such

coking chambers and respectively comprising vertical combustion flues; vertical out-flow channels communicably connected with a pair of combustion flues; duct means extended beneath the coking chambers, said duct means communicably connecting transversely of the intervening coking chambers the vertical outflow channels of alternate heating walls respectively with the correspond-



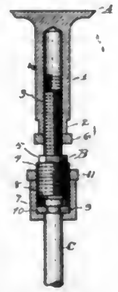
ing vertical out-flow channels of intermediate heating walls; and crosswise regenerators parallel with the coking chambers and the heating walls, such regenerators being disposed into in-flow and out-flow operating pairs, both regenerators of each pair corresponding to and being communicably connected with combustion flues of only a single heating wall; substantially as specified.

1,664,650. CHECK-SORTING RACK. WYNAND VAN KORLAAR, Grand Rapids, Mich. Filed July 29, 1925. Serial No. 46,921. 4 Claims. (Cl. 211—11.)



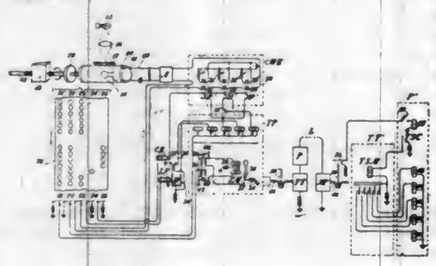
1. A sorting rack comprising a base, guide means on the base, an end member secured to said base, and movable partitions carried by said guide means, said movable partitions comprising a base adapted to overlap the outer edges of said guide means, means for engagement with said guide means for holding said partition base on said guide means in a predetermined position, an upstanding plate carried by said partition base, a hinged presser member mounted on said upstanding plate, spring means for urging said hinged presser member outwardly and against the adjacent partition, and indicating means mounted on said partition.

1,664,651. TAPPET FOR INTERNAL-COMBUSTION ENGINES. ITALO VIRONDA, Battle Creek, Mich. Filed Oct. 5, 1927. Serial No. 224,186. 2 Claims. (Cl. 123—90.)



2. A tappet head having a reduced interiorly screw-threaded stem, a slack take-up having a reduced exteriorly screw-threaded shank screwed into said stem, a jam-nut fitted on said shank and abutting said stem, said take-up having an enlarged screw-threaded extremity, a thimble screw-threaded onto said enlarged screw-threaded extremity, a push-rod having an annular groove near its upper end fitted into a reduced open end of said thimble and abutting said take-up, a split ring fitted into said annular groove and occupying a position within the bottom of said thimble and its interior wall to prevent the withdrawal of said push-rod, and a jam-nut run on the enlarged end of said take-up and abutting said thimble to prevent the loosening of the parts.

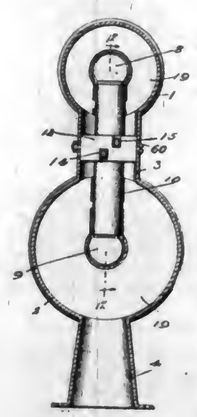
1,664,652. PICTURE-TRANSMITTING SYSTEM. EDWARD F. WATSON, Larchmont, and ALLAN WEAVER, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 26, 1924. Serial No. 702,108. 8 Claims. (Cl. 178—11.



1. In combination, a photoelectric cell, a glass drum to carry a picture film, means to rotate the drum and traverse it along its axis, means to direct a beam of light through a spot of the film on the drum to said cell, so that as the drum rotates and advances, such spot will describe a helical course relatively thereto, selector magnets, means to control them by the effect of the said cell according to the light incident thereon, means to punch in a tape the code combinations determined by said selector magnets, and means to punch carriage return and line feed code combinations in the same tape when the edge of the film intersects the beam of light incident on the said cell.

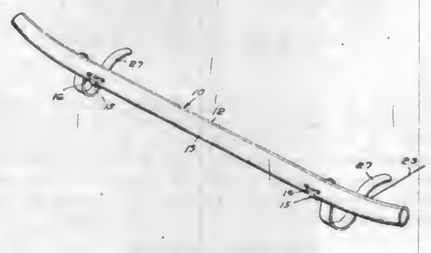
1,664,653. SIGNAL LANTERN. EDWARD J. WELDER, San Antonio, Tex. Filed Aug. 3, 1920. Serial No. 400,897. 2 Claims. (Cl. 177—329.)

2. In a signal lantern, a casing comprising spaced hoods and a reduced tubular portion joining the hoods, an insulating bracket mounted within the casing and comprising oppositely extending attaching arms and posts extending centrally from and disposed at rightangles to said arms, said arms having a central opening extending longitudinally therethrough and their outer ends shaped



to conform to the cross sectional shape of the tubular portion of the casing, a bolt extending through the opening and the tubular portion of the casing to secure the bracket in position and lamp sockets mounted upon the posts and extending into the casing heads.

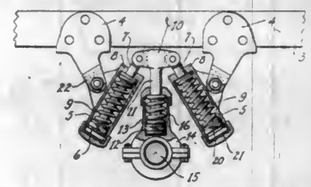
1,664,654. COMBINED BUMPER AND SAFETY APPLIANCE. JOSEPH H. WHITE, Florence, S. C., assignor of one-half to Hal H. Harbin, Florence, S. C. Filed Aug. 11, 1927. Serial No. 212,337. 9 Claims. (Cl. 293—41.)



1. In a combined bumper and safety appliance, a tubular bumper element embodying a relatively stationary bumper section and a movable bumper section, means to lock the movable bumper section in a closed position, means to automatically shift the movable bumper section to an open position when released, and a self-opening safety appliance adapted when collapsed to be stored within the tubular bumper element and attached to the stationary bumper section.

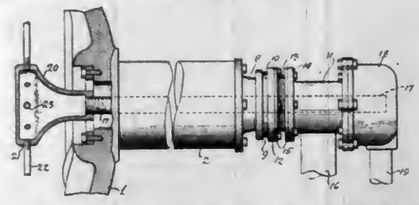
1,664,655. VEHICLE SPRING. WERNER ARNOLDS, Porta Westfalen, Germany, assignor to F. H. Westerschulte, Chicago, Ill. Filed Jan. 9, 1924. Serial No. 685,278. 4 Claims. (Cl. 267—20.)

1. In a vehicle having a frame and an axle, a cylinder pivoted to siad frame and having a restricted open end, a piston in said cylinder, a stem fixed to said piston and projecting out of said open cylinder end, a compression spring in said cylinder between said piston and restricted end, and resilient means pivotally connecting the projecting end of said stem with said axle, said means comprising a second cylinder with its closed end rotatably mounted on said axle, and having a restricted open end, a piston in said second cylinder, a stem fixed to said



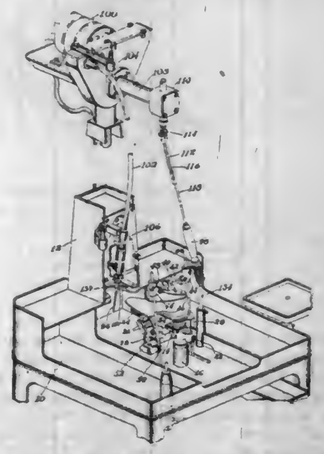
piston and projecting from said second cylinder, and means pivotally connecting the projecting ends of said two stems.

1,664,656. DRIER CONSTRUCTION. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed May 10, 1926. Serial No. 107,851. 2 Claims. (Cl. 34—4.)



1. A steam heated drying cylinder having an inner peripheral groove and a hollow trunnion formed on one end thereof, a condensate removal conduit separately mounted in said hollow trunnion and extending through the end of said cylinder, a manifold mounted on the inner end of said conduit and a plurality of condensate conducting means removably secured to said manifold and adjustably extending into said groove.

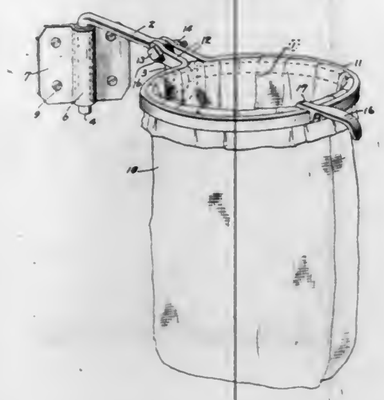
1,664,657. APPARATUS FOR USE IN MAKING SHOES. FREDERIC E. BERTRAND, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 18, 1922, Serial No. 561,901, and in Great Britain May 25, 1921. 27 Claims. (Cl. 12—123.)



1. A shoe support comprising, in combination, means for supporting a heel in upright position, a support for the forward end of a shoe clamped against the heel, said

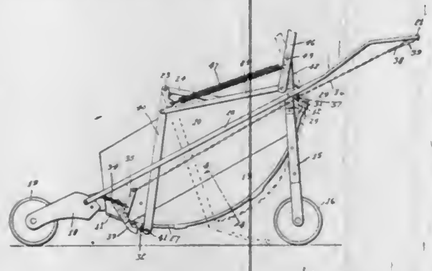
support being mounted for independent tilting and up-and-down adjustment relatively to the heel supporting means, and a member carried by said adjustable support and slidingly clamped therein to engage the side of the shoe to prevent it from turning.

1,664,658. JELLY-BAG HOLDER. CLYDE P. BLAZER, Nehalem, Oreg. Filed Feb. 21, 1927. Serial No. 169,934. 2 Claims. (Cl. 83—26.)



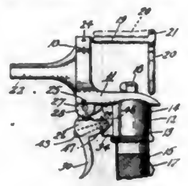
1. In combination, a supported bracket presenting a vertical guideway, a rod adapted to slide into the guideway having an arm extending horizontally therefrom, a horizontal ring on the end of said arm, a second ring pivoted to the arm so as to telescope on the first ring, a finger-grip extending from the second ring diametrically opposite the arm and a stop lying in the plane of said second ring and associated therewith limiting the telescoping engagement of the rings.

1,664,659. CATCHER ATTACHMENT FOR LAWN SWEEPERS AND THE LIKE. ALFRED J. BREEDEN, Grinnell, Iowa. Filed May 17, 1927. Serial No. 192,009. 6 Claims. (Cl. 56—200.)



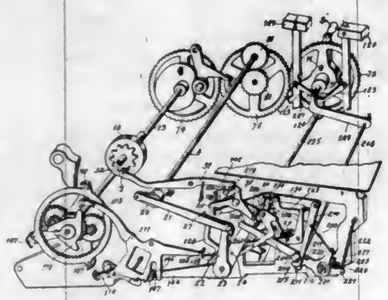
1. A catcher comprising a container having parallel side members, a back member and a front member to form an open bottom, the lower edges of the side members being provided with pivoted segments to rest normally inclined inwardly, a bottom member comprising a flexible apron having one end secured adjacent to the back and its opposite end secured adjacent to the lower edge of said front member, means for detachably locking the front edge of said apron in the last said position, and means for releasing said locking means.

1,664,660. NASAL RETRACTOR OR SPECULUM. WILL J. CAMERON, Chicago, Ill. Filed Jan. 12, 1927. Serial No. 160,635. 9 Claims. (Cl. 128—2.)



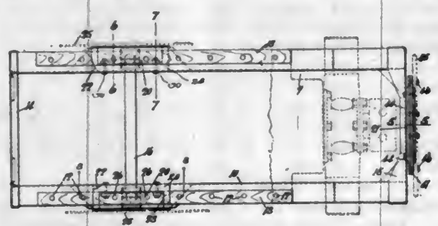
1. An instrument of the kind described comprising a barrel, oppositely disposed jaws pivoted on said barrel and jointly forming a walled passageway, a trigger having its fulcrum external to said barrel, and means operatively connecting said trigger to said jaws, whereby the movement of said trigger opens and closes the outer portions of said jaws.

1,664,661. FULL-CYCLE POSITIONING MECHANISM. GEORGE C. CHASE, South Orange, N. J., assignor, by mesne assignments, to Monroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Nov. 7, 1925. Serial No. 67,676. 15 Claims. (Cl. 235—82.)



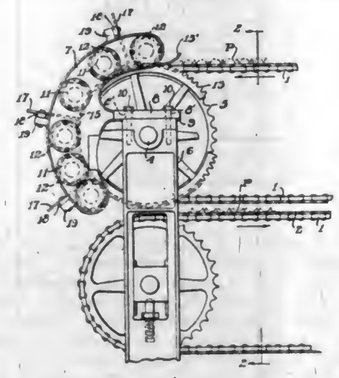
1. In a calculating machine having numeral wheels and actuating mechanism therefor, stopping means comprising the combination with means operable after the actuating mechanism passes through full cycle position to retard said mechanism and return the same to full cycle position, of means operable automatically to lock the actuating mechanism at rest in full cycle position.

1,664,662. ELASTIC MOTOR MOUNTING FOR VEHICLES. HARVEY D. GEYER and VIRGINIUS E. CLARK, Dayton, Ohio, assignors to Dayton-Wright Company, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 16, 1921. Serial No. 522,879. 1 Claim. (Cl. 180—64.)



An elastic shock absorbing support for mounting an engine upon a vehicle, comprising: an outer and an inner box-shaped member internesting with one another, one of said members being rigidly secured to the engine while the other member is rigidly secured to the vehicle, said outer box-shaped member being sufficiently larger than said inner box-shaped member as to leave a space between the corresponding sides of said box-shaped members, and elastic material such as rubber completely filling the space between said members, whereby said elastic support is rendered yieldable in all directions.

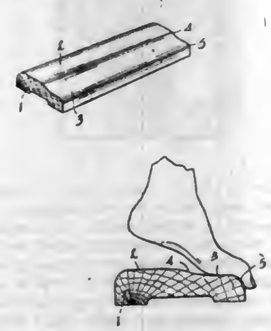
1,664,663. TURNING MECHANISM FOR CONVEYING DEVICES. WILLIAM D. COIL, Muncie, and WILLIAM J. DE REAMER, Crown Point, Ind. Filed Sept. 7, 1926. Serial No. 133,818. 13 Claims. (Cl. 198—28.)



1. In a mechanism of the character described, supporting standards, a rotatable shaft journaled in said standards, a drum fast to said shaft, a gear fast to said shaft, a series of guide and feed rollers arranged about the drum in concentric relation therewith with their peripheries having a direct contact with the material being conveyed about said drum, and a pinion connected with each roll in mesh with said gear.

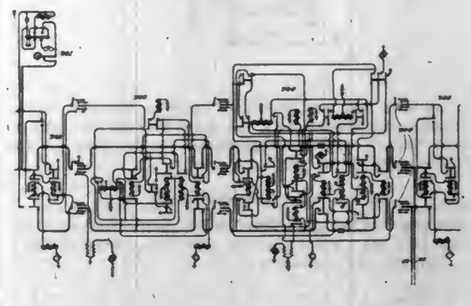
4. In a mechanism of the character described, a rotatable cylindrical conveying member, a series of guide and feed rolls arranged about a portion of the periphery thereof, and a series of curved guide strips supported between said feed rolls and said conveying member, each of said rolls being provided with a series of grooves to receive said guide strips.

1,664,664. EXERCISING DEVICE. LEO J. CRUM, Kalamazoo, Mich., assignor of one-half to Lee L. Vosler, Kalamazoo, Mich. Filed Mar. 4, 1927. Serial No. 172,708. 1 Claim. (Cl. 272—57.)



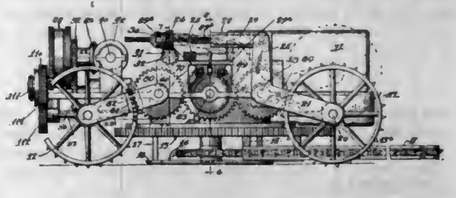
A device for the use in exercising having a face comprising a longitudinally extending flat rear portion and a longitudinally extending lower front portion merging into the flat rear portion with an upward curve and terminating in a downwardly curved front edge so that a user may stand upon the device with the heel upon the flat rear portion and the ball upon the lower front portion and with the toes projecting over the curved front edge.

1,664,665. TELEPHONE SYSTEM. HIRAM D. CURRIER and WILLIAM G. SHULL, Chicago, Ill., assignors to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed Sept. 18, 1920, Serial No. 411,289. Divided and this application filed Mar. 9, 1925. Serial No. 13,963. 12 Claims. (Cl. 179—27.)



1. A telephone system including a calling subscriber's line, a called subscriber's line, automatic switches and a trunk circuit provided with a manual terminal for interconnecting said subscribers' lines, automatic means in the trunk circuit for clearing the same when the called subscriber replaces his receiver so that a second call may be extended from said automatic switches to said trunk circuit without operating the call bell at the called substation, and means for said trunk circuit for denoting a recall by the called subscriber.

1,664,666. MINING MACHINE. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1922. Serial No. 566,154. 58 Claims. (Cl. 262—28.)

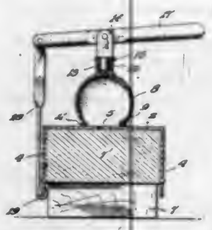


1. In a mining machine, a motor, a frame having a pair of traction devices spaced longitudinally of one side of said frame and normally in supporting engagement with the ground, and means for operating the same, a cutting element pivotally connected to said frame intermediate said traction devices to swing in a horizontal plane and means operated by said motor for elevating said traction devices to permit said cutting element to pass thereunder.

1,664,667. DEVICE FOR FORCING ICE-CREAM BRICKS FROM MOLDS. CLEVELAND G. DAVIS, Grand Rapids, Mich. Filed Feb. 4, 1927. Serial No. 165,924. 1 Claim. (Cl. 107—8.)

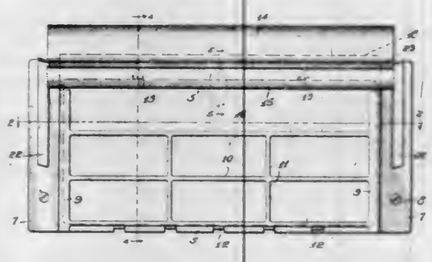
The combination with an ice cream brick mold having an opening in its bottom, and a bulb having an open end, said open end of the bulb being engaged with the

bottom of the mold and in registration with the opening, said opening affording communication between the bulb and interior of the mold, a lever pivotally connected with the bulb, a link pivotally connected with one end



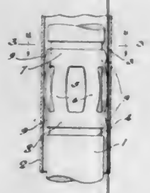
of the lever and having a hook upon its free end for detachable engagement with the mold to hold the bulb in place thereon during reciprocation of the lever as and for the purpose set forth.

1,664,668. CARD HOLDER. WILLIAM W. DEGLER, Cumberland, Md. Filed Apr. 27, 1927. Serial No. 187,081. 4 Claims. (Cl. 40—17.)



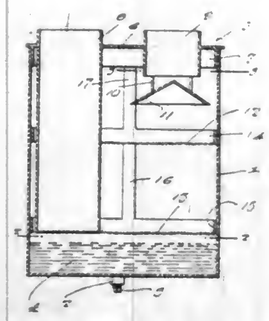
1. A card holder comprising, a body portion having means for receiving and holding a card and provided with a forwardly projecting stop, attaching elements secured to the body portion, and a roof element hinged upon the body portion and covering the same, said roof element having a part arranged to directly engage with the forward face of the card beneath the stop.

1,664,669. ANTIRATTLE BRACELET. HARRY M. DENYES, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 4, 1927. Serial No. 172,782. 5 Claims. (Cl. 74—39.)



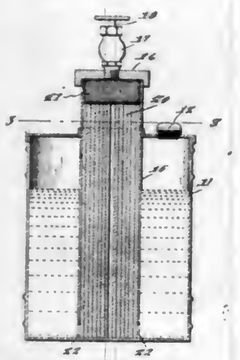
1. In combination, two relatively movable members located one within another in spaced relation, a portion of adjacent surfaces of said members having a relatively greater clearance space therebetween than the remaining portions thereof, and a resilient spacer element interposed between said members in the relatively large space and provided with enlargements to increase the width of the spacer beyond the relatively small intermediate space whereby the spacer element is held within the larger space.

1,664,670. AIR CLEANER. ROBERT R. DOLLINS, Marland, Okla. Filed May 20, 1926. Serial No. 110,475. 1 Claim. (Cl. 183—15.)



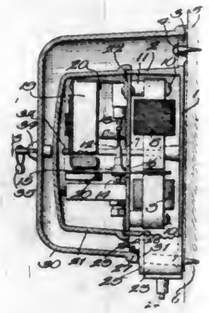
As a new product of manufacture, an open top cylinder adapted to contain a predetermined quantity of cleaning liquid, and an insertable unit comprising a cover plate for said cylinder, an air intake and conducting tube depending from said cover plate, an outlet in said cover plate, a deflector cone carried by the outlet in spaced relation, a skeleton supporting structure depending from the cover plate, and screens carried by said supporting structure, one above the other, the lower screen being associated with the inner end of the tube and the upper screen being disposed below the deflector cone.

1,664,671. LUBRICATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM C. EISENGART, Pittsburgh, Pa. Filed Aug. 9, 1926. Serial No. 128,211. 2 Claims. (Cl. 261—107.)



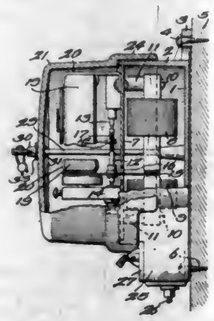
1. A lubricating device comprising a supply tank, a hollow tubular member arranged centrally within the tank, a felt roll arranged within the tubular member and adapted to be maintained saturated with lubricant from said tank through openings in the tubular member adjacent the lower end thereof, said tubular member projecting above said tank and having a plurality of vent openings, a cap closing the upper end of the tubular member, a supply pipe leading from the tubular member, and a valve in said pipe and supported on said cap and controlling communication between the pipe and said member.

1,664,672. INDUCTION ELECTRICITY METER. ALBERT L. EMENS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Mar. 12, 1926. Serial No. 94,229. Renewed Oct. 14, 1927. 3 Claims. (Cl. 171—34.)



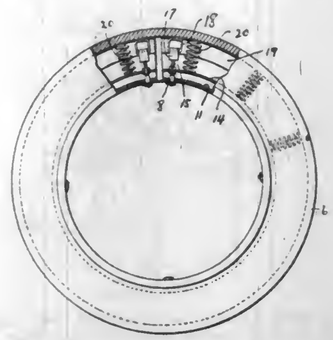
3. In an induction electricity meter, the combination with a supporting base having a forwardly projecting wall to constitute said base a chamber; of current and pressure electromagnets disposed within the chamber; a spindle rotatably supported upon said base in front of said magnets; a metallic disc upon said spindle and in inductive relation to said magnets; a cover seated upon the front portion of the aforesaid wall; and a second cover covering the first cover and surrounding said projecting wall and extending rearwardly beyond the place of engagement of the first cover with said forwardly projecting wall.

1,664,673. INDUCTION ELECTRICITY METER. ALBERT L. EMENS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Dec. 24, 1926. Serial No. 156,880. 4 Claims. (Cl. 171—34.)



3. In an induction electricity meter, the combination with a supporting base having a forwardly projecting wall to constitute said base a chamber; of a terminal chamber connected with and extending outwardly from said wall; current and pressure electromagnets disposed within the chamber; a spindle rotatably supported upon said base in front of said magnets; a metallic disc upon said spindle and in inductive relation to said magnets; and a meter cover upon the base and having a skirt continuation which has a portion extending rearwardly beyond the front of said terminal chamber.

1,664,674. RESILIENT TIRE. EDGAR FREDRICK, New Orleans, La., assignor of one-half to Louis J. Le Blanc, Jefferson Parish, La. Filed Apr. 9, 1927. Serial No. 182,423. 3 Claims. (Cl. 152—8.)

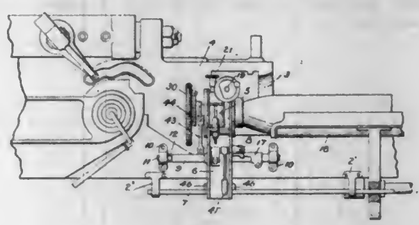


1. A split ring channel member for fitting inside a tire shoe, to hold the same with its beads engaged with the flanges of the rim, a closure plate for the channel member, a split ring plate, springs connecting the split ring plate with the closure plate, and link structures connecting the split ring plate with the assembled closure plate and channel member, said split ring plate adapted to fit in the outer portions of the tire shoe and being curved transversely for this purpose.

1,664,675. DUPLICATING. DAVID GESTETNER, London, England, assignor to D. Gestetner Limited, London, England. Filed June 15, 1923, Serial No. 645,708, and in Great Britain Oct. 27, 1922. 2 Claims. (Cl. 41—38.6.)

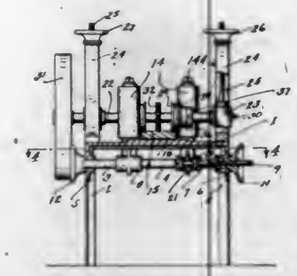
1. An improved flexible stencil sheet comprising a backing of yoshino or like paper and covered with a stencil layer having in it a white titanium pigment.

1,664,676. FUSE SETTER. RALPH L. GOETZENBERGER, Philadelphia, Pa. Filed Mar. 13, 1925. Serial No. 15,389. 11 Claims. (Cl. 89—1.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In combination with a gun including a pivoted loading tray, a tubular track mounted on the cradle thereof, a fuse setter housing provided with rollers for engaging opposite sides of the track, a range ring and a corrector ring within the housing, means for setting said rings independently, means for rotating them simultaneously, a latch mechanism carried by the housing for holding it in place on the track, said mechanism operable in unlatching through reverse rotation of said last named means, and a guide rod movable with the housing and retained by the cradle for preventing oscillation of the loading tray when the fuse setter is in the "on" position.

1,664,677. KALAMEIN MACHINE. CONRAD H. GREBE, Portland, Oreg., assignor of one-half to Leonard Mentrum, Portland, Oreg. Filed Apr. 18, 1927. Serial No. 184,712. 3 Claims. (Cl. 153—1.)

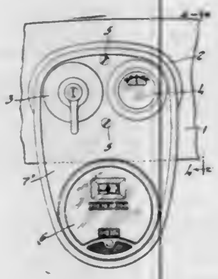


1. In a device of the class described, the combination of a table, leg supports for the table, cross slots disposed through the table bed, adjustable guide elements having roller guideways, disposed in the slots, operating elements for adjusting the guide elements relative to the slots, a cross shaft adjustably journaled upon the table element including bearings therefor, kalamein collars disposed upon the shaft, driving elements for said shaft and a feed roller mounted upon the shaft and adapted to being driven thereby.

1,664,678. PROCESS OF STABILIZING CHEMICAL SUBSTANCES. HANS G. GRIMM, Munich, Germany. Filed Apr. 29, 1924, Serial No. 709,014, and in Germany May 5, 1923. 4 Claims. (Cl. 8—5.)

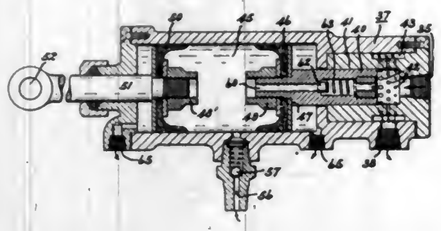
3. The process of coloring fibrous material which comprises impregnating such material with a crystalline chemical compound and thereafter treating the impregnated material with a solution of a second crystalline compound to form, in and on the material, colored mixed crystals, one of said compounds being colored and the mixed crystals being the product of combining said colored compound, during the treating step, with another crystalline compound of the same chemical type and same crystal lattice structure.

1,664,679. INSTRUMENT PANEL. EDWIN A. GUSTAFSON, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Oct. 24, 1925. Serial No. 64,018. 2 Claims. (Cl. 180—90.)



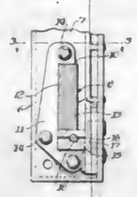
1. A method of adding an instrument to the instruments on an instrument board wherein the instruments are carried by a panel secured to the board, consisting in removing the panel, substituting therefor a panel having instrument openings corresponding in dimensions and center distance to those of the panel removed, and an additional opening symmetrically positioned for the instrument to be added, the circumference of said additional opening lying wholly below the center line of the first mentioned openings of the supplemental panel, and mounting the several instruments in their respective openings.

1,664,680. HYDRAULIC BRAKING SYSTEM FOR MOTOR VEHICLES. GEORGE E. A. HALLETT, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 23, 1925. Serial No. 39,074. 9 Claims. (Cl. 188—152.)



1. In a hydraulic braking system for vehicles, in combination, a servo pump, a duct leading from the delivery to the intake of said pump, a by-pass valve in said duct, means for closing said valve and thereby causing a pressure to be built up at the pump delivery, a hydraulic brake cylinder, a pressure line leading from said pump delivery to said brake cylinder, and injection means operated concomitantly with the closing of said valve for injecting fluid into the pressure line to cause the pressure therein to be built up more suddenly.

1,664,681. DOOR LATCH. HARRY W. HANCOCK, Jackson, Mich. Filed Apr. 27, 1927. Serial No. 186,889. 7 Claims. (Cl. 292—337.)



5. A latch having, in combination, a casing, a bolt extending therethrough, and means mounted on said casing adjacent said bolt arranged to be moved transversely of said bolt to eliminate looseness between said bolt and said casing.

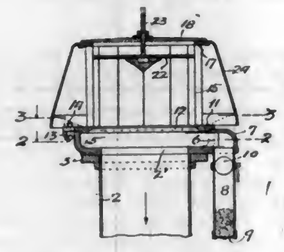
1,664,682. PUSH-BUTTON SWITCH. ALBERT H. HARDMAN, Wheeling, W. Va. Original application filed Aug. 26, 1926, Serial No. 131,718. Divided and this application filed Apr. 1, 1927. Serial No. 180,243. 1 Claim. (Cl. 200—59.)



A push button switch for attachment to the rim of the steering wheel of an automobile, comprising a casing having a side to embrace the said rim and be secured

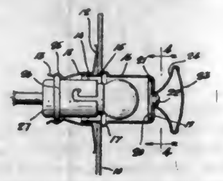
thereto, a body of insulating material fitted into said casing at the side thereof, spaced binding posts mounted upon said body for the connection thereto of conducting wires, the said body at its side which is presented at said side of the casing being transversely formed to conform to the contour of said rim, the casing being inwardly tapered and the said body being correspondingly tapered to have frictional engagement therewith, a resilient leaf contact secured at one end to one of said posts, and having its other end located at the other post and normally spaced therefrom, the wall of the casing opposite the said side thereof having a slot therein, and a push button engaged in said slot and having a base portion engaged by said leaf contact.

1,664,683. SUCTION AIR INTAKE. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1925. Serial No. 27,842. 2 Claims. (Cl. 183—85.)



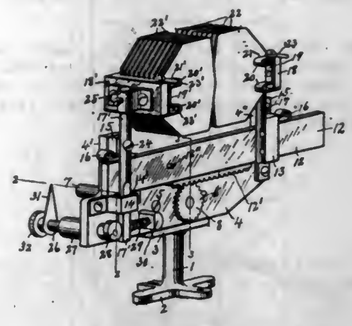
1. The hereindescribed suction intake comprising a bowl having a large central outlet in its bottom and having a small peripheral outlet in combination with a closed pocket depending from said peripheral outlet, and a multiple tangential tuyère of less diameter than said bowl, but of greater diameter than said central outlet, and resting upon said bowl.

1,664,684. DASH LIGHT. RALPH O. HELGEBY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 14, 1927. Serial No. 175,275. 11 Claims. (Cl. 240—8.16.)



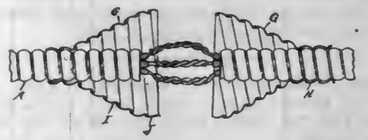
2. In a dash light, a casing for said light, a plurality of openings in the casing end, a transparent sheet inside said casing over said openings, said sheet softening the light, and a reflecting head on said casing to reflect the light rearwardly.

1,664,685. RADIOCONDENSER. WILLIAM L. HUDSON, Syracuse, N. Y. Filed Aug. 18, 1925. Serial No. 50,921. 12 Claims. (Cl. 175—41.5.)



1. A variable condenser comprising opposed sets of plates having their adjacent edges tapered toward their longitudinal centers, one set being adjustable rectilinearly, and means for adjusting the other set in an arc of a circle across the path of the first-named set.

1,664,686. JUNCTION FITTING FOR METALLIC ARMORED ELECTRICAL CONDUCTORS. JOSEPH H. HUNTER, Detroit, Mich., assignor to Detroit Insulated Wire Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 13, 1925. Serial No. 22,851. 4 Claims. (Cl. 247—15.)



4. The combination with adjacent electrical flexible conduit sections formed of spirally wound strips, of a flexible coupling between said sections also formed of a spirally wound strip having portions engaging the spirals of said sections, the diameter of said coupling being greater than the diameter of the conduit sections whereby to provide an enlarged chamber.

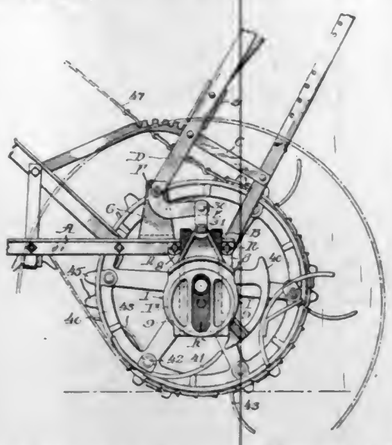
1,664,687. CLAMP NAIL. CARL C. JENSEN, Chicago, Ill. Filed Feb. 4, 1927. Serial No. 165,921. 1 Claim. (Cl. 85—11.)



A clamp nail for closing joints comprising a web provided along its side edges with a plurality of pairs of flanges, the flanges of each pair converging in the direction from the driven end of the nail toward the driving end thereof with the corresponding ends of the members of the several pairs the same distance apart and from the medial longitudinal line of the web through the

entire length of the nail whereby the successive flanges will successively engage the members of the joint and the closing pressure will be applied to the members of the joint uniformly throughout the entire length of the joint and a single nail will close both ends of the joint.

1,664,688. WINDROW HAY LOADER. LEE H. KAUPKE, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed Jan. 4, 1923. Serial No. 610,639. 14 Claims. (Cl. 56—358.)

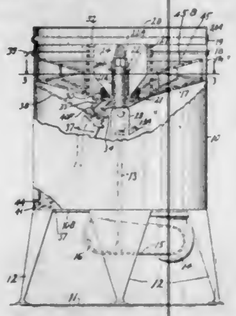


14. In an apparatus of the class described, a wheel bearing, a frame having vertically disposed guide means coacting with said wheel bearing, and adjustable frame-supporting means interposed between said frame and said wheel bearing.

1,664,689. PROCESS OF MANUFACTURING CHAMOTTE MATERIALS. LUDWIG KERN, Baltimore, Md. Filed Oct. 13, 1925. Serial No. 62,307. 6 Claims. (Cl. 25—156.)

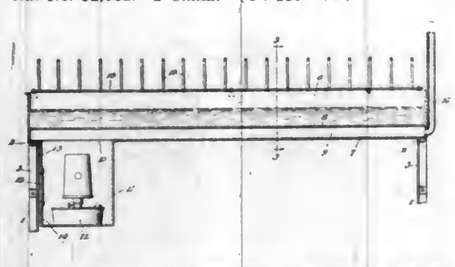
1. A process of producing grog material suitable for use in chamotte which consists in forming a plastic mass of kaolin, combustible organic matter, a binder, all being in a finely divided state, and water, burning such material at a strong glowing heat, and comminuting the product.

1,664,690. MACHINE FOR WASHING DISHES. SELMER A. KRAFT, St. Paul, and SAMUEL T. SHEPPARD, Mankato, Minn. Filed Nov. 19, 1926. Serial No. 149,308. 4 Claims. (Cl. 141—9.)



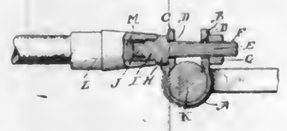
1. In a dish washing machine the combination with a cylindrical tub supported in spaced relation to a floor and having a motor, a vertical central main shaft in the tub and operative connection between said motor for rotating said shaft; of an auxiliary shaft alined with said main shaft and detachably keyed thereto, a tray with a funnel shaped bottom and a bearing for said auxiliary shaft fixed in the center thereof, said tray adapted to be removably suspended from the top edge of the tub, a rotatable hollow water spreading head removably attached to the said auxiliary shaft and having vertical outlet slits for expelling water, a removable cover for said tray and arranged over said head, a cylindrical wire cage adapted to be placed on the bottom of the tray and about said water head and a screen within said cage, said head having a downwardly opening cylindrical lower end communicating with its interior and normally submerged in water in the tray, said tray provided with an outlet pipe and valve means in same, and a sectional utensil holding frame adapted to be laid on the sloping bottom of the tray intermediate said wire cage and the perimeter of the tray.

1,664,691. WATERING TROUGH. JOHN T. LANGEWISCH, Sweet Springs, Mo. Filed Mar. 3, 1926. Serial No. 92,061. 1 Claim. (Cl. 119—73.)



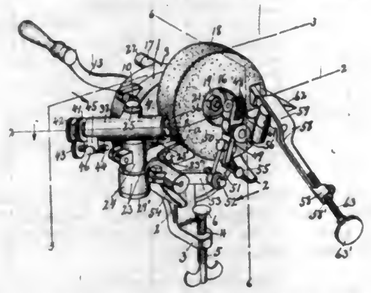
A device of the character described comprising a support having end frames each consisting of a cross bar provided with depending supporting legs, elongated platform members extending between said frames and secured to their cross bars in spaced relation to each other, and a trough resting upon the cross bars of said end frames and fitting snugly between said platform members, said trough being removable from the end frames and held against sliding movement longitudinally of their cross bars by engagement with said platform members.

1,664,692. COUPLING FOR BATTERY TERMINALS. FRED W. LEUTHESSER, Oak Park, Ill. Filed Mar. 7, 1925. Serial No. 13,689. 1 Claim. (Cl. 73—259.)



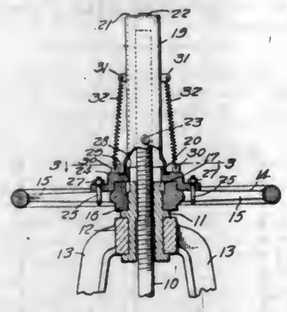
A coupling of the character described comprising a clamping loop terminating in spaced jaws provided with alined bores, a bolt entered transversely through the bores in both jaws and projecting at each end from the proximate jaw and threaded one one of its projecting ends, a clamping nut threaded onto said projecting end and bearing against the outer face of the proximate jaw and serving to draw up the clamping loop, and a plurality of threaded nipples of different diameters integrally formed on the opposite projecting end of the bolt in axially alined relation to one another and to the bolt, the outermost nipple being of a smaller diameter than the one next succeeding and the bolt being shouldered behind the nipple to abut against the outer face of the proximate jaw so as to be non-rotatable with respect to said jaw, when in abutting relation, in combination with a cable having on its end an inwardly extending socket threaded to engage with one of the nipples, substantially as described.

1,664,693. ROTARY GRINDER. JAMES HENRY LITTLER, Manlius, N. Y., assignor to S. Cheney & Son, Manlius, N. Y., a Corporation of New York. Filed Jan. 29, 1925. Serial No. 5,603. 4 Claims. (Cl. 51—3.)



4. In a grinding machine of the character described, a gear case, a driving shaft journaled on the gear case, means for rotating said shaft, separate driven shafts journaled on the gear case, means for transmitting rotary motion from the driving shaft to both of the driven shafts, a grinding wheel secured to one of the driven shafts, a bracket mounted on the gear case, an additional shaft journaled on the bracket, means for transmitting rotary motion from the other driven shaft to said additional shaft, a bearing member mounted on the bracket, a rotary work-holder journaled in the bearing member, and means for transmitting rotary motion from said additional shaft to the work-holder, said bracket and parts carried thereby being adjustable about the axis of the second-named driven shaft to accommodate the work-holder to grinding wheels of different diameters.

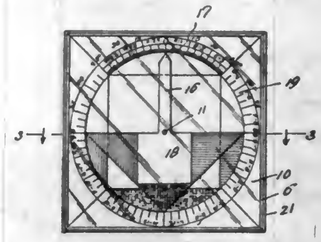
1,664,694. VALVE-STEM PROTECTOR. ROBERT L. LOVVORN, Gadsden, Ala. Filed May 31, 1927. Serial No. 195,344. 4 Claims. (Cl. 251—55.)



1. A protector for longitudinally movable valve stems, comprising a cap adapted to house a portion of a valve stem therein, an operating member for moving said stem, and tension elements connecting said cap with said operating member.

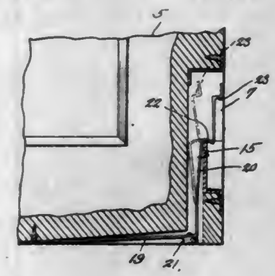
1,664,695. NOVELTY DEVICE. EDWIN G. MASTERS, Anderson, Ind. Filed May 5, 1926. Serial No. 106,974. 2 Claims. (Cl. 33—215.)

1. A novelty device of the class described including a back plate having an indenture and provided wtih marginal flanges formed to overhang the plate, a frame held by the flanges, a pin having one pointed end and one blunt end, an indicating member rotatable on the pin,



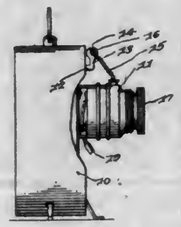
and a transparency engaged by the flanges bearing against the blunt end of the pin to hold the pointed end in the indenture.

1,664,696. COMBINATION FASTENER. JOHN H. MAURER, Long Beach, Calif. Filed Mar. 4, 1927. Serial No. 172,733. 1 Claim. (Cl. 292—87.)



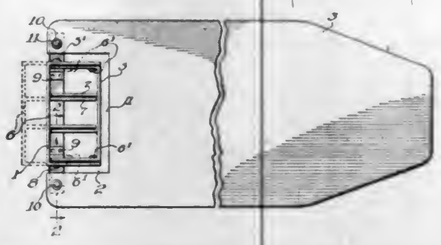
In a door check of the class described, a body portion formed of spring material, an arm at one end of the body portion, said arm having offset portions defining shoulders, and means cooperating with the shoulders for holding the body portion in its inactive position.

1,664,697. CIRCUIT-CONTROLLING DEVICE. HENRY S. MICKS, Chicago, Ill. Filed Feb. 16, 1927. Serial No. 168,657. 1 Claim. (Cl. 200—39.)



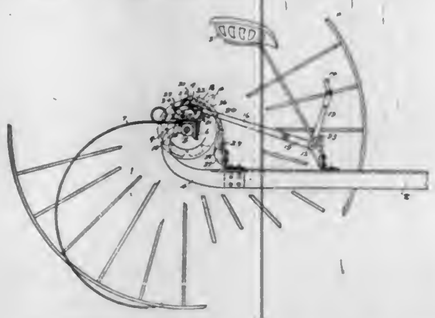
In a lighting circuit controlling device, the combination with the alarm hammer operating shaft of an alarm clock, a socket switch mounted on the back of the alarm clock and including a pull chain, and a finger formed on the shaft and having a notch formed therein adapted to receive the outer end portion of the pull chain for operatively connecting the pull chain to the shaft.

1,664,698. FIREPROOF IRON STAND. ROBERT A. MORRISON and FRANKLIN L. OSWALD, Portland, Oreg. Filed Sept. 7, 1926. Serial No. 133,947. 1 Claim. (Cl. 68—27.)



The combination with an ironing board having a recess therein, of a collapsible metal iron stand arranged in said recess and comprising a pair of sections having substantially parallel fingers extending longitudinally of the board, the fingers of one section being slidable longitudinally relative to those of the other section.

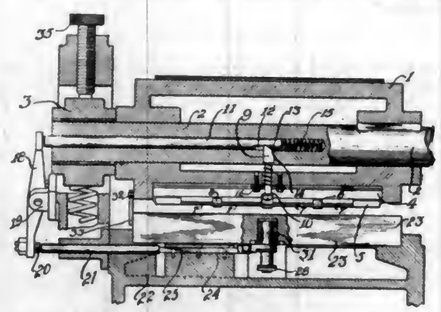
1,664,699. HAYRAKE. WALTER F. MOTTIER, El Campo, Tex. Filed Sept. 18, 1920. Serial No. 411,178. 5 Claims. (Cl. 56—392.)



1. The combination with a self-dump hay rake having a frame, ground wheels, a rake head, and means for locking the rake head to rotate with the wheels, of means for controlling the action of the locking means comprising a member having connection thereto and movably mounted on the rake head, means under the control of the operator for effecting an initial movement of said member whereby the locking connection is permitted to be established between the rake head and the wheels through the load carried by the rake head, said last mentioned means including a manual lever and a link connected to said lever and adapted to actuate said member and other means pivotally mounted relative to the frame and acting as a guide to prevent return movement of the member until the rake head has turned with the wheels through a predetermined distance, said guide thereafter also acting to prevent the locking of the rake head with the wheels until the rake head has returned to original position.

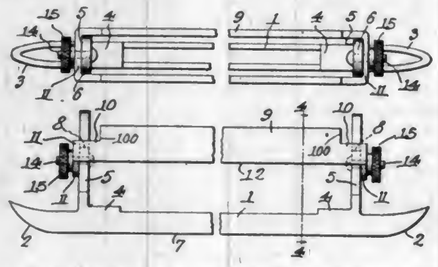
1,664,700. PAPER-GRIPPING DEVICE FOR PLATE PRINTERS. CARL F. NAYER, Chicago, Ill., assignor to Fulton Machine Co., a Corporation of Illinois. Filed Apr. 6, 1927. Serial No. 181,292. 5 Claims. (Cl. 101—409.)

1. In a printing machine, a roll, a printing plate movable with respect to said roll, means for actuating said printing plate, means on said roll for gripping a sheet of paper, a yieldingly actuated plunger slidably supported in said roll and connected to said gripping means, a rod in said roll for coaction with said plunger,



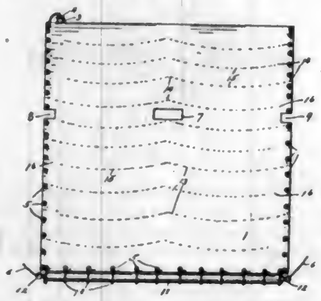
a spring for projecting said rod in one direction for depressing said plunger, and means actuated by the driving means of the printing plate for actuating said rod for releasing said plunger.

1,664,701. MASONRY-JOINTING TOOL. NATHANIEL PAUL O'NEAL, Hope, Ark. Filed July 2, 1927. Serial No. 203,200. 4 Claims. (Cl. 72—138.)



1. In a device of the class described, a tool comprising a body provided with standards, a loop-shaped handle enclosing the standards, and means for holding the handle on the standards, the handle being cut away at its sides and at its ends to form clearance openings adjacent to the standards.

1,664,702. MILK-CAN COOLER. GLENN M. OSBORN, Salt Lake City, Utah. Filed Oct. 25, 1926. Serial No. 144,146. 3 Claims. (Cl. 62—91.)



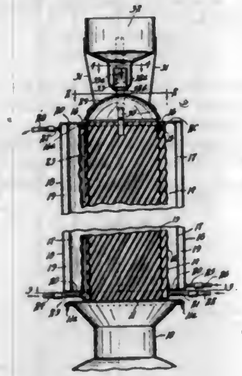
1. In a cooler for milk cans, the combination of two spaced apart sheets of flexible material sewed together on the edges to form a water-holding bag; a filling spout secured on one end of said bag; holes through said bag to allow handles to pass therethrough; eyelets in or near the bottom and sides of said bag; rings in the bottom eyelets; a bumper rope through said bottom rings and a cord secured to the ends of said rope and passed through the said eyelets at the sides of said bag to draw the said bag around the milk can.

1,664,703. MINING MACHINE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 3, 1921, Serial No. 489,518. Renewed Sept. 1, 1927. 2 Claims. (262—30.)



1. In a mining machine, an elongated body portion having a cutting element extending laterally therefrom, a centrally disposed shoe extending longitudinally of the body portion and forming the base plate upon which the machine is supported, and means for tilting said shoe longitudinally with respect to the body portion, comprising a vertically-disposed spindle connected with said shoe, a gear carried by the machine frame and threaded on said spindle, and a shaft arranged transversely of the machine having operative connection with said gear.

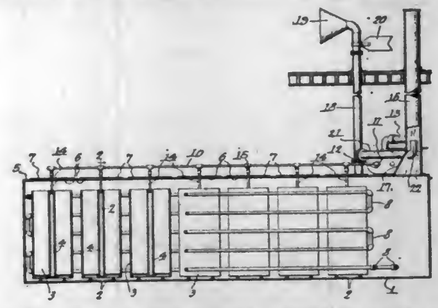
1,664,704. CREAM COOLER. NAPOLEON RAMGREN, Ogilvie, Minn. Filed June 19, 1926. Serial No. 117,210. 6 Claims. (Cl. 257—180.)



3. A cream or liquid cooling apparatus having in combination, a receptacle for liquid having a distributing opening at its bottom, a downwardly flaring member receiving said liquid on its convex surface and having a lower terminal edge, a pair of substantially concentric spaced cylinders forming a narrow chamber therebetween, a partition between said cylinders adjacent the tops thereof forming a liquid receiving trough, said terminal edge being spaced over and aligned with said trough, said trough having apertures at each side for distributing the liquid to be cooled to the outer walls of said chamber respectively, and means for circulating a cooling medium through said chamber.

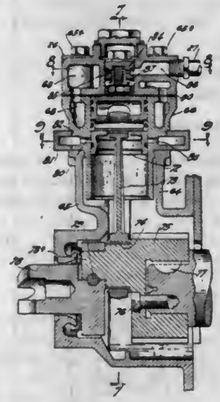
1,664,705. ICE-MAKING APPARATUS. JOSEPH BERTIN ROCHELLE, Hohen Solms, La. Filed Nov. 5, 1924. Serial No. 747,935. 1 Claim. (Cl. 62—160.)

In an ice-making machine, a plurality of cans each having a centrally disposed tube of small diameter compared with the cross sectional area of the can, the tube extending from the bottom to the top of the can and being open at both ends, a brine tank wherein the cans are located, means for supporting the cans in spaced relation to the bottom of the tank, a suction pipe extended downwardly into the upper end of each tube and spaced about its entire periphery from the inner surface



of the tube, the suction pipe terminating at a point closely adjacent to the top of the tube, and means for supporting the pipes detachably, independently of, and at a point above the tubes.

1,664,706. AIR PUMP FOR BRAKE SYSTEMS. ERIC OLIE SCHJOLIN, Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Nov. 24, 1924, Serial No. 751,755. Divided and this application filed July 2, 1926. Serial No. 120,110. 4 Claims. (Cl. 303—10.)

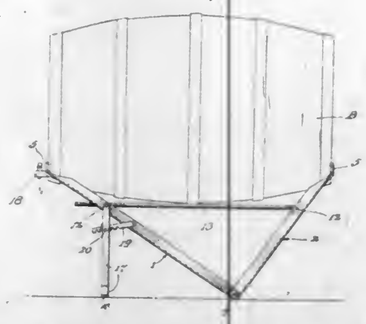


2. In a road motor vehicle, the combination of an engine for propelling the vehicle and having driving connections for driving parts of the engine from the crank shaft of the engine, a casing for housing said driving parts and having an integral tubular extension, an air pump comprising a cylinder and a piston with the cylinder mounted in said tubular extension, a piston rod connected to said piston, and an extension on said crank shaft for driving said piston.

1,664,707. BARREL RACK. AUGUST G. SCHOESSLER, Reliance, S. Dak. Filed Mar. 17, 1926. Serial No. 95,362. 3 Claims. (Cl. 248—56.)

1. A barrel rack comprising barrel-engaging sections each including side bars and a cross bar connecting its side bars, the side bars of one section having their inner ends pivotally connected with the side bars of the other section and each section having outer ends of its side bars provided with hooks for engaging opposite ends of a barrel, the pivotally connected ends of said side bars constituting a fulcrum for the rack, a draw rod extending

through alined openings formed in the cross bars of said sections and having one end formed with a head to engage the cross bar of one section and its other end portion threaded, a nut upon the threaded portion of said rod for engaging the cross bar through which the threaded

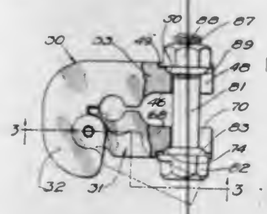


end portion of the rod passes and drawing said sections towards each other and retaining the hooked ends of their side bars in gripping engagement with a barrel, and a prop carried by the side bars of one section for supporting the rack at a desired angle of inclination.

1,664,708. BRUSH FOR GENERATORS, ETC. ARTHUR A. SCHUPP, Saginaw, Mich., assignor to Fredericksen Company, Saginaw, Mich., a Corporation of Michigan. Filed Apr. 2, 1924. Serial No. 703,779. 3 Claims. (Cl. 171—325.)

1. As an article of manufacture, a brush made of a cast metal alloy consisting of metallic lead and metallic copper in substantially equal proportions.

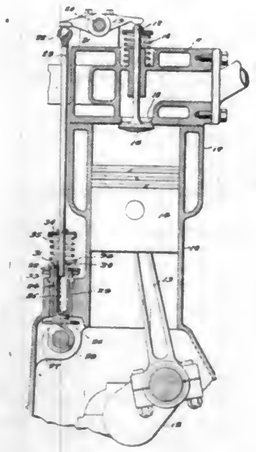
1,664,709. POLISH-ROD CLAMP. THOMAS SEVERNS, Long Beach, and RALPH R. HALL, Los Angeles, Calif. Filed Aug. 27, 1925. Serial No. 52,940. 4 Claims. (Cl. 255—18.)



1. A polish rod clamp comprising: a J-shaped body having a stationary jaw providing a semi-cylindrical channel and having a socket in the curved portion of the body; a movable jaw provided with a head adapted to fulcrum in said socket and having a semi-cylindrical channel; a clamp means adapted to engage said stationary and movable jaws to clamp said jaws on a polish rod, said channels receiving said polish rod; and a hinge pin secured in said body and extending through said head.

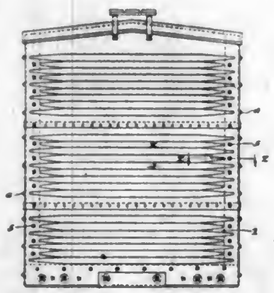
1,664,710. VALVE-LASH-COMPENSATING DEVICE. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 16, 1926. Serial No. 102,522. 6 Claims. (Cl. 123—90.)

6. In a valve operating means, an operating member comprising a telescoping rod and tappet interposed between the valve and valve operating shaft, a clutch supported by the tappet adapted to lock the tappet to the rod during the valve opening stroke, a spring bearing upon said clutch and rod, said spring exerting its elastic force



to unlock the clutch and extend said telescoping rod and tappet during the valve closing stroke and a stationary trip to hold the clutch unlocked when the operating member is fully extended.

1,664,711. SHEET-METAL END FOR RAILWAY CARS. VINTON E. SISSON, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed July 18, 1924. Serial No. 726,816, and in Canada May 19, 1924. 16 Claims. (Cl. 105—410.)

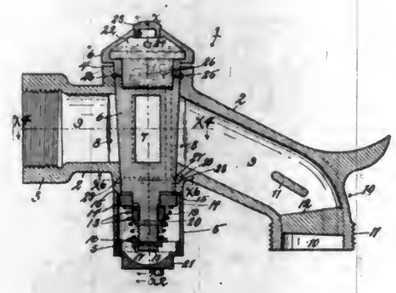


1. A metal panel for car ends having a corrugation formed therein with its opposite ends merging into the panel adjacent the panel ends, and another corrugation formed therein with its opposite ends merging into the panel at a distance from the panel ends.

1,664,712. TANK-TRUCK FAUCET. GROVER B. STANLEY, Palmdale, Calif. Filed Apr. 27, 1922. Serial No. 556,913. 1 Claim. (Cl. 251—93.)

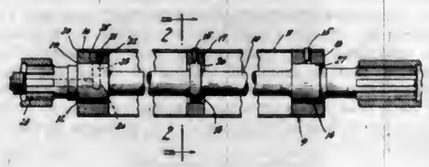
The faucet set forth comprising a casing having a passage therethrough; a tapered plug in said casing having a passage therethrough that is normally transverse to the passage through the casing when the plug is in a fully closed position; a handle for actuating said plug to move

the passage therethrough into register with the passage through said casing; a chamber in said plug adapted to contain a lubricant; ports in said plug leading from said chamber, an upper annular channel communicating with



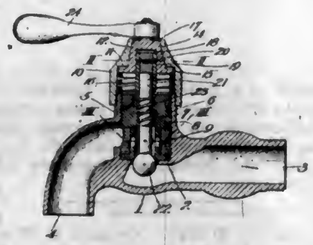
said ports, an annular channel in the lower end of said plug, longitudinal channels formed in said plug and casing connecting the said upper and lower channels and means for with-holding sediment from said channels.

1,664,713. PROPELLER SHAFT. WILLIAM R. STRICKLAND, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 21, 1927. Serial No. 169,966. 8 Claims. (Cl. 64—29.)



1. A drive shaft for motor vehicles, comprising an inner shaft, a plurality of enlargements on said shaft, an outer shaft spaced from said inner shaft, and means on said outer shaft engaging said enlargements.

1,664,714. FAUCET. GEORGE R. UHL, Kansas City, Kans. Filed Apr. 25, 1927. Serial No. 186,318. 5 Claims. (Cl. 251—43.)



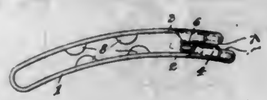
1. In a device of the character described, a body portion, a stationary plug therein having a passage, a cap on the body portion, a stem extending through the passage of said plug, a sleeve rigid with the stem, a rotatable plug in the cap, bearing a non-rotatable but sliding relation to said sleeve, means for turning the rotatable plug, and means for effecting slidable movement of the stem as it turns with the rotatable plug, to cause the said sleeve to abut and form a water-tight joint with the opposite end of the stationary plug.

1,664,715. PUMP DRAIN. MARK WALTON, Ullin, Ill., assignor of one-half to John Scanlin, Ullin, Ill. Filed May 23, 1927. Serial No. 193,681. 3 Claims. (Cl. 103—221.)



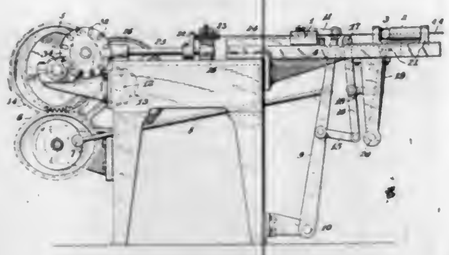
1. The combination with a pump cylinder, of an outlet pipe leading therefrom, an inlet pipe, a barrel between the cylinder and inlet pipe, a tube fixed in the wall of the barrel and having its respective ends extended into the inlet and outlet pipes.

1,664,716. LINGERIE CLASP. PETER E. WIBERG, East Orange, N. J., assignor to Art Wire and Stamping Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 17, 1926. Serial No. 102,622. 2 Claims. (Cl. 24—259.)



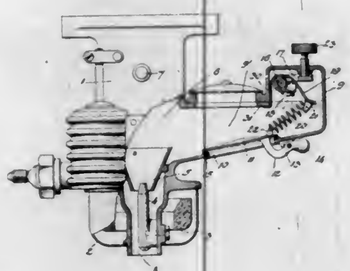
1. A lingerie clasp including: a member of sheet material bent back upon itself to form two legs, and complementary fastening and releasing means at the free ends thereof consisting of a resilient tongue and groove extending lengthwise of the legs to be latched together by pressing the ends of the legs sufficiently toward each other to cause engagement between said tongue and groove, and said tongue and groove also constituting a slidable connection, which responds to bending stresses imparted to the legs transversely of their length, in a direction substantially parallel to the length of the legs while retaining latching engagement with each other.

1,664,717. WIRE FEEDING AND CUTTING MACHINE. PETER E. WIBERG, East Orange, N. J., assignor to Art Wire and Stamping Company, Newark, N. J., a Corporation of New Jersey. Filed June 19, 1926. Serial No. 117,020. 2 Claims. (Cl. 140—147.)



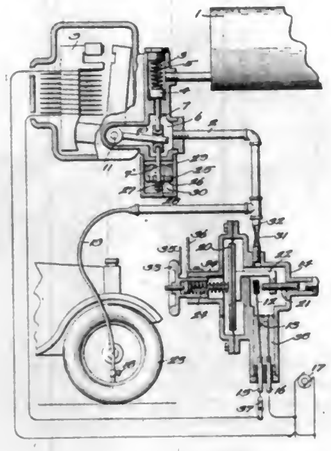
1. A wire feeding and straightening machine, including a reciprocating wire gripping member to intermittently grip and feed wire, a reciprocatory wire spinner, a crank and connections to effect reciprocation of the member and spinner, the latter at a lesser speed than the former, and transmission means to drive the crank at a variable speed to compensate for the variable throw of the crank, whereby, during the feeding stroke, the wire gripping member moves at a substantially uniform speed and the spinner also moves at a substantially uniform speed but different from that of the gripping member.

1,664,718. CARBURETOR. CHARLES E. WILLIAMS, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 8, 1920. Serial No. 429,223. 5 Claims. (Cl. 261—39.)



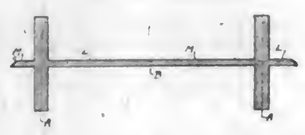
4. In a carburetor having a main air passage and an auxiliary air passage, a valve for said auxiliary air passage, controlling means for said valve including a thermostatic arm within the carburetor casing for controlling the flow of air through said auxiliary air passage, means for adjusting said arm, a lever having a lost motion connection with said controlling means, and manually operated means connected to said lever for controlling said valve independently of said controlling means, substantially as shown and described.

1,664,719. APPARATUS FOR SUPPLYING AIR UNDER PRESSURE. JOE C. WOODFORD, Oskaloosa, Iowa. Filed June 3, 1926. Serial No. 113,591. 10 Claims. (Cl. 50—10.)



1. The combination with a source of air under pressure; of piping through which air is conveyed from said source to a receiver; a valve between said source and piping, constrained to move in a closing direction and having means for retarding its closing movement; and mechanism in controlling relation to the valve and constrained to effect an opening adjustment of the valve and connected with said piping and operable by air admitted thereto from the piping to delay the valve opening effect of said mechanism when the valve is closing, said mechanism effecting opening adjustment of the valve upon sufficient reduction of the pressure of the air admitted thereto.

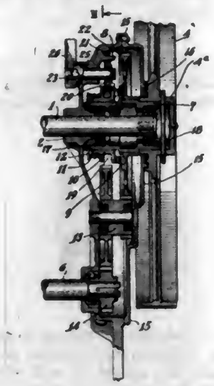
1,664,720. THERMOELECTRIC GENERATOR. CHARLES W. WOODRUFF, Columbus, Ohio. Filed Dec. 7, 1925. Serial No. 73,937. 16 Claims. (Cl. 136—4.)



1. Elements of a thermo-electric generator comprising a homogeneous strip of base metal having different metals diffused therethrough in different portions thereof, said strip being relatively wide at alternate junctions of unlike portions and having narrow sections intermediate the wide junctions.

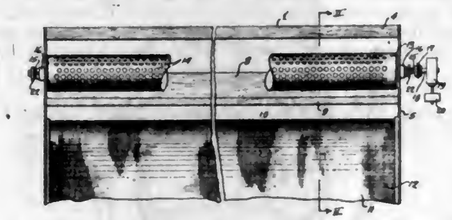
1,664,721. LAWN MOWER. CHARLES C. WORTHINGTON, Dunfield, N. J. Filed Apr. 8, 1921. Serial No. 459,726. 18 Claims. (Cl. 56—249.)

1. In a lawn mower, a frame supporting a rotary cutter, a main hub journalled in said frame, a ground wheel having a hub ring removably secured to said main hub and a gear train connecting said main hub to the



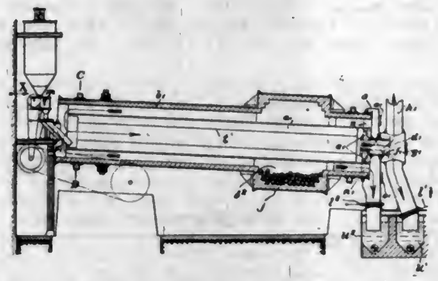
cutter, including an overrunning ratchet clutch couple comprising two clutch members and a clutch spring all mounted on said main hub.

1,664,722. CYLINDER PAPER-MAKING MACHINE. ARTHUR T. YODER, Mosinee, Wis. Filed May 27, 1926. Serial No. 111,953. 2 Claims. (Cl. 92—48.)



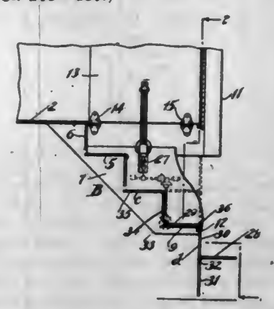
1. In a cylinder paper machine, a vat for the cylinder mold having a transverse partition terminating below the side walls of said vat and in front of said mold and a perforated drum mounted transversely of said vat completely filling the space between the top of said partition and the top of the vat side walls, whereby all of the stock must pass through said perforated drum in its flow to the cylinder mold.

1,664,723. DEGASIFICATION OF COAL. NIELS YOUNG, Frankfort-on-the-Main, Germany. Filed Oct. 30, 1919, Serial No. 334,628, and in Germany Nov. 1, 1918. 2 Claims. (Cl. 202—8.)



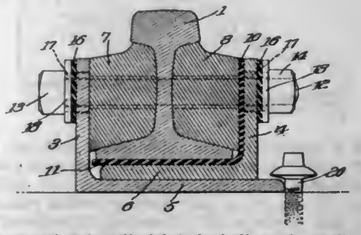
1. The process which consists in moving coal continuously into a treatment chamber at one portion thereof and out of such chamber at another portion thereof, heating the coal within said chamber, under agitation and under exclusion of air, to temperatures of approximately from 500° to 550° centigrade, thereby producing sub-coke together with primary tar and high grade fuel gas, and crushing such sub-coke within said chamber during the progress of said heating step.

1,664,724. STAIRS. GEORGE F. ZAUN, San Bernardino, Calif. Filed May 5, 1926. Serial No. 106,943. 3 Claims. (Cl. 105—430.)



2. In a device of the character disclosed, a stairway, an auxiliary stairway having a tread adapted to rest when in one position upon the tread of the first stairway, and to be swung from said first position to a position substantially vertical with relation to the tread of the first stairway.

1,664,725. INSULATED RAIL JOINT. RANSLOE BOONE ARNOTT, Reading, Pa. Filed June 16, 1926. Serial No. 116,292. 4 Claims. (Cl. 238—158.)



1. An insulated rail joint including the rails, oppositely positioned angle bar members for joining the rail ends, insulating members interposed between said angle bars and the rail ends, bolts for securing the angle bars in position, said bolts being insulated from said bars and the angle bar at least at one side of said joint structure being of a form and arrangement to prohibit spiking to the ties.

1,664,726. REMOVABLE BRIDGEWORK. HENRY A. ADLER, New York, N. Y. Filed Nov. 23, 1922. Serial No. 602,877. 4 Claims. (Cl. 32—12.)



1. A dental attachment for movable removable bridgework comprising a jacket member having positioned a teat receptacle centrally thereon, a linking member permanently mounted on a removable bridge denture to engage within the jacket member, a separate belly-shaped leaf spring tensioning element adapted to be removably

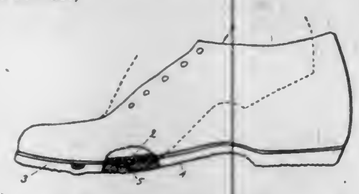
attached to the linking member and provided with a protuberance or teat to engage within the said teat receptacle on the jacket member, and a means for securing the spring tensioning element to the linking member.

1,664,727. MANIFOLD HEATER. LEONARD E. ASKE, Duluth, Minn. Filed Mar. 9, 1925. Serial No. 14,152. 5 Claims. (Cl. 123—122.)



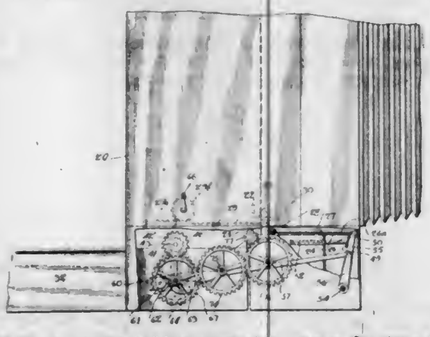
1. In a manifold heater, the combination with an engine block, an exhaust manifold and an intake manifold, said manifolds being spaced from said block for a portion of their lengths intermediate of their ends, of a cover adapted to overlap a portion of the outer side walls of said manifolds, said cover being provided with end wings adapted to extend between said manifolds to the opposing side wall of said block, the upper and lower edges of said wings being adapted to conform closely to the contour of the lower side of said exhaust manifold and to the upper side of said intake manifold respectively, and a back panel adapted to fill the space between said block and the opposing side walls of said manifolds.

1,664,728. SPORT SHOE. ALLEN BEHR, Brooklyn, N. Y. Filed May 13, 1927. Serial No. 191,069. 2 Claims. (Cl. 36—59.)



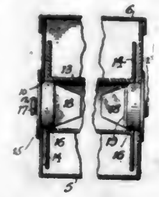
1. In a sport shoe, the combination with an elastic sole of a shoe, said sole being provided with elongated slots extending transversely across said sole, bridges at the ends of said slots, said slots extending under said bridges, and twisted cords of loose fibrous material placed at the bottom of said slots, the ends of said cords extending under said bridges to the outer edges of said sole.

1,664,729. PHOTOGRAPHING AND DEVELOPING APPARATUS. GEORGE C. BEIDLER, Rochester, N. Y. Filed Oct. 24, 1925. Serial No. 64,560. 18 Claims. (Cl. 95—90.5.)



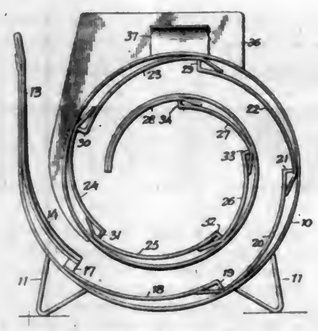
1. In a photographing apparatus, means for transferring a film from a developer receptacle to a receiver for the film, including mechanically operated means for applying an initial coating of fixing fluid to the film while in transit, and removing said film from said fixing fluid after the initial coating.

1,664,730. FILM-ROLL BOX AND MOUNTING. GEORGE C. BEIDLER, Rochester, N. Y. Filed Apr. 30, 1926. Serial No. 105,809. 4 Claims. (Cl. 206—52.)



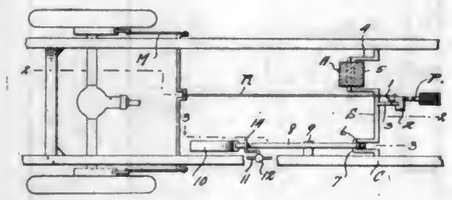
1. In a film roll box and mounting, a box having apertures in its ends, closures for the ends having trunnions projecting through the apertures and extending beyond the inner walls of the box, a roll having axial trunnion receiving openings, and guides carried by the trunnions adapted to extend into said openings for engaging the walls thereof and centering the roll with respect to the trunnions.

1,664,731. COIL FILM DEVELOPER. GEORGE C. BEIDLER, Rochester, N. Y. Filed May 8, 1926. Serial No. 107,798. 8 Claims. (Cl. 95—94.)



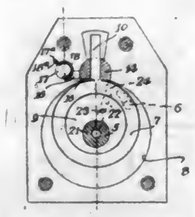
1. In a film developing apparatus, a coil-form film holder having rigid convolutions to guide film when the free advancing end of the film is pushed into it edgewise, and means at locations within the coil for holding the film out of engagement with the structure forming the convolutions.

1,664,732. BRAKE-OPERATING MECHANISM. HERBERT BRODIE, Detroit, Mich., assignor of one-half to Albert R. Saunders, Detroit, Mich. Filed Oct. 23, 1926. Serial No. 143,672. 1 Claim. (Cl. 180—82.)



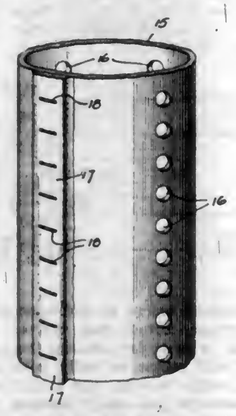
In combination with a vehicle having a brake mechanism including a brake operating lever, a crank shaft journaled upon the vehicle and having spaced crank arms, one of which is adapted to encounter the brake operating lever, a weighted lever pivoted upon the vehicle and having one end operatively engaging with another of the crank arms, and a seat post slidably mounted upon the vehicle and resting upon the third crank arm.

1,664,733. COMPRESSOR. JUSTUS BRAUN, Nuremberg, Germany. Filed Dec. 7, 1922, Serial No. 605,483, and in Germany Mar. 8, 1922. 5 Claims. (Cl. 230—147.)



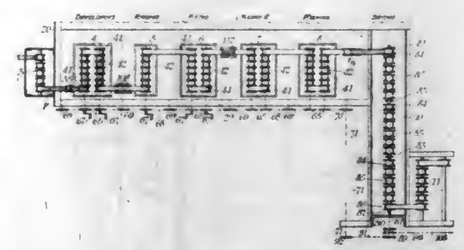
1. A rotary compressor, comprising in combination a casing, a driving shaft, an annular piston in said casing, an eccentric on said driving shaft for displacing said piston, a swivel block rotatably mounted in said casing, said swivel block having a guide slot, an upwardly extending slide on said annular piston, said slide engaging in said guide slot so as to oscillate the swivel block during the displacement of the piston, an inlet port in the casing capable of being covered by the side of the piston when the latter is in the dead-centre position of an outlet port in the casing capable of being obstructed by the swivel block as and for the purposes set forth.

1,664,734. PERFORATED CASING. DAVID N. BRUNDY, Los Angeles, Calif. Filed Feb. 2, 1926. Serial No. 85,544. 1 Claim. (Cl. 166—5.)



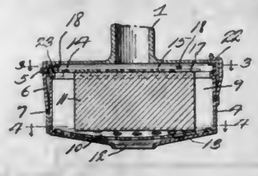
A well casing having perforations therein, strips extending longitudinally of the casing and of curved form in cross section to conform to the outer curvature of the casing, said strips fixedly secured to the outer wall of the casing in covering relation to the openings so as to reinforce the casing around the openings, and having transversely extending slots spaced apart to correspond with the spacing of the casing openings and positioned in registration with the openings, said slots being of V shaped form in cross section with their greatest widths at the inner side of the strips and terminating at the outer sides of the strips in narrow slots so as to preclude the passage of sand into the casing and prevent clogging of the slots with sand.

1,664,735. FILM-TREATING APPARATUS. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 18, 1925, Serial No. 31,096. Renewed Sept. 7, 1927. 6 Claims. (Cl. 95—94.)



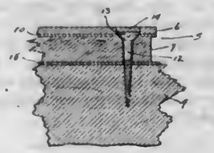
1. A unit intended for use in apparatus for the continuous treatment of motion picture film and comprising an open frame, means on said frame whereby it may be removably supported in a tank, a shaft journalled in the upper part of said frame, a series of rollers free to turn independently on said shaft, a sprocket rigid with said shaft, vertical guide members in said frame, a weighted support adapted to slide on said guide members, a shaft in said support and a series of rollers free to turn independently on said shaft.

1,664,736. SOAP BOX. ISAAC P. CREAMER and FREDERICK JOSEPH, New York, N. Y. Filed Oct. 18, 1926. Serial No. 142,451. 2 Claims. (Cl. 293—83.)



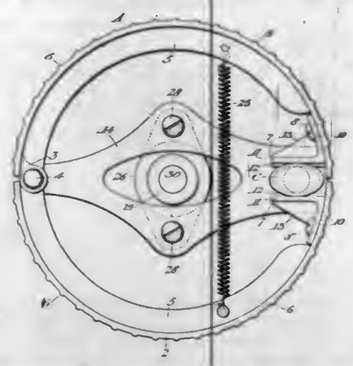
1. A soap box of the character described comprising a cover having a water intake port therein, a body member carried by said cover, a disc disposed within the body member and having perforations therein, an inwardly extending bead carried by the body member adjacent its upper end, spaced lugs carried by said body member and extending inwardly above the bead, a perforated disc having extensions, said extensions engaging the upper side of the bead and frictionally held beneath the lugs.

1,664,737. SURFACE BLOCK. CLIFFORD A. CUTLER, Buffalo, N. Y. Filed Aug. 2, 1926. Serial No. 120,511. 2 Claims. (Cl. 20—75.)



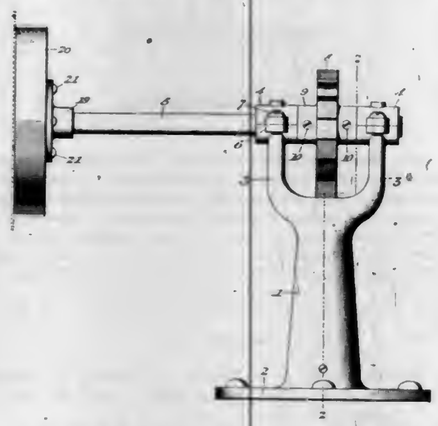
1. A surface block comprising a surface portion of choice wood, a base of common wood, and a piece of fabric arranged between the surface portion and the base, the surface portion being secured to the fabric by means of adhesive material applied over its entire under surface and the base being secured to the fabric by means of interspaced strips of adhesive material.

1,664,738. EXPANSIBLE BOX-BAND HOLDER FOR STRIPPING MACHINES. IRVING A. DELINE, Denver, Colo. Filed Feb. 24, 1927. Serial No. 170,574. 7 Claims. (Cl. 93—54.)



1. In mechanism of the character described, a ring-like holder comprising two half round sections having a hinge connection, projections on the free ends of said sections which are parallel and spaced from each other, a rotary spreader supported between said projections and a coil spring connecting the sections to resist the spreading movement.

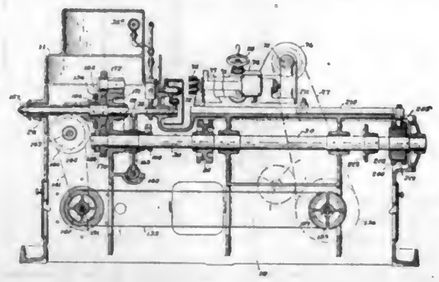
1,664,739. BOX HOLDER TO FACILITATE THE HAND-STRIPPING OPERATION IN THE PRODUCTION OF PASTEBOARD BOXES. IRVING A. DELINE, Denver, Colo. Filed Feb. 24, 1927. Serial No. 170,575. 2 Claims. (Cl. 93—54.)



1. In a device of the character described, a standard having an axial hole extending through the same, a shaft mounted in the upper end of said standard having a ratchet wheel rigidly mounted thereon, a spring-actuated pawl in said axial hole in engagement with the ratchet wheel, and a box-receiving form removably secured upon on end of said shaft.

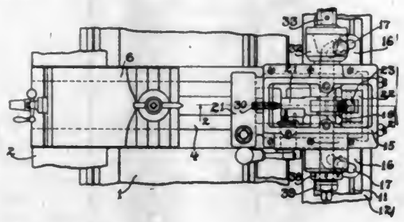
1,664,740. AUTOMATIC MULTIPLE-SPINDLE MILLING LATHE. JOHN A. DOANE, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 23, 1921. Serial No. 494,680. Renewed Sept. 13, 1927. 30 Claims. (Cl. 10—154.)

5. In a milling machine, the combination of a plurality of rotatable work spindles, a rotatable spindle for a thread milling cutter, means for effecting relative movement to bring about working relationship between the cutter and each of the spindles successively, means for rotating the work spindles when in operative position relative to the cutter, means for relatively moving said cutter and work spindles axially of the operative work spindle in timed relation to each other, and means whereby the rotative movement of each spindle is discontinued after it has rotated through approximately one revolution.



30. A milling machine comprising in combination, a base, a work supporting and rotating spindle thereon, a cutter support slidable on said base toward and from said spindle in a direction parallel to said spindle axis, a second slide mounted on said first slide adapted to move transversely of said first slide, a cutter on said second slide, cam operated means to move said slides along said base, cam operated means to move said second slide relative to said first slide, said slides moving in timed relation to each other, and a cam operating shaft adapted also to drive said spindle in timed relation with said cams.

1,664,741. RELIEVING ATTACHMENT. JAMES W. DURKEE, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 10, 1925. Serial No. 1,631. 8 Claims. (Cl. 82—19.)

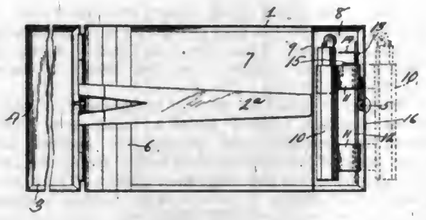


1. A relieving attachment for lathes comprising in combination, a carriage, a tool slide thereon, a rotary cam on said carriage, a shaft for rotating the cam, a cam follower on said slide means normally holding the follower in engagement with the cam, and a friction clutch comprising two members, one clutch member being attached to the carriage whereby it is held from rotation and the other attached to the cam rotating shaft and adapted to rotate therewith.

1,664,742. METHOD OF FINISHING LEATHER. FERDINAND WYCLIFFE ELLINGTON, Jamaica, N. Y. Filed Aug. 27, 1926. Serial No. 132,038. 7 Claims. (Cl. 41—37.)

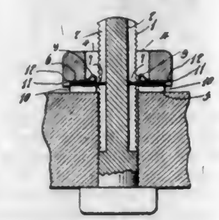
1. The process of finishing leather which consists in applying to its surface a size of the character described in the presence of linseed oil to retard its drying properties substantially free from pigment such as by a separate application therewith, and then covering said surface with a gilt.

1,664,743. CIGARETTE CASE. IRVEL J. GRIGNON, Duluth, Minn. Filed Nov. 5, 1925. Serial No. 67,005. 3 Claims. (Cl. 67—7.1.)



1. A lighter case and mounting therefor comprising hingedly connected sections, fastening means for the free ends of said sections, a hingedly mounted lighter within a chamber of one of said sections adjacent its free end, spring means for normally forcing said lighter outwardly to a position outside and beyond the end of the section to which it is hingedly connected, upon the release of a fastending means, said sections when in closed position forming means for maintaining the lighter within the chamber of one of the sections against the action of the spring means.

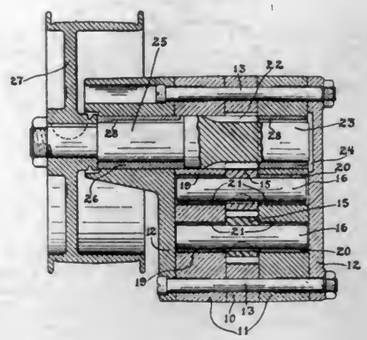
1,664,744. NUT LOCK. CARL F. HARTKOPF, Georgetown, Ill. Filed Mar. 3, 1927. Serial No. 172,892. 3 Claims. (Cl. 151—13.)



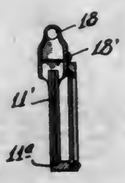
1. A nut lock, comprising a bolt having a longitudinal groove cutting the threads of the stem, a washer having an opening to receive the stem of the bolt, a tongue extending inwardly of the wall of said opening to engage in the groove in the bolt, a nut having a threaded opening to engage the bolt and having a groove cutting the threads therein, a second washer having an opening to receive the bolt, a tongue on said second washer engaging the groove in the nut, and interengaging elements on said washers to prevent relative rotation thereof.

1,664,745. FLUID PUMP. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed July 27, 1926. Serial No. 125,237. 2 Claims. (Cl. 103—126.)

1. A fluid pump comprising in combination, a central member having an opening therein, intermediate side members having openings therein, side closing members, means securing said members together, pumping gears rotatably mounted within the opening within said central member, shafts supporting said gears in position, bearings for said shafts in said intermediate members, a driving gear for said first mentioned gears, a shaft integral with said latter gear and extending on opposite sides of said gear, a bearing for said shaft formed within one of the intermediate side members, a bearing for said shaft on the opposite side of said gear formed in one of the side closing members, and conduits extending through one of said members for the fluid being pumped.



1,664,746. WINDSHIELD-CLEANING DEVICE. JOHN ALEXANDER HOWARD, West Brighton, N. Y. Filed Mar. 10, 1927. Serial No. 174,314. 3 Claims. (Cl. 20—40.5.)

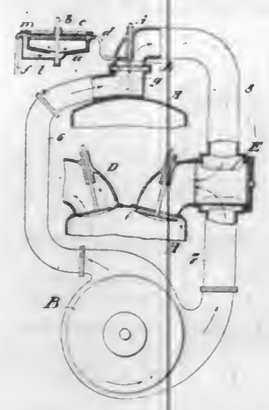


1. In a device of the class described, the combination with a window and window frame, of an auxiliary transparent member mounted on said window frame in front of said first mentioned window, a nozzle mounted over the upper edge portion of said auxiliary transparent member extending the entire length thereof and comprising side walls disposed downwardly substantially adjacent the front and rear surface of said auxiliary transparent member, and a conduit connected with said nozzle for supplying a draft of heated air thereto, said nozzle being adapted to distribute the heated air evenly throughout the entire length of said transparent member and on the front and rear sides thereof to prevent excessive expansion of one surface of said transparent member relative to the other.

1,664,747. INTERNAL-COMBUSTION ENGINE WITHOUT CARBURETOR. BASILE KAMENSKY, Berlin, Germany. Filed Mar. 31, 1924, Serial No. 703,096, and in Germany June 20, 1922. 4 Claims. (Cl. 123—119.)

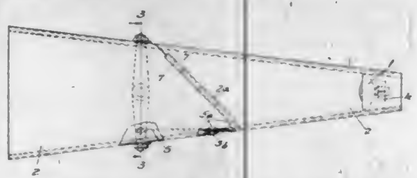
1. Internal combustion engine comprising in combination with the motor, a regulation valve, air pipes, a motor driven fuel pump admitting dosed quantities of

fuel under pressure into the air pipe, means for evaporating the admitted fuel, a motor driven air pump mount-



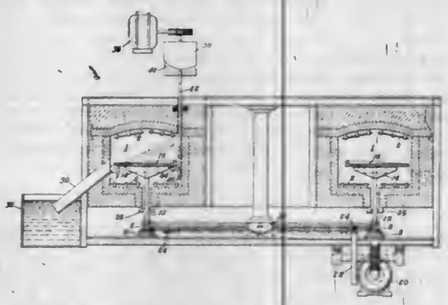
ed in said air pipes conducting pure air under pressure directly to the regulation valve, both pumps being of the same type.

1,664,748. INDIRECT LIGHTING SYSTEM FOR MOTOR VEHICLES. LEWIS F. KORNS, Minneapolis, Minn. Filed Aug. 2, 1927. Serial No. 210,074. 12 Claims. (Cl. 240—7.1.).



1. In a vehicle light, an inverted, trough like light reflecting shield formed in pivotally connected sections, a lamp mounted on one of said sections for directing light longitudinally of the shield, and the lamp carrying section swingable upwardly and downwardly to position above the other of said sections.

1,664,749. TILTING-HEARTH TRAY FURNACE. ALVIN D. KEENE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1927. Serial No. 178,823. 6 Claims. (Cl. 263—7.)

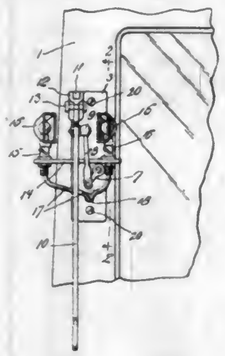


1. In a furnace, the combination with an annular furnace chamber, and a plurality of hearth trays mounted for movement through said chamber, of means for tilting said trays to effect the discharge of material therefrom, and means carried by a wall of said furnace for returning said trays to a nontilted position.

1,664,750. PROCESS FOR THE PRODUCTION OF GALVANIC METAL COATINGS. FELIX KIRSCHNER, Vienna, Austria. Filed Oct. 12, 1923. Serial No. 668,162, and in Austria June 10, 1923. 3 Claims. (Cl. 204—13.)

1. The herein described method of producing a highly lustrous metallic coating upon a metal base, which consists in electrolytically coating the ground metal with a layer of low-melting-point metal, fusing the layer to the ground metal and thereupon cooling it in a water solution to transform it into a layer having a smooth highly lustrous surface, and immediately electrolytically depositing nickel thereupon.

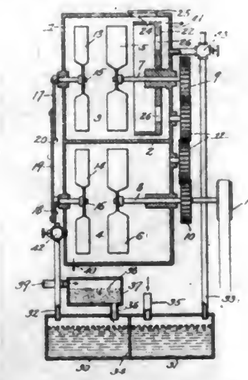
1,664,751. DIRECTION INDICATOR. ROBERT HAYDEN KITCHEN and HENRY N. NORRIS, Grayson, Ky., assignors of one-third to Austin Fields, Grayson, Ky. Filed Mar. 15, 1926. Serial No. 94,937. 2 Claims. (Cl. 116—62.)



1. In a direction signal, a pair of attaching plates, a shaft rotatably carried thereby, a signal arm pivotally connected at one end to one of said plates for vertical swinging movement, said plate having a light supporting flange adapted to provide illuminating means at opposite sides of the signal arm, an arm rotatably mounted on said shaft, a link attached at one end thereto and having a ball formed at its opposite end, a socket member carried by said signal arm for receiving said ball whereby to form a swivel connection between the link and signal arm, a quadrant attached to the opposite plate and a sectional operating handle arranged on the end of the shaft adjacent thereto, including an intermediate section of spring-pressed material adapted to yieldably retain the handle in engagement with the quadrant for securing the signal arm in a predetermined signalling position.

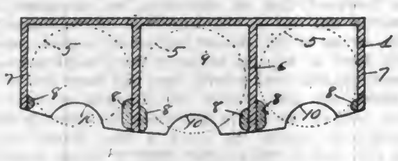
1,664,752. METHOD OF MEASURING THE DENSITY OF GAS. GEORG KÖNIG, Berlin-Dahlem, Germany. Filed July 3, 1924, Serial No. 723,976, and in Germany Mar. 6, 1920. 7 Claims. (Cl. 265—44.)

2. Method of measuring the density of a gas comprising, first, imparting kinetic energy to the gas to be measured, second, imparting kinetic energy to a standard gas, third, opposing the force produced by the energy imparted to the gas to be measured to the force



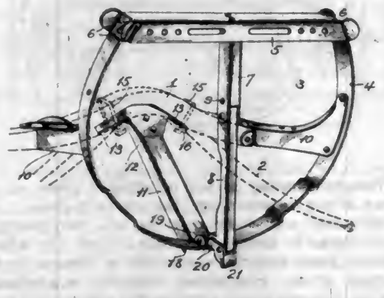
produced by the energy imparted to the standard gas, and, fourth, measuring the combined effect of the two opposing forces.

1,664,753. CARTON RACK. HERMAN H. LANGENFELD, Earling, Iowa. Filed May 9, 1927. Serial No. 189,931. 1 Claim. (Cl. 312—42.)



A carton rack comprising a casing having a back wall, side walls, vertically disposed spaced partitions in said casing and in combination with each other and with the side walls forming vertically disposed compartments for the reception of cartons, vertically disposed strips carried by the inner sides of the side walls and the opposite sides of the partition adjacent their outer edges, said strips terminating spaced from the lower ends of the compartments a distance equal to or greater than the height of the carton.

1,664,754. TIRE CARRIER. THOMAS H. LYNN, Williamsport, Pa. Filed Apr. 11, 1922. Serial No. 551,508. 1 Claim. (Cl. 224—29.)

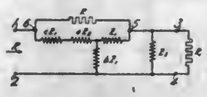


The combination with a tire carrier, of a brace having a rear extension secured to the tire carrier and provided with lugs, said brace being made angular in cross-

[redacted].

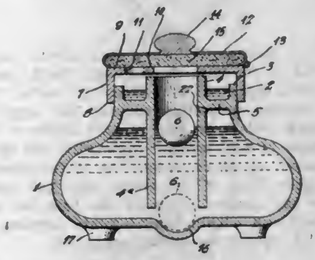
section and the rear ends of its flanges forming a backstop for a tire, lever members pivotally connected together, one of said lever members pivotally connected with the carrier, and a link having a shoulder, pivotally connected with the other lever member and pivotally connected with the lugs of the brace extension.

1,664,755. ELECTRICAL NETWORK. EDWARD L. NORTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1926. Serial No. 98,649. 1 Claim. (Cl. 178—44.)



A wave transmission network having a pair of input terminals and a pair of output terminals adapted to be connected to a load circuit having a substantially constant resistance impedance over a range of frequencies, said network comprising an impedance element connected directly between an input terminal and an output terminal, a pair of unequal impedance elements having a common terminal and having their other terminals connected respectively to the terminals of said first impedance element, and a fourth impedance element having one terminal connected to said common terminal and having connections from its other terminal to the remaining input and output terminals, the impedances of the elements of said network being so proportioned with respect to one another and to the impedance of the load circuit that the input impedance of said network is a constant resistance over said range of frequencies.

1,664,756. BOTTLE AND CLOSURE THEREFOR. WILTON H. PERRY, Brooklyn, N. Y. Filed Dec. 20, 1926. Serial No. 155,786. 2 Claims. (Cl. 215—6.)

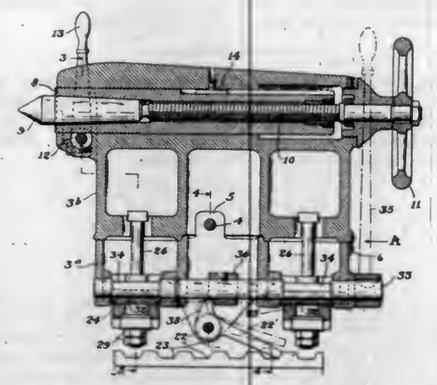


1. A bottle provided in the top of its neck with an annular channel adapted to contain water and surrounding the mouth of the bottle, a cap fitted on to the neck of the bottle and covering the top of said neck with that portion of the cap which overlies the neck spaced from the top of the neck and provided with an opening registering with the mouth of the bottle, a cover for said cap and adapted when in closed position to seal the opening in the cap, and a pad of absorbent material carried by the cover on the under side thereof.

1,664,757. TAILSTOCK CLAMPING MECHANISM. CLIFFORD F. RANDOLPH, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 21, 1923, Serial No. 626,584. Renewed Sept. 13, 1927. 8 Claims. (Cl. 82—31.)

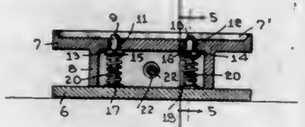
1. A lathe tailstock comprising the combination of means for engaging the ways of a lathe bed, a pair of

relatively movable clamping elements adjacent each end of the tailstock for engaging beneath the ways, and means including a shaft extending longitudinally of the



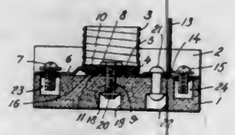
tailstock for operating both pairs of clamping elements, the elements of each said pair being moved relatively in performing the clamping operation.

1,664,758. ELECTRICALLY-HEATED SADIRON STAND. ROBERT O. REYNOLDS, Auburn, Me., assignor to Abraham Baker, Auburn, Me. Filed Nov. 26, 1926. Serial No. 150,764. 1 Claim. (Cl. 219—25.)



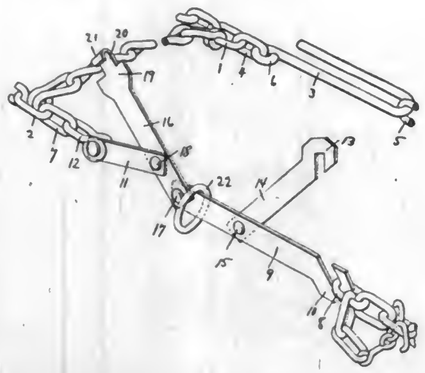
A stand for an electrically heated iron having exposed contact members on the base thereof, said stand comprising two flat faces separated by a housing, contact members in said housing projecting through the upper flat face of the stand, collars on said contact members limiting the movement of said members upwardly, coil springs about said contact members urging the latter upwardly through the upper face of the stand, said coil springs seating at one end against shoes on the base flat member of the stand and within the aforesaid housing, and at the other end against the collars aforesaid.

1,664,759. ELECTRIC FITTING AND THE LIKE. ALBERT B. RYPINSKI, Brooklyn, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed May 13, 1921. Serial No. 469,168. 5 Claims. (Cl. 173—342.)



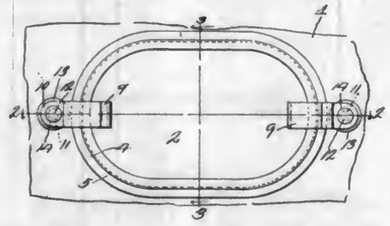
1. A fitting of the class described having a socket and terminal pieces fastened thereto by a single screw, and a base of non-conducting material, said socket and terminal pieces being all mounted on top of said base and fastened thereon by the said screw.

1,664,760. CHAIN FASTENER. LOREN B. THOMPSON, Virginia, Ill. Filed May 24, 1927. Serial No. 193,826. 1 Claim. (Cl. 24—68.)



In a chain fastener, an elongated bar formed at its outer end with a hook for detachable engagement with one of the free end links of a tire chain, a complementary hook carrying member carried by the bar and adapted to engage with said free end link to prevent the disengagement of the link from the hooked outer end of the bar, a shorter bar secured at its outer end to the other free end link of the chain, an elongated lever pivoted at one end to the inner end of the longer bar, the inner end of the shorter bar being pivotally secured to the lever at a point adjacent the pivotal connection between the inner end of the lever and inner end of said elongated bar, said shorter bar adapted to move forwardly toward the longer bar when the lever is swung forwardly to tighten the chain, a head formed on the outer free end of the pivoted lever, a tongue projecting outwardly from the outer end of the head, the outer end of the tongue being bent to form a hook, the outer end portion of the lever being sprung outwardly, and a locking ring adapted for disposition over the hooked outer end of said tongue and the hooked outer end of the elongated bar for locking the lever in its downwardly swung position.

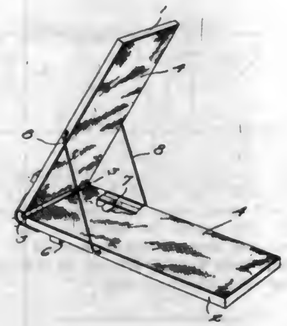
1,664,761. ANTIFROSTING DEVICE. RUDOLPH V. TICHOTA, Dodge, Nebr. Filed June 27, 1927. Serial No. 201,827. 2 Claims. (Cl. 20—40.5.)



1. The combination with a windshield glass, an antifrosting device adjacent one side of said glass, a sheet of transparent material carried by said antifrosting device, a yieldable frame extending around the edges of said transparent material and having a channel in which the edges of the transparent material is disposed, of means for attaching said anti-frosting device to the windshield glass, said means comprising U-shaped metallic members arching the edges of the transparent material and in the channels of the frame, one side of said U-

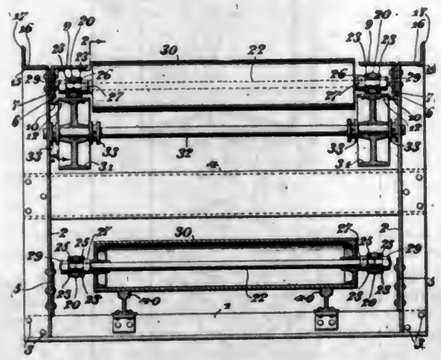
shaped members terminating in spring arms, said spring arms extending beyond the sides of the frame, and vacuum cups carried by said spring arms beyond the sides of the frame and cooperating with the windshield glass.

1,664,762. INSECT DESTROYER. HERMAN E. VOSS, Yuhsien, China. Filed Aug. 1, 1927. Serial No. 209,940. 1 Claim. (Cl. 43—137.)



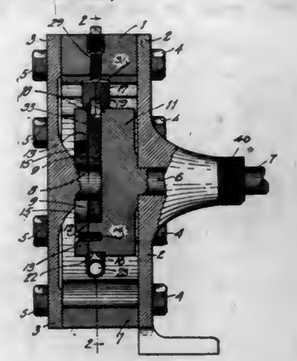
An insect destroyer of the character described comprising elongated frames, wire mesh covering one of the faces thereof, hinges secured to one of the ends thereof for mounting the frames for movable relation with respect to each other, spring means for urging the frame to open position, flexible means secured to said frame to limit the open position thereof, and finger gripping pieces transversing each of said frames and being arranged adjacent the hinged ends thereof.

1,664,763. CONVEYER. JERVIS B. WEBB, Detroit, Mich. Filed Feb. 12, 1925. Serial No. 8,606. 2 Claims. (Cl. 198—193.)



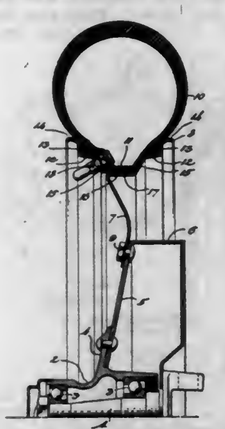
1. In conveyer apparatus, the combination of flexible endless conveyer means located in parallel spaced relation to each other, rotatable bars extending transversely of and connected at their opposite ends to the said conveyer means, which bars are adapted to support loads to be transported by the said conveyer means, combined stationary and rotatable supporting means for supporting the upper portions of the said flexible conveyers, and means for supporting the said load supporting means and the said conveyer means when the latter occupy their lower position.

1,664,764. PUMP. ARTHUR SHELDON WELDY, Canton, Ohio. Filed Sept. 3, 1926. Serial No. 133,452. 12 Claims. (Cl. 103—160.)



1. A pump comprising a casing, closely interfitting members rotatively mounted independent of and eccentric to each other within said casing and forming a pumping unit comprising a cylinder and plunger adapted to reciprocate therein, means for varying the relative reciprocating movement of said members, and means separate from said casing in contact with one of said members adapted to receive the discharge of said unit.

1,664,765. WHEEL STRUCTURE. CHARLES S. ASH, Royal Oak, Mich. Filed Aug. 30, 1923. Serial No. 660,079. 3 Claims. (Cl. 301—63.)

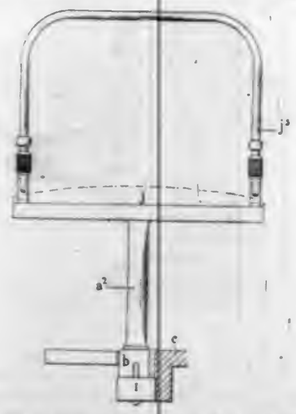


2. A disk wheel structure comprising a disk portion formed with an integral tire retaining rim portion, a peripheral portion of said disk being offset laterally to provide a seat for a tire bead and then extended radially outward to provide a tire retaining flange, and an annular rim member providing a seat for a tire bead and a tire retaining flange at the side of the disk opposite the integral rim portion thereof, said rim member having an annular portion to engage the laterally offset portion of the integral rim portion and secured thereto.

1,664,766. PIVOTING EMERGENCY SEAT. ARTHUR BOULOGNE, Levallois-Perret, France. Filed Jan. 6, 1926, Serial No. 79,606, and in France Jan. 14, 1925. 6 Claims. (Cl. 155—12.)

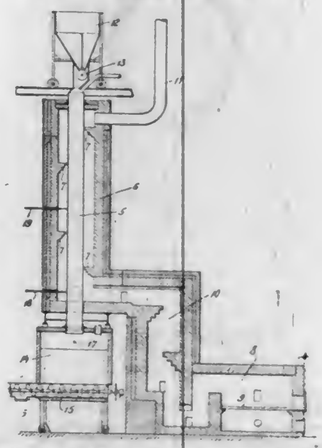
1. A folding seat of the character described, comprising a spindle adapted to fold in a vertical plane, a seat support on the upper end of the spindle, a seat mounted

on said support, a cone part on the spindle, a fixed conical socket for receiving said cone part when the seat is in the raised position, a movable member mounted in the fixed socket, means on the spindle for engaging the



movable member, and means comprising a stationary part and a spring device for controlling the turning movement of the said movable member and of the seat, the spring device cooperating with the movable member and the stationary point.

1,664,767. ZINC OXIDE. FRANK G. BREYER, EARL H. BUNCE, and JOHN H. WEIKEL, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed June 18, 1925. Serial No. 37,902. 5 Claims. (Cl. 134—78.)

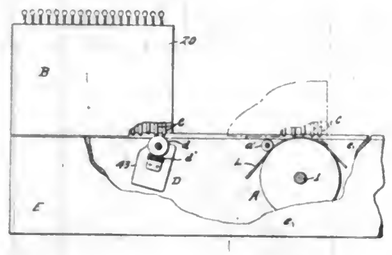


3. The method of improving zinc oxide for rubber compounding use, which comprises reducing the acidity of the oxide by the action of steam.

5. The method of improving zinc oxide for rubber compounding use which comprises passing the oxide through a tunnel furnace on a conveyor, said tunnel furnace having a heated zone filled with steam at a temperature between 125° and 150°.

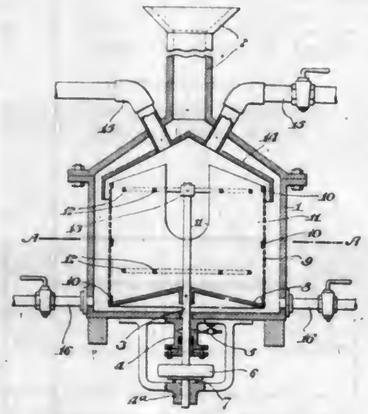
1,664,768. LISTING, COUNTING, AND PRINTING MACHINE. WILLIAM C. BULL, Los Angeles, Calif. Filed Jan. 27, 1926. Serial No. 84,040. 10 Claims. (Cl. 101—91.)

1. In a machine of the character disclosed, an impression cylinder, means for clamping a list sheet on said cylinder, a printing carriage, a plurality of printing units on said carriage, each unit comprising a type bar for printing the name of an article, a type wheel for printing the number of the article, means for setting said



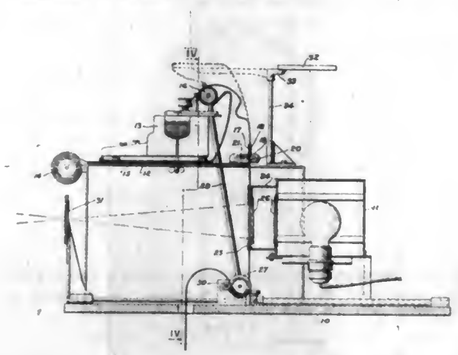
type bar and said type wheel in printing position for printing on said sheet when the carriage is moved over said cylinder, and means for advancing the cylinder a short distance each time an item is printed on said sheet so that the next item may be printed on said sheet immediately against said preceding item.

1,664,769. METHOD AND APPARATUS FOR CENTRIFUGAL THICKENING OF MIXTURES AND CLARIFYING OF LIQUIDS. HENRY M. CHANCE, Philadelphia, Pa. Filed July 29, 1925. Serial No. 46,752. 2 Claims. (Cl. 210—51.)



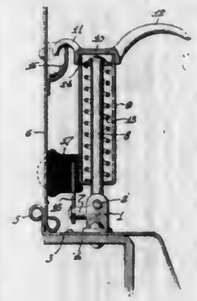
1. In separating a fluid mixture of liquid and comminuted solids heavier than said liquid into a clarified or partly clarified liquid and a thickened mixture of said liquid and solids, the improved method which consists in imparting substantially uniform angular speed of rotation to a substantially vertical cylindrical body of said fluid mixture; in introducing said mixture to be separated into a region of high rotative speed at a point exterior to but closely adjacent to the peripheral boundary of said rotating body; in causing said solids, by centrifugal force to move away from the center of rotation towards and into a region of relatively slow rotation beyond the peripheral boundary of said rotating body; in causing the said liquid to move towards the center of rotation, whereby the said liquid is clarified and the said mixture is thickened, and in removing said liquid from the said central region of rotation and the said thickened mixture from said peripheral region.

1,664,770. METHOD OF AND APPARATUS FOR RECORDING AND EXHIBITING. WILLIAM J. CITRON, San Francisco, Calif. Filed Feb. 16, 1927. Serial No. 168,683. 4 Claims. (Cl. 88—24.)



1. An apparatus for recording and exhibiting transitory information, comprising a typewriter having a platen roll, a projecting lantern disposed below the typewriter, means for guiding a strip of writing material from a supply roll to the platen roll of the typewriter, means for guiding said strip from the platen roll across the aperture of the lantern, and means connected with the platen roll for advancing said strip past the aperture.

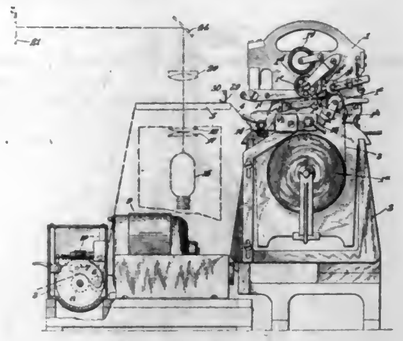
1,664,771. SIDE-CLAMP HOOD FASTENER. NORMAN W. CUMMINS, Plymouth, Mich. Filed Oct. 9, 1925. Serial No. 61,510. 4 Claims. (Cl. 292—114.)



1. In a hood fastener wherein a hood wall is adapted to be clamped down and against a stop member, and wherein a catch element is placed in hooked engagement with the hood wall to effect such clamping action against the stop member:—supporting means for said catch element, said means comprising a clamping element pivotally mounted adjacent the stop member and yieldingly supporting said catch element, and a buffer resiliently supported by said clamping element and adapted to be compressed between the hood wall and the lower end of the catch element.

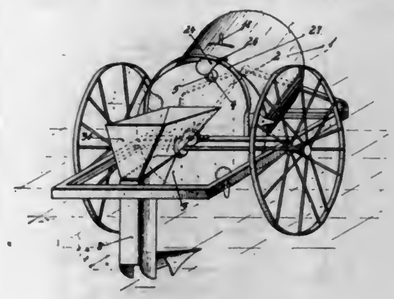
1,664,772. METHOD AND MEANS FOR FEEDING TAPE. ROBERT LOUIS DAINE, New York, N. Y., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 4, 1926, Serial No. 86,107. Renewed Feb. 25, 1928. 57 Claims. (Cl. 271—2.4.)

1. The method of converting an intermittent motion of a tape into a continuous motion which consists in forming a loop in the tape where it is moving intermittently, applying a brake to the tape adjacent the end of the loop,



feeding the tape from the brake with a continuous motion, and starting and stopping said continuous motion with a gradual acceleration and gradual retardation.

1,664,773. POTATO-PLANTING MACHINE. ALFRED EDELHOFF, Volkmarsen, Germany. Filed Apr. 18, 1927, Serial No. 184,762, and in Hungary Jan. 1, 1926. 4 Claims. (Cl. 221—128.)

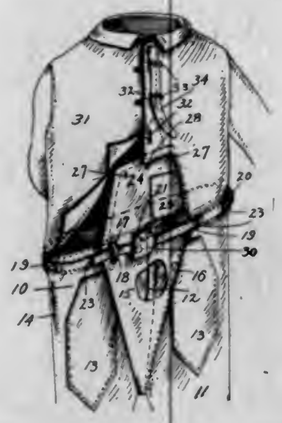


1. A potato planting machine, comprising, in combination with a wheeled frame, a drum-shaped receptacle adapted to receive the potatoes and being arranged obliquely, the rear end of its axis lying lower than its front end, partition walls subdividing the interior of said drum into a plurality of compartments, and every partition wall having a recess in its rim, the recesses of the several partition walls being located in staggered arrangement, and means for conveying the potatoes singly out of the said drum, substantially as set forth.

1,664,774. OVERALLS. ISAAC L. EDWARDS, Aurora, Ill. Filed June 10, 1927. Serial No. 197,929. 6 Claims. (Cl. 2—79.)

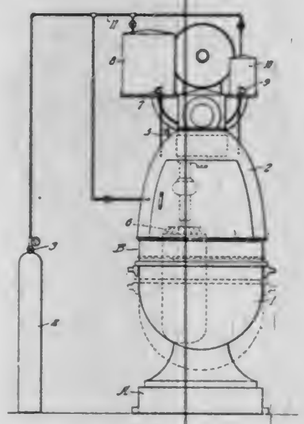
5. A trousers form garment having a fly and an apron extending from the crotch upward and adapted to cover the fly and permanently attached on one side beginning with the crotch upward to the waist and being loose or free from the crotch upward at the other side, means for confining the apron at the free side to the waist of the garment, and a belt extending about the waist, the free

ends of the belt being at the front, said means for confining the free side of the apron comprising a loop at the waist, a hole in the apron through which the loop



projects and through which said belt is placed and means for securing together the free ends of the belt, the waist having spaced holes through which said belt may be laced.

1,664,775. MAYONNAISE PRODUCT AND PROCESS FOR PRODUCING SAME. ALBERT K. EPSTEIN, Chicago, and MARVIN C. REYNOLDS, Oak Park, Ill. Filed Apr. 28, 1926. Serial No. 105,064. 7 Claims. (Cl. 99—11.)



1. The process for making a food product consisting of dispersing a chemically inert gas in an emulsion including edible oils in egg material at normal temperature, the amount of gas dispersed being greater than the amount soluble in the product.

1,664,776. NONVIBRATING GAUGE. OTTO W. HEISE, Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1925. Serial No. 52,704. 4 Claims. (Cl. 73—109.)

2. In an instrument of the class described, the combination with its mechanical train inclusive of the pressure responsive element, of an oscillatory member having such mass and attached to said mechanical train in such manner as to resist by its inertia alone relatively rapid pressure fluctuation impulses without affecting the response

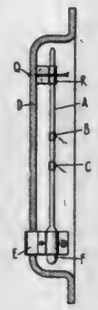


of the instrument to slow pressure changes, and a resilient connection in said train between the pressure responsive elements and said oscillatory member.

1,664,777. STENCIL SHEET. SHINJIRO HORII, Kanda-Ku, Tokyo, Japan. Filed Jan. 14, 1927. Serial No. 161,247. 3 Claims. (Cl. 41—38.6.)

1. Stencil sheet comprising a base of fibrous material impregnated with a mixture of a solution of esters of polysaccharides in a suitable solvent and alcohols obtained from oils and waxes of marine animals or fishes.

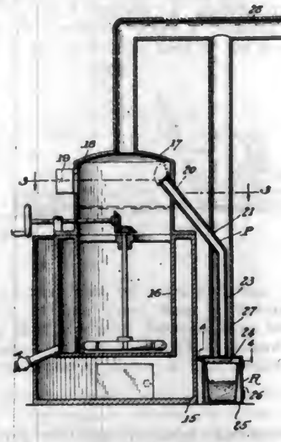
1,664,778. THERMOSTAT. LEE P. HYNES, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y., a Corporation of New York. Filed Mar. 24, 1923. Serial No. 627,515. 8 Claims. (Cl. 200—141.)



8. A thermostat comprising a hollow casing constructed of low heat conducting material, said casing being provided with slots, a metallic temperature detector having a corrugated outer portion extending over a contiguous portion on the outside surface of said casing, said detector having inwardly extended portions projecting through said slots, a thermometer tube within said casing and provided with electric contacts, and means carried by the inwardly extended portions of said temperature detector for engaging the bulb of the thermometer and maintaining a thermal conducting contact therewith.

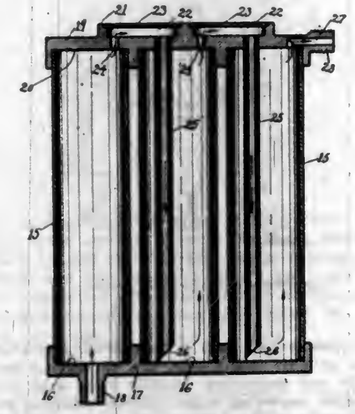
1,664,779. MELTING POT. LOUIS WARREN JONES, Los Angeles, Calif. Filed Mar. 10, 1927. Serial No. 174,336. 6 Claims. (Cl. 266—34.)

1. In combination, a melting pot for metals, a dross receptacle, an outlet in the pot through which dross from the surface of the molten metal in the pot can be discharged from the pot, means for conducting the ejected dross to the receptacle, and means correlated with respect



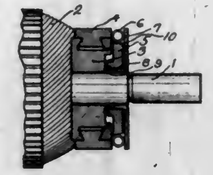
to the receptacle for separating unmelted articles, matrices and space bands from the dross to permit recovering thereof.

1,664,780. CARBONATED-WATER COOLER. WILLIAM E. LEIBINO, Oakland, Calif., assignor to Magnus Fruit Products Co., San Francisco, Calif., a Corporation of California. Filed July 20, 1925. Serial No. 44,787. 1 Claim. (Cl. 261—121.)



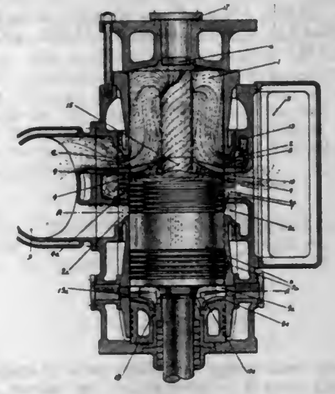
A device for prevention of separation of gas in a carbonated water cooler, comprising a pair of spaced end sections, a plurality of hollow cylinders mounted in and between the end sections and forming closed chambers therewith, one of said end sections being formed with an inlet, one of said end sections having an outlet, said inlet being of greater area than the outlet, one of said end sections having its normal upper edge portion formed with a plurality of transfer chambers and with inlet and outlet ducts establishing communication through said transfer chambers and between said closed chambers, corresponding inlet ducts of the respective transfer chambers being smaller than the corresponding outlet ducts of said transfer chambers, pipe sections mounted in the outlet ducts of the respective transfer chambers and extending downwardly through said closed chambers establishing communication between said transfer chambers and the bottom portion of the closed chambers, whereby carbonated liquid is maintained in said closed chambers under pressure and is conducted serially through all of said chambers between said inlet and outlet and flows upwardly through all the chambers.

1,664,781. DYNAMO-ELECTRIC MACHINE. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 22, 1920. Serial No. 425,832. 19 Claims. (Cl. 172—279.)



12. A short circuiting device for electric motors including in combination with a commutator, a plurality of weight elements arranged circumferentially of the axis of said commutator and movable outwardly by centrifugal force, and an annular helical spring arranged circumferentially of said weight elements and engaging the outer ends thereof to resist the outward movement of said weight elements by centrifugal force.

1,664,782. INTERNAL-COMBUSTION ENGINE. EDWARD C. MAODEBURGER, Washington, D. C. Filed Jan. 20, 1925. Serial No. 3,604. 4 Claims. (Cl. 123—61.)



1. A scavenging system for internal combustion engines including a cylinder, a piston operable therein, a plurality of scavenging and exhaust ports in the cylinder, the scavenging and exhaust ports being respectively arranged on transverse lines with respect to the cylinder, the ports in one line being staggered with respect to the ports in the other line, ports in the piston coacting with the scavenging ports in the cylinder, and means carried by the piston for producing a substantially solid column of scavenging fluid only.

1,664,783. COMPOUND TOOL. CARL MARCH, Chicago, Ill. Filed Mar. 16, 1926. Serial No. 95,115. 1 Claim. (Cl. 294—7.)

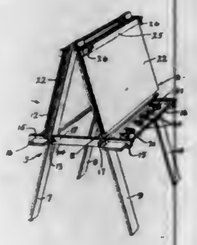
An implement for turning over fried cakes while being baked on a griddle, comprising an elongated solid rod, one end thereof being enlarged, the enlarged end of the rod

being substantially triangular in cross section, one flat face of the triangular portion adapted to rest on the griddle while the apex portion of the triangular portion engages the under side of the cake, the outer end of the triangular shaped enlarged portion being tapered to provide a point which tapered portion is circular in cross



section, said pointed end facilitating the insertion of the implement beneath the cake and further facilitating the proper positioning of the triangular portion beneath the cakes to effect the turning of the same, the outer end of the rod being formed with a handle, the intermediate portion of the rod being provided with a series of air holes.

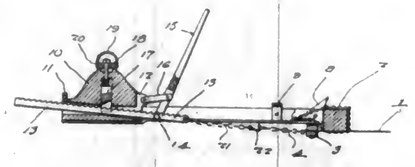
1,664,784. EASEL. MARY E. A. MERRITT, Long Beach, Calif. Filed Dec. 7, 1925. Serial No. 73,693. 2 Claims. (Cl. 45—129.)



1. An easel construction comprising pairs of supporting bars hingedly secured together at the top thereof, drawing boards secured to the outer face of each pair of supporting bars at the upper ends thereof, a drawing material clamping mechanism secured to the upper edge of the drawing boards, side braces detachably engaging the supporting bars, receptacle holding shelves detachably secured to the ends of the side braces for maintaining the supporting bars against movement when assembled, and horizontally extending drip troughs secured to the lower edges of the drawing boards adapted to receive excess liquid color that may drip from the material disposed on the drawing boards.

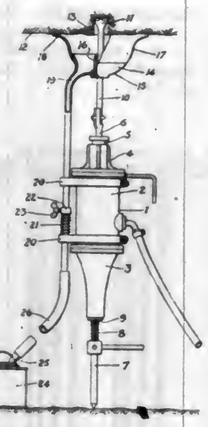
1,664,785. FENCE-WIRE STRUCTURE. HARRY M. MOORE, Elmira, Mo. Filed Jan. 12, 1927. Serial No. 160,650. 1 Claim. (Cl. 254—68.)

In a wire stretcher, a frame of general V-shaped configuration composed of a pair of angle irons, a cross brace connected to the diverging end portions of said irons, spur plates carried by the last named ends of said bars, a body disposed between and connected to the opposite ends of said irons, said body having a passage extending therethrough, a toothed rack bar slidable through said passage, a chain connected to the inner end of said rack bar, a hook carried by the free end of



said chain, an operating lever for said rack bar, a link pivotally connected to said lever and to said body, a spring pressed pawl mounted upon said body and movable at right angles to said rack bar for engaging the teeth of the latter, and a rotary retainer carried by said pawl.

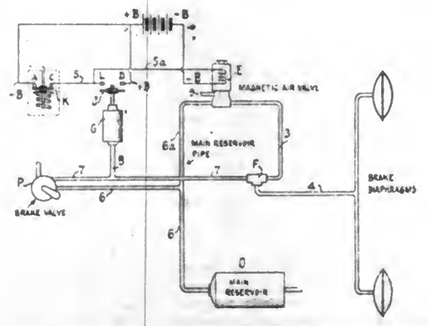
1,664,786. DUST-COLLECTING DEVICE FOR ROCK DRILLS. SPIRO MUMOVICH, Anyox, British Columbia, Canada. Filed July 26, 1926. Serial No. 125,090. 2 Claims. (Cl. 255—50.)



1. The combination with a rock drilling machine including a cylinder and a drill rod of bearing members carried by and projecting laterally from said cylinder, a rigid dust conveying tube slidably mounted in said bearing members, an abutment carried by said tube, a spring confined between said abutment and one of the bearing members and tending to move the tube in the direction of the work, and a dust collecting cup carried by said tube and receiving the drill rod therethrough, the interior of said cup being in communication iwth the interior of said tube.

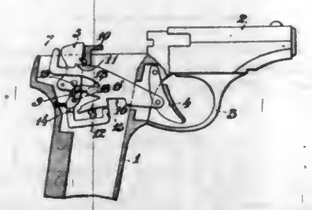
2. The combination with a rock drilling machine including a cylinder and a drill rod of bearings carried by and projecting laterally from the cylinder, a rigid dust conveying tube slidably mounted in said bearings and formed at one end with an integral laterally offset cup having a central opening receiving the drill rod therethrough, a flexible lip carried by said cup, and a spring encircling said tube and confined in compression between an abutment on the tube and one of said bearings so as to normally tend to slide the tube in the direction of the work to maintain contact between the work and the flexible lip of the cup.

1,664,787. AIR BRAKE. GEORGE E. OAKLEY, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y., a Corporation of New York. Filed Feb. 3, 1926. Serial No. 85,664. 7 Claims. (Cl. 203—6.1.)



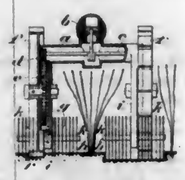
1. An air-brake system comprising a brake-controlling valve, an electromagnet therefor, a steering wheel, and a switch for said magnet, and a circuit closing contact for said switch located adjacent to the steering wheel so that it may be gripped by the operator while grasping said steering wheel.

1,664,788. AUTOMATIC OR SELF-LOADING SMALL ARM. LUDWIO OBERHAMMER, Munich, Germany. Filed May 27, 1926. Serial No. 112,049, and in Germany June 17, 1924. 8 Claims. (Cl. 42—8.)



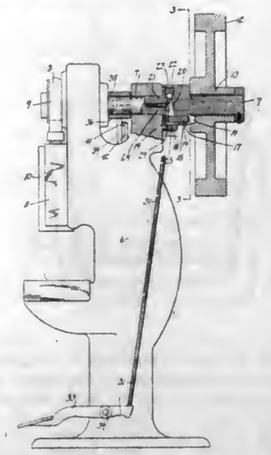
2. In a recoil-operated pistol, a percussion element having a notch therein; a catch having a pointed end engageable in said notch to hold the percussion element at fullcock and also having a locking arm; and a trigger bar cooperative with said catch in cocking and uncocking said element and having a recess for engagement by said arm.

1,664,789. MOTOR TILLING MACHINE. KONRAD VON MEYENBURG, Basel, Switzerland. Filed Dec. 1, 1925, Serial No. 72,549, and in Germany Dec. 12, 1924. 2 Claims. (Cl. 97—40.)



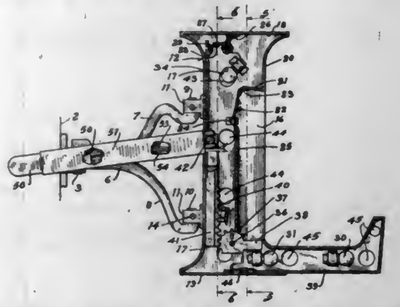
1. In a motor tilling machine for tilling between rows of plants, a hollow main frame forming a gear casing, two hollow arms extending downwardly from said frame on both sides of a row of plants and rigidly connected therewith so as to form with said frame a rigid yoke-like housing, two horizontal tilling shafts carried by said hollow arms and a gearing located within said arms to drive said shafts.

1,664,790. AUTOMATIC GUARD FOR THE INTERMITTENTLY-OPERATED RAMS OF POWER MACHINES. HUGO C. PAECHT, New Haven, Conn., assignor to Standard Safety Manufacturing Co., New Haven, Conn., a Corporation. Filed Oct. 10, 1924. Serial No. 742,945. 5 Claims. (Cl. 192—116.5.)



1. In a power machine, the combination with an intermittently-driven shaft, of a fly-wheel therefor, coupling and uncoupling mechanism for said shaft and wheel, and an automatic guard-mechanism connected with the said coupling and uncoupling mechanism for operation thereby, so that the guard-mechanism will be brought into play for preventing a second or successive revolution of the shaft after the same has been uncoupled from the fly-wheel whereby the shaft is limited to one revolution for each volitional operation of the said coupling-and-uncoupling mechanism.

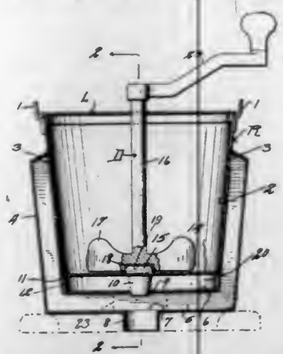
1,664,791. TRAFFIC SIGNAL FOR AUTOMOBILES. JOSEPH H. POWERS, Mills, Wyo. Filed Mar. 6, 1925. Serial No. 13,439. 1 Claim. (Cl. 177—329.)



In an automobile traffic signal having a vertical casing open on one side, a signal arm pivoted to the lower end of the casing and adapted to be folded into the casing when in inoperative position and to extend outwardly in a horizontal direction when in operative position and means for moving said arm from operative to inoperative position, a lamp located within the casing near the upper end thereof, a partition extending trans-

versely of the casing below the lamp, a portion of said partition being immovably secured to the casing and another portion being hingedly connected with the stationary portion so as to normally assume a vertical position and means on the arm for moving the hinged portion to a horizontal position when the arm is moved to inoperative position.

1,664,792. WASHING MACHINE. JAMES ELMER RUFFNER, Jeannette, Pa. Filed Jan. 25, 1927. Serial No. 163,452. 6 Claims. (Cl. 68—15.)



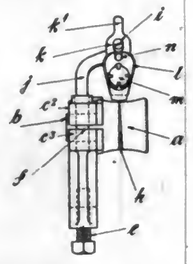
1. A washing machine comprising a receptacle having substantially opposed openings in the upper portion of its side wall, conduits carried by such side wall of the receptacle and leading downwardly from the openings, another conduit extending across the bottom of the receptacle and with which the first named conduits communicate, the central portion of the last named conduit being provided with a discharge opening, a dasher working within the receptacle, and means for admitting liquid under pressure within the lower portion of the receptacle to provide the continuous upward movement of the liquid in the receptacle, said liquid rising within the receptacle carrying off through the conduits matter loosened from the articles being cleansed within the receptacle.

1,664,793. TOOL FOR RESTORING SCREW THREADS. HENRY F. SCHLEININGER, New York, N. Y. Filed Oct. 11, 1926. Serial No. 140,698. 1 Claim. (Cl. 10—1.)



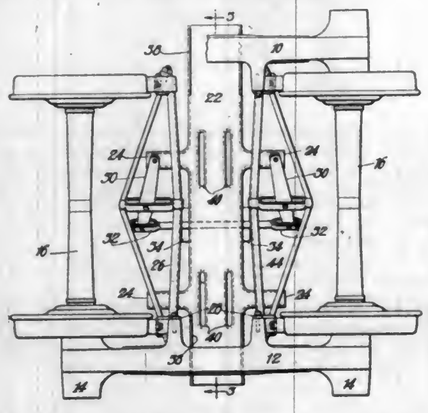
A tool for restoring screw threads, comprising a hardened steel bar having on the face thereof a plurality of parallel longitudinally extending ridges spaced and shaped to conform to a thread of given pitch, the ridges being cut at intervals by grooves extending diagonally with respect thereto.

1,664,794. SLUB CATCHER. ALFRED SEELEY, Rochdale, England. Filed Aug. 23, 1927, Serial No. 214,923, and in Great Britain Aug. 14, 1926. 21 Claims. (Cl. 28—64.)



1. A device for effecting the removal of thick or thick and soft places or portions from yarns or threads which comprises a grooved body adapted to be adjusted in position about an axial line, presenting a V groove increasing in depth from one part to another with its bottom curvilinear about said axial line, catching means to extend within range of thick places or portions of greater than intended thickness presented in yarn passing in said V groove and adjustable in the direction to and from the bottom of said groove, a support providing bearing for said grooved body allowing it to be adjusted about said axial line and bearing for said catching means allowing said catching means to be adjusted towards or from the groove of said grooved body, means for fixing said grooved body in position about said axial line and means for fixing said catching means in adjustment in the direction to and from the bottom of the groove of said grooved body.

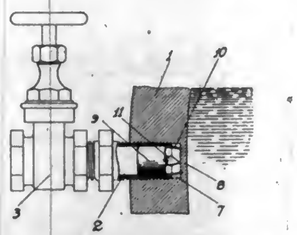
1,664,795. RAILROAD-CAR TRUCK. WILLIAM C. SLEEMAN, Birmingham, Ala. Filed Nov. 12, 1926. Serial No. 147,948. 6 Claims. (Cl. 105—208.)



1. A car truck including spaced side frames, a pressed metal spring plank extending transversely between said frames and brake beam safety supports pressed integrally with said spring plank.

1,664,796. WOODEN-PIPE TAP. WILLIAM E. SPANGLE, Fairoaks, Calif. Filed Feb. 7, 1927. Serial No. 166,527. 4 Claims. (Cl. 225—41.)

1. A device for removing the wood remaining at the bottom of a hole partially drilled through the side of a wooden pipe to receive a threaded pipe fitting, comprising a cutting element projecting longitudinally from the inner end of the fitting and adapted to engage and cut the wood circumferentially with the rotative advancement of



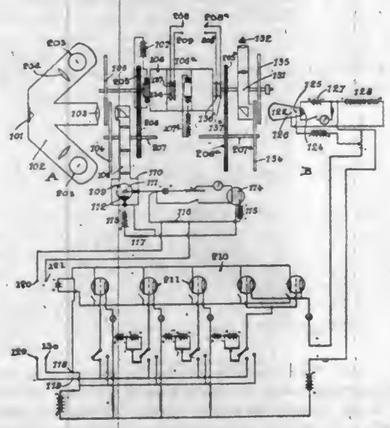
the fitting into the hole, and a band on which the element is mounted adapted to be fitted into the bore of the fitting at its inner end.

1,664,797. BRUSH. PHILIP W. STONE, Boston, Mass. Filed Oct. 21, 1924. Serial No. 745,005. 5 Claims. (Cl. 15—201.)



1. A tooth brush comprising a handle member, a head carried by said handle, tufts of bristles set in said head, a relatively short member in which are set a smaller number of tufts to supplement those carried by the handle member and constitute together a full length tooth brush, the short member being of greater thickness and width than the bristle carrying portion of the handle member and being channeled to receive and snugly embrace the head.

1,664,798. RECEIVING DEVICE FOR DISTANT-VISION INSTALLATION. GEORGES. VALENSI, Paris, France. Filed Sept. 7, 1923, Serial No. 661,507, and in France Dec. 29, 1922. 5 Claims. (Cl. 178—6.)



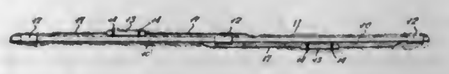
1. In a distant vision installation comprising a photo-electric cell at the transmitting station and an electric device at the receiving station adapted to be acted upon by the photo-electric current proceeding from said photo-electric cell, a local source of additional energy for producing rays in said electric device, means in the path of said rays for producing a luminous wide spot, means for acting upon said rays in accordance with the variations of the photo-electric current, means for producing a luminous point from said luminous wide spot and for displacing said point in a continuous manner and at a uniform speed, and means for synchronizing said exploration with the exploration at the transmitting station of the image to be reproduced.

1,664,799. APPARATUS FOR ONWARD MOVEMENT IN SWIMMING ATTITUDE IN THE WATER. RUDOLF PIETER VAN ALPHEN, The Hague, Netherlands. Filed Apr. 11, 1927, Serial No. 182,936, and in the Netherlands Mar. 30, 1926. 1 Claim. (Cl. 9—18.)



In a device of the character described, two longitudinally adjustable vertical sections of small width in comparison to their height, a substantially flat horizontal buoyant section on one of said vertical sections for supporting the body portion of a swimmer, a substantially flat horizontal buoyant section on the second vertical section, a propeller mounted in the rear end of said second vertical section, manually operable means for rotating said propeller to cause movement of said device, and a manually controlled rudder adjacent the front end of said vertical section, the longitudinal adjustment of said vertical sections permitting adjustment to the requirements of the individual swimmer.

1,664,800. ELECTROCHEMICAL METHOD OF AND MEANS FOR PROTECTING BURIED PIPE LINES AGAINST CORROSION. RONALD VAN AUKEN MILLS, Sandy Spring, Md., assignor to Peter Q. Nyce, Washington, D. C. Filed Dec. 5, 1924. Serial No. 754,187. 2 Claims. (Cl. 204—1.)

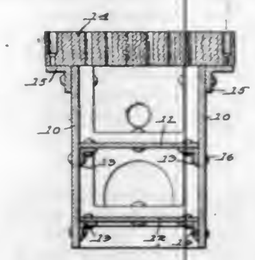


1. A device for protecting buried iron or steel piping against corrosion, comprising a zinc protecting element buried within the earth in intimate contact therewith and in close proximity to said piping, but spaced therefrom by means of non-conducting spacers, and conductors for completing an electric circuit to said piping at a distance from the protecting element.

1,664,801. SUCTION BOX. JOHN WARREN VEDDER, Worcester, Mass., assignor to Rice, Barton & Fales, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 10, 1926. Serial No. 89,462. 2 Claims. (Cl. 92—51.)

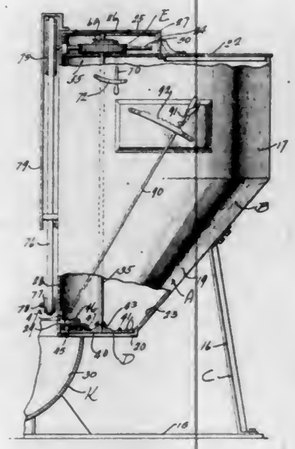
1. As an article of manufacture, a suction box for a paper making machine comprising a pair of side plates of a metal consisting mainly of aluminum each extending in one piece from the bottom to the top and having a hori-

zontal bottom and horizontal partition, each formed of a plate of the same metal, the bottom and partition being located entirely between said sides and riveted by alumi-



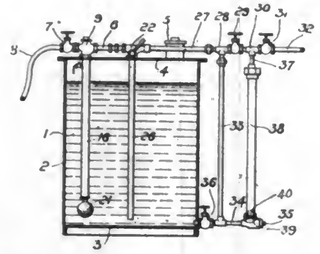
num rivets on the inner surfaces of said side pieces so as to provide a sealed joint along each side of the bottom and partition.

1,664,802. DISPENSING MECHANISM FOR SPRAYING MACHINES. AVERY W. WALKER, Gasport, N. Y. Original application filed June 12, 1922. Serial No. 567,808. Divided and this application filed Feb. 4, 1926. Serial No. 86,024. 2 Claims. (Cl. 221—125.)



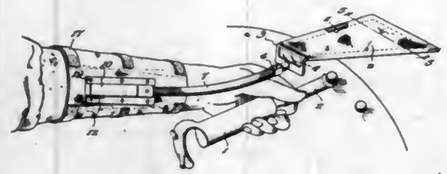
2. In a dispensing mechanism a container having a substantially horizontal opening in the lower end thereof and a side opening in a wall of the container adjacent said horizontal opening, a rotary member over the horizontal opening having teeth thereon, a rotary feed disc having teeth intermeshing with the teeth of the rotary member for the purpose of directing materials from the container thru the side wall opening, and a closure including a door portion and an oscillating shaft bearing in the container, said door portion including a flat top flange extending from said shaft and of substantially triangular formation adapted to overlie a portion of said rotary disc, said door furthermore including a flange at the free edge of the first mentioned flange portion extending transversely thereto downwardly into the space between the rotary disc and the wall of said container in which the side opening is provided, said last mentioned flange having one end thereof shaped to conform to the teeth of the rotary disc, the other end thereof being notched to permit the passing of the teeth of the rotary member there past, and said last mentioned flange being divergent towards the rotary disc with respect to the plane of the side wall opening.

1,664,803. PAINT-SPRAYING MACHINE. LEWIS RUDOLPH SHAFTO AGASSIZ, Vancouver, British Columbia, Canada. Filed Dec. 14, 1926. Serial No. 154,830. 6 Claims. (Cl. 91—45.)



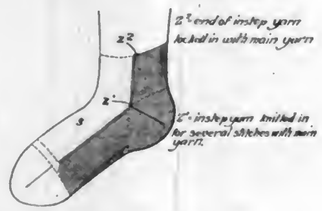
1. In a paint spraying machine having a paint container, a paint ejector, an aerated paint outlet, and an air inlet to the container and the paint ejector, a valve adapted to close against the air inlet, and means as the paint reaches a predetermined low level to close the valve.

1,664,804. TOOL GUARD. GEORGE E. ALLEN, Buffalo, N. Y. Filed July 14, 1926. Serial No. 122,479. 3 Claims. (Cl. 2—11.)



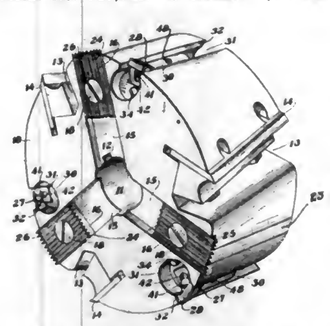
1. A tool guard comprising a cuff, means for securing the cuff to the person of the workman, a coupling member mounted upon the cuff, a flexible tube connected at one end to the coupling member and a guard coupled to the opposite end of the flexible tube.

1,664,805. KNITTED FABRIC AND METHOD OF MAKING THE SAME. GEORGE LAWSON BALLARD, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Original application filed Nov. 6, 1922, Serial No. 599,402. Divided and this application filed Nov. 6, 1924. Serial No. 748,180. 2 Claims. (Cl. 66—179.)



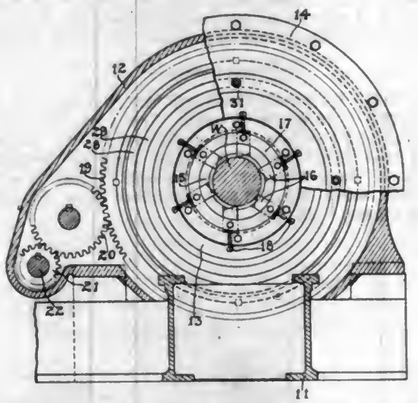
1. A split foot stocking having an instep yarn knit in with the yarn from the main feed at the end of the heel gore to be thereby locked in place, said instep yarn being continued intact in knitting split fabric at the ankle portion at the top of the instep, the main yarn forming the split fabric above the heel, said instep yarn being thereafter knit in with the main feed yarn, and then severed, substantially as described.

1,664,806. CUTTER HEAD FOR WOODWORKING MACHINES. ROLAND O. BETTERLEY, Williamsport, Pa., assignor to Hermance Machine Company, Williamsport, Pa., a Corporation of Pennsylvania. Filed Nov. 5, 1924. Serial No. 747,943. 6 Claims. (Cl. 144—223.)



1. The combination of a rotary cutter head having a longiutdinal slot extending from end to end thereof and extending from the peripheral surface of the head inwardly toward its axis, said slot having near said surface undercut faces, a cap plate disposed between said faces and closing the outer side of the slot, means for securing the cap plate in position, a cutting spur mounted for radial adjustment at one end of the head, a screw extending longitudinally through said slot, and means cooperating with said screw for clamping the spur in its adjusted position.

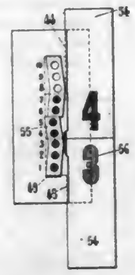
1,664,807. ROTATING CUTTER HEAD. LYNDON C. COLE, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 2, 1926. Serial No. 99,314. 9 Claims. (Cl. 164—60.)



1. A revolving cutter head for metal cutting machines comprising in combination, a body member, an annular member rotatably mounted therein, cutting tools mounted on said annular member, means to rotate said annular member, and removably positioned bearing members therefor engaging opposite sides of said annular member and adapted to retain the annular member against axial movement.

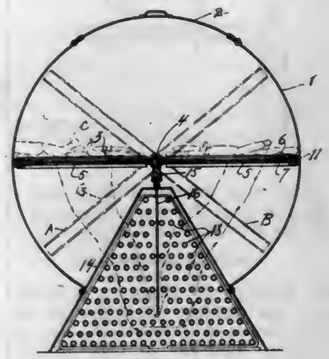
1,664,808. TEACHING DEVICE. ALFRED COOPER, Stowmarket, England. Filed Oct. 18, 1926, Serial No. 142,463, and in Great Britain Oct. 31, 1925. 11 Claims. (Cl. 35—2.)

1. Appliance for teaching arithmetic comprising a guide having a front plate, a rear plate extending at one side laterally beyond the front plate, a spacing strip between said front and rear plates arranged to leave a slot between the two plates, 10 holes pierced in said front plate over said slot said holes being arranged in two



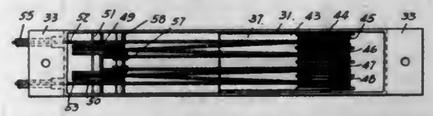
groups of 5, the holes of each group being arranged on an obtuse angle, and the two groups being stepped laterally relatively to each other.

1,664,809. DRYING-ROOM TUMBLER. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 15, 1926. Serial No. 135,556. 8 Claims. (Cl. 34—7.)



1. A drying room tumbler comprising a horizontal cylindrical casing, an oscillating clothes support mounted in the casing concentric with the axis of the casing and extending diametrically of the casing, the support having a perforate portion providing passages for air, means for oscillating the support about its axis, and means for drying the air in the casing during the circulation thereof by the movement of the support.

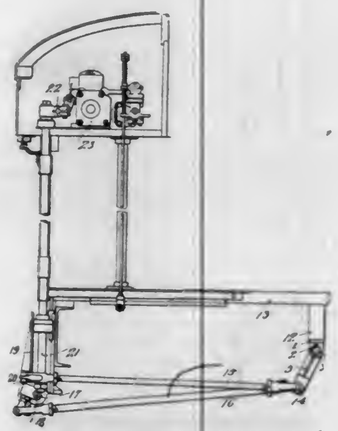
1,664,810. DIRECTION SIGNAL. ROBERT C. FORRELL, Los Angeles, Calif. Filed Oct. 21, 1926. Serial No. 143,174. 1 Claim. (Cl. 116—63.)



A direction signal comprising a casing having an open bottom and an opening in its front wall, a transparent panel spanning the opening, a U shaped frame insertable into the casing through its open bottom and closing the latter, means for securing the frame to the casing, a pair of rollers journaled in the end walls of the casing and

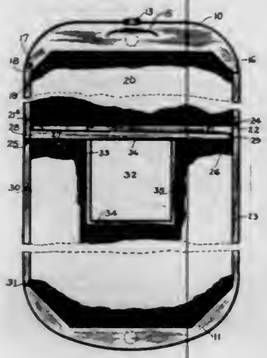
horizontally disposed above and below the opening, a web having a plurality of signal legends thereon and trained about the rollers to expose a portion of the web at a time through said panel, one of said rollers having a spring normally acting to wind the web thereon, and means by which the other roller is adapted to be rotated to unwind a predetermined length of web from the spring roller and thereby expose any one of the signal legends through said panel.

1,664,811. ROCKER-STEP CONNECTION. PARIS R. FORMAN, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Feb. 4, 1926. Serial No. 85,829. 3 Claims. (Cl. 105—445.)



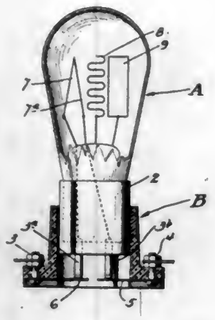
1. A rocker step connection comprising a plate bar having integral arms thereon, a bifurcated link member and means for pivotally attaching said link to said arms.

1,664,812. RADIATOR. FREDERICK GAROIULO, EATON G. EDWARDS, and CHARLES OPPE, New Haven, Conn., assignors to The G. & O. Manufacturing Company, New Haven, Conn. Filed Apr. 20, 1921. Serial No. 463,022. 22 Claims. (Cl. 257—125.)



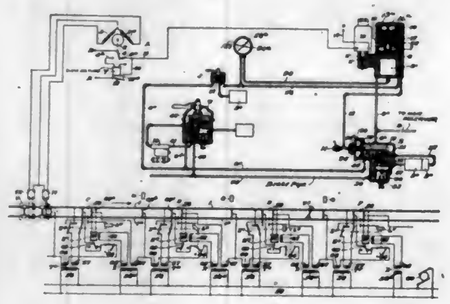
1. A radiator comprising a plurality of sections, means located between adjacent sections to receive a part of the contained fluid from one section and by-pass it about the adjacent section, said by-pass being cut off from communication with said adjacent section.

1,664,813. FILAMENT-CURRENT-REVERSING DEVICE. LEON W. GILLIS, Alderwood Manor, Wash. Filed July 19, 1927. Serial No. 206,875. 8 Claims. (Cl. 250—27.5.)



3. In a thermionic tube having a base provided with prongs and a filament connected with the prongs, a socket to receive the base and the prongs, contact members in the base engageable with the prongs to close an electric circuit through the filament in one direction, means insertable between the prongs and the contacts of the socket to reverse the current flow through the filament, said means comprising an elongated block of insulating material having two openings formed therein to receive the prongs of the tube base, and a pair of contact members carried by said insulating member, said contact members being arranged on opposite sides of the insulat the member and being disposed on an angle, each contact member having upper and lower contacts formed at opposite ends thereof, the upper contacts engaging the prongs and the lower contacts engaging the socket contacts, the contacts on the insulating member being so arranged that the lower ends thereof will engage the socket contacts of opposite prongs and the upper ends of the contacts will engage prongs opposite to the socket contacts.

1,664,814. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HENRY W. GRIFFIN, New York, N. Y., and LEMUEL F. HOWARD, Edgewood Borough, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed June 10, 1922. Serial No. 567,397. Renewed Aug. 26, 1924. 24 Claims. (Cl. 246—63.



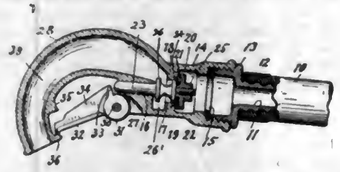
4. Railway traffic controlling apparatus comprising a vehicle provided with a magnet, mechanism on said vehicle controlled by said magnet and effective for a given interval of time after de-energization of the magnet to apply the brakes, manually operable means on the vehicle for preventing an application of the brakes during said interval of time, a slow-closing electromagnetic circuit

controller on the vehicle, means for energizing said magnet when said circuit controller is closed; and means partly on the vehicle and partly in the trackway for energizing said magnet directly under clear traffic conditions, for energizing said circuit controller under caution conditions, and for deenergizing both said magnet and circuit controller under stop conditions.

1,664,815. PROCESS FOR THE MANUFACTURE OF BURNT BUILDING MATERIALS OR THE LIKE OF CLAY. HUGO GROŠNOOS, Copenhagen, Denmark. Filed Aug. 4, 1925, Serial No. 48,054, and in Denmark Aug. 6, 1924. 4 Claims. (Cl. 25—156.)

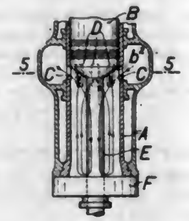
1. Process for the production of burnt building materials of clay, comprising the steps of preparing a granular annealed material from an admixture of clay and chemical substances adapted to lower the fusing point of the clay, admixing a quantity of said granular annealed material with the clay from which the actual moulded units for the building material are produced, moulding and pressing said units, and drying, burning and cooling the same in a kiln in one continuous operation.

1,664,816. NOZZLE. FRED E. HANSEN, Lakewood, Ohio, assignor to The Hansen Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 7, 1927. Serial No. 166,349. 8 Claims. (Cl. 251—116.)



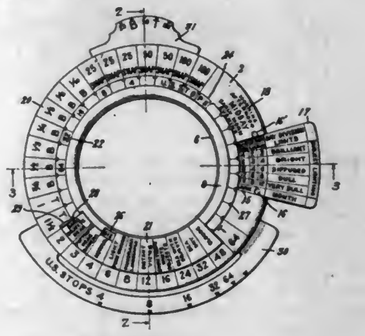
7. In a device of the class described, a nozzle comprising a portion adapted to be attached to a pressure line, a valve in said portion adapted to be closed by pressure in the line, a stem on the valve extending axially through said portion, a hook-shaped delivery end for the nozzle extending to one side of the said stem, and means within the space enclosed by the hook-shaped end for moving said stem against the pressure on the valve, said means being so positioned as to be operable by engagement with the rim of a vessel when the nozzle is positioned to discharge into the vessel.

1,664,817. SCAVENGING INTERNAL-COMBUSTION ENGINE. ERNST HERKT, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Filed Apr. 3, 1926, Serial No. 99,510, and in Germany Apr. 3, 1925. 1 Claim. (Cl. 123—61.)



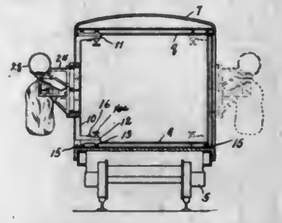
Two cycle internal combustion engine of the Diesel type, comprising a cylinder, a piston working therein having a piston rod penetrating the cylinder room and an end face tapering towards the piston rod, piston controlled inlet ports arranged at both sides of the cylinder and outlet ports arranged at one side of the cylinder between the inlet ports and at the same level with the inlet ports, said inlet ports being inclined so that the incoming scavenging air flows tangent the tapered end face of the piston on both sides and strikes the cylinder wall opposite to the outlet ports, the two flows of the scavenging air uniting and being directed along said wall to the cylinder head crossing the piston rod and flowing to the outlet ports, said outlet ports being inclined at the same angle as the tapered face of the piston rod.

1,664,818. PHOTOGRAPHIC EXPOSURE CALCULATOR. JOHN R. HEWETT, Schenectady, N. Y. Filed June 2, 1922. Serial No. 565,482. 4 Claims. (Cl. 235—88.)



1. An instrument for use in photography comprising an annular casing, an annular disc in said casing provided with light factor tables, an opening in said casing of the same size as the tables on said disc, a scale plate flanking said opening and means for positioning any one of said tables opposite said opening in alinement with said scale plate.

1,664,819. MAIL RECEIVING AND DELIVERING DEVICE. HENRY J. HILL, Jersey City, N. J. Filed May 6, 1926. Serial No. 107,001. 2 Claims. (Cl. 258—9.)

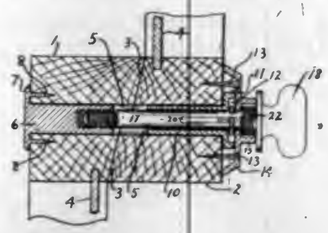


1. A device of the class described comprising a carriage having inwardly projecting extensions, guide rails for said carriage whereby it may be moved to either side of a railway car, a plate secured to the carriage, a triangular arm hingedly connected to said plate, shock resisting means for said arm, a hook pivotally connected to the outer end of said arm and interconnected links between said arm and said hook.

1,664,820. WINDOW FASTENER. CHARLES LEOPOLD HUGHES, Hamilton, Ontario, Canada. Filed Aug. 11, 1925. Serial No. 49,612. 1 Claim. (Cl. 292—251.)

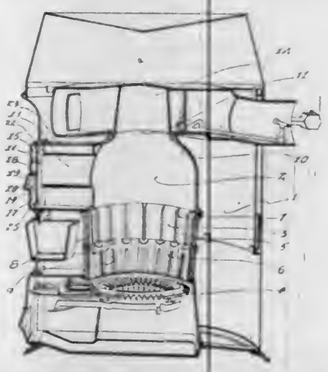
A sash fastener for windows comprising a cylindrical element formed with a flanged head at one end and with an internally threaded axial recess at the other end, spicular projections carried by the flanged head and directed towards the end having the axial recess therein, a sleeve having an enlarged head at one end, said sleeve positioned in spaced relation from and in axial align-

ment with the cylindrical element with the enlarged head remote from said cylindrical element, said enlarged head formed with a recess in the end thereof, a face plate superimposed over the enlarged head and provided with an orifice in alignment with the bore of the sleeve, a spindle slidably mounted within the sleeve and projecting outwardly through the orifice in the face plate, a finger grip at the outer end of said spindle, a compression coil spring upon the spindle and operative between the



face plate and finger grip, the spindle formed with a slot therein, a ring surrounding the spindle and having one end thereof bent within the slot and slidable therealong, said ring located within the recess in the enlarged head of the sleeve, the spindle positioned in axial alignment with the cylindrical element and formed at the end thereof adjacent to said element with an externally threaded portion adapted to have threaded engagement within the internally threaded recess in the element.

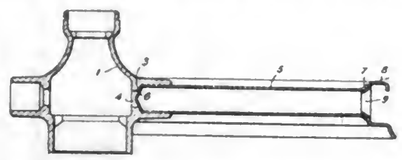
1,664,821. ADDITIONAL AIR SUPPLY FOR WARM-AIR FURNACES. RICHARD JUDD, ERNEST TAYLOR, and RALPH S. MCNANEY, Dowagiac, Mich., assignors to Premier Warm-Air Heater Company, Dowagiac, Mich., a Corporation of Michigan. Filed Jan. 24, 1927. Serial No. 163,220. 5 Claims. (Cl. 126—112.)



1. In a warm air furnace, the combination of a combustion chamber, a fuel supply passage therefor, a door for said passage and means for directing a supply of air into said combustion chamber including a channel extending longitudinally of and cast integrally with the walls of said fuel supply passage at the top portion thereof and a cooperating channel in said door adapted to communicate with the aforesaid channel when the said door is in closed position.

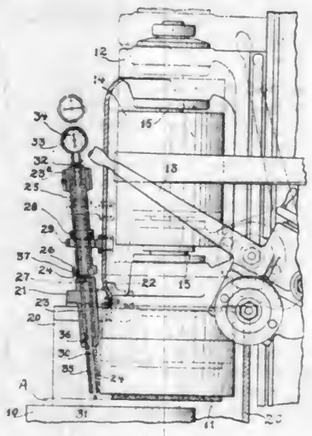
1,664,822. METHOD OF ASSEMBLING TUBULAR-STEEL-SPOKED AUTOMOBILE WHEELS. WILLIAM KISTLER, Chatham, Ontario, Canada. Filed Aug. 30, 1924. Serial No. 735,150. 1 Claim. (Cl. 29—174.)

A method of assembling tubular steel spoked automobile wheels which consists in providing the spoke bosses of a hub with hollow interiors having tapered bottoms into which are inserted the correspondingly tapered upset inner ends of the spokes, the outer ends of the spokes having been previously swelled out into bell-like form, then applying to the outer ends of the spokes a heated and consequently expanded steel felloe which at normal temperatures is of an internal diameter slightly less than the distance between the outer ends of the opposed spokes, and subsequently stamping out of the felloe in-



wardly extending tapering spigots engaging the interior walls of the swelled out outer ends of the spokes, the heated felloe upon cooling contracting to its above normal diameter whereby the spokes are placed under compression stresses, said contraction of the felloe on cooling forcing the tapered inner ends of the spokes into their centered position in engagement with the tapered bottoms of hollow interiors of the hub.

1,664,823. SIZE INDICATOR FOR SURFACE GRINDERS. CARROLL KNOWLES, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 19, 1923. Serial No. 620,022. 8 Claims. (Cl. 51—165.)

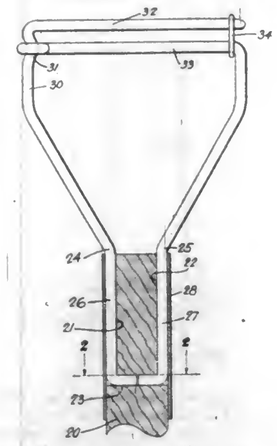


1. An indicator device for surface grinders comprising in combination, a fixed support, an indicator movably mounted on the support, means to remove the indicator from its operative position and return it to its operative position, said means being operated by movement of the wheel toward and from the work supporting table of the grinder.

1,664,824. MOP HOLDER. CARL H. KOEKER, Dayton, Ohio. Filed June 23, 1927. Serial No. 200,989. 3 Claims. (Cl. 15—147.)

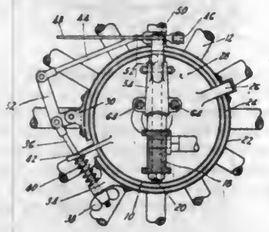
1. A device of the character described comprising, a handle in which are anchored a pair of clamping members having portions diverging from the handle in diametrically opposite directions said members being bent inwardly at a properly spaced distance from the end of the handle toward each other to provide parallel, spaced branches, the one clamping member having a hump bent therein at a point in axial alignment with the

branch of the other clamping member, the end of the last mentioned branch being bent about the hump of the other clamping member to anchor it to said member so that the former cannot move longitudinally of the latter; and a clip carried on the anchored branch of the



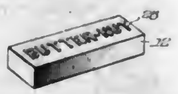
one member, adapted to be latched over the free end of the branch of the other clamping member for securing this free end of the said member to the anchored branch at a point remote from its anchorage at the hump of the one clamping member.

1,664,825. BRACKET AND BRAKE LEVER. EDWARD L. KULICK, Milwaukee, Wis., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1927. Serial No. 189,751. 16 Claims. (Cl. 188—194.)



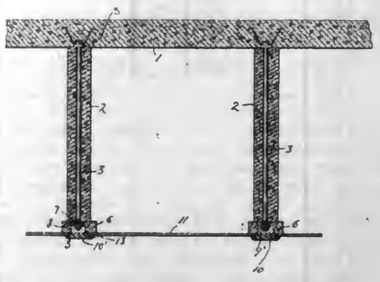
3. A vehicle having, in combination, a swivelled wheel having a drum and a contractable friction device surrounding the drum, a part swivelling with the wheel and arranged to contract said device against the drum, and a non-swivelling member engaging said part, the point of engagement being movable in a plane substantially perpendicular to the swivelling axis.

1,664,826. METHOD OF MARKING CONFECTIONERY. EDWARD MESSER, Pittsburgh, Pa. Filed Oct. 24, 1923. Serial No. 670,401. 2 Claims. (Cl. 107—54.)



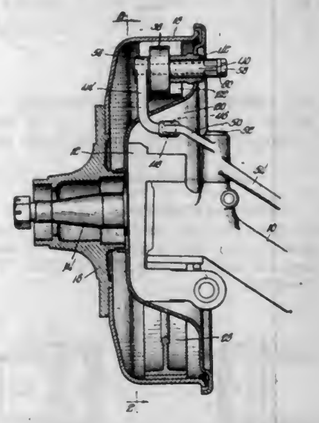
1. The method of marking confectionery which comprises coating a center with chocolate, laying a patterned die plate on top of the coated center while the coating is still soft and plastic, cooling the coating while the die plate remains on the coating by its own weight and then removing the die plate from the coating, whereby the top surface of the coated candy is impressed with the design of the die plate.

1,664,827. ALIGNMENT STRIP FOR ELECTRICAL BARRIERS. PAUL NICHOLAY, Wayne, Mich., assignor to Deceleco, Inc., Wayne, Mich. Filed May 16, 1927. Serial No. 191,908. 5 Claims. (Cl. 72—98.)



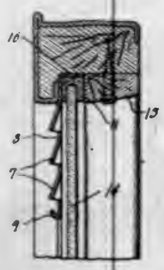
1. In a device of the character described, the combination with a barrier, and a jamb strip extending upon an edge face of said barrier, and having openings therethrough from its outer face to the engaged edge of the barrier, the outer portions of said openings being enlarged, of securing elements for said strip carried by said barrier projecting into said openings of the strip, and means within the enlarged outer portions of said openings for clamping the strip to the barrier.

1,664,828. ADJUSTABLE CAM FOR BRAKES. BEN G. PARSONS, South Bend, Ind., assignor to The Bendix Brake Company. Filed Feb. 18, 1925. Serial No. 10,017. 4 Claims. (Cl. 188—194.)



1. A brake comprising, in combination, a drum and backing plate, friction means between the drum and backing plate, a device for operating the friction means, an operating arm on the drum side of said device, and means on the outside of the backing plate for adjusting the relative angular positions of the arm and cam.

1,664,829. VENTILATOR FOR VEHICLES. JOHN H. PARSONS, Pontiac, Mich. Filed Sept. 21, 1925. Serial No. 57,650. 4 Claims. (Cl. 98—2.)



1. The combination with a window frame having a substantially horizontal upper portion and substantially vertical outer guide portions for the pane exteriorly of and at the sides of the top portion, the angle between said horizontal upper portion and vertical guide portions being not greater than ninety degrees of a ventilator comprising a perforated body portion having a centrally arranged securing flange bent at an angle to the body portion greater than ninety degrees and side portions arranged at each end of the flange, whereby when the surface of the securing flange is brought into abutting engagement with the horizontal top portion of the window frame the body portion will be forced outwardly to bring the side portions of the ventilator into engagement with the vertical guide portions of the window frame to prevent rattling of the ventilator.

1,664,830. TRUCK PEDESTAL. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Mar. 10, 1927. Serial No. 174,271. 12 Claims. (Cl. 105—205.)



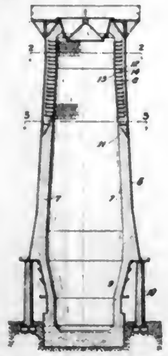
1. A truck pedestal leg having a plurality of parallel surfaces spaced from each other so as to successively engage the respective sides of journal boxes of different widths.

1,664,831. TRUCK PEDESTAL. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Mar. 10, 1927. Serial No. 174,272. 12 Claims. (Cl. 105—225.)



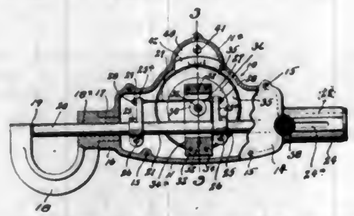
1. A car truck pedestal leg having side walls and a transverse web between said side walls, said side walls being provided with spaced bolt holes for securing a wear plate in different positions relative to said web.

1,664,832. BLAST FURNACE. WILLIAM PATRICK POWER, Newcastle, New South Wales, and ESSINGTON LEWIS, Malvern, Victoria, Australia, assignors to The Broken Hill Proprietary Company, Limited, a Corporation of Victoria, Australia. Filed Jan. 20, 1927, Serial No. 162,265, and in Australia Dec. 9, 1926. 5 Claims. (Cl. 266—25.)



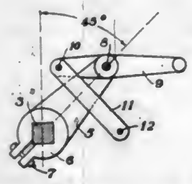
1. In a blast furnace, the combination with an upper lining of means for supporting the same connected to the outer shell of the furnace independently of the lower lining.

1,664,833. MICROMETER CALIPER. HARRY C. SCHAPER, St. Louis, Mo. Filed Mar. 2, 1925. Serial No. 12,469. 7 Claims. (Cl. 33—147.)



1. A micrometer caliper comprising in combination a stationary work abutment member, a slidable work abutment member cooperating with the former, operating connections adjustably mounted on said slidable member, a measure indicia carrying disk member rotatable by said connections and in accordance with the movement of said slidable member to indicate the distance between said work abutment members, an optical system for reading portion of said indicia bearing member in a magnified form, and a stationary vernier scale in correlation with said indicia member.

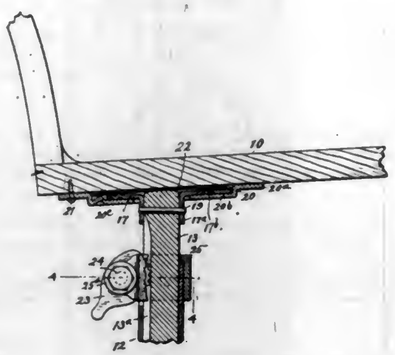
1,664,834. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. WILLIAM E. SMITH, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 18, 1926. Serial No. 142,222. 6 Claims. (Cl. 246—203.)



1. In combination, a rotatable shaft, a crank secured to the shaft, a trip arm pivotally secured to the crank,

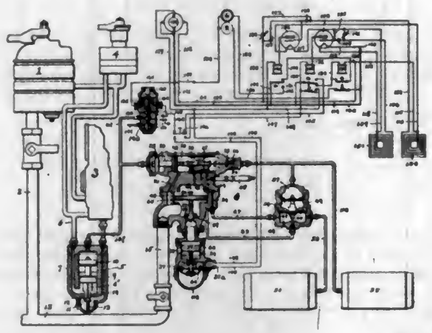
and a link having one end pivoted about a fixed point and the other end pivotally secured to one end of the trip arm.

1,664,835. SEAT CONSTRUCTION. CLARENCE E. STEVENS, Cleveland, Ohio, assignor to White Sewing Machine Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Feb. 14, 1927. Serial No. 167,882. 4 Claims. (Cl. 155—95.)



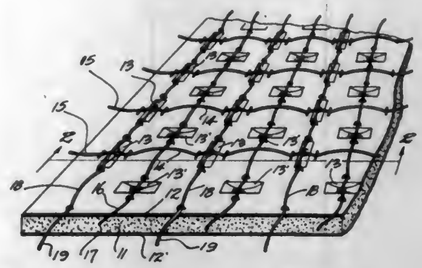
1. In a swiveled seat or chair construction, a seat, a supporting post having at the top a circularly corrugated flange, and a plate secured to the lower side of the seat and having an offset portion extending beneath said flange.

1,664,836. VALVE. CHARLES B. STONE, Detroit, Mich., assignor to Continuous Train Control Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 22, 1926. Serial No. 82,902. 3 Claims. (Cl. 303—8.)



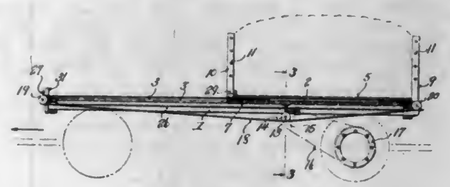
1. In an air brake system for railway trains comprising an engineer's train valve, a distributer valve, and an automatic electro-pneumatic valve adapted to cause the application of the brakes, a control valve between the distributer valve and the train valve adapted to be operated by air received from the electro-pneumatic valve under normal running conditions to keep open a passage between the distributer valve and the train valve and to close said passage when the electro-pneumatic valve causes the application of the brakes.

1,664,837. PLASTER BOARD. JOSEPH STRAND, Los Angeles, Calif., assignor to Klinch Lath Corporation, a Corporation of California. Filed June 25, 1924. Serial No. 722,265. 6 Claims. (Cl. 72—124.)



1. A plaster board provided with longitudinal and transverse keying slots having sides substantially at right angles to the surface of said board; and a plurality of plaster reinforcing wires secured to the sides of, and entirely outside of, said plaster board, and arranged crisscross over a portion of said slots.

1,664,838. HAYRACK. LOUIS C. STRUENSEE, Oshkosh, Wis. Filed Mar. 17, 1926. Serial No. 95,239. 1 Claim. (Cl. 214—81.5.)

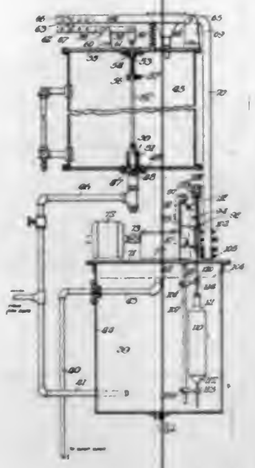


A hay rack comprising a pair of longitudinally extending bed members, a stationary hay receiving platform carried by the rear part of said bed members, a track comprising a pair of rails carried by said bed members and extending across said rear platform, said rails each consisting of an angle iron having a flat bottom portion, an upturned portion and an outwardly turned portion, a movable platform provided with pairs of angle irons, rollers revolubly mounted between the pairs of angle irons and adapted to travel upon the said rails, said movable platform having a plurality of inwardly turned lips fitting over the outwardly turned portions of said rails, the upturned portions of said rails constituting guiding flanges to prevent the rollers from passing off said rails, and means for shifting said movable platform.

1,664,839. FLUIDITY-CONTROL SYSTEM. HUGO H. WEBMINK, Villa Park, Ill., assignor to Belden Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1924, Serial No. 745,190. Renewed Feb. 23, 1928. 5 Claims. (Cl. 23—253.)

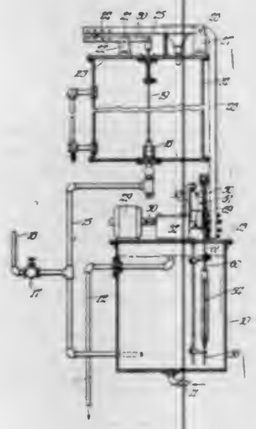
3. In a system for regulating the density of a solution, the combination of a valve for admitting thinner from a source of supply to the solution, a part engaging said

valve and adapted to open the valve when actuated, and means for actuating the part comprising a constantly



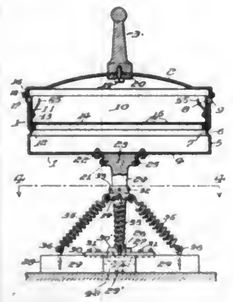
driven member normally inoperative to actuate said part, and a buoy having means for enabling said driven member to actuate said valve part.

1,664,840. APPARATUS FOR STANDARDIZING SOLUTIONS. HUGO H. WERMINE, Villa Park, Ill., assignor to Belden Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1925, Serial No. 30,214. Renewed Feb. 23, 1928. 4 Claims. (Cl. 23—253.)



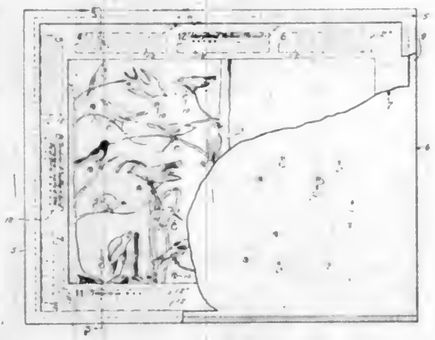
1. In a system for regulating the composition of a solution, the combination of a member submerged in said solution and having a relatively high temperature coefficient of expansion as compared with a solid body, and means controlled by the buoyancy of said member for supplying said solution with liquid of a different composition to compensate for changes in such composition.

1,664,841. SIFTER. HERBERT S. WOODWARD, Carbondale, Pa. Filed Aug. 2, 1924. Serial No. 729,706. 8 Claims. (Cl. 209—331.)



1. In a sifter, the combination with an universally resilient support, of a screening device rigidly secured to the free end of said support whereby said device may be agitated substantially horizontally in all directions and said device will be returned after agitation to its normal position, due to the resiliency of said support.

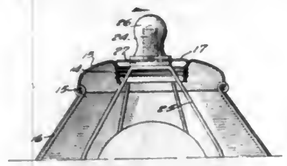
1,664,842. EDUCATIONAL APPLIANCE. G. FRED YESSLER, Port Chester, N. Y., assignor, by mesne assignments, to Knapp Electric Corporation, Port Chester, N. Y., a Corporation of New York. Filed Oct. 15, 1926. Serial No. 141,744. 7 Claims. (Cl. 35—12.)



1. An educational appliance, including a frame member, a card and a relatively movable backing sheet adapted to be associated with said frame, sets of symbols upon said sheet and sets of representations upon said card, the latter being formed with sets of openings through which the symbols are visible to identify said representations, one set of symbols being visible when the card is in one position, a second set of symbols being visible through a second set of openings when the card is in another position upon said sheet.

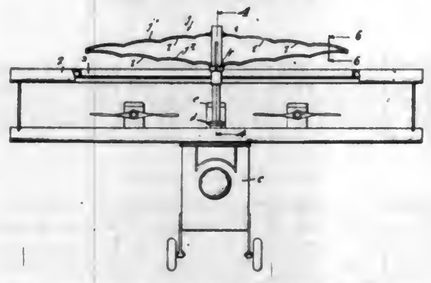
1,664,843. SHADE-SUPPORTING ADAPTER FOR LAMPS. PHILIP ACKER, Brooklyn, N. Y. Filed May 8, 1926. Serial No. 107,547. 3 Claims. (Cl. 240—128.)

1. A shade supporting adapter for lamps, in the form of a sheet metal ring having external threads of the size of the threads on the skirt of a lamp socket cover, whereby a shade support adapted to fit a socket cover



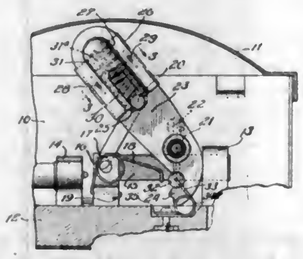
may fit the ring, and a spider carried by one end of the ring, the spider being apertured to fit the adapter to a small post, or the like.

1,664,844. SAFETY LANDING AND TAKE-OFF DEVICE FOR AEROPLANES. JAMES BRUSH ANDERSON, Portland, Oreg. Filed June 22, 1927. Serial No. 200,700. 7 Claims. (Cl. 244—15.)



1. In combination with an aeroplane of the type described and provided with a cock pit, auxiliary means for lifting and lowering the aeroplane under conditions mentioned, consisting of a driven vertical shaft carrying horizontally extended, oppositely disposed wings, the said shaft being telescopable, and the wings and their attachment to the shaft adapted to permit the wings to be brought closely together in substantially flat relation.

1,664,845. SWITCHING DEVICE. ALBERT P. BALL, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 23, 1921. Serial No. 517,165. 8 Claims. (Cl. 200—153.)

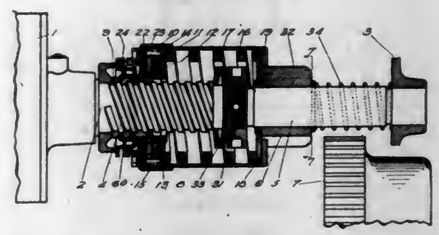


6. In a switch, stationary contacts, movable contacts, an operator, a link pivotally mounted with respect to said movable contacts and having a lost motion connection with said operator, and a spring for snapping the movable contacts open, said link being recessed at its upper end and having hooked lower end, the recess receiving the operator and said link further comprising a pair of plates on opposite sides of the upper end of said main link member, said plates being bulged outwardly and oppositely to form a barrel which permanently positions said spring between said operator and a stop formed by said plates, and said bulged portions being recessed oppositely to the recess in the main link member, whereby the association of said plates and said member eventuates a slotted link having a spring so positioned therein that the contacts are snapped open.

1,664,846. TREATMENT OF ROCK ASPHALT. WILLIAM P. BENTLEY, Dallas, Tex. Filed Feb. 17, 1928. Serial No. 255,202. 5 Claims. (Cl. 94—23.)

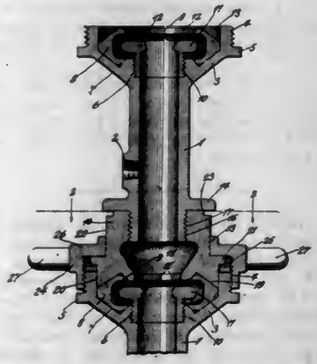
1. A method which comprises first determining the voidage in rock asphalt reduced to usuable sizes, then adding bituminous flux in an amount insufficient to fill said voids but in an amount which, when added to the naturally contained bitumen, is sufficient, with said naturally contained bitumen, to fill said voids without a substantial excess or substantial deficiency.

1,664,847. ENGINE-STARTING APPARATUS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Eclipse Machine Company, New York, N. Y., a Corporation of New York. Filed Feb. 1, 1917. Serial No. 145,839. 92 Claims. (Cl. 74—7.)



1. A drive for engine starters comprising a control member mounted for longitudinal and rotary movement, and a driving member adapted to cooperate with and drive a member of the engine to be started and mounted in tandem relationship with the control member, such driving member being operatively connected therewith whereby said longitudinal and rotary movements of the control member are imparted to the driving member.

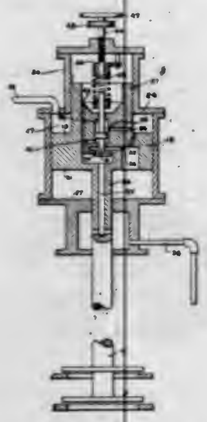
1,664,848. PIPE COUPLING. BARNETT MORSE BROWNELL, St. Louis, Mo., assignor to Diamond Metal Products Co., a Corporation of Missouri. Filed Dec. 14, 1925. Serial No. 75,242. 3 Claims. (Cl. 285—122.)



1. In a pipe coupling the combination of a pair of coupling members having contacting telescoping swivel connection and each having an annular groove in its end,

said grooves being opposite each other, a clamping device holding said members in contacting telescoping connection, a gasket wholly enclosed by said members and seated in said grooves and having a groove extending outwardly from its inner side, an element screwed into the end of one of said members out of contact with said gasket, and a flange integral with said element extending into said groove in said gasket and being out of contact with said gasket leaving said gasket free to expand in said grooves in said members.

1,664,849. GOVERNOR. OZRO N. BRYANT, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 22, 1925. Serial No. 32,089. 8 Claims. (Cl. 269—14.)



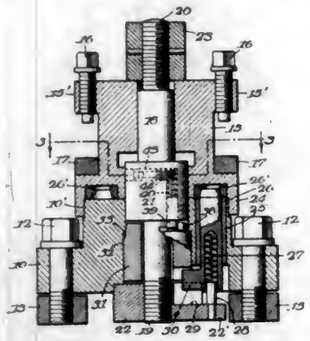
1. In a variable fluid pressure operated governing apparatus, a differential piston for effecting governing movements, means for admitting variable fluid pressure to the side of lesser area of the differential piston, means for by-passing fluid to the side of greater area, a pressure operated relief valve carried by the differential piston for determining the pressure on the side of greater area, and a spring connecting the relief valve with a stationary part for modifying its action in accordance with the position of the differential piston.

1,664,850. PROCESS FOR MAKING ICE CRYSTALS. SAMUEL C. CARNEY, Tulsa, Okla., assignor to Roxana Petroleum Corporation, a Corporation of Virginia. Filed Feb. 4, 1926. Serial No. 86,104. 5 Claims. (Cl. 99—3.)

4. The process of forming ice crystals which consists in passing separated quantities of the ice mass through a volume of carbon dioxide gas under pressure, and molding the separated quantities by compacting them while impregnated with the gas.

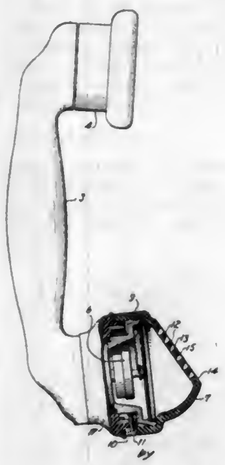
1,664,851. TOOL POST. GEORGE M. CLASS, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Aug. 18, 1926. Serial No. 129,885. 3 Claims. (Cl. 29—49.)

1. In a tool post, the combination of a base, an upwardly spring-pressed locking bolt in said base formed with a lateral projection, a tool holder rotatable on said base having sockets in its under side to interlock with the upper end of said bolt, a rotatable stud extending centrally through said base and tool holder, said stud formed with an enlarged intermediate portion, an operating arm fast on the upper end of said stud, a rotatable sleeve encircling said stud beneath said enlarged portion, said sleeve formed on its lower end with cams cooperating with said projection to retract said bolt and on its upper end with ratchet teeth, a downwardly spring-pressed pawl slidably mounted in said enlarged portion



cooperating with said ratchet teeth to turn said sleeve, and cooperating means carried by said enlarged portion and the tool holder operative to index the latter by a continued movement of said arm in the same direction after said bolt has been retracted.

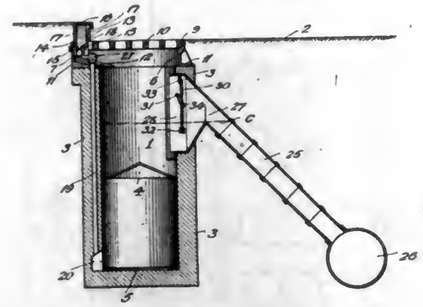
1,664,852. TRANSMITTER MOUTHPIECE. HAROLD F. DODGE, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1922. Serial No. 610,000 9 Claims. (Cl. 179—187.)



1. A transmitter mouthpiece having a grid formed of a plurality of parallel bars forming openings of greater dimensions at one side than at the other.

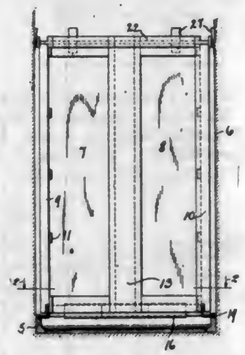
1,664,853. SEWER CATCH BASIN. ELMER W. FIRTH, Jamaica, N. Y., assignor of one-half to Hugh Gordon Miller, New York, N. Y. Filed Mar. 2, 1927. Serial No. 171,938. 3 Claims. (Cl. 182—3.)

1. In a sewer catch basin arranged to receive a removable receptacle comprising a surrounding wall having an outlet located above the top of such receptacle, a pressure relief pipe having an air inlet located above the bottom of the outlet and an air outlet positioned to relieve



the suction at the bottom of the basin created upon removal of said receptacle, and a removable cap on the upper end of said pipe.

1,664,854. REMOVABLE LINING FOR CLOSETS AND THE LIKE. BERTHOLD FRIEND, Brooklyn, N. Y. Filed Nov. 1, 1926. Serial No. 145,637. 6 Claims. (Cl. 20—1.11.)

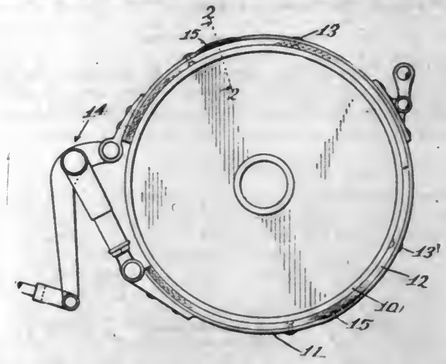


1. A lining for clothes closets and the like comprising a plurality of separable panels which may be constructed of moth or germ proof material such as cedar or its equivalent, said panels being arranged within and adjacent the rear and side walls of a given area, means for adjustably supporting said panels on the base board within said area and a top shelf cooperating with the upper portions of said panels to maintain the same in paralelism to each other and in uniform spaced relation to the walls of said area.

1,664,855. ANTISQUEAK DEVICE FOR VEHICLE BRAKES. JOHN S. GARD, Los Angeles, Calif. Filed Apr. 20, 1926. Serial No. 103,274. 1 Claim. (Cl. 188—259.)

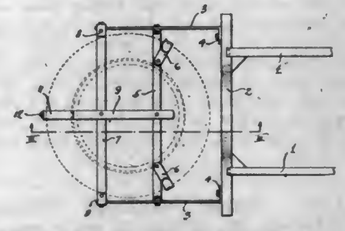
In a brake shoe having a lining secured thereto by rivets, an anti-squeak device comprising a strip of sheet metal which in length is substantially equal to the width of the lining, and which is shorter in width than in length, thereby enabling it to be readily inserted between the shoe and the lining between adjacent rivets, said strip having flat longitudinal edge portions and being corrugated with the corrugations extending lengthwise

thereof between the flat edge portions and lying entirely on one side of the plane of the flat edge portions, said device being maintained in position between said brake



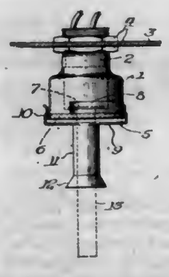
lining and shoe, solely by its frictional contact with said elements and serving to force portions of the lining into binding engagement with a brake drum.

1,664,856. UNDERSLUNG TIRE CARRIER. WALTER R. GREEN, Chicago, Ill.; Albert H. Green, executor of said Walter R. Green, deceased, assignor to International Stamping Company, Chicago, Ill., a Corporation of Illinois. Filed May 8, 1926. Serial No. 107,589. 4 Claims. (Cl. 224—29.)



1. In an underslung tire carrier, a plurality of longitudinally extending brackets adapted for attachment to the chassis, a plurality of U-shaped members attached to said brackets, one of said U-shaped members being also adapted for attachment to the body of a vehicle, a longitudinal member secured to said U-shaped members and a tire-retaining shoe removably secured on said longitudinal member.

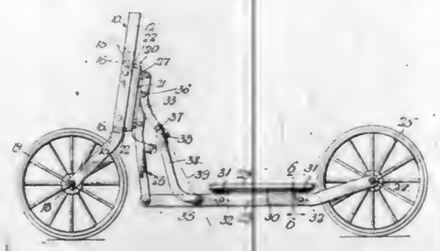
1,664,857. CIGARETTE LIGHTER. MERL J. HARKLESS, Homewood, Ill. Filed Sept. 13, 1926. Serial No. 134,959. 5 Claims. (Cl. 219—32.)



1. A lighter of the character described comprising a mount, an ignition element operatively disposed thereon, and a cigarette guide or holder hinged to said mount

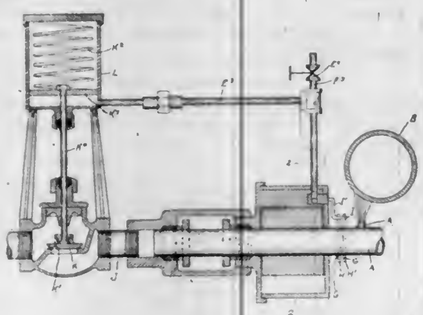
and adapted when in operative position to cooperate with said element to facilitate lighting of a cigarette thereby and when in inoperative position to permit access to said element for lighting a cigar.

1,664,858. SCOOTER. FREDERICK H. HEADLEY, Northfield, near Birmingham, England. Filed Jan. 19, 1924. Serial No. 687,182. 2 Claims. (Cl. 280—87.5.)



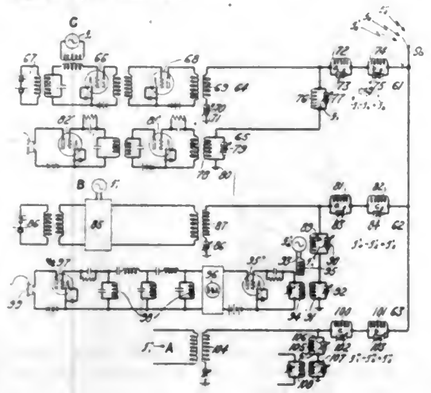
1. In a vehicle of the kind described, the combination of a normally substantially upright steering post, a horizontally disposed platform frame, wheels carried by said post and frame respectively, a steering head pivotally connected to the steering post for a lateral movement, a pair of clips fixed to the head and including spaced ears, a pair of links pivotally connected at their bottom ends to the front end of the frame and rigidly fixed at their top ends to the spaced ears of said clips carried by the steering head, and folding brace bars including a breakable lock rule joint, with the top ends thereof connected to said links between said clips and with the bottom ends thereof connected to the platform frame, said brace bars being capable of being locked in their extended position to hold the post and frame in their operative relation or being folded, one upon the other, so that the post may be swung back and over upon the frame.

1,664,859. BOILER CLEANER. HERMAN C. HEATON, Chicago, Ill., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed July 10, 1920. Serial No. 395,260. 4 Claims. (Cl. 122—392.)



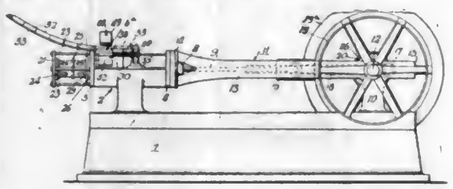
1. The combination with a rotative blower unit, of a motor adapted to drive said unit, a valve controlling the supply of steam or other cleaning substance to said blower unit, a piston connected to said valve, a cylinder receiving said piston, a spring within said cylinder engaging one side of said piston and urging the valve to its seat, and a common means for supplying an energizing fluid to said cylinder at the other side of the piston and to the motor.

1,664,860. SIGNAL SYSTEM. RAYMON A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 16, 1924. Serial No. 713,694. 6 Claims. (Cl. 250—9.)



1. A transmitting channel comprising a transmitting conductor, a circuit associated in energy transfer relation thereto, and a reactive circuit in shunt to said circuit, said reactive circuit comprising a combination of impedance elements which is loop-resonant at a frequency to be transmitted, and said reactive circuit, as measured between its terminals connected to said first mentioned circuit, being also resonant at at least one frequency to be excluded.

1,664,861. MACHINE FOR SQUARING SPOKE STOCK. KRISTIAN M. MATHISEN, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1926. Serial No. 79,529. 9 Claims. (Cl. 144—197.)

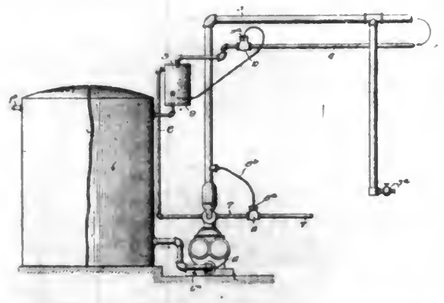


1. A machine of the kind described embodying therein, a support, cutter members mounted on the support and arranged to produce the desired cross sectional shape to the blank, a magazine mounted on the support to receive a stack of billets with the bottommost billet in substantial alignment with said cutter members, a drive shaft, a reciprocating member operatively connected to said drive shaft and adapted to engage the bottommost billet in the stack to project it therefrom and to push it toward said cutter members, means for feeding billets to the magazine, a gate associated with said magazine for controlling the admission of billets thereto from said feeding means and means also actuated from the drive shaft for operating said gate.

1,664,862. MEANS FOR KEEPING UP THE TEMPERATURE IN HOT-WATER-SUPPLY SYSTEMS. SPENCER OTIS, Chicago, Ill., assignor to The Locomotive Terminal Improvement Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 2, 1919. Serial No. 321,274. 10 Claims. (Cl. 122—396.)

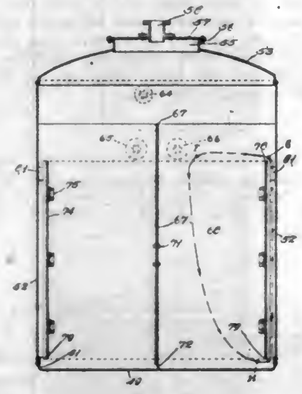
1. In a water supply system, a storage tank adapted to contain water in quantity, at a temperature that

adapts the water to meet a required demand, a combined supply and circulation water line having means for delivering water for consumption and means for returning unconsumed water to the tank, means for causing



water to flow from the tank through said line and back to the tank, and means automatically responding to the temperature of water returning through said line, adapted to act upon the returning water of circulation and rectify its temperature before it reenters the tank.

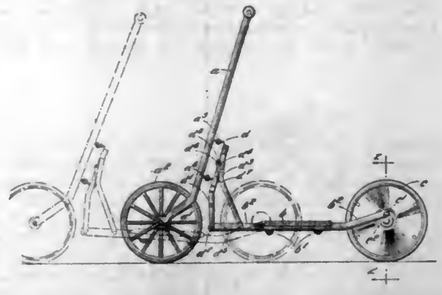
1,664,863. STILL. FRANZ PUENING, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 25, 1924. Serial No. 728,250. 20 Claims. (Cl. 196—125.)



1. A tar still adapted for continuous operation comprising, in combination: a cylindrical plate providing a vertical heating wall and a space; a bottom and cover therefor; material inlet and outlet openings therefor; partitions arranged within said plate to provide compartments, one of said partitions extending diametrically across the space provided by said plate, and the other of said partitions extending from said plate to said diametrically extending partition, the upper ends of said partitions terminating a short distance above the inlet and outlet openings; vertically extending baffles arranged between each two partitions and alongside of but spaced from said plate, the lower edges of said baffles being spaced from said bottom, and the upper edges stopping below the outlet opening level, each of said baffles being hingedly secured to its partition; said partitions having apertures therein near their upper edges and below the outlet opening level and between the baffles and the heating plate to permit passage of the material being treated from one compartment to the next.

16. A still having a cylindrical upwardly extending heating wall, a top and a bottom adjacent thereto, an inlet and an outlet therefor, partitions therein subdividing said still into compartments; baffles arranged concentric to but spaced from said heating wall, said baffles being rigidly secured to said partitions, said baffles being spaced from said bottom and terminating at their upper ends below the outlet for the material to be treated.

1,664,864. SCOOTER. RICHARD RUTHERFORD, London, England, assignor to Frederick Hagger Headley, Birmingham, England. Filed June 18, 1925, Serial No. 37,887, and in Great Britain Sept. 16, 1924. 3 Claims. (Cl. 208—38.)



1. A scooter comprising an underframe of substantially parallel bars, a footboard mounted on said underframe, a steering column, a running wheel mounted concentrically in said steering column, means for connecting said underframe and said steering column, a rear disc wheel, a hub eccentrically mounted in said rear wheel, said hub comprising a tube flanged over at its ends tightly on the opposite faces of the wheel and a spindle eccentrically mounted in the rear end of said underframe and also freely passing through said hub.

1,664,865. BOILER CLEANER. NORMAN L. SNOW, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Original application filed Jan. 15, 1923, Serial No. 612,864. Divided and this application filed July 13, 1925. Serial No. 43,301. 3 Claims. (Cl. 122—392.)



1. A tubular blower element provided with a series of discharge nozzles distributed along its length for discharging a cleaning fluid adjacent parts of a boiler to be cleaned, said blower element diminishing in diameter from one of its ends to the other so that when operatively associated with the boiler the resistance to the flow of furnace gases will be diminished.

1,664,866. COATED FABRIC AND PROCESS OF MAKING SAME. WILLIAM O. STODDARD, Jr., Detroit, Mich., assignor to Duratex Corporation, Newark, N. J., a Corporation of New Jersey. Filed May 3, 1920, Serial No. 378,408. Renewed Jan. 18, 1926. 12 Claims. (Cl. 154—2.)

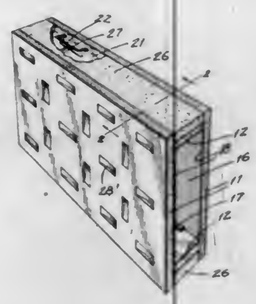
1. A coated fabric which comprises a fabric base, a relatively thin closely woven top fabric, an intermediate

cementing layer of flexible rubber composition uniting said fabric base and said top fabric and a pyroxylin coating covering and supported on said top fabric.



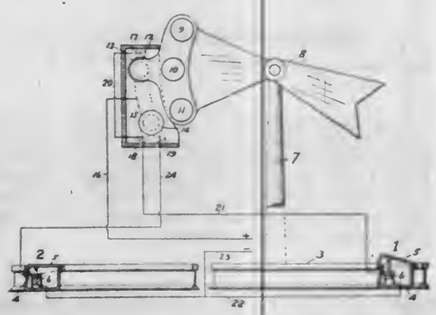
12. The process of making coated fabrics which consists in applying to the surface of a base fabric a layer of rubber cement; superposing on the cement a second fabric; applying a number of coats of pyroxylin solution successively to the second fabric; subjecting each coat to a drying operation; and finally finishing the pyroxylin surface.

1,664,867. HOLLOW TILE. JOSEPH STRAND, Los Angeles, Calif., assignor to Klinch Lath Corporation, Los Angeles, Calif., a Corporation of California. Filed Dec. 6, 1926. Serial No. 152,879. 11 Claims. (Cl. 72—41.)



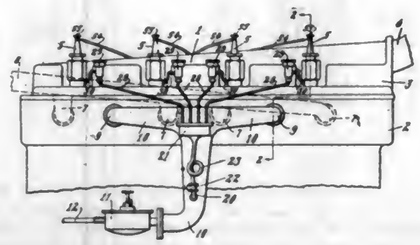
1. A hollow tile comprising: a pair of spaced side members; stop members secured to adjacent faces of said side members near the edges thereof; end members extending between said side members and engaging said stop members, there being channels formed at the ends of said side members; and means in said channels for fastening said side members and said end members together.

1,664,868. AUTOMATIC TRAIN CONTROL. MICHAEL SWORASKI, Philadelphia, Pa. Filed Sept. 27, 1926. Serial No. 137,945. 4 Claims. (Cl. 246—183.)



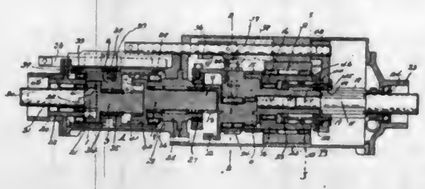
3. Automatic train control apparatus comprising spaced electromagnetic track trips, a centrally positioned lever operative in two directions by the track trips, a pneumatic impulse plunger controlled by said lever, a pneumatic power control adapted to be actuated into shut off power position by one impulse of said plunger, a pneumatic brake control adapted to be normally inactive in respect to said plunger, and pneumatic means arranged to receive air from and controlled by the power means and adapted to connect the plunger and brake control upon a repetition of the impulse of the plunger.

1,664,869. MEANS FOR DISTRIBUTING EXPLOSIVE MIXTURES TO INTERNAL-COMBUSTION ENGINES. EDWARD L. WAYBRANT, New Bedford, Mass. Filed Sept. 15, 1925. Serial No. 56,417. 2 Claims. (Cl. 123—187.5.)



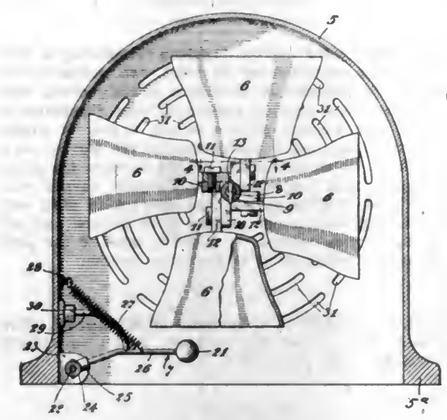
1. The combination with the spark plugs of an internal combustion engine, of apparatus for diverting a portion of the explosive mixture formed in the carburetor thereinto, which includes a tube leading from the intake manifold of the engine, a trap in said tube permitting an accumulation of condensate of the explosive fuel on stoppage of the engine, a reservoir communicating with said manifold by said tube, and a plurality of tubes leading from said reservoir, each of which tubes communicates with the interior of a spark plug and is provided with a check valve permitting explosive mixture to be admitted into the spark plug only on the intake stroke of the corresponding piston.

1,664,870. TRANSMISSION MECHANISM. WALTER W. WELLS, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Dec. 15, 1924. Serial No. 756,093. 7 Claims. (Cl. 74—34.)



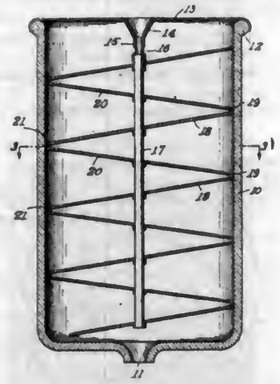
1. In a transmission, the combination with a pair of coaxial gears, a planet carrier, a planet gear member meshing with both of said coaxial gears, a longitudinally slidable sleeve, a driven shaft continuously clutched to said sleeve and means for longitudinally sliding said sleeve to a plurality of longitudinal positions, one of said positions being arranged to clutch the planet carrier to said driven shaft and to simultaneously prevent rotation of the planet gear member, another of said positions clutching one of said coaxial gears to said driven shaft and a third position clutching both the planet carrier and one of said coaxial gears to said driven shaft and means for preventing rotation of the planet carrier when said sleeve is in its intermediate position.

1,664,871. SIGNAL. HANS WERDER, Vevey, Switzerland, assignor to Ewald C. Dieckerhoff, New York, N. Y. Filed Sept. 1, 1926, Serial No. 133,067, and in Switzerland and Germany Mar. 4, 1926. 5 Claims. (Cl. 116—25.)



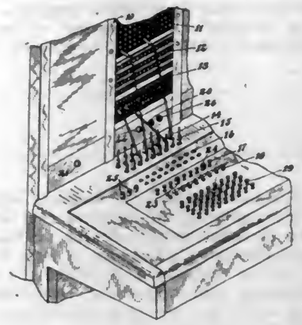
8. In a device of the character described, a plurality of rotatable sound-emitting elements, a clapper normally positioned in the path of said elements and adapted to be successively contacted thereby and a spring constantly returning said clapper to its normal position after being contacted by each element.

1,664,872. LIQUID-COOLING DEVICE. ROBERT WEST, New York, N. Y., assignor of one-half to Hugh McMurray, Newark, N. J. Filed Oct. 5, 1926. Serial No. 139,743. 2 Claims. (Cl. 257—178.)



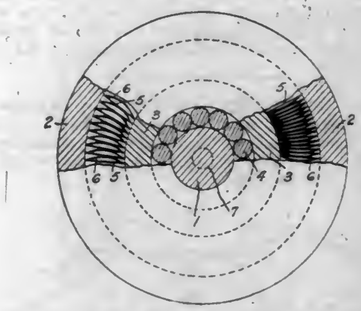
1. A liquid device comprising a container, an open nipple at the bottom of said container, a flat cap having a bead fitting over the top of said container, a funnel formed on said cap, said funnel having a perforated cylindrical portion, a rod carried by said cylindrical portion, and a multiplicity of oppositely inclined plates fixed on said roll over which the liquid to be cooled is passed progressively, said plates and rods being removable from said container together with said cap.

1,664,873. METHOD AND APPARATUS FOR TIMING THE USE OF ELECTRICAL CIRCUITS. JESSE L. BOYNTON, New York, N. Y., assignor of fifty per cent to Charles A. Marshall, New York, N. Y. Filed May 31, 1927. Serial No. 195,394. 20 Claims. (Cl. 179—8.)



1. Means for approximately timing and controlling over-time payments for numerous pre-payment telephone calls, the lines for which are under the control of a central office operator, comprising a signal common to numerous lines for giving an indication to the operator at regular intervals of time equal to an established payment period, in combination with marking means effaceable upon termination of calls for individually marking lines carrying calls at the times of said indications, whereby upon the next signal indication the operator is apprised of such calls as have extended beyond the established payment period and may then demand additional payments before permitting such calls to continue.

1,664,874. UNIDIRECTIONAL DRIVING DEVICE. GEORGE CONSTANTINESCO, Weybridge, England. Filed Mar. 17, 1927, Serial No. 176,163, and in Great Britain Sept. 1, 1926. 3 Claims. (Cl. 192—41.)



1. A unidirectional driving device comprising in combination a driven member consisting of a shaft and a rotor fixed thereon, and an oscillating member concentrically mounted on the driven shaft, a space being left between the rotor and the oscillating member, and pairs of elastic plates or blades in the said space, each pair consisting of a normally flat member and a normally curved member, the width of each normally flat member being greater than the radial width of the space between the rotor and the oscillator, and the chordal width of the curved members being slightly less than this width, such pairs being packed so closely together that the op-

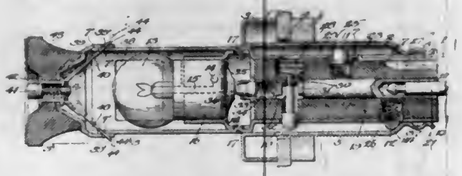
posite edges of the normally flat plates abut against the rotor and the oscillator member respectively, and the said plates are themselves slightly bent when in their operative positions.

1,664,875. LATH. SAMUEL K. COWAN, New York, N. Y., assignor to Cowan Lath Board Company, Nashville, Tenn., a Corporation of Tennessee. Filed July 18, 1924. Serial No. 726,801. 2 Claims. (Cl. 72—116.)



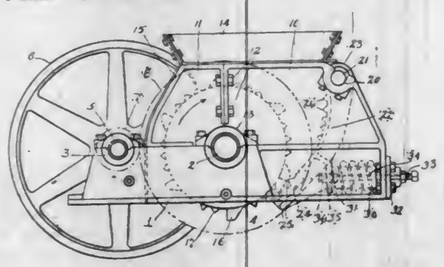
2. An article of the character described made from a board having a plurality of elongated and substantially parallel saw kerfs cut entirely through the board lengthwise thereof simulating a plurality of laths in a board, the front side of each saw kerf having the side edges thereof extending approximately at right-angles to the face of the board, and the back side of each saw kerf being wider than the front side.

1,664,876. ELECTRIC LAMP. HARRY A. DOUGLAS, Bronson, Mich. Original application filed Jan. 27, 1926. Serial No. 84,099. Divided and this application filed Sept. 4, 1926. Serial No. 133,622. 2 Claims. (Cl. 240—8.16.)



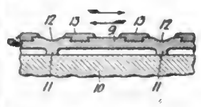
1. The combination with a shell; of a lamp within the shell; a closure for one end of the shell; and a latch carried by said closure and in the form of a bar having a lateral extension movable into registrable openings formed in the closure and shell to latch the closure and shell together, the opening in the shell having a reduced continuation in the form of an open ended slot in which the portion of the bar adjacent the lateral extension of the bar is receivable and is passed to release the latch.

1,664,877. SINGLE-ROLL CRUSHER. MAHLON E. FIRST, Lakewood, Ohio, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 10, 1923. Serial No. 650,632. 8 Claims. (Cl. 83—53.)



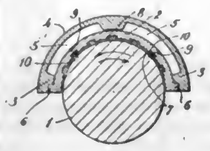
1. In crushing mechanism, the combination of a frame, a toothed roll journaled in said frame, a breaker plate cooperative with said roller, yieldable means maintaining said plate at a spaced distance from said roll, and frangible means for releasing said yieldable means on undue strain.

1,664,878. BEARING. GERHARD FLINTERMANN, Orange, N. J. Filed Aug. 3, 1925. Serial No. 47,772. 7 Claims. (Cl. 308—160.)



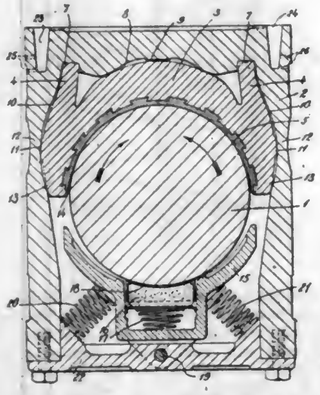
1. A bearing for moving members comprising a bearing element supported at at least two points spaced apart in the direction of movement of the moving member to provide a yielding portion between the points of support, said yielding portion having a pair of projections extending toward the surface of the moving member both of which are located wholly between the points of support, said projections being rigidly carried relative to said yielding portion and adapted to yield with said yielding portion and partake of its flexure, and said projections being located on opposite sides of the point of maximum deflection of said yielding portion.

1,664,879. BEARING. GERHARD FLINTERMANN, West Orange, N. J. Filed May 24, 1926. Serial No. 111,427. 4 Claims. (Cl. 308—160.)



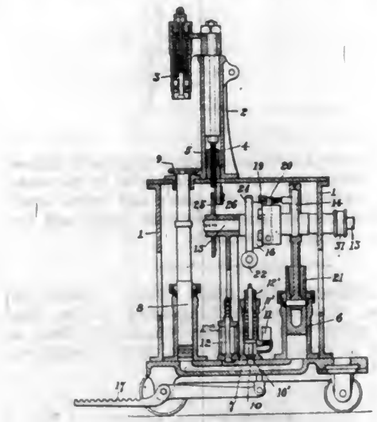
4. A friction bearing comprising two members one of which is movable relative to the other, a bearing element located between said members and having a yielding portion, means for supporting said yielding portion at its forward and rear ends to provide a clearance under the yielding portion, and a bearing projection located midway between the supporting means the surface of which is in relative sliding engagement with the surface of the moving member and said bearing projection being adapted to yield with the yielding portion of the bearing element and to partake of its flexure.

1,664,880. JOURNAL BEARING. GERHARD FLINTERMANN, West Orange, N. J. Filed Dec. 24, 1926. Serial No. 156,824. 6 Claims. (Cl. 308—43.)



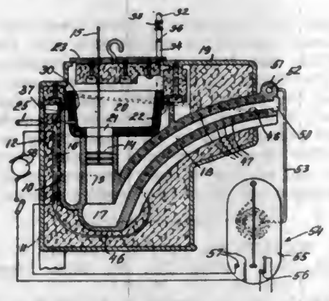
1. A journal bearing comprising a journal, a housing, a bearing member interposed between the journal and the housing and comprising a rigid main portion having a bearing surface fitting a portion of the surface of the journal and a yielding supporting leg near each end of the rigid main portion adapted to permit slight displacement of said rigid main portion, the sides of the bearing member being adapted to abut against the adjacent walls of the housing, said walls of the housing being flexible to yieldingly oppose movement of the bearing member.

1,664,881. CROWN-CORKING MACHINE. JOHN WALTER FLOWER, Wimborne, England. Filed Aug. 8, 1924, Serial No. 730,988, and in Great Britain Feb. 19, 1924. 8 Claims. (Cl. 226—84.)



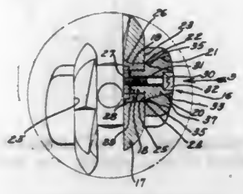
1. A machine for fixing crown corks on bottles of different heights without adjustment of the machine, including a body, a crowning head carried by the body, a ram operative through the body in line with the crowning head, the normal distance between the ram and head being for bottles of maximum length, a pump selectively operative in the body and operative in a single stroke to elevate the ram and bottle carried thereby to the crowning head and then subject the ram to a sufficient pressure to complete the crowning operation, and means whereby the pressure of the pump for the crowning operation may be limited to a predetermined maximum irrespective of the length of the bottle positioning stroke of the ram.

1,664,882. METAL-CASTING MACHINE. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Original application filed Sept. 6, 1921, Serial No. 498,820. Divided and this application filed Feb. 15, 1926. Serial No. 88,198. 26 Claims. (Cl. 219—44.)



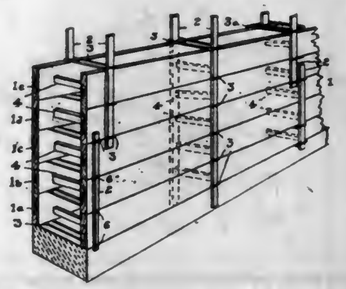
1. An apparatus comprising a metal heating pot, a receptacle for preparing metal for said pot, a throat for discharging metal from the pot, a vapor passage for heating the throat and the pot, a heat exchange member for the receptacle connected with said vapor passage, through which vapor is led into and out of the apparatus.

1,664,883. METHOD OF WELDING BEARING PINS TO LEGS OF DRILL BITS. HALL H. HOLDAWAY, Long Beach, Calif. Filed June 22, 1926. Serial No. 117,670. 6 Claims. (Cl. 76—108.)



1. A method of securing inwardly projecting bearing pins to the relatively inaccessible inner surfaces of legs integral with shanks of drilling bits which comprises: providing said legs respectively with outwardly expanding openings extending therethrough, each opening being narrowest in a region in proximity to an inner surface of a leg; providing each pin with a body which tapers uniformly from an intermediate region which has a maximum diameter adapting it to interfit within the mentioned narrowest portion of an opening through a leg; and securing said pins in said legs by depositing molten metal in resultant annular spaces between said pins and said legs.

1,664,884. PROCESS FOR ERECTING FORMS AND APPARATUS FOR CASTING CONCRETE WALLS. OTIS A. HOLLIS, Knoxville Borough, Pa. Filed June 18, 1926. Serial No. 116,814. 4 Claims. (Cl. 25—131.)

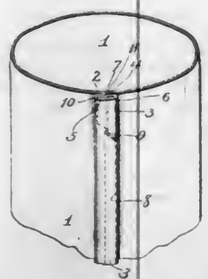


1. For use for the purpose described a wire tie member having its ends pre-formed into loops to receive the stays, the portions of the loops bearing on the stays being provided with broadened bearing surfaces to prevent excess biting into the stays.

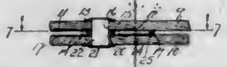
1,664,885. STOVEPIPE. WALTER E. HUENEFELD, Cincinnati, Ohio. Filed Mar. 12, 1927. Serial No. 174,770. 2 Claims. (Cl. 126—309.)

1. A pipe section having at one edge a flange extending outwardly, then parallel to the sheet and then inwardly forming a double fold with a hook shaped edge extending from end to end of the section, an outwardly

projecting hook flange extending approximately from end to end of the opposite edge of the pipe section and engageable with said hook shaped edge, and a tongue projecting from one end portion of the edge having said hook flange and adapted to abut against the double fold portion.

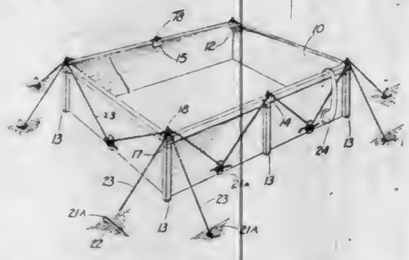


1,664,886. JOINTED RULE. CLAYTON W. HUMPHREY, Unionville, Conn. Filed June 12, 1925. Serial No. 36,743. 4 Claims. (Cl. 33—120.)



1. A blade, a plate secured thereto, a hub projecting from said plate, another blade, a plate secured thereto and having a recess to receive said hub, a pawl attached to said first named plate, a ratchet attached to the last named plate and having teeth to be engaged by said pawl, and means for pivotally connecting said plates.

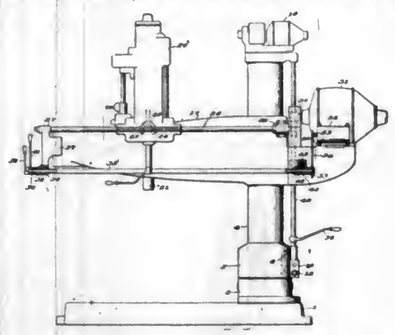
1,664,887. PORTABLE OUTDOOR SWIMMING POOL. PHILIP KIRKHAM, Riverside, Conn., and GUSTAVE A. SCHEEL, Jackson Heights, N. Y., assignors to F. A. O. Schwarz, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1927. Serial No. 215,856. 5 Claims. (Cl. 4—177.)



1. A portable outdoor swimming pool, comprising posts adapted to be driven into the ground, stretcher bars connecting the upper ends of the posts, a foldable waterproof container and means for securing the upper edges of the container detachably to the stretcher bars.

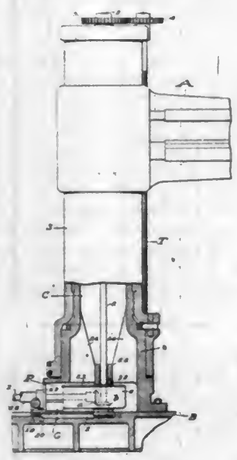
1,664,888. NESTED CONTROL FOR BOTH CLAMP AND SPEEDS. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 31, 1925. Serial No. 19,666. 9 Claims. (Cl. 77—28.)

1. In a radial drill, the combination comprising a column; a radial arm mounted on said column and adapted to have vertical movement on and rotative movement about said column; clamping mechanism for preventing rotative movement of the arm; a drill head slidably mounted on said arm and carrying a drill spindle; a motor mounted on the inner end of said arm for operating said drill spindle; a hollow shaft extending along



said arm; a control shaft extending through said hollow shaft; control levers adapted to be connected to the outer ends of said shafts for rotating them; and means operated by said shafts for controlling said motor and for operating said clamping mechanism.

1,664,889. DETACHABLE GEAR UNIT. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 2, 1927. Serial No. 165,816. 8 Claims. (Cl. 77—28.)

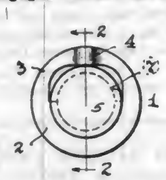


1. A radial drill combining a frame comprising a base and an upright column; a transmission unit removably secured within said frame adjacent the juncture of the base and the column, said unit having an open pan-like portion and two mating angle-drive gears located within said portion; a driving shaft operatively connected with one of said gears; a driven shaft operatively connected with the other of said gears; and a closure provided by said frame and adapted to close said open portion when the transmission unit is in its operative position.

1,664,890. RETAINING DEVICE. ROBERT F. KRELCI, Cleveland, Ohio. Filed Dec. 31, 1926. Serial No. 158,231. 2 Claims. (Cl. 85—7.)

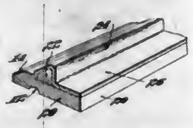
1. An article of the character described having in combination, a pin provided with a circumferential groove closely adjacent one end, a disc of thin bendable sheet

metal having an aperture of less than the cross sectional area of the pin, said disc having portions angularly related to each other, one of said portions providing a flange of semicircular extent adjacent said aperture, and adapted to be engaged within the groove on said pin,



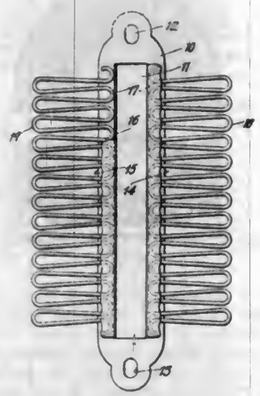
and the opposite portion of said disc being free of said flange and provided with a laterally off-set member which engages the exterior surface of the end of the pin when the adjacent portion of the disc is bent into the plane of the groove.

1,664,891. BEADED WELTING and METHOD OF MAKING THE SAME. HARRY LYON, Holbrook, Mass., assignor to Perley E. Barbour, Quincy, Mass., doing business as Barbour Welting Company, Brockton, Mass. Filed Mar. 12, 1927. Serial No. 174,785. 2 Claims. (Cl. 36—78.)



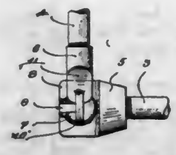
1. Beaded welting for boots and shoes cut to provide a stitch-receiving groove in its lower face as for Goodyear welting, and having a flap at its upper face formed by an incision from the outer edge of the welt strip inward of such a width as to leave the inner edge of the flap integral with the welt body along a longitudinal line that is outward of the inseam stitch line, and a solid core strip beneath and covered by said flap to form a longitudinal, upstanding bead, whereby full-strength integral stock from said bead to the inner edge of the welt strip is preserved for receiving the inseam stitches.

1,664,892. NECKTIE HOLDER. ARTHUR MEYER and WALTER KRETZSCHMAR, New York, N. Y.; said Kretzschmar assignor to said Meyer. Filed Oct. 18, 1926. Serial No. 142,354. 1 Claim. (Cl. 211—119.)



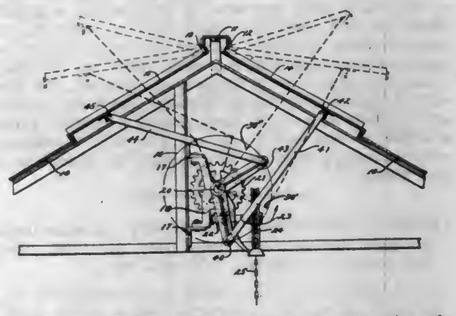
In a necktie-rack, a longitudinally slotted middle support perforated near its ends, the inner marginal edges forming the slot bent outwardly upon the material of the support, spaced therefrom, one continuous wire bent into a plurality of loops having rounded outer and inner apexes on each side of said support, the inner apexes held in the space formed by bending the material of the support upon itself, and ridges formed by pressing the material of the bent part down between the interstices separating the inner ends of the loops.

1,664,893. JOINT. BERNARD MEYERINO, Rochester, N. Y. Filed Feb. 20, 1926. Serial No. 89,792. 2 Claims. (Cl. 287—90.)



1. A joint comprising two members, one of which has a substantially circular projection and flattened portions adjacent one end of the projection and at right angles to the plane of the projection, and a socket member having a substantially spherical socket and a transverse slot communicating with said socket at one end of the socket member, the walls of said slot having notches which lead to the spherical socket, the circular portion of the first mentioned member lying in the spherical socket and the flattened portions lying in the slot.

1,664,894. VENTILATING-SKYLIGHT-OPERATING DEVICE. ANDERS H. NESHEIM, Milwaukee, Wis., assignor to Federal Steel Sash Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Jan. 7, 1924. Serial No. 684,886. 7 Claims. (Cl. 268—24.)

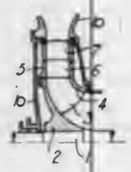


1. The combination with a pair of closures of a closure operating mechanism comprising a shaft; a positive connection between said shaft and one of said closures for opening and closing the same; a connection providing lost motion between said shaft and the other of said closures whereby it may be opened and closed independently of said first named closure, and means for limiting the movement of one of said connections in one direction.

1,664,895. BLADE WHEEL. ANTENOR NYDQVIST, Trollhattan, Sweden. Filed Jan. 13, 1927, Serial No. 160,940, and in Sweden, Jan. 19, 1926. 2 Claims. (Cl. 253—117.)

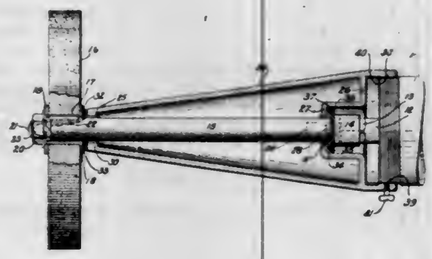
1. A blade wheel, comprising a hub member, blade sections rigidly secured to said hub member, and other blade sections loosely mounted on individual pivots so

as to permit said pivoted blade sections to adjust themselves automatically to form continuous blade surfaces together with said rigid blade sections and at increased



velocity of the wheel to be automatically brought out of operative position relatively to the direction of flow of the driving medium.

1,664,896. GRINDSTONE ATTACHMENT FOR SAUSAGE MILLS. GEORGE E. PEADUE, Santa Monica, Calif. Filed Sept. 16, 1925. Serial No. 56,786. 1 Claim. (Cl. 51—241.)



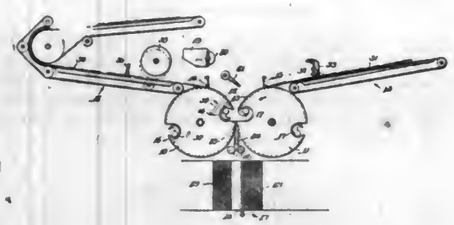
In a grinding attachment for a sausage machine comprising a horizontal shaft projecting from its outer end; an extension shaft rotatable by said shaft; a grinding wheel on said extension shaft; and a relatively long conical bearing extension adapted to doubly support said extension shaft and provided with means for its support from said outlet end of the sausage machine, the larger end of said bearing extension being internally provided with threads adapted to cooperate with external threads provided on said outlet end and also with a transverse web carrying a boss for the support of a bearing for said shaft.

1,664,897. PASS BOOK FOR BANKS. ALFRED GEORGE PILLSBOW, Chicago, Ill. Filed May 31, 1927. Serial No. 195,109. 2 Claims. (Cl. 281—38.)



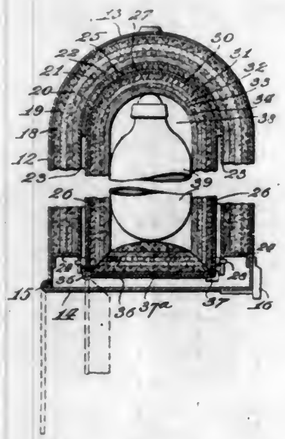
1. A pass-book for banks comprising a cover and a series of sheets with conterminous edges fixedly secured in the cover, one of the sheets being provided on one of its faces with appropriately designated space for the insertion of a name along and across one of its side margins, the leaves following the name-leaf being each provided with a line of perporations substantially parallel to and adjacent its side edge, extending substantially from the top to the bottom edges and rendering the portion thereof which laps said name-space removable, so that the name will be exposed when the strip is removed, the successive sheets having thereon columnar indications for the consecutive entries of an account.

1,664,898. TIPPING MACHINE. ERNST R. RICHARDS, Chicago, Ill., assignor to American Assembling Machine Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 7, 1926. Serial No. 114,111. 5 Claims. (Cl. 270—58.)



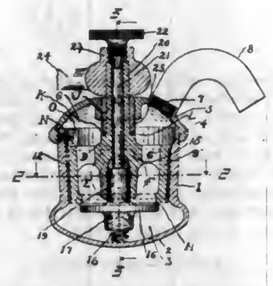
1. A tipping machine having, in combination, two continuously rotating synchronously operated carriers, stops adjacent said carriers located in corresponding positions adapted to hold sheet-like pieces of material in corresponding positions, grippers mounted on said carriers adapted to grip said pieces of material and cam actuated means for simultaneously removing said stops to enable said grippers to clamp a pair of articles to said carriers in registering positions.

1,664,899. EXPLOSIVE PACKAGE AND CARRIER. FREDERICK RIES, Compton, Calif. Filed Jan. 17, 1927. Serial No. 161,547. 5 Claims. (Cl. 220—9.)



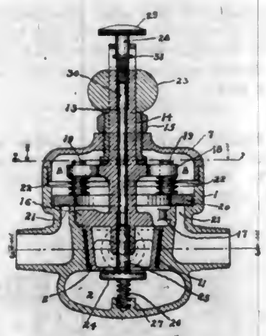
1. In an explosive package and carrier, the combination with a housing comprising inner and outer walls of metal, a plurality of layers of cushioning material arranged between said walls and a door for normally closing the bottom of said housing, of an explosive container package removably positioned within said housing and comprising an outer wall of metal, a plurality of layers of cushioning material arranged within said wall, a metal door normally closing the lower end of the explosive container package, and a plurality of layers of cushioning material arranged upon the inner surface of said door.

1,664,900. MIXING VALVE. BENJAMIN ROSENBAUM, Bronx, N. Y. Filed Mar. 16, 1922. Serial No. 544,257. 33 Claims. (Cl. 277—25.)



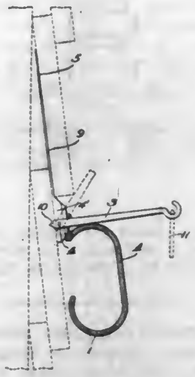
1. In a device of the class described the combination with a valve casing having inlets, of a mixing chamber, a tubular valve member having lateral depressions in its outer face for connecting the inlets with said mixing chamber and passages within the valve member for discharging the water from the mixing chamber.

1,664,901. DUPLEX VALVE AND MIXER. BENJAMIN ROSENBAUM, New York, N. Y. Filed Nov. 14, 1922. Serial No. 600,863. 13 Claims. (Cl. 277—25.)



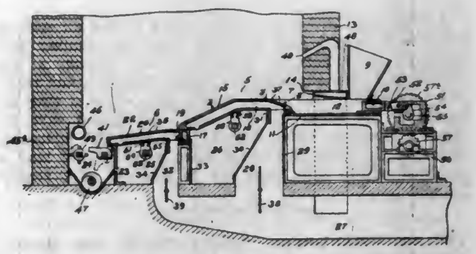
1. In a device of the class described, a valve casing having a plurality of inlets, a mixing chamber, a discharge chamber, and a plurality of outlets; and a rotatable valve member in said casing having axially extending passages to accommodate flowage from said inlets into said mixing chamber and from said mixing chamber into said discharge chamber, said valve member being rotatable to control the flow from said inlets through said outlets.

1,664,902. COMBINED PUTTY KNIFE AND PAINT HOOK. CLARK SEELEY, Otisville, Mich. Filed May 13, 1924. Serial No. 713,066. 3 Claims. (Cl. 7—1.)



1. A device of the character described including a handle, a putty-knife secured thereto, and having a slot therein extending substantially from the point of connection with the handle toward the end thereof, and a hook pivoted in said slot and being shorter than the length of said slot for swinging movement therethrough.

1,664,903. AUTOMATIC STOKER. JOHN S. SKELLY, Monongahela, Pa., assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Aug. 24, 1923. Serial No. 659,030. 6 Claims. (Cl. 110—44.)

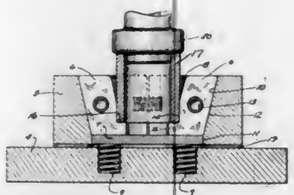


4. In combination in a stoker, a retort extending across the front of the stoker, a series of alternately arranged moving and stationary grate bars located in parallel relation and extending from the retort toward the rear of the stoker, each of said grate bars having three substantially flat fuel supporting surfaces, located at an angle one to the other whereby the direction of the travel of the fuel varies as the fuel moves longitudinally of said bars, means for delivering fuel transversely through said retort and on to said bars and means for reciprocating the movable bars of the series.

1,664,904. APPARATUS FOR STRAIGHTENING TUBULAR CASTINGS. EDWARD J. STANEK, Milwaukee, Wis. Filed Jan. 4, 1926. Serial No. 79,276. 6 Claims. (Cl. 153—34.)

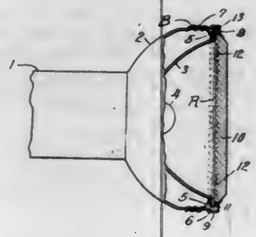
2. The combination with a casing and straightening dies disposed therein for engagement with a tubular

article, of cooperative surfaces on the dies and casing to cause the dies to contract about the tubular article



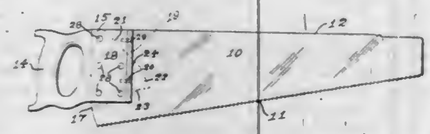
to be straightened, means for moving the entire article during straightening and means for moving the dies by pressure transmitted from the article being straightened.

1,664,905. BATTERY HAND LAMP. HENRY W. STAPLES, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 30, 1927. Serial No. 187,771. 5 Claims. (Cl. 240—10.5.)



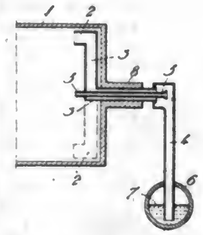
1. The combination of a lamp casing having an opening therein, a flanged lens retaining band surrounding said opening and removably secured to said casing, a lens within said band engaging the flange thereof, a flat resilient ring within said band, spaced lugs on said ring for engaging the edges of said lens and spaced ears extending from the outer edge of said ring for releasably engaging the interior of said band, whereby said lens is retained within said band and is centered with respect to said band.

1,664,906. HANDSAW. STEPHEN SULIK, New Britain, Conn. Filed Aug. 24, 1927. Serial No. 215,120. 6 Claims. (Cl. 7—13.)



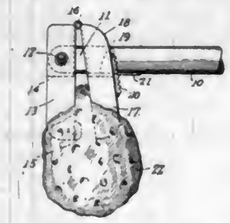
1. In a handsaw, a blade having a toothed edge and a straight edge, a handle having a slotted body portion for receiving the rear end of said blade, one face of said body portion having its edge perpendicular to said straight edge to form a square, the other face of said body portion having its edge inclined to said straight edge to form a miter, the edge of said other face beyond said miter extending toward the tip of the blade to form a stop for preventing said miter edge from being injured by contact with the work.

1,664,907. CONDENSATION EXHAUST FOR DRYING CYLINDERS AND SUCH LIKE. PER OTTO THEODOR SYLWAN, Forshaga, Sweden. Filed Dec. 11, 1926, Serial No. 154,245, and in Sweden Dec. 19, 1925. 1 Claim. (Cl. 34—4.)



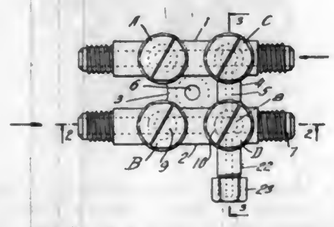
The combination with a steam drying cylinder of a condensation exhaust device comprising a scoop rotatable within said cylinder, said scoop having a conduit extending axially of said cylinder, a condensate drain pipe located outside of said cylinder and communicating with said conduit, and a vapour pressure relief tube extending axially through said conduit, said tube communicating with said drain pipe and with the interior of said cylinder above the level of the liquid therein.

1,664,908. SURFACE-CLEANING IMPLEMENT. GARRET TERPENNING, Jersey City, N. J. Filed Mar. 5, 1927. Serial No. 172,961. 5 Claims. (Cl. 15—150.)



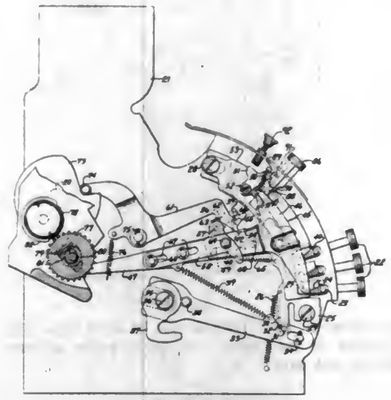
1. An implement of the class described comprising a handle, a jaw pivoted at the end of said handle, a second jaw hinged to the first jaw, a rack fixed on said second jaw, and a detent carried by said handle to engage the teeth of said rack.

1,664,909. VALVE MANIFOLD. ALFRED M. THOMSON, Newark, N. J., assignor to Joseph Mercadante, New York, N. Y. Filed Oct. 21, 1926. Serial No. 148,289. 8 Claims. (Cl. 277—46.)



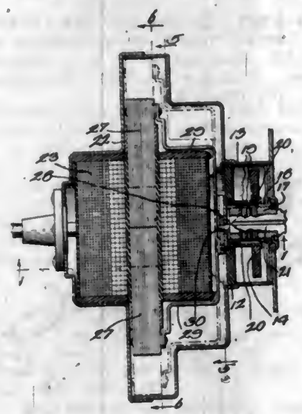
8. In a valve manifold, a pair of separate parallel passages connected by a cross passage, valves in each of said passages for controlling fluid flow therethrough, valves for controlling the communication between each of said parallel passages and said cross passage and a feed pipe communicating with said cross passage.

1,664,910. CASH REGISTER. HENRY TÖNSMANN, Sao Paulo, Brazil, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Mar. 29, 1924. Serial No. 702,856. 3 Claims. (Cl. 235—3.)



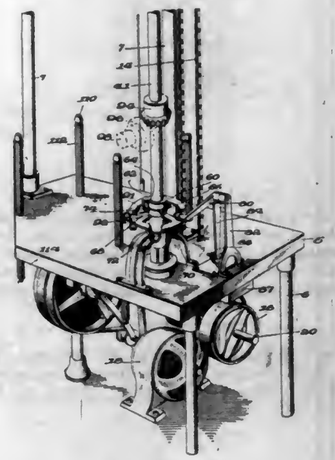
1. In a machine of the class described, the combination of record material feeding rollers normally ineffective with one roller having a movable bearing adapted to be moved to make said rollers effective, a pitman connected to and adapted to move said bearing, a driving member, a lever operated by said driving member, a reciprocating member operated by said lever member, a latch member carried by said reciprocating member and retained in its home position by said lever, a depressible key returned to home position during the operation of the machine, and a movable member operated by said key and adapted to permit said latch to engage said pitman and move said feeding roller into effective feeding position.

1,664,911. AUTOMOTIVE VEHICLE IGNITION SYSTEM. FELIX J. WATTS, Bronson, Mich., assignor to Harry A. Douglas, Bronson, Mich. Filed Mar. 7, 1927. Serial No. 173,582. 11 Claims. (Cl. 175—361.)



1. The combination with primary and secondary windings having a magnetizable core establishing inductive relation therebetween; of circuits respectively containing said windings, the circuit that contains the secondary winding also containing a gas igniting element, said core being formed with relatively movable sections to enable the introduction of sufficient reluctance in the magnetic circuit containing said core to prevent said gas igniting element from functioning; and means for opening and closing one of said circuits and separating said core sections when this circuit is open and relatively approaching said core sections when this circuit is closed.

1,664,912. PACKAGE ELEVATOR. JAMES L. BALDWIN, Chicago, Ill. Filed Nov. 8, 1926. Serial No. 147,072. 19 Claims. (Cl. 187—28.)

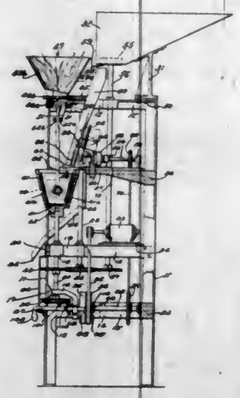


17. An elevator comprising a vertically-slidable carriage driven by a motor, said motor being provided with a switch, a control rod having a plurality of stops spaced along the rod as the stations intended for the carriage and also distributed circumferentially to correspond, dogs carried by the carriage and engageable by said stops, a cam carried by the carriage, to engage a given stop and move the same into the path of the dogs, such movement causing the rod to turn, an oscillatory lever for actuating the switch, a uni-directional impeller carried by the rod, a collar loose on the rod and having a series of abutments corresponding to the number of stops on the rod and selectively engageable by the impeller when the rod is turned to correspond, a radial arm integral with the collar and adapted to depress the switch lever on the occasion of an impulse, and a member rigid on the rod and having a circumferential series of cams corresponding in number to the said abutments, that cam which is nearest the switch lever serving to raise the latter when the movement of the rod is induced by the first mentioned cams in a direction reverse to that induced by the impeller.

1,664,913. PLANT-POTTING MACHINE. CLAUDE G. BEWLEY, Spokane, Wash., assignor of one-half to Roy F. Wilcox & Co., Montebello, Calif., a Copartnership consisting of Roy F. Wilcox, Francis K. Wilcox, and Oscar Keeline, and one-half to Spokane Concrete Flower Pot Machine Company, Inc., Spokane, Wash., a Corporation of Washington. Filed Aug. 17, 1925. Serial No. 50,632. 15 Claims. (Cl. 226—1.)

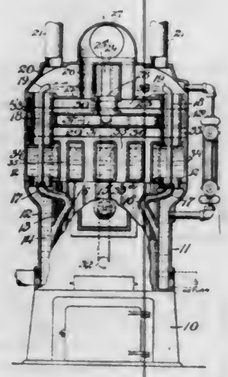
1. A plant potting organization comprising: means for supporting a pot; means for supporting a plant to be potted; and means for the gradual filling of soil into said

pot; said pot supporting means and said plant holding means being rotated, at substantially the same rate, by intermediate gearing, having a common drive.



5. A plant potting organization comprising: means for supporting a pot beneath soil feeding means; and means for tamping the said soil, said tamping means comprising both a resilient finger and an expanded foot, one of said tamping means being provided with a guide.

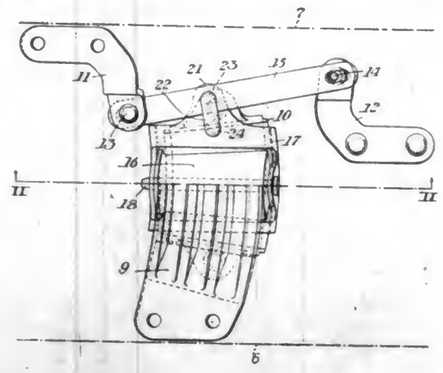
1,664,914. BOILER. CHARLES B. BOYNTON, East Orange, N. J., assignor to Perco Heater Corporation, Newark, N. J. Filed Feb. 11, 1925. Serial No. 8,366. 6 Claims. (Cl. 122—40.)



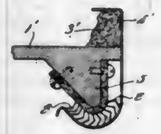
1. A boiler comprising a lower water chamber inclosing a fire box, an upper section, a percolating tube forming a return bend in the fire box and having its upper portion disposed so as to deposit water into the upper section, and a tube to convey steam from the lower part of the boiler to the upper section, said last mentioned tube inclosing the percolating tube above the water line.

1,664,915. SIDE BEARING. ARNOLD CHRISTIANSON and CHRISTIAN CHRISTIANSON, Hammond, Ind. Filed Dec. 31, 1926. Serial No. 158,207. 2 Claims. (Cl. 308—226.)

1. The combination with a railway car having a body bolster and a truck bolster, of a bracket extending downwardly from the body bolster, a bracket extending upwardly from the truck bolster, a lever pivotally connected at its ends to said brackets, a roller bearing cage disposed between said brackets, and a pivotal connection between the forward end of said cage and the mid portion of said lever, the lever being disposed exteriorly of the cage.

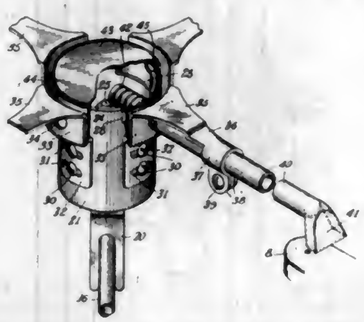


1,664,916. COVER CLAMP FOR IRONING BOARDS OR BUCKS. WILLIAM COLCLOUGH, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Feb. 27, 1926. Serial No. 91,170. 3 Claims. (Cl. 68—10.)



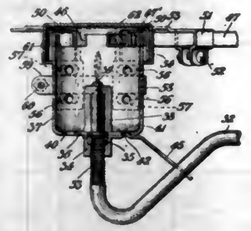
1. The combination with an ironing board for ironing machines, of cover cloth securing means therefor comprising curved downwardly extending carding cloth strip portions arranged below opposed margins of the board.

1,664,917. SAFETY IGNITER FOR GAS STOVES. WILLIAM F. DESTER, Newark, N. J., assignor to U. S. Tool Co., Inc., East Orange, N. J., a Corporation of New Jersey. Filed Nov. 10, 1925. Serial No. 68,072. 2 Claims. (Cl. 158—115.)



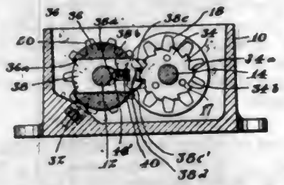
1. The combination with a gas burner, a pilot tip and a gas supply source, of a pipe connecting said supply source with said tip, a control valve in said pipe, a housing completely enclosing said tip, a cap loosely engageable over said housing having an intervening air space, a bracket adjustably engaged on said housing, a tube adjustable in said bracket to extend horizontally through the wall of said housing into the path of flame from said tip, said tube having a series of weakening grooves whereby shortening is facilitated, and means on the outer end of said tube adapted to collect gas from said burner and deliver to said tip.

1,664,918. SAFETY GAS-STOVE IGNITER. WILLIAM F. DESTER, Newark, N. J., assignor to U. S. Tool Co., Inc., East Orange, N. J., a Corporation of New Jersey. Filed Dec. 19, 1925. Serial No. 76,411. 3 Claims. (Cl. 158—115.)



1. In a safety lighter for gas stoves, the combination with a gas supply source, a burner in controlled communication therewith and a pilot, of a housing completely enclosing said pilot, tubular connections between said pilot and one of the openings in said burner, a valve controlled pipe between said gas source and said pilot, and means for adjusting the height of said pilot and housing relative to said burner.

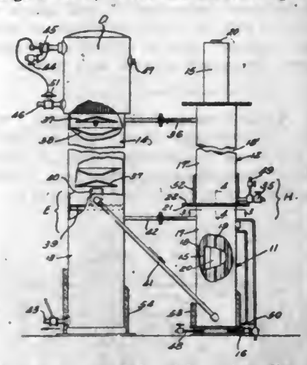
1,664,919. OPERATING DEVICE. EMIL EK, Portland, Me., assignor to Adde and Company, Portland, Me., a Corporation of Maine. Filed Oct. 27, 1925. Serial No. 65,128. 4 Claims. (Cl. 74—54.)



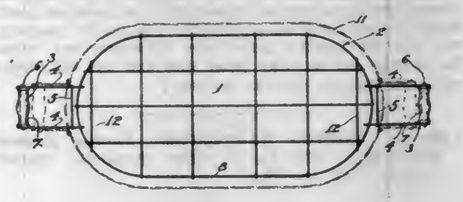
1. The combination with a main shaft and a counter shaft having a ratchet wheel carried thereon, of a pawl mounted on said main shaft and rotatable therewith; said main shaft having a bearing surface transverse to its axis along which said pawl is adapted to slide into engagement with said wheel; said pawl having a central slot through which the shaft passes; and means interposed between said shaft and one end of the slot for urging the pawl toward wheel engaging position.

1,664,920. FIRE STILL AND OIL TREATER. FORREST E. GILMORE, Los Angeles, Calif., assignor to Forrest E. Gilmore Company, Portland, Oreg., a Corporation of Delaware. Filed Feb. 4, 1926. Serial No. 85,852. 7 Claims. (Cl. 196—117.)

1. In a fluid heating and separating organization of the general character described: a heater comprising a substantially vertical central flue constituting an inner wall of a chamber to receive the liquid to be treated; a burner near the bottom of said flue; means for introducing said liquid near the bottom of said chamber; and means for conducting the heated liquid from said chamber, at a higher level, to an associated evaporator, said inner wall being provided with outwardly projecting fins, radially disposed in vertical planes to facilitate heat exchange.

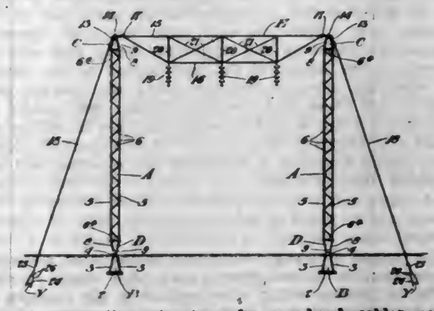


1,664,921. WASH BOILER. PAUL E. GOLDMAN, Pittsburgh, Pa. Filed Jan. 10, 1927. Serial No. 160,064. 2 Claims. (Cl. 68—80.)



1. In combination with a wash-boiler, a clothes-basket comprising an upper-frame and a basket-body made of reticulated wires depending therefrom; a lifting-handle positioned at each end of said clothes-basket and hingedly mounted on said frame; hook-members positioned on said handles and adapted to engage the top-edge of said wash-boiler for suspending said clothes-basket therein, and transversely disposed stops secured on said top-frame for limiting the inward swing of said handles into said clothes-basket.

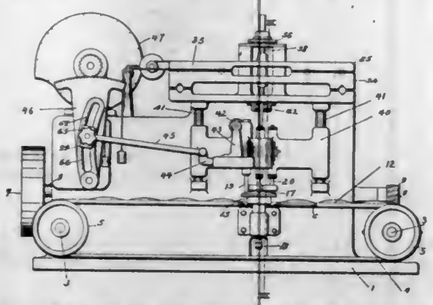
1,664,922. SUPPORT FOR OVERHEAD CABLES. CHAUNCEY MARSH GOODRICH, Windsor, Ontario, Canada. Filed July 31, 1926. Serial No. 126,250. 5 Claims. (Cl. 189—22.)



4. A supporting structure for overhead cables comprising a pair of ground anchors, a mast flexibly connected to each of said ground anchors so as to permit

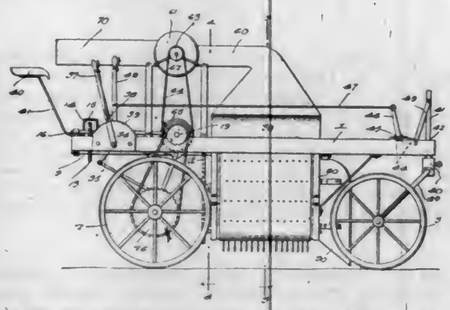
a limited universal movement, a plate having a flexible connection with the top of each of said masts to permit a limited universal movement of said plates relative to said masts, a pair of guys connected to each of said plates and stretched taut in opposite directions, and a flexible truss suspended between said plates.

1,664,923. LENS-TESTING MACHINERY. WILLIAM A. GUNNING, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 4, 1919. Serial No. 342,348. 18 Claims. (Cl. 33—191.)



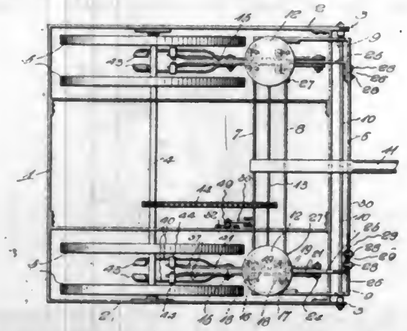
1. A machine for the purpose described including an intermittently advancing lens carrier, a marking point, means for bringing the center of a lens on the lens carrier and the marking point into alignment, and means for moving the marking point into and out of contact with the lens on the lens carrier.

1,664,924. COTTON HARVESTER. PEYTON HELTON, Abbott, Tex. Filed Apr. 27, 1926. Serial No. 104,986. 1 Claim. (Cl. 56—49.)



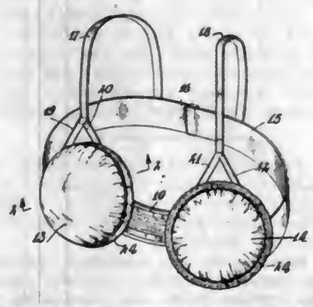
A cotton harvester comprising a frame, a rear swingable bail shaped axle having the intermediate portion of its bail journaled in bearings at the under side of the frame, rear wheels on said axle, manually operable means for adjusting and adjustably fixing said axle to determine the height of the rear portion of the frame, a cross-head movable vertically below the forward portion of the frame and having a vertical stem guided in the frame, a bail shaped forward axle fixed to said cross-head and equipped with ground wheels, manually operable means connected to said stem for adjusting and adjustably fixing said stem with respect to the frame, lower and upper longitudinally disposed rollers carried by the frame and arranged in pairs at opposite sides of a longitudinal space adapted to accommodate plants in a row, belts trained over said rollers and having inner stretches movable upwardly and spaced apart, and means on said belts for picking cotton bolls incident to the traverse of the apparatus, fenders fixed to pendent portions of the frame and flared outwardly immediately in front of the space between the inner stretches of the belts, means on the frame for collecting cotton from said picking means, longitudinal shaft fixed to and extending rearwardly from the uppermost longitudinal rollers and having spur gears on their rear portions, upper longitudinal shafts having their spur gears meshed with the spur gears on the first named longitudinal shaft and also having miter gears, and a transverse shaft driven from the rear wheels and having miter gears meshed with the miter gears on the second named longitudinal shafts.

1,664,925. PLANTER. LONZO R. HUPP, Urbana, Ohio. Filed Jan. 22, 1926. Serial No. 83,052. 3 Claims. (Cl. 111—63.)



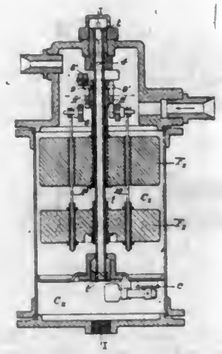
1. In a planter, a main frame, an auxiliary frame overlying the forward portion of the main frame and pivoted at its forward edge to the forward edge of the main frame for tilting motion in a vertical plane, hoppers mounted upon the auxiliary frame at opposite sides of the planter, chutes extending at a downward and rearward angle of inclination from the auxiliary frame and communicating at their upper end with the hoppers and provided at their lower ends with furrow closing means, means for tilting the auxiliary frame and vertically adjusting said chutes and furrow closing means, a shank at each side of the planter having a horizontal arm pivoted to the adjacent chute and a vertical arm adjustably connected with the auxiliary frame, and furrow forming means carried by the horizontal arm of the shank and lying in advance of the adjacent chute and its furrow closing means and adjustable vertically through the pivotal connection of the shank with the chute and adjustable connection of said shank with the auxiliary frame.

1,664,926. BRASSIÈRE BUST SUPPORTER. HARRIET IMERSHEIN and LOUIS E. GINSBURG, New York, N. Y., assignors to Fairy Brassiere Co., Inc., a Corporation of New York. Filed Feb. 16, 1927. Serial No. 168,597. 2 Claims. (Cl. 2—42.)



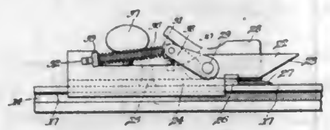
1. In a brassière, segment members positioned in a covering, attached to brassière supporters, said segment members extending partly over one another, extended members, provided with enlarged heads, said extended members attached to one extremity of the said segment members, the extremities of the adjacent said segment members having formed therein elongated apertures adapted to be engaged by the said extended members, said elongated apertures provided with enlarged inner extremities, so as to permit engagement of the said extended members in the said elongated apertures.

1,664,927. PULSOMETER. ALBERT PAUL JAPY, Berne-Seloncourt, France. Filed Apr. 7, 1925, Serial No. 21,418, and in France Apr. 9, 1924. 14 Claims. (Cl. 103—248.)



1. A pulsometer, comprising, in combination, a valve, floats, means operated by the floats for actuating the valve, said means including, a releasing detent and a quick stop escapement for operating said detent.

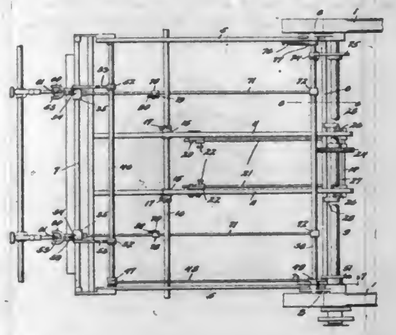
1,664,928. SNAP GUIDE. WILLIAM M. KELLY, Westfield, N. J. Filed Apr. 15, 1927. Serial No. 184,120. 7 Claims. (Cl. 271—59.)



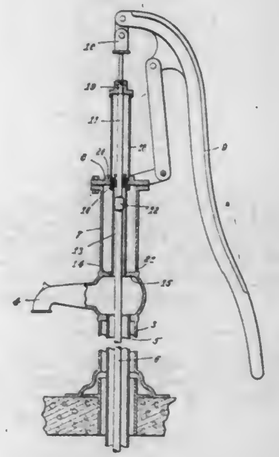
1. A sheet registering mechanism comprising, in combination, a member reciprocating transversely with respect to the path of the sheets having a lower sheet clamping surface, a jaw on the member above said surface pivoted on an axis substantially parallel to said path, means operating in a plane transverse to the path of said member for initiating the closing and opening movements of the jaw at certain points in the path of reciprocation, and spring means for completing the movements and holding the jaw in either closed or open position.

1,664,929. SHEET-FEEDING MECHANISM. WILLIAM M. KELLY, Westfield, N. J. Filed Apr. 15, 1927. Serial No. 184,121. 10 Claims. (Cl. 271—46.)

1. Sheet retarding mechanism for printing presses comprising, in combination, a cross bar mounted over the forward end of the feed board, brackets laterally adjustable on said cross bar, slides mounted in said brackets for vertical adjustment, and slow down fingers longitudinally reciprocable in ways formed in the lower portion of said slide.



1,664,930. SANITARY PUMP. OSCAR W. JOHNSON, Rockford, Ill., assignor to Ward-Love Pump Corporation, Rockford, Ill., a Corporation of Illinois. Filed Apr. 21, 1927. Serial No. 185,531. 4 Claims. (Cl. 103—217.)

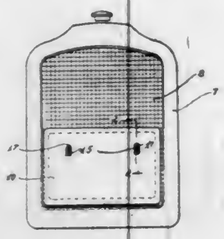


1. In a pump, the combination with a pump casing and a pump rod, of a sanitary housing for the pump rod comprising an inner housing for said rod within the pump casing and an outer housing fixed to the pump rod and passing down through the top of the pump casing and telescoping over the inner housing.

1,664,931. RADIATOR SHIELD. FRANK E. JOHNSTON, Detroit, Mich. Filed Jan. 24, 1927. Serial No. 163,161. 8 Claims. (Cl. 257—132.)

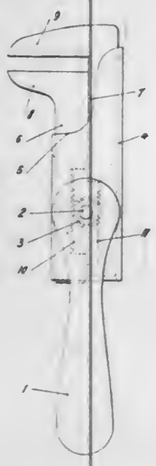
1. A radiator shield of the class described adapted for use with a vehicle radiator provided with horizontally extending openings formed therein, comprising: a main

body portion of comparatively stiff material; a reinforcing strip mounted on one side of said main body portion adjacent the edges theref; a layer of yieldable material mounted on the outer side of said reinforcing strip and on the inner surface of said main body portion, said main body portion and said layer of yieldable material having



registering openings formed therein; a supporting hook for engaging in each of said openings and supporting said shield; an arm projecting outwardly from said supporting hook and adapted for being inserted through said openings, and secured therein for retaining said shield in operative relation to said radiator.

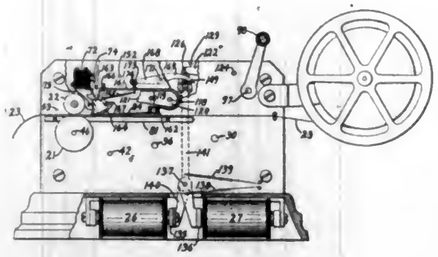
1,664,932. MONKEY WRENCH. FRANÇOIS JURICINEC, Paris, France. Filed Sept. 27, 1926, Serial No. 138,047, and in France Oct. 3, 1925. 2 Claims. (Cl. 81—26.)



1. In a monkey wrench comprising a casing, two jaws sliding in said casing, a common pinion between said jaws, a rack borne by each jaw and meshing with the common pinion, the combination of a forked control lever, the inner ends of which pass on either side of the casing and a spindle to which the common pinion is keyed passing through the casing and fixed to the said inner ends of the control lever.

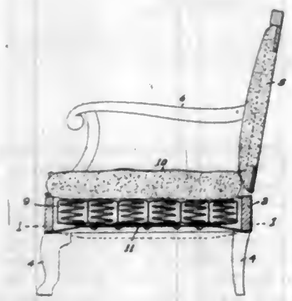
1,664,933. SIGNAL INSTRUMENT. GEORGE ERNEST KING, Newton, Mass., assignor to The Gamewell Company, Newton Upper Falls, Mass., a Corporation of Massachusetts. Filed Mar. 16, 1925. Serial No. 15,910. 23 Claims. (Cl. 178—92.)

1. A signal instrument having tape marking and feeding means together with motor driving mechanism for said marking and feeding means and automatic starting and stopping mechanism for said feeding means,—in which said marking means comprises a plurality of independently operable mechanisms each involving an escape wheel, a pallet operable by and controlling the movement of said wheel, a marker operable by oscillation of said pallet and means for controlling such oscillation; said feeding means comprises a tape feed train; said motor mechanism comprises means for applying energy, from a single source, independently to each of said marking mechanisms and to said feed train; and said starting and stopping mechanism comprises a detent lever movable in one direction to arrest the running of said train, a spring



urging movement of said lever in the opposite direction, a ratchet wheel moving with said lever, eccentrics operable by the running of said train, pawls arranged for alternate reciprocation by said eccentrics and for cooperation with said ratchet wheel to cause rotation thereof such as will move said lever into effective position, means responsive to operation of any one or more of said marking mechanisms for moving said pawls out of the path of said wheel, holding means for at times preventing movement of said pawls into engagement with said wheel, and means operable by the running of said train for terminating the effectiveness of said holding means.

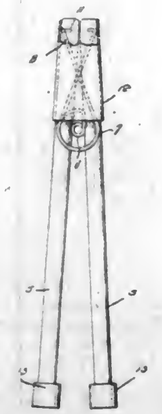
1,664,934. CHAIR OR COUCH. JACOB KRONHEIM, Cleveland, Ohio. Filed May 13, 1927. Serial No. 190,979. 3 Claims. (Cl. 155—179.)



1. A chair or couch having a rectangular base frame, a flexible bottom of narrower width than said frame having its opposite ends fixed directly to the bottom of the front and rear rails of said frame, and springs connecting the opposite sides of said flexible bottom to the side rails of said frame, said springs being arranged to stretch

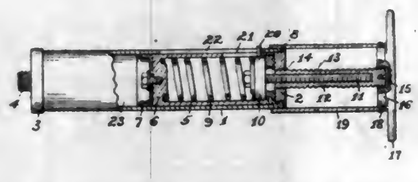
the middle area of said bottom and hold the same normally in a higher plane than the opposite ends of said flexible bottom where fixed to the front and rear rails.

1,664,935. CLOTHES TONGS. WILLIAM Q. LOWE, Akron, Ohio. Filed Mar. 12, 1927. Serial No. 174,852. 1 Claim. (Cl. 68—6.)



In clothes tongs, a pair of elongated legs and a coil wire spring arranged transversely between the legs near one end thereof, the ends of the coil being formed with large convolutions extending across the adjacent sides of the legs, the ends of the wire extending from the convolutions obliquely across the shorter ends of the legs and having their extremities secured to said ends and normally holding said ends together in abutting relation.

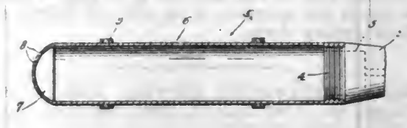
1,664,936. SPRING-ACTUATED LUBRICATOR. KENT E. LYMAN, Cleveland, Ohio. Filed Jan. 11, 1923. Serial No. 612,093. 5 Claims. (Cl. 221—47.3.)



1. In a lubricator, the combination of a tubular body, the tubular body having a rear end, a tubular plunger having a rear end slidably mounted in the tubular body, a coiled spring in the tubular plunger, a head slidably mounted in the tubular plunger near its rear end, and means for forcing the head forwardly to compress the coiled spring, substantially as described.

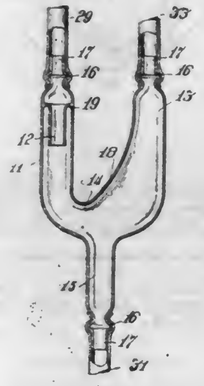
1,664,937. SMOKER'S APPLIANCE. STEPHEN FRANCIS MALONEY, Scranton, Pa., assignor of one-half to Evan R. Widden, Scranton, Pa. Filed Aug. 30, 1926. Serial No. 132,616. 1 Claim. (Cl. 131—51.)

As a new article of manufacture, a cigar or cigarette holder provided at one end with a socket beyond which is a screw threaded nipple, a casing having an imperforated cylindrical body internally screw-threaded at one end and connected to said nipple, said casing being closed at its opposite end and said closed end being provided with air



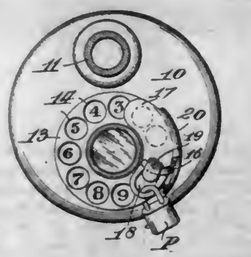
holes, and a pair of rings disposed in spaced relation to each other about the casing and in spaced relation to the ends of the casing.

1,664,938. SURGICAL APPLIANCE. ELLEN MCDONNELL, Chicago, Ill. Filed Oct. 6, 1926. Serial No. 139,864. 7 Claims. (Cl. 128—227.)



1. In an article of the class described, a transparent element having three branches, one of said branches being adapted to conduct liquid from a source of supply, another of said branches being adapted to discharge said liquid, the other adapted to conduct any return flow and a gas space between said branches.

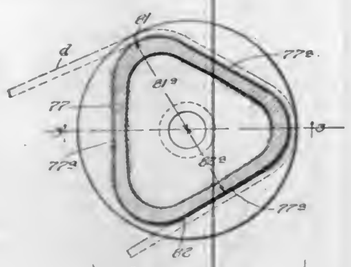
1,664,939. DIAL LOCK FOR AUTOMATIC TELEPHONES. LEWIS F. MORTIMER, Los Angeles, Calif. Filed Dec. 31, 1925. Serial No. 78,532. 7 Claims. (Cl. 179—90.)



1. The combination with an automatic telephone, its rotary dial and finger stop hook, of a plate that is

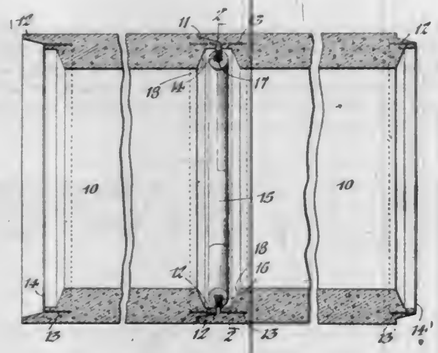
curved lengthwise and is substantially L-shape in cross section so that it will overlie a portion of the top and edge of the rotary dial of the telephone and which plate is provided with an aperture that is adapted to coincide with one of the apertures in the dial and receive a detachable locking device.

1,664,940. EXCAVATING SHOVEL. JOHN W. PAGE, Chicago, Ill. Filed June 14, 1926. Serial No. 115,881. 8 Claims. (Cl. 37—135.)



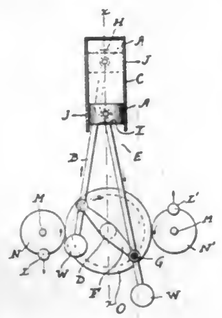
6. A block provided with a sheave having a flattened face for the purpose of increasing the leverage in favor of one end of a rope passing over said sheave.

1,664,941. PIPE JOINT. ALBERT G. PERKINS, Buffalo, N. Y. Filed May 4, 1926. Serial No. 106,690. 3 Claims. (Cl. 72—53.)



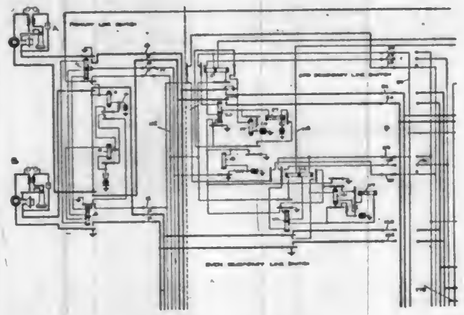
1. In a flexible joint for concrete pipes, the combination of a pair of concrete pipe-sections, each provided at its ends with coupling rings having portions embedded therein, each ring having an annular flange projecting radially inward beyond and clear of the inner wall of the pipe-structure, and clamping means embracing the opposing flanges of the pipe-sections and free from engagement with the pipe-structure to permit said ring-flanges to flex and compensate for misalignment of the pipe-sections.

1,664,942. ENGINE-BALANCING SYSTEM. ARTHUR W. POPE, Jr., Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Oct. 13, 1926. Serial No. 141,252. 4 Claims. (Cl. 74—38.)



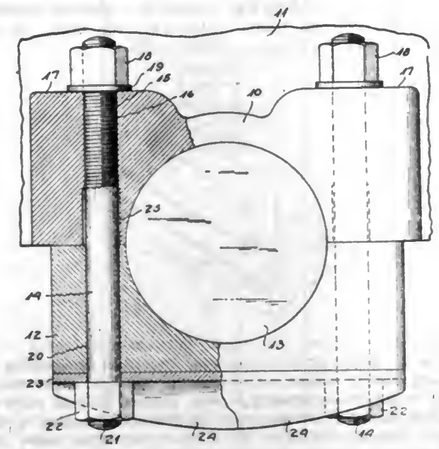
1. In a multi-cylinder engine, the combination with the cylinders, crank shaft, and the piston-connecting rod structures, of eccentric weights revolvable in the same plane and in the same direction on axes of rotation parallel to the crank shaft and with a phase difference of 180°, and means for rotating said weights at a speed to produce a couple for opposing and counteracting the couple set up by the side thrust of the pistons on the cylinder walls due to the angular movement of the connecting rod assemblies about the crank pin axis.

1,664,943. AUTOMATIC TELEPHONE SYSTEM. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed May 8, 1924. Serial No. 711,750. 9 Claims. (Cl. 179—27.)



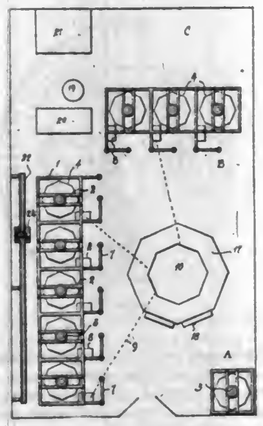
1. In a telephone system, a plurality of telephone lines, means including non-numerical automatic switches and link circuits for interconnecting said telephone lines, impedance devices normally connected to certain of said link circuits while the connection is maintained between said telephone lines, an operator's position, means including only non-numerical automatic switches and link circuits for interconnecting any of said telephone lines with said operator's position, and means responsive to said last mentioned interconnection for disabling certain of the impedance devices of the link circuit included in said last mentioned connection.

1,664,944. BEARING-BOLT STRUCTURE. HERBERT G. RITTER, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Apr. 20, 1927. Serial No. 185,085. 6 Claims. (Cl. 308—74.)



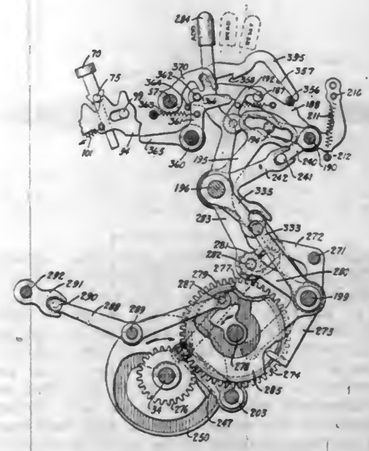
2. In a bearing structure, the combination of the bearing members, through bolts extending through said members and having threaded engagement with one of said members, and nuts engaging the ends of said bolts and abutting against said members.

1,664,945. SELF-SERVICE STORE EQUIPMENT. ALEXANDER C. ROBERT, Desdemona, Tex. Filed Jan. 12, 1926. Serial No. 80,698. 1 Claim. (Cl. 186—1.)



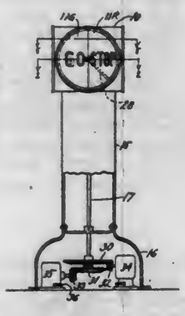
Self service store equipment comprising a plurality of polygonal shaped shelving units, removable shelves therefor, each of said units having a central shaft mounted on ball bearings, divisional walls in the units radiating from said shaft, openings for doors between the walls, a railing with an entrance space adjacent each door and shelving unit, a basket stand for each of said units, and a plurality of conveyors for returning the baskets directly from a cashier's stand respectively to a plurality of said stands.

1,664,946. CASH REGISTER. WILLIAM H. ROBERTSON, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed May 1, 1926. Serial No. 106,016. 40 Claims. (Cl. 235—3.)



1. In a machine of the class described, the combination of a totalizer element, an actuator therefor, a differentially movable member, a device connected to said actuator, means for coupling said device to said member whereby they both operate as a unit during adding operations for positioning said actuator, and means for uncoupling said device from said member during total taking operations whereby said device is moved under control of said totalizer element for determining the position to which said member is to be adjusted.

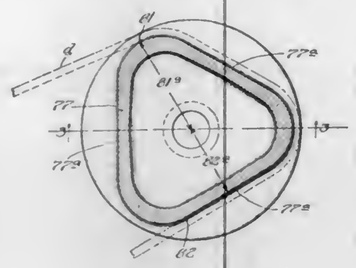
1,664,947. TRAFFIC REGULATOR. MATHEW E. RUSCH, St. Paul, Minn. Filed Nov. 13, 1925. Serial No. 68,767. 8 Claims. (Cl. 177—337.)



1. In a traffic signal a housing, a dial in a wall of said housing formed of a plurality of complementary translucent sections including go signal means for one and stop signal means for another of said sections, a pointer, means mounting said pointer for movement over said dial, means for continuously moving said pointer over said dial, illuminating means associated with each section of said dial for illuminating said section, a circuit for each illuminating means, and means including said pointer foreclosing the circuit for the illuminating means for that section over which the pointer is moving.

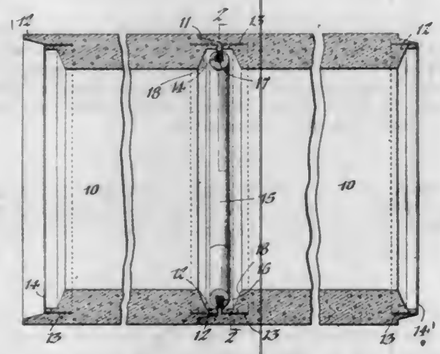
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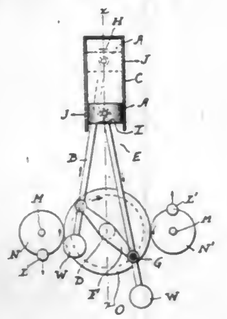
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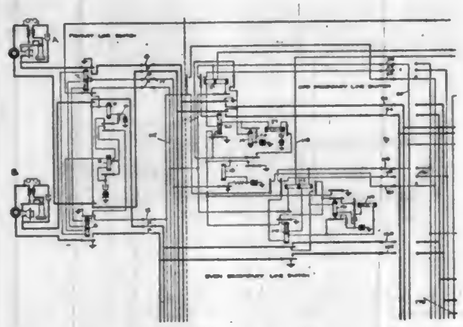
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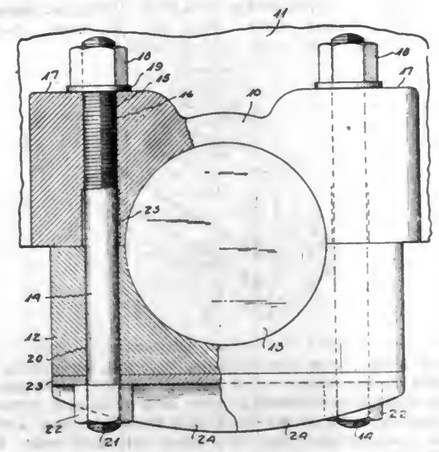
1. In a multi-cylinder engine, the combination with the cylinders, crank shaft, and the piston-connecting rod structures, of eccentric weights revolvable in the same plane and in the same direction on axes of rotation parallel to the crank shaft and with a phase difference of 180°, and means for rotating said weights at a speed to produce a couple for opposing and counteracting the couple set up by the side thrust of the pistons on the cylinder walls due to the angular movement of the connecting rod assemblies about the crank pin axis.

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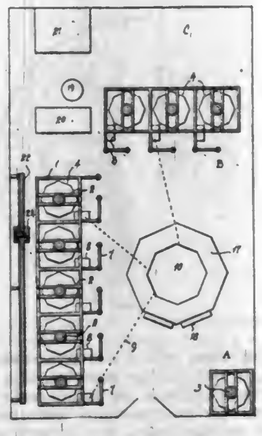
1. In a telephone system, a plurality of telephone lines, means including non-numerical automatic switches and link circuits for interconnecting said telephone lines, impedance devices normally connected to certain of said link circuits while the connection is maintained between said telephone lines, an operator's position, means including only non-numerical automatic switches and link circuits for interconnecting any of said telephone lines with said operator's position, and means responsive to said last mentioned interconnection for disabling certain of the impedance devices of the link circuit included in said last mentioned connection.

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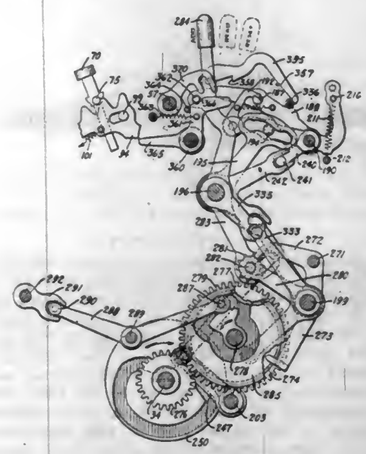
2. In a bearing structure, the combination of the bearing members, through bolts extending through said members and having threaded engagement with one of said members, and nuts engaging the ends of said bolts and abutting against said members.

1,664,945. SELF-SERVICE STORE EQUIPMENT. ALEXANDER C. ROBERT, Desdemona, Tex. Filed Jan. 12, 1926. Serial No. 80,698. 1 Claim. (Cl. 186—1.)



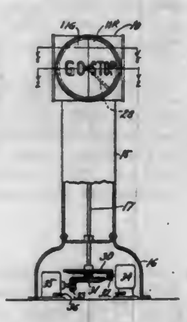
Self service store equipment comprising a plurality of polygonal shaped shelving units, removable shelves therefor, each of said units having a central shaft mounted on ball bearings, divisional walls in the units radiating from said shaft, openings for doors between the walls, a railing with an entrance space adjacent each door and shelving unit, a basket stand for each of said units, and a plurality of conveyors for returning the baskets directly from a cashier's stand respectively to a plurality of said stands.

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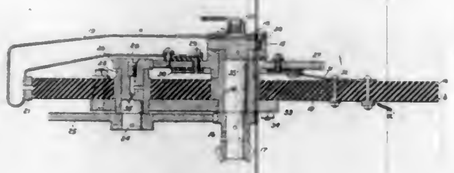
1. In a machine of the class described, the combination of a totalizer element, an actuator therefor, a differentially movable member, a device connected to said actuator, means for coupling said device to said member whereby they both operate as a unit during adding operations for positioning said actuator, and means for uncoupling said device from said member during total taking operations whereby said device is moved under control of said totalizer element for determining the position to which said member is to be adjusted.

1,664,947. TRAFFIC REGULATOR. MATHEW E. RUSCH, St. Paul, Minn. Filed Nov. 18, 1925. Serial No. 68,767. 3 Claims. (Cl. 177—337.)



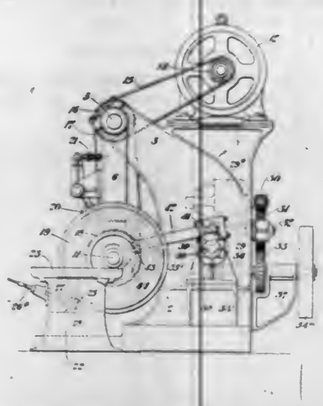
1. In a traffic signal a housing, a dial in a wall of said housing formed of a plurality of complementary translucent sections including go signal means for one and stop signal means for another of said sections, a pointer, means mounting said pointer for movement over said dial, means for continuously moving said pointer over said dial, illuminating means associated with each section of said dial for illuminating said section, a circuit for each illuminating means, and means including said pointer foreclosing the circuit for the illuminating means for that section over which the pointer is moving.

1,664,948. DATA TRANSMITTER AND RECEIVER. HARRY K. RUTHERFORD, Cambridge, Mass. Filed Aug. 22, 1924. Serial No. 733,596. 6 Claims. (Cl. 201—55.) (Granted under the provisions of the act of Mar. 3. 1883, 22 Stat. L., 625.)



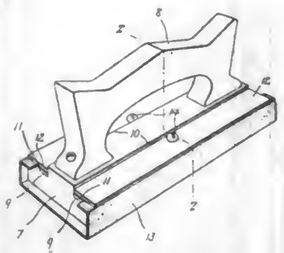
1. A transmitting or receiving instrument embodying an insulator disc, a plurality of resistance elements disposed about the periphery of the disc, a reenforcing plate attached to the disc, a central and an offset bushing extending through the disc and supported by the plate, a rotatable shaft carried by each of the bushings, a pinion secured to the under portion of the central shaft, a gear secured to the under portion of the offset shaft and in engagement with the pinion, a gear embracing and supported by the central bushing, said gear engageable with the upper portion of the offset shaft, contact arms mounted on said last mentioned gear and on the central shaft and movable over the resistance elements and sliding contacts adapted to collect and transmit current from the arms.

1,664,949. GRINDER. OTTO SANN, Johnstown, Pa. Filed Feb. 25, 1925. Serial No. 11,564. 1 Claim. (Cl. 51—55.)



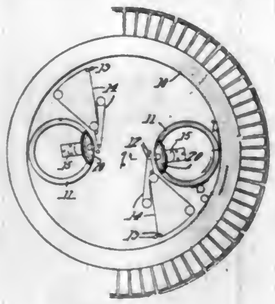
A grinder comprising, in combination a fixed vertically disposed housing having a pair of forwardly projecting arms, a shaft mounted in the upper ends of said arms, a grinding wheel support having its upper end journaled on said shaft so as to permit oscillating movement of said support relative to said shaft, a second shaft journaled adjacent the lower end of said support, a grinding wheel on said second named shaft, a motor on said housing, means for transmitting power from said motor to said second named shaft to rotate said shaft and said grinding wheel, a power shaft journaled in said housing, a fly-wheel fixed on said power shaft, a second motor, gearing connecting said second motor with said power shaft, a second shaft journaled in said housing, gearing connecting said last named shaft and said power shaft, and at least one connecting rod having one end eccentrically mounted on said last named shaft and having its other end connected to said grinding wheel support, whereby said support is oscillated.

1,664,950. SANDPAPER HOLDER. SEBERN JOSEPH SLOAN, Warren, Ohio. Filed Jan. 26, 1926. Serial No. 83,920. 4 Claims. (Cl. 51—187.)



4. A device of the character described comprising a block having upper rabbets along opposite edges forming walls, lower clamping strips secured in said rabbets, upper clamping strips above said lower clamping strips for clamping the edges of a sheet extending under the block, the upper clamping strips being curved longitudinally in their normal unsprung formations so as to bow upwardly from the block, a single screw engaging through each upper clamping strip adjacent to its inner edge and intermediate the ends of the strip, and nuts embedded in said block under the lower clamping strips for the engagement of said screws, the inner edges of the upper clamping strips abutting said walls.

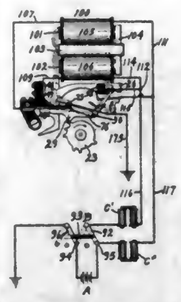
1,664,951. CIRCULAR-COMBING MACHINE. JAMES SOUTHWELL, North Chelmsford, Mass. Filed May 23, 1927. Serial No. 193,485. 4 Claims. (Cl. 19—122.)



1. The combination with the large and small circles of a horizontal circular combing machine, of a rotary brush in position for the bristles thereof to enter between the pins of a small circle to rotate the brush, and a series of pins carried by the brush for cooperating with the outer rows of pins on the small circle.

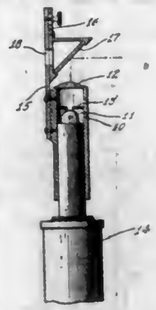
1,664,952. SIGNALING APPARATUS. NATHAN H. SUREN, Needham, Mass., assignor to The Gamewell Company, Newton Upper Falls, Mass., a Corporation of Massachusetts. Filed Sept. 6, 1924. Serial No. 736,361. 17 Claims. (Cl. 177—361.)

3. In a signal transmitter, an electromagnet having three cores and two windings carried by respective ones of two of said cores, the third of said cores being so related to said two cores as to provide a path for lines of magnetic force from either of said windings, non-interference mechanism comprising an armature cooperating with all of said cores, a circuit controller connected between said windings, and a ground branch contact for cooperation with said circuit controller.



16. Signal transmitting apparatus having a member for controlling the operation thereof, a code wheel, and a signaling contact operable in a predetermined path thereby; in combination with a grounding contact movable into or out of such path of said signaling contact, and controlling means for said grounding contact so governed by engagement with a part connected to said member as to permit movement of said grounding contact into such path of said signaling contact only while said member is ineffectively positioned.

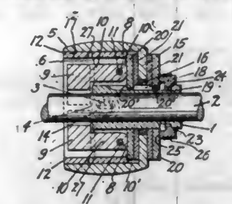
1,664,953. DIAGNOSTIC INSTRUMENT FOR THROWING A BEAM OF LIGHT INTO THE EYE. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 5, 1923. Serial No. 672,926. 2 Claims. (Cl. 88—20.)



2. In a diagnostic instrument for throwing a beam of light into a patient's eye, a support having a sight opening of substantially the size of the pupil of the human eye and a transparent reflecting member secured to the support in alignment with the said opening, the side of the reflecting member removed from the support being highly polished and having a continuous reflecting surface whereby the light reflected from the patient's eye will convey the whole image to the observer's eye without shadow.

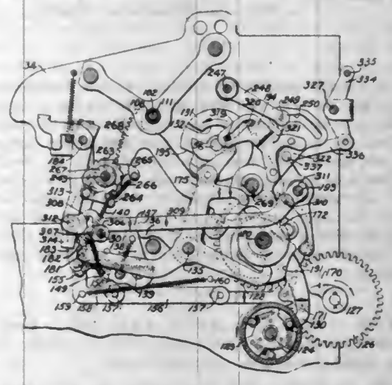
1,664,954. CONSTANT-CAPACITY AUTOMATIC CLUTCH. CLARENCE WALTER TYDEMAN, Denver, Colo. Filed Nov. 1, 1927. Serial No. 230,276. 13 Claims. (Cl. 192—105.)

1. In a constant capacity automatic friction clutch, having a driving and a driven member, adapted to be engaged by weights pivotally mounted upon the driving member when they are acted upon by centrifugal force, automatic take-up means mounted upon one of said members and, irreversible by the weights when acted upon



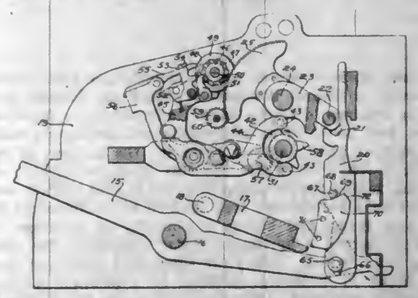
by said centrifugal force, and including an actuating spring, and adapted to exert pressure upon one of said members to prevent clearance between them at any time.

1,664,955. CASH REGISTER. EDWARD J. VON PEIN, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Apr. 13, 1921. Serial No. 460,882. 18 Claims. (Cl. 235—3.)



1. In a machine of the class described, the combination of item entering means adapted upon actuation to set up recording elements in accordance with the amount entered, a platen, power means therefor, and means positively actuated by said item entering means for rendering the power means effective and for locking said item entering means.

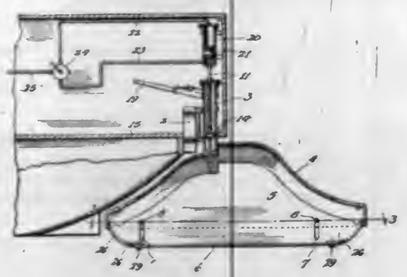
1,664,956. CASH REGISTER. EDWARD J. VON PEIN, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Apr. 24, 1922. Serial No. 556,304. 7 Claims. (Cl. 235—14.)



1. In a machine of the class described, the combination of a depressible key, a totalizer having a rotatable element, a totalizer actuator, means operated by said,

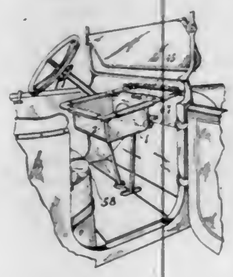
key to engage and drive said actuator, and a connection between said key and said last-named means for moving said means at a velocity relatively slower than said key during the latter part of the depression of said key.

1,664,957. RUDDER. ELIJAH FLEET WEBB, Kenova, W. Va. Filed Dec. 8, 1926. Serial No. 153,895. 2 Claims. (Cl. 114—167.)



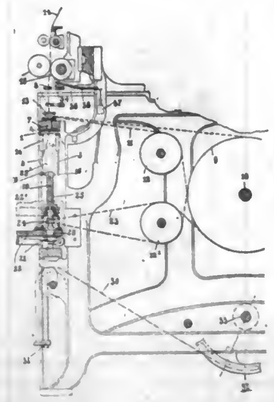
1. A rudder comprising a main hollow member open at its bottom, an auxiliary member having a snug fit within the main member and movable therein through the bottom, a hollow rudder post extending upwardly from the main member, a stem connected to the auxiliary member and passing through the hollow post, and an open coil spring mounted upon the stem and housed within the upper portion of the post and confined between the upper end of said post and a stop carried by the stem and operating to normally hold the auxiliary member projected.

1,664,958. INFANT'S AUTO CARRIER. EARL A. ZEISER, Cincinnati, Ohio. Filed Feb. 9, 1925. Serial No. 7,838. 1 Claim. (Cl. 155—10.)



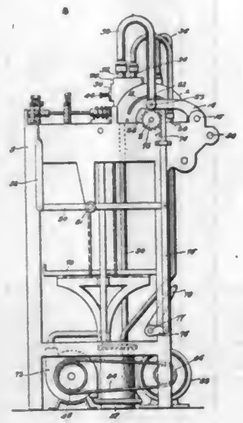
In an infant's carrier for automobiles, a seat frame preferably U-shaped, the ends of which are formed into eyes or bearings, a frame bracket adapted to be fastened to the dash board of an automobile and having its ends extending at right angles thereto for the purpose of receiving a rod upon which the seat frame is capable of pivoting, means for retaining said rod in said bracket and seat frame, a rectangular seat adapted to be supported by said seat frame and having a plurality of openings in one end thereof, a horizontal frame connecting the seat frame near its end, means for supporting said seat and seat frame in horizontal position or a position capable of holding an infant, said supporting means being adjustable and pivotally mounted on said dash board and capable of being moved, substantially as set forth and for the purposes specified.

1,664,959. SPINNING AND TWISTING FRAME. JEAN ZVORIKIN, Paris, France. Filed Mar. 26, 1926, Serial No. 97,756, and in France Feb. 3, 1926. 4 Claims. (Cl. 118—51.)



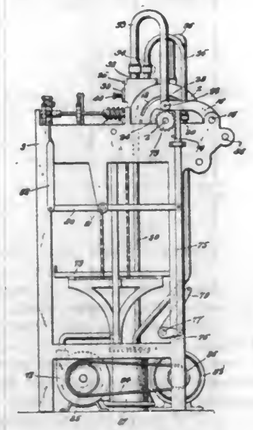
1. A spinning couple comprising a rotary spindle, a thread-receiving bobbin mounted thereon and rotating independently thereof, and means for imparting a twist to the thread, said means including a rapidly rotating disk rotating on the same axis as the spindle and bobbin and having two depending arms on one of which the thread is guided to the bobbin.

1,664,960. CONVERTIBLE OSCILLATING ROTARY FEEDER. LESTER KYLE ALDRICH, Sidney, Ohio. Filed May 21, 1926. Serial No. 110,701. 31 Claims. (Cl. 271—20.)



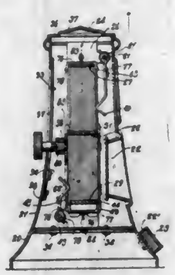
1. A feeder of the class described including a suction nozzle mounted for movement on a fixed axis above and in spaced relation with a stack of sheets for advancing a sheet to pull the same from the stack, oscillating means for picking up a sheet and lifting the same to deliver it to the suction nozzle, and separate means for varying the amount of suction on the nozzle of the oscillating means.

1,664,961. CONVERTIBLE OSCILLATING ROTARY FEEDER. LESTER KYLE ALDRICH, Sidney, Ohio. Original application filed May 21, 1926, Serial No. 110,701. Divided and this application filed Nov. 5, 1926. Serial No. 146,499. 15 Claims. (Cl. 271—20.)



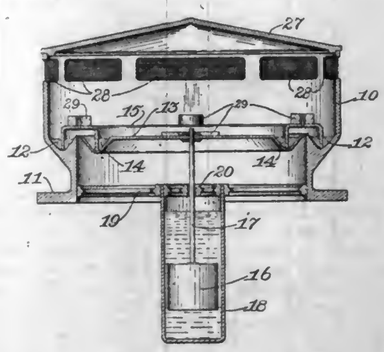
1. A feeder of the class described including a pull off suction nozzle mounted for rotary movement on a fixed axis and located above and in spaced relation to a stack of sheets, means for continuously rotating the nozzle, and oscillating means consisting of a pivoted suction arm for picking up a sheet and moving the same backward for forming an undulation in the picked up sheet and for delivering the sheet to the pull off nozzle.

1,664,962. CHANGEABLE EXHIBITOR. LOUIS V. ARONSON, Newark, N. J. Filed Oct. 16, 1926. Serial No. 142,024. 5 Claims. (Cl. 40—79.)



1. A changeable exhibitor comprising, in combination, means to support packs of cards in mutually edgewise relation, means to press the cards in said packs in opposite directions respectively, reciprocating means surrounding said first named means and telescoping with said packs acting to shift cards alternately from one pack to another during reciprocation, means normally holding the cards from movement under action of said pressing means and removed from action by engagement with said reciprocating means.

1,664,963. LIQUID SEAL. HAROLD V. ATWELL, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Feb. 14, 1927. Serial No. 168,059. 5 Claims. (Cl. 277—45.)



3. A liquid seal comprising a vapor outlet, a liquid channel around said outlet, a pressure plate in said outlet, a liquid channel on said plate, a closing member adapted to co-operate with liquid in said channels to effect closure of the outlet and adapted to be supported from either of said channels, means for applying an upward force of predetermined magnitude on said plate, so that said member effects closure of the outlet, except when the plate is depressed by a certain excess pressure thereabove or when the plate and member are raised together by a certain excess pressure therebeneath.

5. In combination an outlet passage, a member movable in said passage in opposite directions therein in response to variations in pressure relations on the opposite sides thereof, said movable member being provided with a channel adapted to contain a liquid sealing medium, channel forming means co-operating with the outlet passage to contain a liquid sealing medium, and a closure member co-operating with the channels of the movable member and the channel forming means of the outlet passage to seal the outlet passage, said closure member being movable in one direction with the movable member and being supported in the outlet passage when the movable member is moved in the other direction.

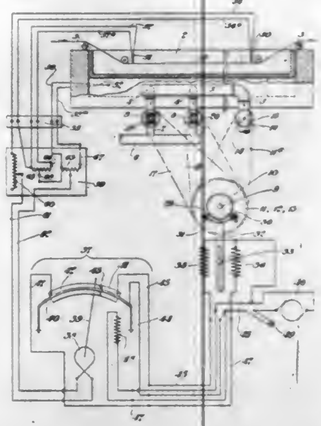
1,664,964. STONE VENEER. GEORGE BENTLEY BERGEN, Sr., Milwaukee, Wis. Filed Dec. 2, 1925. Serial No. 72,836. 3 Claims. (Cl. 91—68.)

3. The method of veneering wood surfaces which consists in preparing a solution of magnesite and magnesium chloride, then adding colors to separate portions of said mixture while maintaining fluidity, then allowing partial setting to take place, then priming the wood surface to be treated, then subsequently flowing said colored portions on the surface to be treated, allowing sufficient time between the application of each color to permit initial setting to take place so as to avoid blending or mixing of the separate colors.

1,664,965. APPARATUS FOR TEMPERATURE CONTROL. ALBERT BONDS, Cleveland, Ohio. Filed May 19, 1926. Serial No. 110,303. 11 Claims. (Cl. 236—15.)

1. A temperature control mechanism comprising the combination with a source of heat, of a plurality of temperature responsive elements, one of said elements being located at the point to be regulated, and other of said elements being located at spaced points relatively closer to said source of heat than said first named element, said elements being adapted to supply varying independent

electric currents in accordance with temperature changes, and means for interconnecting said currents so as to obtain a desired proportionate amount of each of said cur-



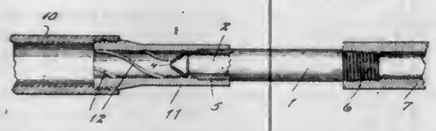
rents, and for accumulating said proportionate amounts of current into a single current, and means operable by said single current for varying the heat supplied.

1,664,966. OPHTHALMIC TEMPLE. WILLIAM H. BOUTELLE, Sturbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 7, 1924. Serial No. 684,806. 2 Claims. (Cl. 88—52.)



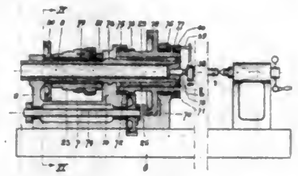
1. A temple of the character described comprising an inner metallic temple consisting of a straight flattened side portion having its greatest width disposed in the vertical plane and a terminal ear loop portion circular in cross section and a seamless non-metallic outer tube covering the flattened side portion of the metallic temple and tapered down to the diameter of the ear loop portion adjacent the union of the ear loop and side portions of the inner temple.

1,664,967. SELF-CLEANING OIL BURNER. OSCAR CHRISTENSEN, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Feb. 3, 1926. Serial No. 85,772. 7 Claims. (Cl. 210—164.)



1. Liquid purifying means comprising the combination of a tubular member interposed in a liquid conduit and having its end toward the liquid current provided with a central orifice of relatively small diameter as compared with the tubular member itself, the remainder of said end being imperforate, and means located in advance of said tubular member for producing turbulence of the liquid.

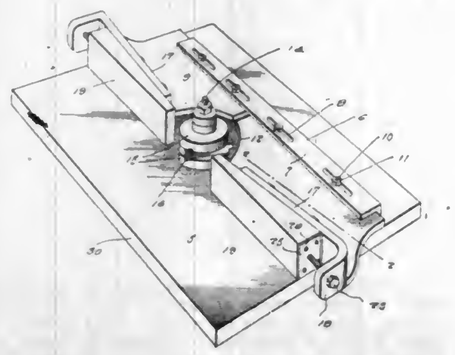
1,664,968. LATHE. EDOUARD COENEN, Brussels, Belgium. Filed Jan. 14, 1926, Serial No. 81,323, and in Belgium Jan. 22, 1925. 11 Claims. (Cl. 82—29.)



1. A lathe comprising a fixed shaft carrying a fixed center, a tubular shaft rotating about the fixed shaft, an intermediate shaft driving the tubular shaft, two bearings encompassing the tubular shaft, two bearing blocks containing said bearings, and three supports encompassing the fixed shaft.

10. A lathe comprising a fixed shaft carrying a fixed center, a tubular shaft rotating about the fixed shaft, two bearings encompassing the tubular shaft, two bearing blocks containing said bearings, an intermediate shaft driving the tubular shaft arranged at each side of the fixed shaft, a drive pulley mounted idly on the fixed shaft, a gear located at each extremity of the drive pulley and fixed thereupon, two gears mounted idly on shafts located on each side of the fixed shaft and engaging with the preceding ones, a clutch member fixed angularly on each of these two shafts but slidable along them, means for putting each clutch member separately in contact with the idly mounted gears, a gear keyed on each of these shafts, a gear keyed on each of the intermediate shafts engaging with the preceding gear, and means for varying the distance between the tubular shaft and each intermediate shaft so that a pinion keyed on each intermediate shaft may be put into or out of engagement with the gear wheel keyed on the tubular shaft, by moving these pinions transversely with respect to their axis.

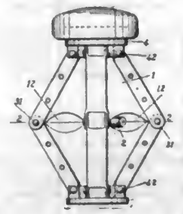
1,664,969. GUIDE FOR MOLDER TABLES. JOHN C. CONOVER, Somerville, N. J. Filed Jan. 8, 1927. Serial No. 159,984. 2 Claims. (Cl. 144—253.)



1. In combination, a pair of plates, means for adjustably mounting the rear alined edges of the plates on a table for movement in alinement with each other, flanges rising from the forward edges of the plates and having angular extensions, wedge blocks having their inclined

faces slidable on the flanges, pin and slot means engaging the blocks on the flanges, and screw means associated with the extensions and the blocks for moving them along the flanges.

1,664,970. TIRE-INFLATING MECHANISM. WILLIAM GORDON CUMMING, Montreal, Quebec, Canada. Filed Nov. 28, 1924. Serial No. 752,749. 5 Claims. (Cl. 152—11.)



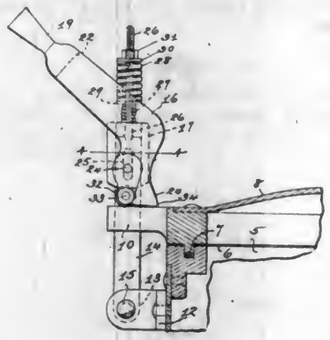
1. In a device of the class specified the combination of a wheel rim and a pneumatic tire thereon with a suction pump within the tire comprising a rubber body having slits radiating from an axis radial to the wheel, a valved air inlet tube leading to the center of the rubber body, an air filter thereto beyond the rim and a valved outlet tube leading from the center of the rubber body to the inside of the tire.

1,664,971. BILLIARD CUE. CLAYTON C. DEAN, Mundelein, Ill. Filed Sept. 1, 1927. Serial No. 216,798. 6 Claims. (Cl. 273—68.)



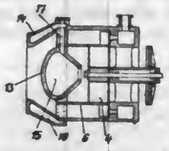
1. A billiard cue comprising a cue rod tapering alternately from a point near the center, and of substantially uniform diameter along the handle end.

1,664,972. RETORT-COVER CLAMP. DANIEL W. DUDDERAR, Mount Airy, Md. Filed July 9, 1927. Serial No. 204,474. 6 Claims. (Cl. 220—55.)



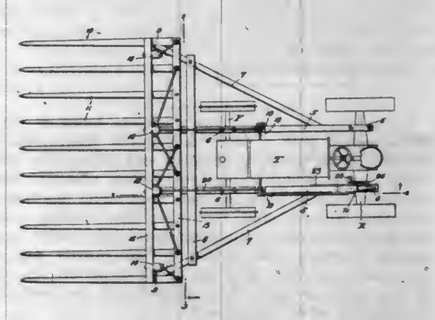
1. The combination with a retort vessel, of a cover having radial openings around its periphery, a bar pivotally attached to the vessel below the cover and movable into the radial opening above its pivot-point, a clamping lever pivoted with respect to the bar above the radial opening, spring-means on the upper end of the bar and means operating between the spring-means and the clamping lever to press the latter on the cover.

1,664,973. GAS BURNER. REGNIER EICKWORTH, Dortmund, Germany. Filed Aug. 5, 1927, Serial No. 210,796, and in Germany Aug. 6, 1926. 2 Claims. (Cl. 158—119.)



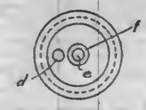
2. A burner comprising a casing having a central inlet opening and containing an annular chamber to which gas is admitted, a wheel having a series of blades in line with said opening, and a second series of blades surrounding the first series, the casing having nozzles through which gas issuing from said chamber may be directed against said second series of blades, a tubular member in line with said inlet in which air is impelled by the first series of blades, the casing being extended to envelop said member, a hollow body adjacent the end of said member, and means for admitting a cooling fluid to said body and conducting it therefrom.

1,664,974. TRACTOR SWEEP RAKE. CLIFFORD A. FLEMING, Huntsville, Mo. Filed Nov. 18, 1925, Serial No. 69,901. Renewed Dec. 13, 1927. 1 Claim. (Cl. 56—27.)



A sweep rake of the character set forth, the combination of a frame section, means rigidly and detachably securing the frame to the forward and rear axles of a tractor, a tine section, forwardly and outwardly diverging braces extending from the intermediate portion of the frame with their outermost portions disposed under the inner corners of the tine section, pivotal elements connecting the tine section to the frame and braces intermediate their outermost ends, and elevating means connected to the tine section.

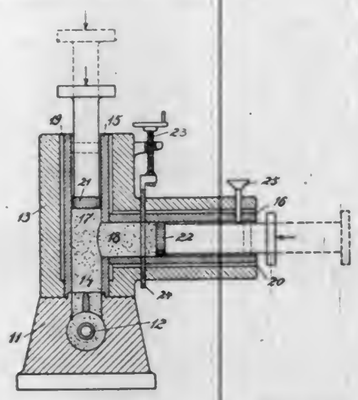
1,664,975. DISPENSING CLOSURE FOR BOTTLES AND THE LIKE. ERNST OTTO GOTTSCHALK, Dresden, Germany. Filed May 25, 1927, Serial No. 193,996, and in Germany Feb. 6, 1926. 2 Claims. (Cl. 215—76.)



1. A dispensing closure for bottles and the like comprising an apertured cap adapted to fit over the mouth of a bottle, a cover rotatably secured to said cap and

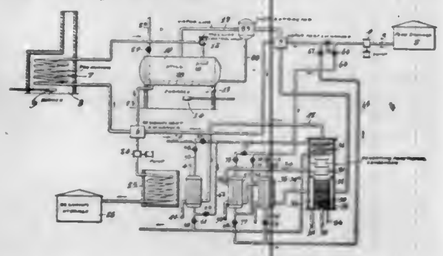
having a discharge opening registering with the aperture in said cap, the edges of said opennig being turned inwardly, and a closure member interposed between said cap and said cover and pivoted to said cap, said closure member being provided with a projection constructed and arranged to seat in said opening and being provided with a portion adapted to close the aperture in said cap.

1,664,976. MACHINE FOR MAKING METALLIC TUBING. FERDINAND HANFF, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 16, 1925, Serial No. 62,829, and in Germany Dec. 1, 1924. 2 Claims. (Cl. 207—2.)



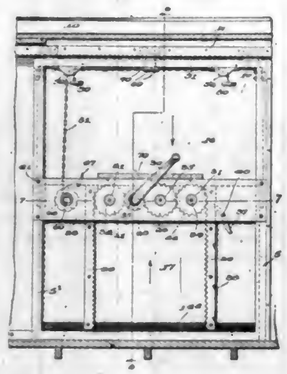
1. In a machine for making endless tubes or for providing cables with a seamless metallic sheath, the combination of a pressing chamber containing the plastic-liquid metal and two cylinders and plungers therein disposed to exert pressure upon said metal one being the operating plunger and the other the feeding plunger, the operating plunger standing constantly under uniform outside pressure and means for temporarily separating the feeding plunger from the metal to permit the release of the pressure upon that plunger and the charging of its cylinder with fresh metal.

1,664,977. ART OF DISTILLING LUBRICATING OILS. RICHARD W. HANNA, Piedmont, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Oct. 4, 1923. Serial No. 666,475. 3 Claims. (Cl. 196—77.)



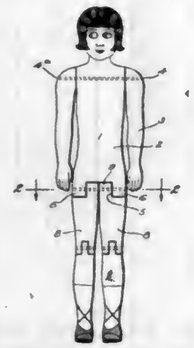
2. In the art of petroleum distillation, heating the oil to be distilled to a temperature at which portions thereof would crack if maintained at such temperature for a period of time sufficient to permit the cracking reaction to take place, while maintaining the same in substantially liquid phase, immediately passing the heated oil before substantial cracking thereof take place to a vaporizing chamber, maintained under a reduced pressure less than atmospheric, wherein the temperature of the oil is dropped below the temperature at which portions would crack, extracting from the vapors the tarry "mist" without substantial scrubbing of vapors in said step, and thereafter fractionally condensing the vapors into a number of distillates of different boiling points.

1,664,978. GRAIN-CAR DOOR. GEORGE W. HARER and JACOB J. BURRI, Chicago, Ill. Filed Dec. 22, 1924, Serial No. 757,530. Renewed Dec. 8, 1927. 6 Claims. (Cl. 20—27.)



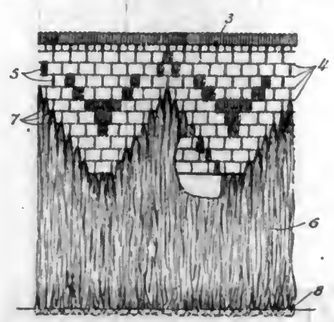
1. A grain car door comprising a frame, a cross bar carried by the frame, gears carried by the cross bar and having engagement with each other, a panel slidably carried by the frame and having racks adapted to engage certain of said gears, a crank having connection with one of said gears and adapted to be turned to move said panel vertically, and means supporting the door frame and said parts carried thereby for horizontal movement as a unit to completely open or completely closed position.

1,664,979. ARTICULATION OF DOLL MEMBERS. HELEN SARGENT HITCHCOCK, New York, N. Y. Filed Jan. 27, 1926. Serial No. 84,023. 1 Claim. (Cl. 46—40.)



A doll formed from flat pieces, having a body portion centrally recessed with a rectangular recess with a straight horizontal bottom and parallel vertical sidewalls at right angles to the bottom, so as to leave rectangular body extensions on opposite sides of said recess, and legs having the upper outer corners cut away to receive the body extensions and provide leg extensions that enter the body recess in contact with each other, all arranged so that the outer contour of the legs and body portions are substantially continuous to form the outer continuous thigh lines of the doll, and means for pivoting the leg extensions in the body recess.

1,664,980. TRIMMING AND METHOD OF MAKING SAME. ABRAHAM HOLTZ, Bronx, N. Y., assignor to Sadinoff & Wendroff Inc., New York, N. Y., a Corporation of New York. Filed Sept. 3, 1927. Serial No. 217,389. 2 Claims. (Cl. 66—170.)

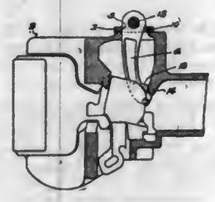


1. The method of making trimmings for curtains and the like which consists in forming a base warp fabric, and, in the act of fabricating said base fabric, attaching to the warp threads thereof an ornamental fringe which covers portions of the base fabric of varying width, with the remainder of the base fabric exposed.

1,664,981. METHOD OF CLEANING CHICLE AND SIMILAR GUMS. DONALD W. HOWE, EARLE R. PICKETT, and DOUGLAS M. MCBEAN, Canajoharie, N. Y., assignors to Beech-Nut Packing Company, Canajoharie, N. Y., a Corporation of New York. Filed July 13, 1925, Serial No. 43,433. Renewed Sept. 2, 1927. 10 Claims. (Cl. 18—49.)

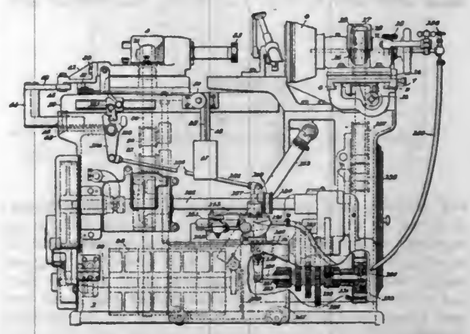
1. The method of cleaning chicle and similar gums, which consists in emulsifying the gum in water hot enough to liquefy the gum, filtering the emulsion thus produced, and separating the gum and excess water of said filtered emulsion.

1,664,982. CAR-COUPLER-LOCK-LIFTER SAFETY ATTACHMENT. SYLVESTER L. JOINER, McGregor, Tex. Filed July 28, 1927. Serial No. 209,078. 4 Claims. (Cl. 213—127.)



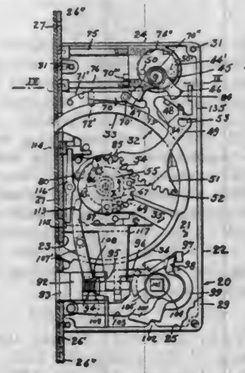
1. A lock liffer attachment for car couplers comprising a member having an opening to receive and permit free independent movement of the lock lifter of a car coupler, said member being adapted to rest upon the top of the coupler head and arranged to receive and support the release rigging to limit the downward movement of the lock lifter.

1,664,983. AUTOMATIC COOLANT-ARRESTING MECHANISM. GEORGE C. KIMMEL, Worcester, Mass., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Original application filed May 6, 1921, Serial No. 467,297. Divided and this application filed Nov. 20, 1923. Serial No. 675,910. 5 Claims. (Cl. 51—267.)



1. In a machine of the class described, a housing, a head stock having work supporting mechanism mounted on said housing, a tool head carrying a tool mounted on a carriage movable to and from said head stock, automatic means for moving said tool head toward and from said head-stock, means for rotating the work, means including a pipe for furnishing a cooling medium to the work, a valve in said pipe, and means rendered effective by abnormal movement of said tool head simultaneously to render said work rotating means ineffective and actuate the valve to cut off the flow of coolant to the work.

1,664,984. LOCK MECHANISM. CLIVE W. LANPHERE, New York, N. Y. Filed Sept. 9, 1926. Serial No. 134,446. 34 Claims. (Cl. 70—29.)

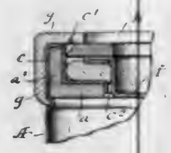


1. A lock comprising a casing, a guard, a bolt adapted to interlock with said guard, spindle means to actuate said bolt from one side of said casing, key-actuated means to actuate said bolt from another side of said casing, and means to permit interchanging the positions of said spindle and said key-actuated means.

1,664,985. CONTAINER. ALFONS MAUSER, Cologne-Marienburg, Germany. Filed Dec. 12, 1925, Serial No. 74,993, and in Germany Aug. 17, 1925. 8 Claims. (Cl. 220—78.)

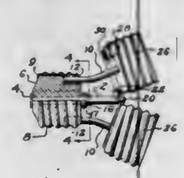
1. A container comprising a shell having an inwardly bent projection at a distance from its end, and a return-bent end portion located on the inside of said shell, a

cover support clamped between said projection and said return-bent portion, a reinforcing ring surrounding said return bent end portion of the shell, having a flange projecting inwardly at the extremity of the shell, in engagement with the bend of said portion and an inturned lip engaging with and covering the outer part of said inward projection, whereby said reinforcing ring is secured upon said shell in interlocking engagement with,



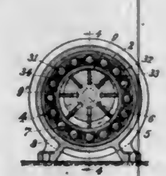
and protects, said portion and projection against shocks or blows, an expanding ring fitted within the shell in engagement with said flange, a cover fitted between said expanding ring and said support, and a packing ring engaging said cover and the return-bent portion of the shell and preventing leakage between said shell and cover support from the interior of the container to the exterior thereof.

1,664,986. PLUG CONNECTER. BENJAMIN P. MCKINLEY, Flushing, N. Y., assignor to Hemco Electric Manufacturing Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Dec. 8, 1923. Serial No. 679,298. 8 Claims. (Cl. 173—335.)



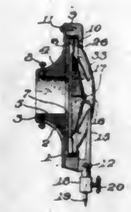
1. In a plug connecter, the combination of an externally screw-threaded plug shell, an insulating washer within the same, a contact member passing through said washer, two internally threaded receptacle shell electrically connected to said contact member, two contacts connected to said externally threaded plug shell and having their ends centrally located within said internally threaded receptacle shells respectively, and a mass of insulating material molded about said internally threaded receptacle shells and extending to said washer, said externally threaded plug shell being internally flanged at its outer end and having solder secured to its inner surface adjacent to its other end holding said washer against said flange.

1,664,987. ROTARY ENGINE. ROBERT MEYER, Gelsenkirchen, Germany. Filed Jan. 29, 1923. Serial No. 615,551, and in Germany Jan. 30, 1922. 5 Claims. (Cl. 121—84.)



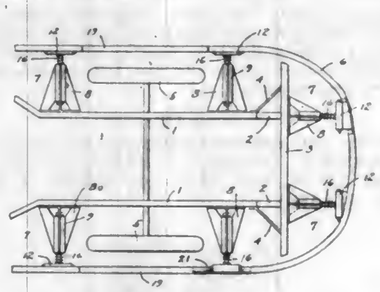
1. A rotary engine comprising a cylinder provided with a central portion having annular recesses adjacent its ends and having ports for the intake and exhaust of motive fluid, a rotary piston eccentrically mounted in said cylinder and having radial slots, blades radially movable in said slots and adapted to frictionally slide over the inner surface of said central portion, stay rings rotatably mounted in said recesses, the inner diameter of said stay rings being the same as the inner diameter of said central portion, and anti-friction bearings between said rings and said cylinders, maintaining the rings in alignment with said central portion.

1,664,988. SOUND REPRODUCER. IDA E. MOBLEY, Roslyn, Pa. Filed July 16, 1926. Serial No. 122,877. 4 Claims. (Cl. 274—25.)



1. In a sound reproducer for talking machines, in combination, a substantially cylindrical rim provided at one edge thereof with an inturned flange, a back plate arranged to be detachably secured to the opposite edge of said rim to form conjointly with said flange an annular groove, a diaphragm having a plane marginal portion and a central conically shaped portion arranged with said marginal portion within said groove and said conically shaped portion projecting away from said plate, and a protecting shield for said diaphragm having a marginal portion received within said groove and a central portion conforming to the shape of and spaced from the central portion of said diaphragm.

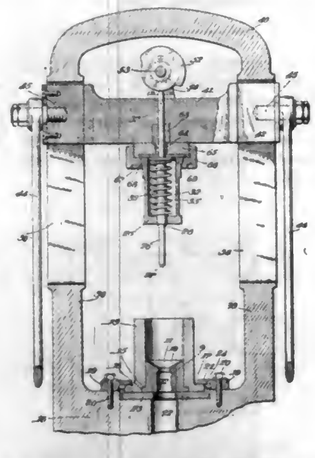
1,664,989. AUTOMOBILE BUMPER. JAMES NICKELS, Silvis, Ill. Filed Sept. 17, 1926. Serial No. 136,106. 2 Claims. (Cl. 293—55.)



1. In a device of the class described, an inner frame, an outer frame encircling the same, and provided with removable sections, and pairs of oppositely acting shock-absorbing devices uniting said frames.

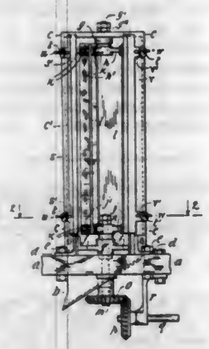
1,664,990. MEANS FOR MAKING SEAMLESS TUBING. PAUL OEHMIG, Jr., and FRANK LUTZNER, Chicago, Ill. Filed Aug. 11, 1924. Serial No. 731,843. 2 Claims. (Cl. 207—3.)

1. In a tube extruding apparatus embodying a ductile metal container and a die associated with said container, a plunger reciprocable in said container, a mandrel having an annular shearing shoulder extending through said plunger, yielding means between said mandrel and plunger for normally maintaining the same against relative movement, means for operating said plunger and



mandrel as a unit and means for advancing said mandrel relative to said plunger against the tension of said yielding means for shearing an extruded tube from the waste metal in said container.

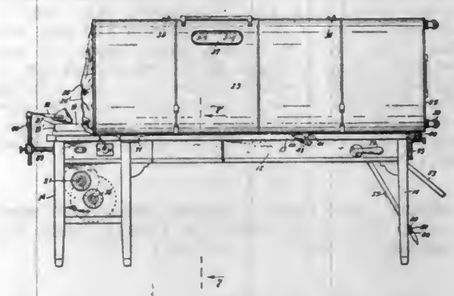
1,664,991. MACHINE FOR FLESHING FURRED SKINS. RICHARD OLDS, Walkerville, Australia. Filed Jan. 14, 1926, Serial No. 81,133, and in Australia Aug. 8, 1925. 1 Claim. (Cl. 149—15.)



A fleshing machine having an outer frame or casing with an upright opening formed therein, vertical adjustment plates mounted on the frame adjacent to each side of the opening, said plates being adapted to slide horizontally for adjustment purposes, a series of rotatably mounted vertical straight knives arranged on a knife spider to rotate with the casing, and a lower bearing spider fixed within the frame and provided with a central bearing device in which the knife spider is supported.

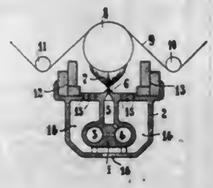
1,664,992. ELECTROTHERAPEUTICAL APPARATUS. SIGMUND PONGO, New York, N. Y. Filed July 26, 1927. Serial No. 208,555. 6 Claims. (Cl. 174—177.)

1. An electro-therapeutical apparatus, comprising a table adapted to receive a prone body, guide rails adjacent the longitudinal edges of the top of said table, a casing slidable on said guide rails having an open bottom, said casing being approximately of a length corresponding to that of the table top and the latter closing the bottom portion of said casing when said casing is mounted upon said table, electric lights within said casing, two rollers on the table top adjacent the foot portion of the



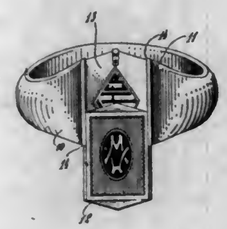
latter, bearing members on said casing intermediate its ends, said bearing members being adapted to be brought into engagement with said rollers, whereby said table top is supported when it is swung on said bearing members around said rollers, and means adapted to balance the weight of said casing and support it in tilted position on said rollers.

1,664,993. PROCESS FOR HEATING THE SINGEING MEMBERS OF CYLINDER SINGEING MACHINES. WALTER OSTHOFF, Barmen, Germany. Filed Dec. 4, 1925, Serial No. 73,290, and in Germany Dec. 10, 1924. 2 Claims. (Cl. 26—6.)



1. The method of heating the singeing member in singeing machines, which comprises causing a non-oxidizing oil-carrying flame to impinge directly upon the active surface of a traveling singeing member.

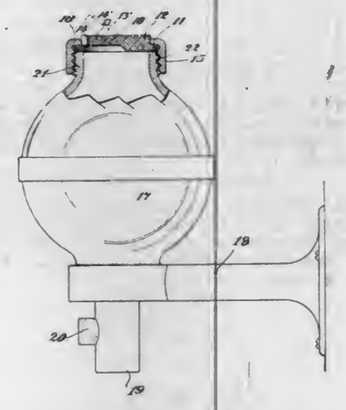
1,664,994. JEWELRY. AUGUSTIN PEREZ REA, Mexico City, Mexico. Filed Nov. 28, 1923, Serial No. 677,502, and in Mexico Nov. 28, 1922. 3 Claims. (Cl. 40—17.)



1. An article of the character specified comprising a body portion having a shallow recessed part at the outer side thereof whose base forms a panel, a shallow device

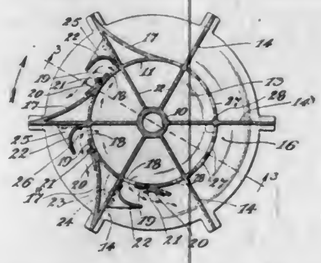
receiving receptacle in said panel and flush therewith, grooves in the sides of said recessed part, said recessed part having a slot in one end, a cover conformed to said recessed part and adapted to lie within the same and slidably engaging the grooves therein to permit of the exposure of said device, said cover having a recess at the inner side thereof; the contiguous surfaces of said cover and said panel closely engaging each other, and the outer surface of said cover being substantially flush with the adjacent portions of the outer surface of said body portion, a stop arranged on said cover adjacent one end thereof to engage with said slot in said recessed part to limit the inward movement of said cover, and a spring detent arranged on said recessed part to be received within said recess of said cover and to engage the same, whereby to lock said cover to its adjusted position within said recessed part.

1,664,995. CONTAINER CLOSURE. WILLIAM H. ROSE, Jersey City, N. J. Filed July 3, 1924. Serial No. 724,142. 5 Claims. (Cl. 215—37.)



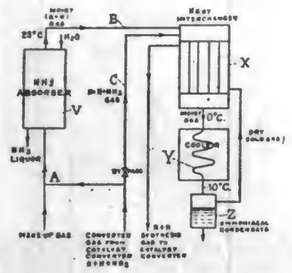
1. In a container closure, in combination, an annular flange and a flap-valve member, a portion of which is integral with the flange and thicker than said flange, the face portion of the valve member abutting upon the flange when in normal position.

1,664,996. CENTRIFUGAL PULP SCREEN. GEORGE F. SHEVLIN, Glens Falls, N. Y., assignor to George F. Shevlin & Son, Glens Falls, N. Y., a Partnership composed of George F. Shevlin, Sr., and George F. Shevlin, Jr. Filed Mar. 31, 1927. Serial No. 179,778. 5 Claims. (Cl. 92—34.)



1. In a centrifugal pulp screen, a stock distributor comprising a hub, a cylindrical member, blades extending from the hub to and beyond the cylindrical member, a plurality of vanes each associated with the outer portion of the cylindrical member and an adjacent portion of one of the blades, and a plurality of deflector plates each associated with a vane and so constructed and secured in position as to positively direct the passage of stock to the corresponding vane.

1,664,997. PROCESS OF DRYING GASES. ROLAND EDGAR SLADE, Billingham-on-Tees, and VICTOR EMMANUEL PARKE, Runcorn, England, assignors to Atmospheric Nitrogen Corporation, Solvay, N. Y., a Corporation of New York. Filed Jan. 28, 1926. Serial No. 84,323, and in Great Britain Jan. 28, 1925. 8 Claims. (Cl. 23—7.)



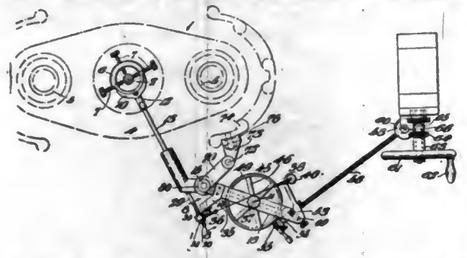
2. In the process of drying gas for use in the manufacture of synthetic ammonia, the steps which comprise scrubbing an ammonia containing gas which is subsequently to participate in the synthesis with a liquid capable of absorbing ammonia, setting up in the residual gas a condition such that it contains in addition to its water vapor content a small percentage of gaseous ammonia sufficient, upon subsequent reduction of the temperature of the gas to below 0° C., to preserve a condition of liquidity in the condensate, then subjecting the gas mixture aforesaid to a temperature below 0° C., collecting and removing the condensate as ammoniacal liquor and passing the gas thus dried to an ammonia catalyst in the synthesis system.

1,664,998. PROCESS OF MANUFACTURING FUEL BRIQUETTES. ALBERT L. STILLMAN, Plainfield, N. J., assignor to The General Fuel Briquette Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 21, 1927. Serial No. 162,681. 2 Claims. (Cl. 44—23.)

1. In the process of making fuel briquettes, the improvement which consists in mixing bituminous coal with a bituminous binder heated to a molten condition, and subjecting the mixture at a temperature above the fusion point of the binder and in the presence of water vapor to an intense grinding operation until volatile constituents of the coal are liberated and passed into solution in the molten binder.

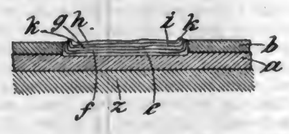
1,664,999. RECORDING APPARATUS FOR TESTING MACHINES. WILLIAM J. TRETCH, Philadelphia, Pa., and FRANCIS BUCKINGHAM, Franklinville, N. J., assignors to Riehle Bros. Testing Machine Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 15, 1922. Serial No. 607,112. 2 Claims. (Cl. 234—1.)

1. In a device of the character stated for testing the amount of elongation of the specimen being tested, clamps adapted to be attached to the specimen to be tested, upper and lower fingers adapted to contact with said clamps, an upper rod connected to said upper fingers, a frame carried by said upper rod, a recording instrument supported in said frame, a stem projecting from said lower fingers, a flexible connection from said stem to a



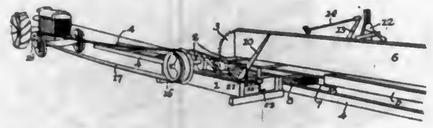
movable portion of said instrument, for rotating the latter when stress is applied to the specimen to be tested and a drum actuated by deflection of said specimen.

1,665,000. MERCURIAL PRINTING SURFACE. ARTHUR RONALD TRIST, London, England. Filed Oct. 5, 1926, Serial No. 139,651, and in Great Britain Nov. 5, 1925. 12 Claims. (Cl. 41—41.5.)



1. A planographic printing plate having ink retaining areas and mercurial ink refusing areas, comprising a base plate, an electrodeposited layer of metal with which mercury can amalgamate, an electrodeposited layer of a metal unaffected by mercury to which printing ink will adhere, a recess or recesses passing through said last named layer so as locally to expose the first named layer, and a highly polished mercurial amalgam in each recess.

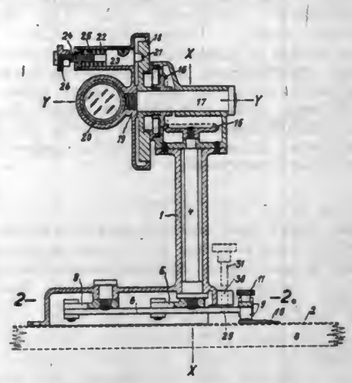
1,665,001. SAWMILL. CHARLES H. TURNER, Statesville, N. C. Continuation of application Serial No. 667,420, filed Oct. 8, 1923. This application filed Jan. 6, 1926. Serial No. 79,536. 1 Claim. (Cl. 143—157.)



In a sawmill having a frame, a shaft journaled in said frame, a saw operatively connected to said shaft, and pulley means on said shaft adapted to be connected by a belt to a distant source of power; means for controlling said source of power comprising: a foot pedal mounted on said frame in position for convenient foot manipulation by a sawmill operator, an arm operatively associated with said foot pedal, tension means connecting said arm and the throttle of said distant source of power, and means associated with said pedal for normally maintaining said arm in position to provide the smallest quantity of power necessary to operate said sawmill.

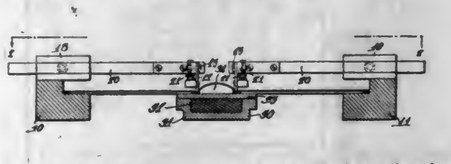
1,665,002. DEVICE FOR TRACING CROSS SECTIONS. OTTO VON GRUBER, Stuttgart, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Sept. 16, 1927, Serial No. 220,028, and in Germany Sept. 30, 1926. 2 Claims. (Cl. 33—67.)

1. Device for tracing cross sections containing a foot, a ruler supported on this foot rotatable about a vertical axis, a telescope adapted to measure distances and supported on the foot rotatable about a horizontal axis, a coupling inserted between the telescope and the ruler, adapted to impart to the ruler during rotations of the



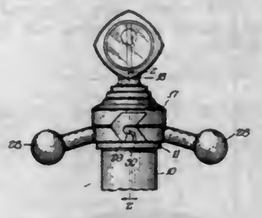
telescope about the said horizontal axis a uniform rotation about the said vertical axis, the said coupling being disengaging, and means adapted to fix the ruler with respect to the said foot.

1,665,003. CASE-FORMING ATTACHMENT. JOHN HARRY WEAVER, Camden, N. J., assignor to Jesse Satenstein, Camden, N. J. Filed Aug. 14, 1926. Serial No. 129,169. 6 Claims. (Cl. 11—2.)



1. In a case back-forming attachment having a forming bar, means for creasing a case including a support mounted in a plane above the forming bar and disposed at right angles to said bar, creasing means swingably depending from the support, and a spring pressed member pivoted to the creasing means for holding said means downwardly against a case being fed thereunder.

1,665,004. AUTOMOBILE RADIATOR CAP. JOHN F. WHITE, Chicago, Ill., assignor to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 11, 1925. Serial No. 22,270. 4 Claims. (Cl. 220—24.)

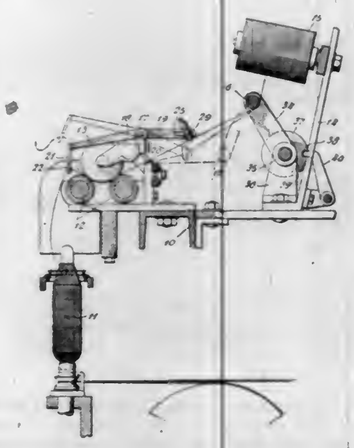


1. A radiator cap comprising a bushing for connection to the radiator nipple, a cap hinged to the bushing for closing the end thereof, a collar rotatable on the bushing and cooperating catch members on the collar and cap engageable by rotation of the collar for holding the cap closed and limiting rotation of the collar relative to the cap in one direction.

1,665,005. METHOD FOR THE SEPARATION OF M-DINITROBENZENE FROM ITS ISOMERS. HENRY J. WEILAND and IVAN GUBELMANN, South Milwaukee, Wis., assignors to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed Aug. 19, 1926. Serial No. 130,356. 7 Claims. (Cl. 260—142.)

1. The method of purifying technical m-dinitrobenzene containing other isomers, which comprises treating the technical m-dinitrobenzene with an alkali forming substance in water solution adapted to convert the other isomeric dinitrobenzenes into water soluble bodies without decomposing the m-dinitrobenzene and separating the unchanged m-dinitrobenzene.

1,665,006. STOP MOTION FOR YARN-TWISTING MACHINES. JULIUS WYSS, Watertown, Mass., assignor to New England Spun Silk Corporation, New York, N. Y., a Corporation of Massachusetts. Filed Apr. 29, 1927. Serial No. 187,453. 9 Claims. (Cl. 117—33.)



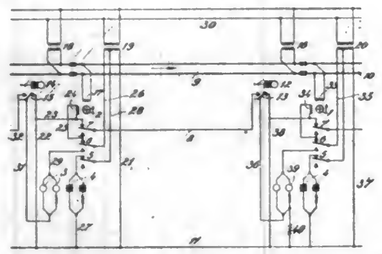
1. In a yarn twisting mechanism, the combination with a frame, delivery rolls supported therein, feeding means from which yarns are drawn to said rolls, and a bobbin for receiving said yarns from said rolls; of a stop motion device including an arm carried by said frame and having a rocking movement relative thereto, means on said arm operable by movement thereof in one direction to engage and grip the yarns at a point between said feeding means and delivery rolls to cause said yarns to be severed at said point by the action of said rolls, and means to alter the direction of feed of the yarns to the delivery rolls to prevent engagement thereof by said gripping means when said arm moves to its operative position.

1,665,007. DORINE FOR LOOSE POWDER. JAMES LESLIE YOUNGHUSBAND, Chicago, Ill. Filed Dec. 14, 1925. Serial No. 75,182. 1 Claim. (Cl. 132—83.)



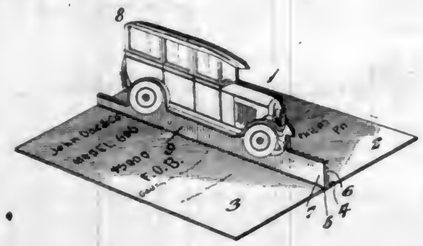
A powder applicator having a lining of resilient flexible material adjacent one face thereof adapted to hold said applicator in extended lateral position.

1,665,008. AUTOMATIC SECTION-BLOCK SYSTEM FOR RAILROADS. HERMANN ARNDT, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany, a Corporation of Germany. Filed Sept. 9, 1925, Serial No. 55,380, and in Germany Sept. 20, 1924. 5 Claims. (Cl. 246—34.)



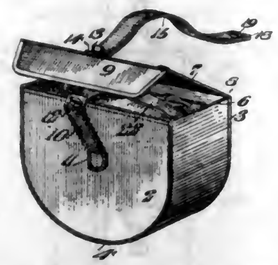
1. In a block signal system, in combination, a railroad track subdivided into individual block sections by insulating joints, a signalling device provided at the beginning of each of said sections and consisting of stop lamps and go ahead lamps, a relay for controlling the circuits to said lamps and adapted to receive current on the one hand through the rails of the block section and on the other hand from an auxiliary phase which when the armature of said relay has dropped off is connected in series with the stop lamps of the preceding block section, contacts upon the armature of said relay adapted to light up the stop and go ahead lamps respectively by their make and break, a source of alternating current adapted to supply the current for operating said relay and said signal lamps, line conductors adapted to connect said source of current with the two phases of the relay and the signal lamps, and line conductors between said signal lamps and relay contacts.

1,665,009. ADVERTISING DEVICE. HARRY S. C. BACON, Philadelphia, Pa., assignor to E. S. Edmondson Company, Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 7, 1927. Serial No. 181,705. 1 Claim. (Cl. 40—126.)



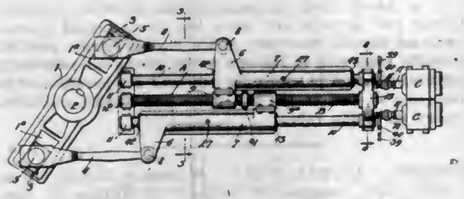
A device of the character stated, comprising a pair of rectilinear leaves forming in opened or display position a flat rectilinear base and arranged to be folded one upon the other book-fashion in non-display position, the folding points of each leaf being creased and bent to form a longitudinal continuous, relatively rigid flange throughout the entire length of each of the leaves, which in the open position of said leaves is self-supporting and is arranged at right angles thereto, means for securing said flanges together, and a representation of an article to be advertised extending from said flanges so as to be vertically positioned in the flat, opened position of said leaves, the latter when open extending rectilinearly in every direction at right angles to and forming a stable support, for said flanges and the display, said leaves being of greater area than said flange and its display, so as to enclose and protect the latter when said leaves are folded book-fashion.

1,665,010. LADY'S HAT BAG. HUGO BAROL, Philadelphia, Pa. Filed Mar. 4, 1926. Serial No. 92,157. 1 Claim. (Cl. 206—8.)



A device of the character stated consisting of a body having front and rear walls which are flat and which are arranged in parallelism, side walls which are flat for a portion of their extent and which terminate in a rounded bottom, a flat, rectilinear covering lid, a foldable flap on the lid, for engaging over the flat, front face of said body, means for fastening the flat, rectilinear part of said lid upon the top of said body comprising a front strap having its lower and fixedly secured to the said flat, front wall, a stud on the upper front flat part of said lid adapted to be engaged by an eye in the upper end of said front strap, a base supporting said stud, and a carrying strap detachably secured at each end and having its front end attached to the front end of said cover by the base carrying said stud, the rear end of said carrying strap being connected with the rear end of said lid, said carrying strap extending transversely of said flat, rectilinear lid.

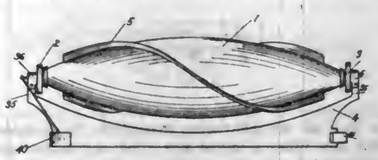
1,665,011. STEERING MECHANISM FOR VESSELS. GEORGE EUGENE BARRETT, New York, N. Y., assignor to Lenher Engineering Company, New York, N. Y., a Corporation of New Jersey. Filed July 28, 1927. Serial No. 208,920. 9 Claims. (Cl. 114—157.)



1. In mechanism of the class described, the combination with a rudder cross-head, of parallel guide rods, a right and left hand screw shaft between the rods, means for supporting the rods and screw at one end, a housing for enclosing and supporting the opposite ends of the rods and screw, elongated sliding sleeves on the guide rods having internally threaded members that engage the screw and having also projecting arms, links pivoted to said arms and to the cross-head, gearing within the housing, and a dual power mechanism for actuating the gearing, together with means for throwing either half of said power mechanism out of action.

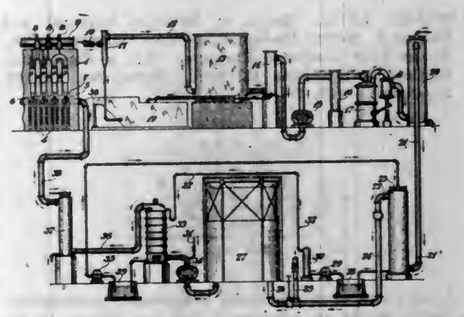
1,665,012. SPIRAL ROTARY SHIP OR SIMILAR VESSEL. JOSEPH C. BECHARD, Fall River, Mass. Filed Oct. 21, 1927. Serial No. 227,794. 4 Claims. (Cl. 115—20.)

1. A boat comprising an imperforate shell, a keel, said shell being mounted for axial movement on said keel, concentric sleeves at each end of said shell, said shell being secured to the outer sleeve and being adapted to turn therewith, a driving means on said outer sleeve at one end of the shell, bearing members on the outer sleeves, longitudinal truss members rotatably mounted on



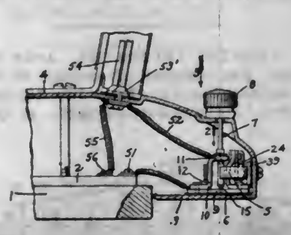
said bearing members, a cross truss means for holding said inner sleeve away from said outer sleeve, said inner sleeve being secured to the keel, and driving means secured to said tubular member for rotating said shell.

1,665,013. GAS PURIFICATION. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, a Corporation of Delaware. Filed Jan. 22, 1927. Serial No. 162,706. 18 Claims. (Cl. 23—3.)



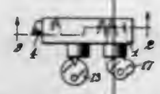
2. The process of gas purification which comprises transferring impurities from the gas to a liquid, and subsequently transferring said impurities from said liquid to a portion of the purified gas.

1,665,014. THERMOSTATIC CURRENT CONTROL. OTTO Q. BECKWORTH, Los Angeles, Calif. Filed July 9, 1925. Serial No. 42,480. 20 Claims. (Cl. 200—138.)



1. A thermostatic current control device comprising in combination a deflectable conducting bar having a conducting end, a contact suitably positioned to engage therewith, a thermostatic strip, a loose draw pin connecting the bar and strip to allow movement of the strip independent of the bar to a desired extent, the movement of the strip on increase of temperature through the medium of the pin moving the bar to break the contacts, and actuating means independent of the operation of the thermostatic strip and independent of the physical characteristics of the conducting bar to return the conducting bar into contacting position on cooling of the thermostatic strip.

1,665,015. LOCK. EDGAR M. BENHAM, Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky., a Corporation of Ohio. Filed June 12, 1926. Serial No. 115,441. 1 Claim. (Cl. 70—72.)



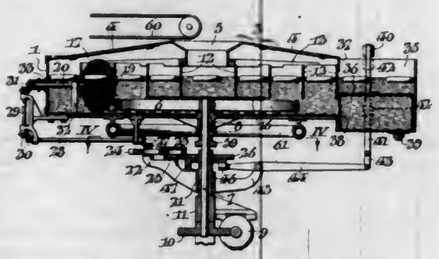
In a lock of the character described, in combination, a master key tube, a guard key tube, a tumbler pivoted approximately at its midpoint intermediate said key tubes and having an obstructing portion normally positioned closely adjacent the front of the master key tube, whereby full movement of a master key into the master key tube is prevented, said tumbler having a portion adjacent the top of the guard key tube engageable by a guard key in the guard key tube, whereby said tumbler may be pivoted to withdraw said obstructing portion thereof out of the path of movements of a master key into the master key tube.

1,665,016. LOCK. EDGAR M. BENHAM, Norwood, and GEORGE J. BAUER, Madisonville, Ohio, assignors to The Mosler Lock Company, Covington, Ky., a Corporation of Ohio. Filed June 12, 1926. Serial No. 115,443. 21 Claims. (Cl. 70—72.)



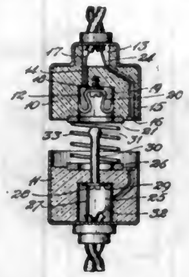
1. In a lock of the character described, in combination, a casing having an aperture, a bolt bar slidable in the casing, a guard tumbler for dogging the bolt bar, a special tumbler having a key designating mark positioned to be invisible through said aperture in the normal position of the tumbler, said tumbler being movable into position exposing said mark at said aperture, said guard tumbler being movable by means of a key independently of said special tumbler, and said guard tumbler being movable and said special tumbler being disposable into position exposing the mark at the aperture simultaneously by means of another key.

1,665,017. COOKING APPARATUS. JOHN C. BERGNER, Lansdowne, Pa., assignor of one-half to Frank Ellis Morris, Philadelphia, Pa. Filed July 10, 1919. Serial No. 309,899. Renewed July 30, 1927. 21 Claims. (Cl. 53—7.



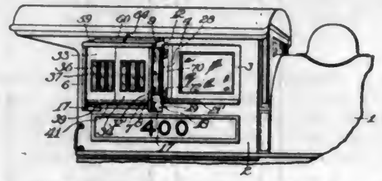
1. A cooking apparatus comprising a receptacle or pan for a cooking fluid; and means for whirling the liquor in a gyratory course to convey the articles to be cooked through the apparatus.

1,665,018. ELECTRIC SWIVEL SOCKET. PERCY SCOTT BLACK, Fort Worth, Tex. Filed Apr. 25, 1927. Serial No. 186,394. 2 Claims. (Cl. 173—343.)



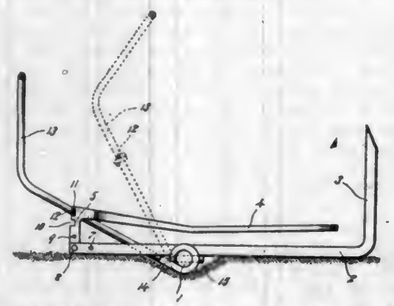
1. In an electric connector, a pair of body members of insulating material each having a central recess, contact rings arranged opposite each other on the confronting faces of said body members, a spring member having one end fixed to one body member and engaging the contact ring carried thereby, said spring being positioned to engage the other contact ring upon assembly, and a pair of axially disposed contacts one of which is disposed within the recess of one body member and the other of which is carried by the other member and, projects through said contact rings to engage the first axially disposed contact.

1,665,019. LOCOMOTIVE-CAB-WINDOW PROTECTOR. JACOB C. BOYLE, Indianapolis, Ind. Filed Jan. 31, 1927. Serial No. 164,791. 9 Claims. (Cl. 20—40.)



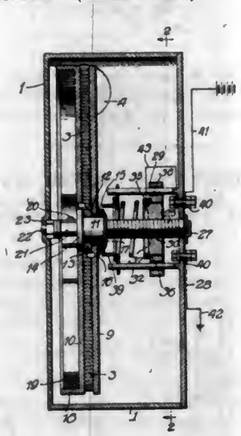
1. A knock-down locomotive cab window protector having two opposite end parts and doors hinged thereto and also flexible front part and a flexible bottom part removably connected to the end parts, means for removably securing the end parts to the cab, and a separate roof to rest on the tops of the end parts and having means to secure it to the cab.

1,665,020. ANIMAL TRAP. WINFIELD CATLIN, Rockville, Ind., assignor of one-half to William N. Cox, Bloomingdale, Ind. Filed Sept. 28, 1926. Serial No. 138,213. 14 Claims. (Cl. 43—82.)



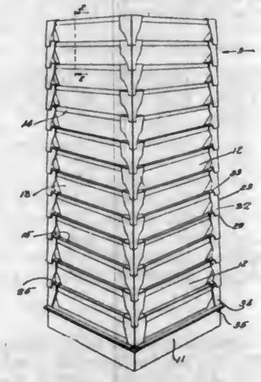
1. An animal trap comprising a pivot bar, a rod extending across and connected to the bar and terminating in a jaw at one end, a trip pivoted to the other end of the rod, a spring-stressed jaw engaging the pivot bar to swing about the axis thereof to move to a trapping position relative to the other jaw, and means releasably engaged by the trip for retaining the jaws open.

1,665,021. AUTOMATIC ELECTRIC SWITCH FOR CABLE-CARRYING DRUMS. JOSEPH H. COHEN, Bridgeport, Conn. Filed Nov. 3, 1923. Serial No. 672,630. 4 Claims. (Cl. 200—153.)



1. A take-up device for current-carrying cables, comprising a current carrier take-up drum on which the cable is wound and to which the cable is electrically connected, the drum having a contact member forming a necessary structural part of it; and a cooperating contact member disposed axially of the drum and adapted to carry current and movable toward and from the drum in a direction parallel to the axis thereof through the rotation of the drum to electrically engage and disengage the said contact member which forms a necessary structural part of the drum.

1,665,022. COOLING TOWER. EDWARD W. COOK, Los Angeles, Calif., assignor of one-half to Edward I. Field, Los Angeles, Calif. Filed Apr. 27, 1927. Serial No. 187,016. 11 Claims. (Cl. 189—12.)



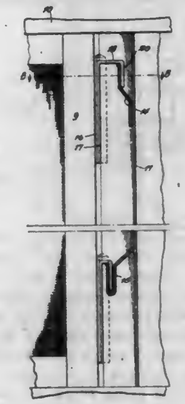
1. A cooling tower having a plurality of louver units, corner structures connected to each unit, said corner structures of an upper unit resting on a unit next below.

1,665,023. SMOKER'S MOUTHPIECE. ADOLF GANZFRIED and WILLIAM B. CLARY, Los Angeles, Calif. Filed July 21, 1926. Serial No. 123,893. 2 Claims. (Cl. 131—10.)



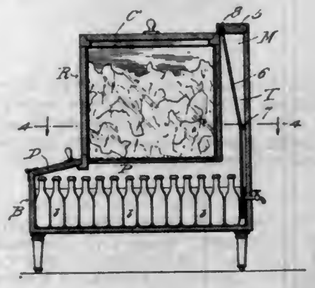
1. A smoker's appliance comprising in combination, a cylindrical stem having a mouth piece at one end and a cigarette holder fixedly secured at the other end, a series of connecting grooves on the peripheral surface of the stem, said grooves being connected to smoke passages through the mouth piece and to the cigarette holder, screw threads at the holder end of the stem, and a sleeve insertable over the mouthpiece and the stem and screwed on said threads.

1,665,024. DOOR, SASH, AND SCREEN. CHARLES F. GESCHICKTER, Washington, D. C. Filed Dec. 24, 1925, Serial No. 77,652. Renewed Aug. 29, 1927. 4 Claims. (Cl. 16—149.)



1. A hanging stile for doors, screens and sash, comprising a substantially U shaped stile, one side member of which is longer than the other, to function as a blind stop, and hinge engaging and sustaining hooks secured to and entirely positioned within said stile.

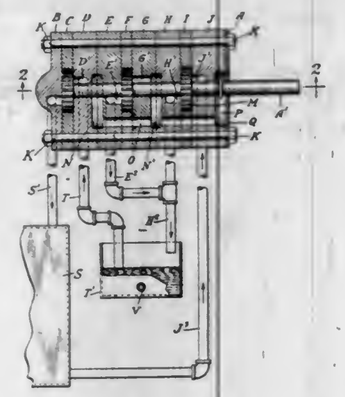
1,665,025. BOTTLE-HANDLING MEANS. SIDNEY C. GILBERT, Jackson, Ohio. Filed Dec. 27, 1926. Serial No. 157,354. 4 Claims. (Cl. 312—36.)



1. In a bottle handling machine, a passage to contain a plurality of bottles, said passage having an end accessible for removal of bottles and being provided at a

remote point with a bottle inlet, a support along which a bottle may be moved to said inlet, a slidable cover for said inlet disposed in the path along which the bottle is moved on said support, whereby said slidable cover may be forced open by pushing the bottle against it, and means connected with and actuated by said cover for automatically advancing the passage-contained bottles toward said accessible end of the passage each time said cover is opened.

1,665,026. APPARATUS FOR MAINTAINING UNIFORM OIL LEVEL. ALBERT E. GRANT, New York, N. Y. Filed June 10, 1927. Serial No. 197,834. 4 Claims. (Cl. 103—1.)



1. In combination, a main reservoir, an auxiliary reservoir, two pumps driven in unison, one of which draws oil from the main reservoir and delivers to the auxiliary reservoir and the other of which draws oil from the auxiliary reservoir and delivers to the main reservoir, the inlet to said last named pump being located at the height in said auxiliary reservoir at which the oil lever is to be maintained.

1,665,027. MOLD FOR FORMING CONCRETE PLANT PROTECTORS. JAMES H. HALEY, Jackson, Mich. Filed May 17, 1927. Serial No. 192,013. 10 Claims. (Cl. 25—124.)



1. Means for forming a concrete plant-protector in the ground comprising a mold of a shape to correspond approximately with the shape of plant-protector to be produced and having a plate to pack the top surface of the ground around the opening formed by the mold.

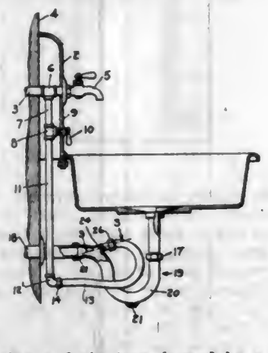
1,665,028. SUPPORT FOR FLEXIBLE DOORS OF KITCHEN CABINETS. AXEL I. S. HALVORSEN, Albany, Ind., assignor to McCormick Brothers Company, Albany, Ind., a Corporation of Indiana. Filed Jan. 25, 1927. Serial No. 163,408. 1 Claim. (Cl. 312—190.)

A support for doors composed of flexibly connected slats, comprising a metal disk having an arcuate flange extending around the greater part of its circumference and having a rib extending from one end of the flange inwardly on the disk past the other end of the flange and thence parallel with the flange for only a part of the



length of the latter, said rib and flange constituting guides for the door, the central part of the disk being unobstructed to permit the door to coil upon itself.

1,665,029. COMBINATION WATER FAUCET AND SINK TRAP. HENRY J. HARTNETT, Los Angeles, Calif. Filed Apr. 13, 1925. Serial No. 22,919. 1 Claim. (Cl. 182—22.)



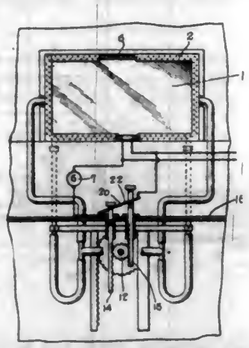
A sink having a drain trap formed by a conduit extending downwardly from the bottom of the trap, then upwardly and then horizontally, a water supply for the sink, a valve controlled conduit leading from the water supply to the trap, said conduit being located at the point where the upwardly extending portion of the trap bends into the horizontally extending portion and being so arranged as to discharge water in the direction of out-flow from the trap substantially in the center of a horizontal portion of the trap, and a nozzle mounted in the conduit forming the trap through which the water discharges to materially increase its velocity.

1,665,030. BUNION CORRECTOR. MARCELL HARTWIG, Los Angeles, Calif. Filed Dec. 20, 1926. Serial No. 155,940. 3 Claims. (Cl. 128—81.)



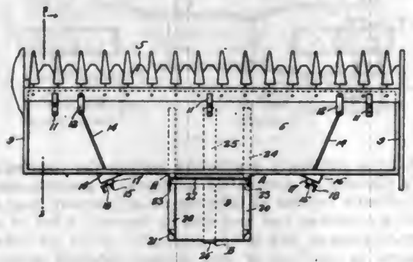
1. A bunion corrector comprising a resilient flexible structure having a toe stall at one end, a heel gripping device at the other end, said heel gripping device having flexible parts engaging around the back of the heel and with a web passing underneath the heel, said parts being joined by a strap portion fitting along the inside of the foot and conforming partly to the arch of the foot.

1,665,031. WINDOW CLEANER AND CLEARER. KARL HERMAN, Chester, Pa. Filed Sept. 20, 1927. Serial No. 220,759. 7 Claims. (Cl. 20—40.5.)



1. In combination with a window, a blast nozzle, a supply pipe communicating with said nozzle, a valve in said supply pipe, a heating element, and a control for said heating element actuated by said valve.

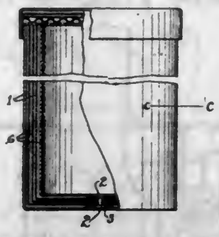
1,665,032. ATTACHMENT FOR MOWERS. ANDREW J. HOLLAND, King City, Mo. Filed Oct. 9, 1926. Serial No. 140,506. 1 Claim. (Cl. 56—207.)



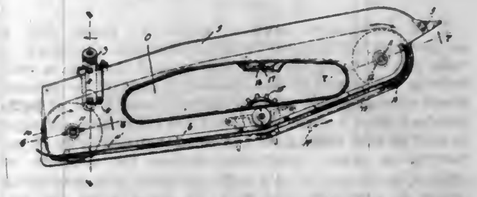
An attachment of the class described comprising a bottom having an offset forward edge to extend under a cutter bar of a mower, a plurality of substantially Z-shaped brackets attached to the bottom to extend over the cutter bar, sides rising from the bottom, a back rising from the bottom, links engaged with the cutter bar, rods engaged with the links, blocks in the back having openings through which said rods project, nuts threaded on the rods and having cranks so that they may be tightened against the block, an extension formed on the rear edge of the bottom to the rear of the back, a pair of L-shaped bars having their vertical arms secured to the rear surface of the back and their horizontal arms secured to the under surface of the bottom, said vertical arms projecting above the back and merging into downwardly and rearwardly inclined extensions, a third L-shaped bar having its horizontal portion extending along the under surface of the bottom and its extension, and having its vertical arm rising at the rear edge of the extension and being shorter than the first-mentioned vertical arm.

1,665,033. INSULATED CONTAINER. SOREN K. JENSEN, Wichita, Kans. Filed Apr. 30, 1926. Serial No. 105,828. 1 Claim. (Cl. 229—5.5.)

In an insulated container, a cylindrical container comprising smooth sheets and corrugated sheets alternately connected by adhesive substance, pointed portions extending from one edge and having a lateral bend so that the outer points thereof will meet in the center to form a bottom, a disc to engage on both sides of the points, and a pin centrally connecting the discs as binding and aligning means for the points, a smooth covering for the inside and outside of the bottoms, all as, and for the purpose described.

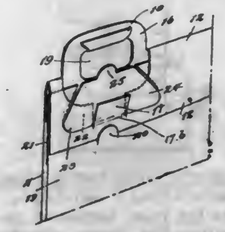


1,665,034. GATHERER. GEORGE C. JETT, Milwaukee, Wis., assignor to Runge Corn Harvester Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 10, 1923. Serial No. 679,817. 6 Claims. (Cl. 56—88.)



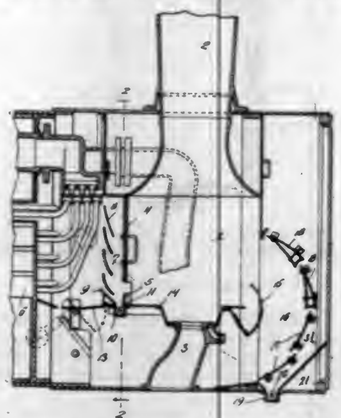
1. A gathering mechanism for corn harvesting machines comprising two elongated units cooperating to provide a corn passage therebetween, a supporting wheel for each unit, means for rockably connecting each unit to a harvesting machine, cooperating stalk feeding means on said units, and driving connections between said wheels and said feeding means.

1,665,035. PARCEL BAG. CHARLES P. KLEEBAUER, Cohoes, and ROBERT M. LACKEY, Waterford, N. Y., assignors to Cohoes Envelope Co., Inc., Cohoes, N. Y., a Corporation of New York. Filed Mar. 2, 1925. Serial No. 12,519. 3 Claims. (Cl. 229—68.)



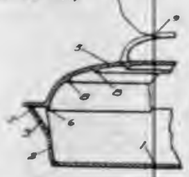
1. A bag as characterized having a front, a back, and a closure flap integrally formed with said front, said front, back and flap having reinforced coordinating sections, and means for locking said flap in service, said means embodying a dart partially severed from the reinforced section, of said back, said dart having laterally extending wings, and said flap having an aperture formed therein, said aperture having a relatively narrow recess, offset from said aperture; and means for drawing said dart into and through said recess to permit said wings overlapping the body of said flap adjacent said recess; and a guard member normally closing said recess for engaging said dart to hold the same in locking position.

1,665,036. SPARK ARRESTER. ROBERT E. MARTIN, Sheridan, Wyo., assignor of three one-hundredths to Louis L. Livingston and one-twentieth to Edward G. Livingston, Sheridan County, Wyo. Filed Mar. 8, 1926. Serial No. 93,299. 3 Claims. (Cl. 110—122.)



2. In combination with a locomotive smoke box, a smoke stack, a chamber in communication therewith, a baffle plate defining the rear wall of said chamber, a wall defining the bottom of said chamber, a conduit for exhaust steam extending through said bottom wall, a set of baffle members spaced apart one above the other and arranged in rear of said baffle plate and separated therefrom by an intervening space, conducting means for products of combustion in rear of said baffle members, said conducting means in communication with the space below the bottom wall of the chamber, a curvilinear wall at the forward portion of the bottom wall of the chamber and forming a part of the front of the chamber and also defining the rear wall of an arcuate passage connecting the space below the bottom wall of the chamber and the forward portion of said chamber, and an arcuate set of spaced baffle members defining the forward wall of said arcuate passage.

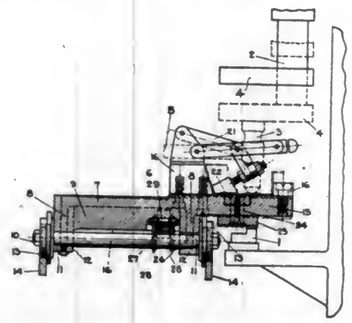
1,665,037. SKILLET. CHARLES A. MASSINO, Millcreek Township, Erie County, Pa., assignor to The Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 21, 1925. Serial No. 76,605. 1 Claim. (Cl. 53—7.)



The combination of a skillet having a pouring lip; and an imperforate cover having a surrounding rib extending downwardly along the inner surface of the wall of the skillet and a surrounding flange extending outwardly from the rib, the flange having a contour and width relatively to the pouring lip sealing the pouring lip with the cover turned in any position circumferentially on the skillet.

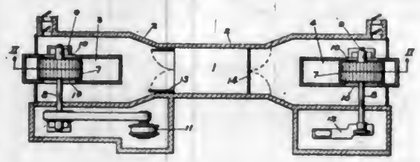
1,665,038. ELECTRIC WELDING MACHINE. JOSEPH W. MEADOWCROFT, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 7, 1925. Serial No. 73,564. 11 Claims. (Cl. 219—4.)

1. In an electric spot welding machine, the combination with the fixed and movable electrodes thereof, of a track extending transversely with respect to said electrodes, and a work-supporting carriage running on said



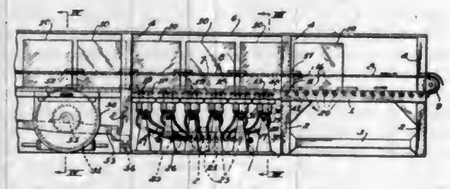
track in a path extending across and between said electrodes and adapted with the work to close the welding circuit therebetween.

1,665,039. VENTILATING APPARATUS. WILLIAM J. MONTGOMERY, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 28, 1922. Serial No. 597,669. 5 Claims. (Cl. 98—50.)



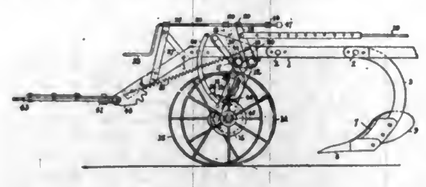
1. In a stationary ventilating system, the combination of a plurality of alternately independent operable means individually capable of inducing an air current in a vertical air passage and arranged on opposite sides of said vertical passage, and means responsive to an air current induced by any one of said current inducing means to prevent flow of air through another of the inducing means.

1,665,040. MACHINE FOR ROUNDING THE EDGES OF GLASS SHEETS. WILLIAM OWEN, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Apr. 8, 1926. Serial No. 100,652. 2 Claims. (Cl. 51—3.)



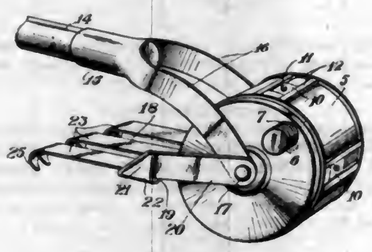
2. A machine for rounding the edges of glass sheets, comprising an abrading wheel provided with a plurality of circumferential grooves, a corresponding plurality of pairs of roughing wheels, arranged in series in staggered relation, in advance of the grooved wheel, and means for supporting and carrying a plurality of sheets of glass in parallel relation over the roughing wheels and then over the grooved abrading wheel, the members of each pair of roughing wheels having their axes of rotation on opposite sides of the line of travel of the sheet and arranged so that the cutting surface of one of each pair of roughing wheels engages one of the corners at the edge of the sheet, and the cutting surface of the other wheel of the pair engages the other corner at such edge of the sheet.

1,665,041. PLOW. MAURICE PLANESS, Alger, France. Filed May 23, 1924, Serial No. 715,468, and in France Sept. 4, 1923. 3 Claims. (Cl. 97—72.)



1. In plows having two wheel axles, the combination with the main frame, of a power lift mechanism adapted to be operated by the traction pull of the tractor and comprising a crank disk rotatably mounted on one of the wheel axles, a crank arm, a trunnion operatively connecting the said crank arm with said crank disk, a casing fixed on the said wheel axle and being closed by said crank disk, a wheel journalled on said axle, the hub of said wheel forming a bearing for said crank disk, teeth formed on said hub inside said casing, a pawl pivotally carried by said crank disk and adapted to engage said teeth, a toothed disk rotatably mounted on said axle, a spring connecting the said toothed disk and the said pawl, a spring-controlled lever cooperating with said pawl and toothed disk for coupling the said wheel with the said crank disk so as to cause the latter to rotate with the said wheel, thereby lifting the plow through the medium of the said crank arm, and means for releasing said pawl permitting the free rotation of said wheel.

1,665,042. SEEDER. TEMPLE RICHARDS, Glace Bay, Nova Scotia, Canada. Filed May 18, 1926. Serial No. 109,910. 2 Claims. (Cl. 111—74.)



1. Seed covering devices for a seeder including the combination with the seeder axle, of a body formed of a strip of metal having its ends doubled back on itself diagonally to lie at right angles in the same plane, and then bent vertically, just within the diagonal fold, into a plane at right angles to the body; the said ends of the body being mounted on the ends of the seeder axle; and a rearwardly extending tine carried on the said body.

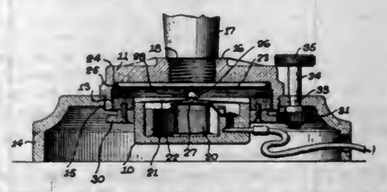
1,665,043. CONVERTIBLE TOY. WALTER E. STARK, New York, N. Y. Filed Dec. 30, 1926. Serial No. 157,978. 8 Claims. (Cl. 46—40.)

1. A convertible toy comprising a duplex body part, a duplex head part, and a duplex base part, the base part forming two supports on each of which the toy may be supported in an upright position, the whole outline of the toy in side elevation being formed to represent one creature when set on one support and formed to repre-



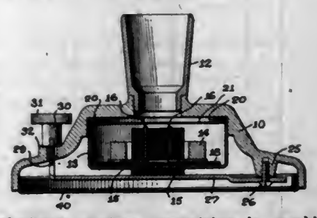
sent another and different creature when set on its other support, each support part constituting the feet of one creature and the tail of the other.

1,665,044. SOUND-REPRODUCING DEVICE AND ADJUSTING MEANS THEREFOR. SWEN R. SWENSON, South Orange, N. J., assignor to Multiple Electric Products Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 26, 1924. Serial No. 734,213. 12 Claims. (Cl. 179—116.)



9. A loud speaker comprising in combination, a casing and cap therefor, an electromagnet and diaphragm mounted within said casing and cap and relatively movable toward and away from each other upon relative rotation of said casing and cap in opposite directions, a base to which said cap is secured and surrounding said casing, and means operable from the exterior of said base for causing relative rotation of said casing and base, said last mentioned means comprising a gear secured to said casing.

1,665,045. TELEPHONE RECEIVER. SWEN R. SWENSON, South Orange, N. J., assignor to Multiple Electric Products Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 23, 1925. Serial No. 4,139. 3 Claims. (Cl. 179—115.)

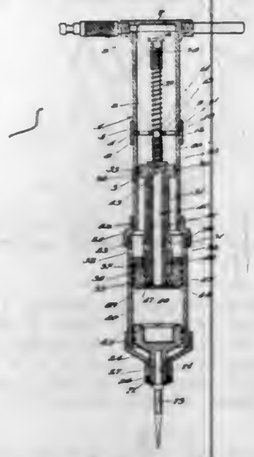


1. A telephone receiver comprising in combination, a diaphragm, means comprising an electromagnet for vibrating said diaphragm, an elastic compressible annulus in engagement with the periphery of said diaphragm on the side thereof opposite said electromagnet, and means for compressing the outer portion of said annulus to move the central portion of said diaphragm toward said electromagnet.

1,665,046. PNEUMATIC HAMMER. RALPH H. TUCKER, Los Angeles, Calif. Filed Oct. 29, 1924. Serial No. 746,555. 5 Claims. (Cl. 121—30.)

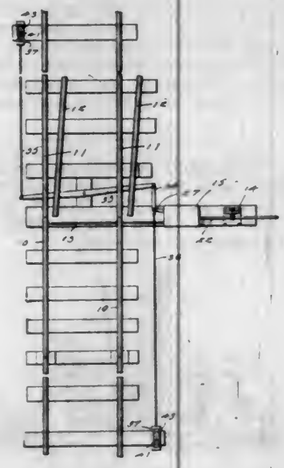
1. A pneumatic hammer comprising in combination a piston, a hammer connected thereto, a casing, a valve

in the piston to admit compressed air from the back of the piston to the front of the hammer, a valve in the hammer to conduct air from the front of the hammer to the rear of the hammer, means connected to the casing



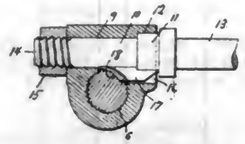
to operate the valve, ports in the casing to exhaust air from the rear of the hammer, and an anvil having a recess in the casing positioned to be struck by the hammer, the recess forming an air space adjacent the face of the hammer when the blow is struck.

1,665,047. SWITCH-OPERATING MECHANISM. WASHINGTON I. WANDS, Fairbury, Nebr. Filed Sept. 1, 1927. Serial No. 216,922. 14 Claims. (Cl. 246—410.)



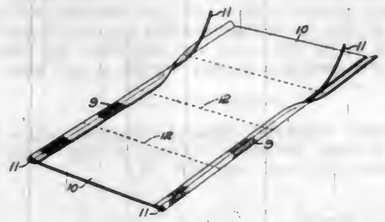
1. In switch operating mechanism, movable switch points shiftable to "main line" or "siding" positions, a bar connected with said switch points and spring-pressed to maintain the switch points in "main line" position, a manually operable lever, a pivoted arm connected with said lever and having latching engagement with said bar whereby the bar may be shifted to "siding" position and maintained against return movement under the influence of its spring, means for disengaging the arm from the bar to permit movement of the bar to "main line" position and actuating mechanism for said means including a trip operable by the rolling stock passing over the right-of-way.

1,665,048. BATTERY TERMINAL. ALBERT W. WEIMER and JACOB F. SMITH, Geneseo, Ill.; said Weimer assignor to Walter Parson, Geneseo, Ill. Filed Jan. 3, 1927. Serial No. 158,718. 1 Claim. (Cl. 173—259.)



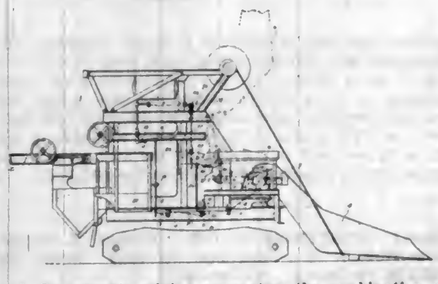
A battery terminal of the class described including a body, one portion of which is provided with a bore extending at right angles to a bore provided in the other portion thereof, a recess extending from the second bore to the first bore and communicating therewith at its inner end, a shank extendable into the second bore and having a locking element movable in the recess and adapted to bite into a battery post in the first bore, said first bore being provided with a plurality of teeth on its interior surface, said second bore being counter-sunk at one end and said shank being enlarged to be received in said counter-sunk end, the other end of the shank being provided with a thread and a nut on said threaded end to draw the shank into the second bore causing the locking element to bite into the battery post, the edge of said element being provided with a plurality of teeth adapted to bite into the post.

1,665,049. BOOKBINDING AND METHOD OF PRODUCING THE SAME. ROY C. BAKER, Quincy, Mass. Filed Oct. 30, 1922. Serial No. 597,738. 14 Claims. (Cl. 281—23.)



1. The art of binding books, characterized by attaching head-bands to a back-lining, and subsequently attaching the back-lining to the book signatures.

1,665,050. WATER, POWER, AND SPEED CONTROL MECHANISM FOR CONCRETE-MIXING AND SIMILAR MACHINES. CHARLES F. BALL, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 13, 1927. Serial No. 183,409. 14 Claims. (Cl. 83—73.)



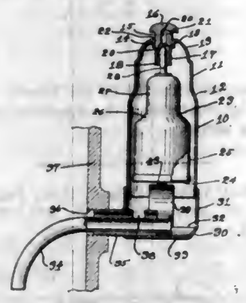
1. In concrete mixing apparatus, the combination with a motor for driving the same and a charging device therefor, of means for causing acceleration of the speed of the motor during the charging operation.

1,665,051. METHOD OF PACKAGING STAPLES OR THE LIKE AND PACKAGE PRODUCED THEREBY. THOMAS A. BRIGGS, Providence, R. I., assignor to Boston Wire Stitcher Company, Portland, Me., a Corporation of Maine. Filed Oct. 1, 1925. Serial No. 59,894. 2 Claims. (Cl. 1—56.)



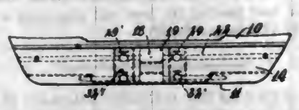
1. As a new article of commerce, a staple package constituted by a strip of relatively thin sheet-material such as paper folded along its longitudinal edges to form downwardly extending marginal portions, a series of substantially U-shaped staples straddled across the top of the strip in contiguous relation with their sides in contact, and a coating of adhesive applied over the staples to cement them in place while adapting the strip and coating to be readily broken to allow the detachment of the individual staples as they are applied to the work.

1,665,052. RADIATOR VALVE. WILLIAM H. CADWELL, New Britain, Conn. Filed Sept. 13, 1926. Serial No. 135,026. 6 Claims. (Cl. 236—63.)



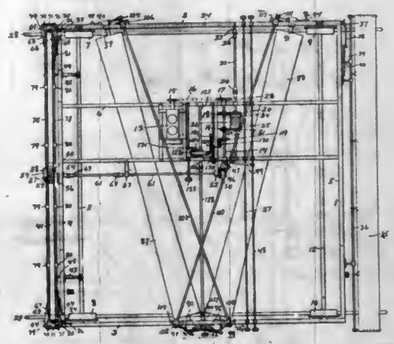
1. An outlet plug for the top of a radiator air valve, said plug having a head and a tubular stem adapted to extend within said valve, and forming a seat for a valve-closing member, said plug having a laterally extending passage communicating with the outer atmosphere, and means on said plug for protecting the outer end of said passage from dust or injury.

1,665,053. PROPELLING MECHANISM FOR BOATS. CARLOS CARPIO, New York, N. Y. Filed Aug. 1, 1927. Serial No. 209,750. 2 Claims. (Cl. 115—14.)



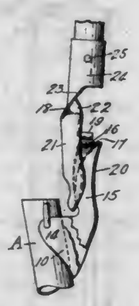
1. A boat of the class described comprising a hull having spaced apart parallel channels in the bottom thereof at both ends thereof, discharge nozzles extending through apertures in the bottom of said boat and disposed in said channels, a pump mounted in said boat, discharge pipes communicative with said nozzles and with said pump, a plurality of supply pipes extending through apertures in the ends of said boat and communicative with said pump adapted to draw in water when said pump is operated, said discharge nozzles being adapted to discharge water rearwardly for forcing said boat forwardly and valves in said discharge and supply pipes adapted to be manipulated for causing water to be discharged from diagonally opposite nozzles to rotate said boat.

1,665,054. FINISHING MACHINE. EDWARD G. CARR, Chicago, Ill., assignor to The Lakewood Engineering Company, Lakewood, Ohio, a Corporation of Ohio. Filed May 21, 1923. Serial No. 640,416. 8 Claims. (Cl. 94—95.)



1. In a finishing machine, the combination with a frame, of a spreading templet, means to reciprocate the spreading templet longitudinally, and means for tilting the spreading templet.

1,665,055. BAIL-ATTACHING MEANS FOR LANTERNS AND THE LIKE. ROBERT A. CURRIE, Syracuse, N. Y., assignor to R. E. Dietz Company, New York, N. Y. Filed June 22, 1927. Serial No. 200,607. 7 Claims. (Cl. 220—94.)

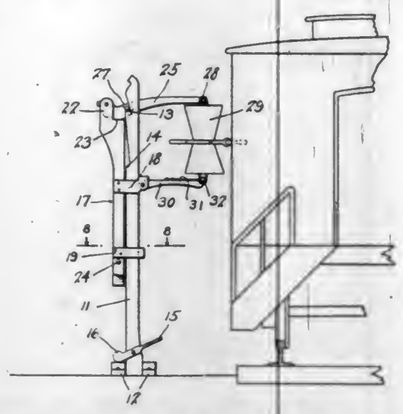


1. The combination with an article having a bail ear provided with upwardly projecting channel-shaped portions and having inbent portions with spaced transversely extending parts at the upper end of the ear, of a bail having a metal bail end formed to seat in the channel of the companion bail ear, a stud on one of said members entering a hole in the other member, said bail end having a part formed to nest in and be held from lateral movement in the channel of the bail ear below the stud, and having an integral portion above the stud formed to enter between and engage said spaced transverse parts at the upper end of the bail ear.

1,665,056. RAILWAY MAIL-BAG CRANE. MARION J. DAVIS, Brinkley, Ark. Filed June 6, 1927. Serial No. 196,834. 2 Claims. (Cl. 258—23.)

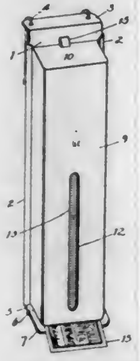
1. In a mail bag suspension crane of the class described, a standard, attaching feet at the bottom of the standard, an elongated guide at the upper end of the standard, upper and lower seats formed on said standard, a carrier slidable on said standard, upper and lower arms pivotally connected to said carrier, the upper arm

extending through said guide and being provided with a stud adapted to be selectively received in said seats, together with a foot pedal pivotally mounted on said



standard and cooperable with the lower end of the standard for lifting the carrier to dispose the stud in said lower seat.

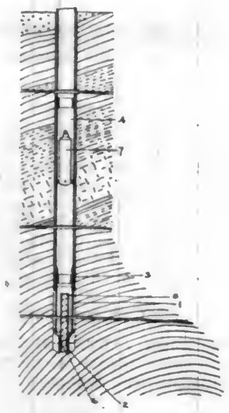
1,665,057. TICKETS HOLDER. LUCIEN GENEST, Montreal, Quebec, Canada. Filed Dec. 9, 1926. Serial No. 153,656. 1 Claim. (Cl. 312—60.)



A dispensing ticket holder comprising a base plate having a pair of longitudinal grooves, a casing adapted to contain a plurality of folded tickets and having a pair of flanges slidable in said grooves, a second plate fixed to said base plate and projecting perpendicularly therefrom at the bottom thereof to limit the sliding movement of said casing in one direction, a spring-pressed detent adapted to engage said casing to limit its sliding movement in the opposite direction, and a spring-pressed closing plate hinged to said second plate and adapted to close the lower end of said casing.

1,665,058. MEANS FOR OBTAINING DATA IN EARTH BORES. G. DALLAS HANNA, San Francisco, Calif., assignor to Associated Oil Company, San Francisco, Calif., a Corporation of California. Filed June 14, 1926. Serial No. 115,736. 11 Claims. (Cl. 33—205.)

1. An apparatus for the described purpose comprising a body adapted to be lowered into a bore hole; direction indicating means carried thereby; a member associated with said body and adapted for movement relative thereto and independent of the movement of said indicating



means; and means actuated by the inertia of said movable member for controlling the operation of said direction indicating means.

1,665,059. SNAP LINK. ORIS C. HILL, Pawtucket, R. I. Filed Nov. 29, 1927. Serial No. 236,509. 3 Claims. (Cl. 24—236.)

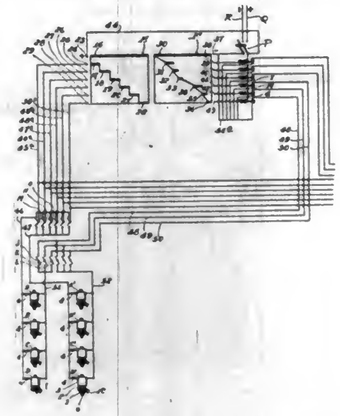


1. A link comprising a bar having one end portion relatively reduced in thickness and increased in width whereby shoulders are formed on its edges and across one side, the ends of the bar curving over the same to form hooks of different radii with the smaller hook terminating over the shoulder on the side of the bar, and a spring tongue anchored at one end on the outer side of the smaller hook and having its free end engaging against the inner side of the larger hook.

1,665,060. AUTOMATIC CONTROL MEANS FOR ELECTROMAGNETIC OPERATING DEVICES. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Feb. 5, 1927. Serial No. 166,156. 11 Claims. (Cl. 171—91.)

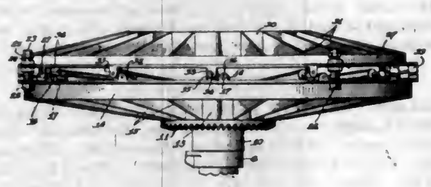
1. The combination with a plurality of electro-magnetic windings, which are to be energized and a source of electric current, of a rotating drum provided with a series of separate contact strips each extending a part of the way only around the drum, brushes engaging the strips, a plurality of circuits from said source of current each one of which passes through one of said windings and one of said strips and its brush, a manually operable cut off switch in each of said circuits, a second rotating drum provided with a series of separate contact strips of different lengths, brushes engaging said strips, and means

whereby any one of said contact strips on the second drum may be brought into any one or more of said circuits, the movements of the drums being timed so that



said circuits are maintained through the brushes, and strips of the first drum, while the brushes of the second drum are in contact with the strips on such drum.

1,665,061. ADJUSTABLE SORTING MACHINE. RUSSELL V. JUDSON, Detroit, Mich. Filed Sept. 27, 1926. Serial No. 138,081. 4 Claims. (Cl. 209—108.)



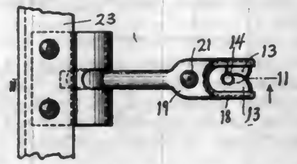
1. In a centrifugal sorting machine, a lower roll carrier, an upper roll carrier, a plurality of driven rolls in each carrier, the rolls of each carrier being disposed approximate to the rolls of the other carrier to form passes for sorting, and means for adjusting one carrier relative to the other.

1,665,062. MOLD FOR MAKING METAL PATTERNS BY ELECTRODEPOSITION. ARTHUR K. LAUKEL, Detroit, Mich. Filed Oct. 15, 1926. Serial No. 141,886. 1 Claim. (Cl. 204—6.)

As a new article of manufacture, a mold for receiving electrodeposited metal in an acid electrolyte, said mold being constructed of substantially carbonate-free plaster of Paris.

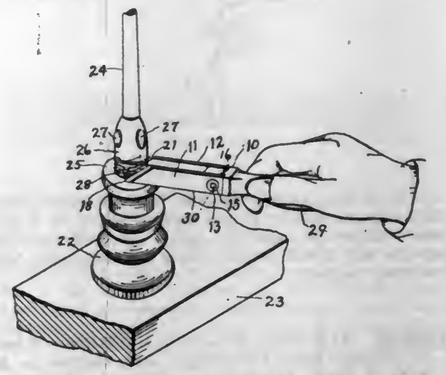
1,665,063. THREAD GUIDE FOR SPINNING AND TWISTING MACHINES. GEORGE H. MAGRATH, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass. Filed Apr. 1, 1927. Serial No. 180,118. 2 Claims. (Cl. 242—157.)

1. A thread guide comprising a pair of separable duplicate sections, each section having a rear base portion, a hook shaped front portion forming a guide eye between said portions with a slit opening into one side of said eye, a flange projecting at a right angle from said hook shaped portion, the inner side of said flange being bevelled towards the point of the hook, said sections formed into a block by combining them together in a reversed relation with each other with the base and eye on one sec-



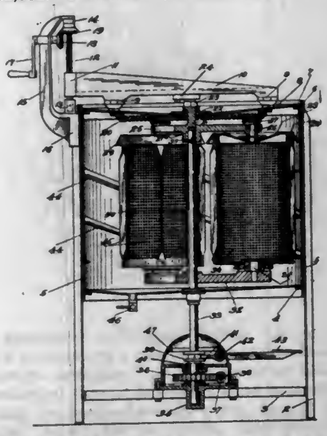
tion registering respectively with those of the other, and means for holding the sections together in a block formation.

1,665,064. TOOL FOR REMOVING WASTE FROM SPINDLES. GEORGE H. MAGRATH, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass. Filed June 17, 1927. Serial No. 199,501. 2 Claims. (Cl. 28—19.)



1. A tool for removing waste from spindles comprising a head, two parallel blades of equal length a predetermined distance apart fixed to the head, an inclined bevelled cutting edge on the front end of each blade and a handle attached to the head for manually actuating the tool.

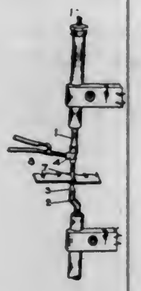
1,665,065. CENTRIFUGAL MACHINE. WILLIAM W. MALLOY, San Pedro, Calif. Filed Oct. 18, 1926. Serial No. 142,352. 8 Claims. (Cl. 210—67.)



1. In a centrifugal machine, a set of upper and lower spiders and means for driving the spiders, a set of ver-

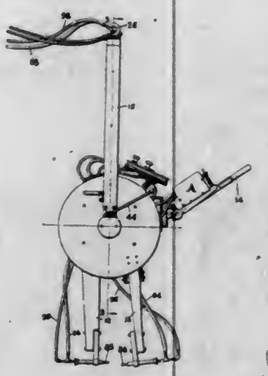
tical foraminous receivers supported by and between the spiders for rotation in an orbit, the upper spider having a set of covers for the receivers, and means on the receivers for causing a reactionary rotation of the receivers.

1,665,066. ELECTRIC WELDING MACHINE. JOSEPH W. MEADOWCROFT, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1925. Serial No. 71,039. 5 Claims. (Cl. 219—4.)



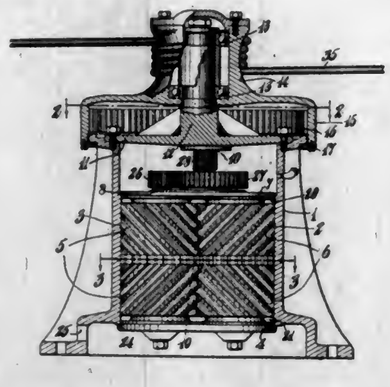
1. In a spot welding machine, the combination with the electrodes thereof having welding points, of a separate auxiliary electrode telescoping with and removably fitted to one of said welding points and cooperating with the other electrode.

1,665,067. ELECTRIC WELDING MACHINE. JOSEPH W. MEADOWCROFT, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 7, 1927. Serial No. 173,329. 7 Claims. (Cl. 219—4.)



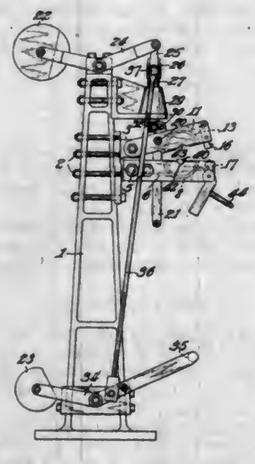
1. An electric welding apparatus comprising a pair of interconnected plate members, a transformer supported between said members, a pair of relatively movable electrode supporting arms connected to said transformer and extending beyond the peripheral edges of said plates, means for rotatably supporting said plates, transformer and arms as a unit, and means for imparting a rotative movement to said unit.

1,665,068. HAULING MECHANISM. ROBERT C. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 14, 1922. Serial No. 529,104. 6 Claims. (Cl. 254—150.)



1. A power driven capstan comprising a base casting housing a motor and provided with an upwardly extending stem and a coaxial laterally projecting annular flange, the interior of said casting comprising a motor compartment and a reduction gearing compartment, a winding drum journaled wholly on said stem and provided with an enlarged base which terminates in a cylindrical portion coaxial with said annular flange and carrying an internal gear, a flange member carried by said cylindrical portion and overlying the outer lower portion of said flange, whereby an enclosed chamber is provided, and operative connections between the motor and the drum including a gear journaled on said casting.

1,665,069. MACHINE FOR TWISTING THE EYES OF WIRE REELS. GEORGE A. PAFF, Portsmouth, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Sept. 24, 1926. Serial No. 137,478. 7 Claims. (Cl. 140—71.)



1. In a machine for twisting the eyes of wire reels, a pair of relatively movable jaws adapted for receiving

therebetween an eye portion of a reel, a pair of complemental gear segments carried by and rotatable in said jaws, and a pinion rotatably mounted on one of said jaws and operable for rotating said segments.

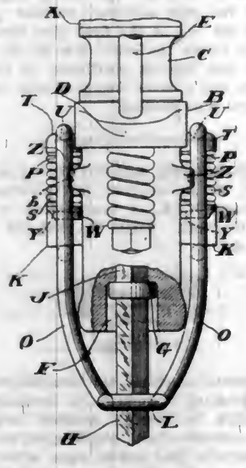
1,665,070. TIRE BEAD. ROBERT C. PIERCE, Belleville, N. J., assignor, by mesne assignments, to American Chain Company, Inc., a Corporation of New York. Filed Feb. 19, 1923. Serial No. 619,838. 22 Claims. (Cl. 245—1.5.)



4. A reinforcement for tire beads, comprising an annulus of triangular form in cross-section constructed of convolutions of woven wire tape.

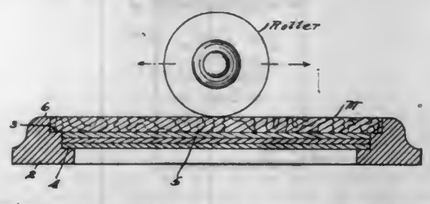
15. As an article of manufacture, a woven inextensible tape for use in reinforcing tire beads and comprising a series of lengths of different widths decreasing progressively from the base of the bead.

1,665,071. STEEL RETAINER. WILLIAM PRELLWITZ, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 12, 1926. Serial No. 147,951. 2 Claims. (Cl. 121—32.)



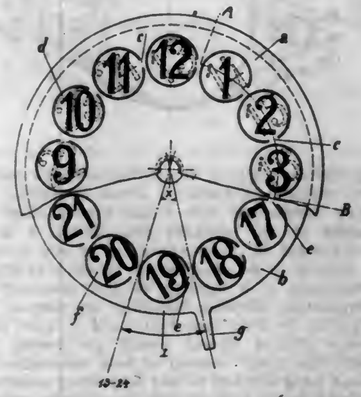
1. A drill steel retainer comprising a front head having trunnions, said trunnions having inwardly tapering bearing surfaces, bearings on said trunnions, said bearings having inwardly tapering bearing surfaces cooperating with said inwardly tapering bearing surfaces on said trunnions and having spring centering tips, springs centered on said bearings, spring seats having centering tips carried by said springs, a retainer in the form of looped resilient member embracing the drill steel, the free ends of the arms of said retainer being bent to form elongated loops embracing the trunnions and spring seats at each side of the front head, whereby the bearings on said trunnions tend to press inwardly towards the sides of the front head while the arms of the retainer swing free and clear of the front end of the front head, and retaining lugs at each side of the front head cooperating with the retainer rearwardly of the trunnions.

1,665,072. MANUFACTURE OF IMITATION-MARBLE PANELS. WILLIAM J. SCHENK, Home Gardens, Calif. Filed Mar. 9, 1927. Serial No. 174,067. 1 Claim. (Cl. 18—48.8.)



The herein described method of manufacturing a marble-like panel which consists of making a magnesite cement, building a flat body of this in layers and applying a thin sprinkling of mineral coloring powder as each layer is formed, rolling the plastic body to give a spiral form to the layers, dividing the roll cross-wise into slices, laying the slices flat upon a framed panel back, compacting the slices to approximately the plane of the frame, and finally smoothing off the top of the filling flush with the frame edge and letting harden in the frame.

1,665,073. CLOCK AND WATCH WITH TWENTY-FOUR HOUR FIGURE INDICATION. EWALD SCHWANKE, Waldshut, Germany. Filed Feb. 21, 1927, Serial No. 170,017, and in Germany Feb. 22, 1926. 3 Claims. (Cl. 58—128.)



3. Clocks and watches with twenty-four hour figure indications, comprising a front stationary dial, partly stamped out portions bent inwards forming simultaneously windows in which the hours from 1 to 12 appear,

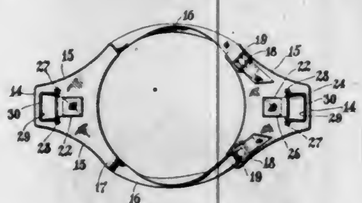
a rear displaceable dial with partly stamped out portions forming outwardly bent flaps carrying the hour indications from 13 to 24, means for displacing said rear dial in such a manner that the figure-indications of said rear dial appear in the openings of the front dial, covering the hours from 1 to 12.

1,665,074. COMBINATION ADVERTISING HANDKERCHIEF AND RADIOSCOPE. JOSEPH SHEPARD, Schenectady, N. Y. Filed June 29, 1927. Serial No. 202,308. 2 Claims. (Cl. 24—3.)



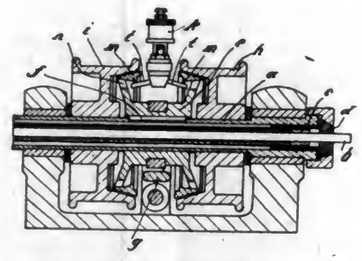
1. In a device of the class described, the combination with a handkerchief member, of a plurality of spaced tubular members extending along both sides of the lower end of the handkerchief member, a folded card having the bend at the bottom and the free ends at the top, spaced tubular members extending along each top end of the card, and aligned with the first mentioned tubular members, and removable pins engaged thru the said tubular members.

1,665,075. SANITARY BELT AND BUCKLE. OTTILIE CHARLOTTE STAHL, New York, N. Y. Filed Mar. 6, 1926. Serial No. 92,816. 1 Claim. (Cl. 128—291.)



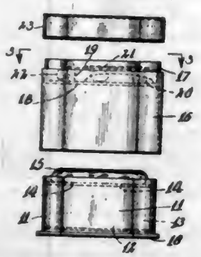
In a sanitary support, supporting members comprising a fabric material, a fastening device comprising a substantially rectangular wire frame having loops at the extremities of the rearward end thereof, a U-shaped frame journaled on the rearward end of said rectangular frame adapted to be urged in the direction of the latter by attachment of a bandage to said U-shaped frame, said supporting members including an element having a portion of its body immovably held in fixed position, the lower portion thereof having an opening therein to receive the upper crossbar of said rectangular frame, said loops being stitched to said supporting members, said rectangular frame and said U-shaped frame being substantially square at their lower ends, the squared lower portions cooperating with the upper stitched loops to prevent bunching of a bandage after adjustment on the support.

1,665,076. FRICTION DISK CLUTCH. KARL TESSKY, Esslingen-on-the-Neckar, Germany. Filed Nov. 30, 1926, Serial No. 151,718, and in Germany Dec. 17, 1925. 2 Claims. (Cl. 192—113.)



1. A friction disk clutch comprising a conical friction disk having an opening intermediate its centre and its conical circumferential surface and stationary means near said opening for supplying lubricant into said opening.

1,665,077. CONTAINER FOR COSMETICS. ANNA WILKS and EDWARD SCHEIER, New York, N. Y. Filed July 27, 1927. Serial No. 208,677. 5 Claims. (Cl. 132—83.)



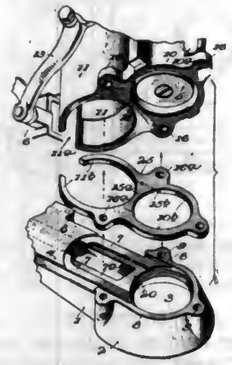
1. An article of the class described comprising a base, vertical sides secured thereto, a powder package housed by the vertical sides, a puff on the package, a pipe member, the said vertical sides being engaged within the bottom of the pipe member, another pipe member secured within the top of the first pipe member, a horizontal partition across the lower side of the second pipe member, rouge and lipstick positioned on the said horizontal partition, and a cover engaging over the top of the second mentioned pipe member.

1,665,078. TELEPHONE RECEIVER. JAMES M. WILSON, Newark, N. J., assignor to Amplitone Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1922. Serial No. 588,808. 16 Claims. (Cl. 179—116.)



1. In a telephone receiver, the combination of a normally convex primary diaphragm, a normally plane secondary diaphragm, a spacing member located at and separating the centers of said diaphragms, a receiver cup, a cover cap therefor, and means upon said cup and cap for pressing the circumferences of said diaphragms toward each other, whereby the convexity of said primary diaphragm is reduced and said secondary diaphragm is made convex.

1,665,079. CAPPING MACHINE. WILBUR L. WRIGHT, Fulton, and JOHN L. DOLPHIN, Syracuse, N. Y., assignors to Oswego Falls Corporation, Fulton, N. Y., a Corporation of New York. Filed May 18, 1927. Serial No. 192,359. 4 Claims. (Cl. 226—92.)



4. A flat plate for insertion and clamping between the bottom and top members of a capping machine in converting the machine to use handle caps, said plate having an opening to register with the vertical throat of the bottom member and an opening to register with the cap magazine, and a portion to form spaced cap stops immediately below the front portion of the bottom edge of the magazine with an intermediate free passage for the top projections of handle caps moving forward below said plate.

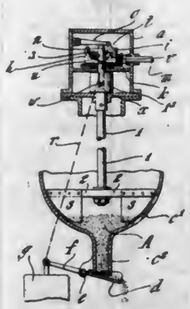
1,665,080. INDIVIDUAL TEA BAG. WILLIAM T. ABBOTT, Cambridge, Mass. Filed Jan. 14, 1928. Serial No. 246,845. 6 Claims. (Cl. 53—3.)



1. A stirring tea bag comprising a bag adapted to hold an individual portion of tea, and a normally rigid, bendable stirring shank secured at one end to the mouth of the bag.

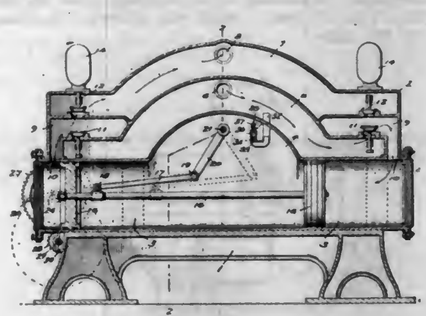
1,665,081. VALVE MECHANISM FOR CONTROLLING THE DISCHARGE OF POWDERED MATERIAL AND SAND FROM TANKS OR OTHER RECEPTACLES. LEONARD ANDREWS, Westminster, England. Filed July 23, 1927, Serial No. 207,078, and in Great Britain July 30, 1926. 3 Claims. (Cl. 210—54.)

1. For automatically controlling the discharge of powdered material from the outlet at the lower portion of a tank, mechanism comprising a loaded valve adapted to close the discharge outlet of the tank, a rotary device arranged to rotate in the lower portion of the tank and to be retarded to a greater or less extent by solid material therein, a motor driven cam device and adjustable means arranged to drive the rotary device and to be acted upon by the loaded valve and by the cam device, the arrangement being such that when the mechanism is in use and little or no solid material has collected in



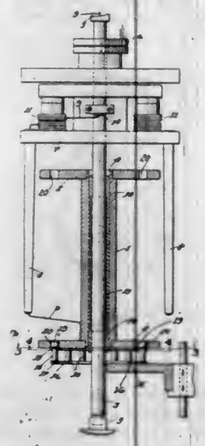
the lower portion of the tank, the valve is held by its load in its closed position but when material collects in the lower portion of the tank, the resistance offered thereby to movement of the rotary device and of the adjusting means, causes the cam device to move the adjusting means in a direction to open the valve, against the action of its load, to a greater or less extent and depending upon the amount of solid material collected in the lower portion of the tank.

1,665,082. SUCTION FORCE PUMP. ARNOLD BOHNENBLUST, Riley, Kans. Filed Nov. 14, 1927. Serial No. 233,214. 1 Claim. (Cl. 103—175.)



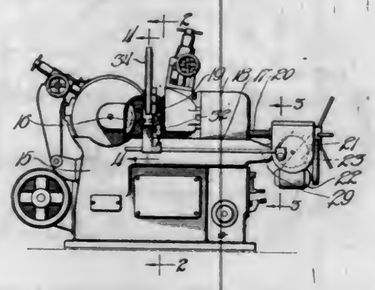
A pump comprising spaced cylinders and a compartment connecting the cylinders, an inlet manifold extended along the compartment and the cylinders, an outlet manifold extended along the inlet manifold, chambers communicating with the cylinders and with the inlet and outlet manifolds, check valves controlling the passage of liquid from the inlet manifold to the chambers and closing toward the inlet manifold, check valves controlling the passage of liquid from the chambers to the outlet manifold and closing toward the chambers, connected elements comprising pistons slidable in the cylinders, means for joining the pistons together, mechanism assembled with one of said connected elements for reciprocating the pistons, a priming conduit establishing communication between the compartment and the inlet manifold, and a float-operated valve controlling the flow through the conduit nad responsive to changes of liquid level in the compartment.

1,665,083. SPOOL SUPPORT FOR TWISTING MACHINES AND THE LIKE. GEORGE L. BROWNELL, Worcester, Mass. Filed Mar. 29, 1927. Serial No. 179,367. 3 Claims. (Cl. 242—118.)



1. As a new article of manufacture, a wooden spool comprising a cylindrical barrel and heads, one head having attached thereto heat dissipating means including metal disks with staggered spacing members therebetween.

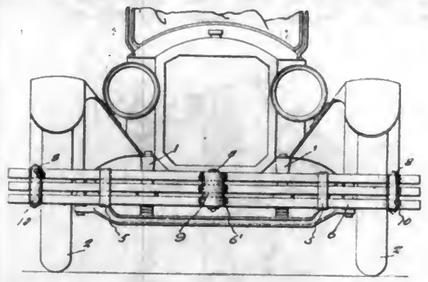
1,665,084. GRINDING MACHINERY. JOHN E. CASTER, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed July 27, 1927. Serial No. 208,869. 18 Claims. (Cl. 51—103.)



1. A machine of the character described, including opposed grinding and regulating wheels and an intermediate work rest, said wheels having contoured work engaging portions disposed in opposition one to the other, advanceable means for shifting the work along the throat between said wheels, and means for intermittently imparting an advancing movement thereto.

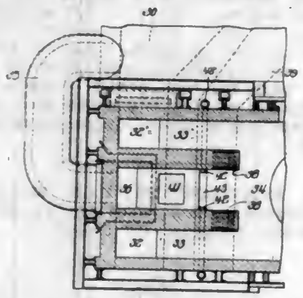
1,665,085. ROLLER GUARD FOR AUTOMOBILES. DENNIS J. CUNNINGHAM, Washington, D. C. Filed Aug. 27, 1927. Serial No. 215,873. 2 Claims. (Cl. 293—55.)

1. A bumper for vehicles comprising flat bars which are substantially V-shaped in plan and which have inwardly rounded depressed portions at the center and adjacent to the ends thereof, substantially U-shaped brackets fixedly secured to the bars of the bumper, rollers having shafts journaled in the parallel arms of



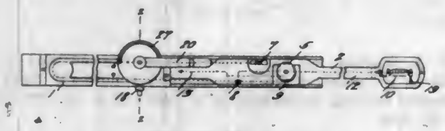
the brackets and arranged in the respective depressions and partly projecting therethrough, and a yieldable support for the bumper.

1,665,086. OPEN-HEARTH FURNACE. GEORGE L. DANFORTH, Jr., Chicago, Ill., assignor, by mesne assignments to Open Hearth Combustion Company, Chicago, Ill., a Corporation of Delaware. Filed July 13, 1922. Serial No. 574,727. 3 Claims. (Cl. 263—15.)



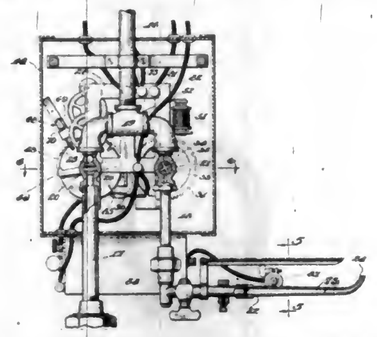
1. In an open hearth furnace, regenerative chambers, slag pockets, passages connecting the regenerative chambers and slag pockets, passages connecting the slag pockets and furnace ports, and vertically operating dampers adapted to close off the passages connecting certain of the regenerators and the slag pockets, and passages for connecting said certain regenerators to certain of the furnace ports independently of the slag pockets.

1,665,087. DIRECTION SIGNAL. ADOLF FEHRMANN, Hamburg, Germany. Filed July 5, 1927, Serial No. 203,580, and in Germany Oct. 1, 1926. 1 Claim. (Cl. 116—50.)



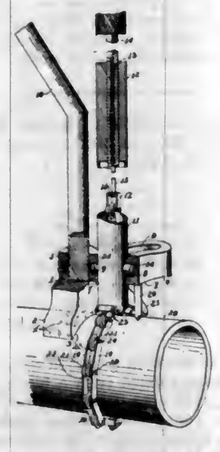
A direction signal, including a hollow rectangular main casing, a hollow signal arm slidable in said casing, a drum casing offset relative to the main casing, one wall of the drum casing forming part of th main casing, a cord drum mounted in the drum casing, guide rollers mounted in the main casing, a cord terminally secured to the signal arm and passing over said guide rollers and over said drum to permit operation of the signal arm in either direction in the main casing, and illuminating means carried by each end of the signal arm.

1,665,088. AUTOMATIC LIGHTER FOR GAS WATER HEATERS. HARVEY A. L. FOWLER, Valley Stream, N. Y. Filed June 24, 1927. Serial No. 201,254. 6 Claims. (Cl. 158—115.)



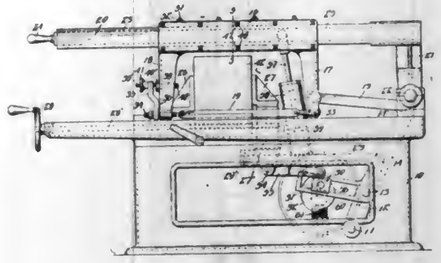
6. In a lighter for gas appliances, a gas control valve having a rotatable plug, a shaft extending from said plug, a disk mounted on said shaft and having notches in its peripheral edge, a movable member seated in one of said notches, an electric motor operatively connected to said shaft by a gear train, said motor being arranged in an electric circuit with a source of electric energy, a motor control switch normally open and disposed in the path of movement of said movable member, and manually operated means for lifting said member out of its engaging notch to actuate said switch to close said motor circuit whereby said motor will impart rotation to said plug to move the same to open and closed position, said member automatically dropping into the next notch in said disk during partial rotation thereof to disengage said switch, an electric spark device, a switch arm mounted on said shaft, a contact disposed in the path of rotation of said contact, said switch arm, contact and spark device being arranged in an electric circuit with a source of electric energy, whereby said arm may engage said contact to close said circuit to actuate said spark device during rotation of said shaft.

1,665,089. PIPE CUTTER. JOHN O. GAFFNEY, Arroyo Grande, Calif. Filed Aug. 26, 1926. Serial No. 131,649. 7 Claims. (Cl. 81—191.)



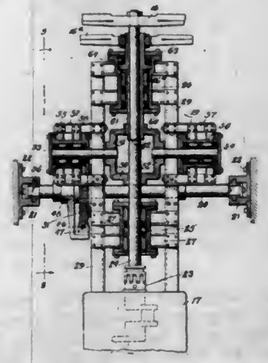
1. A pipe cutter comprising a handle having a tubular end portion, a chain connected to the tubular end portion at one end and having its other end inserted in said tubular end portion, an adjusting device inserted between said handle and the last mentioned end of the chain, an annular cutter element mounted in each link of the chain, and a guide member mounted on the pipe to engage the chain and provided with a central groove to permit passage of the cutting elements of the chain.

1,665,090. HACK SAW. DEWEY E. GOMMEL, Indianapolis, Ind., assignor to E. C. Atkins & Company, Indianapolis, Ind., a Corporation of Indiana. Filed Sept. 11, 1924. Serial No. 737,144. 5 Claims. (Cl. 29—73.)



1. In a power hack saw structure the combination of a table, a saw guide pivoted on one end of the table, a saw slidably mounted upon said guide, a lever pivotally mounted underneath the table and having its upper end extending above the table and formed with an angular slotted arm beneath the table, a sliding block mounted in said slot of said arm, a link connecting the upper end of said lever with the saw, a power shaft mounted beneath the table adjacent the lever, means connecting said power shaft with the sliding block in the slotted angular arm of said lever, a work-holding vise mounted on said table one jaw of which is fixed and the other of which is slidable, a connection between the lower end of said slidable jaw and the power shaft for operating the same, and means connecting said slidable jaw with the saw frame for controlling the length of its stroke as said movable jaw is adjusted, all substantially as set forth.

1,665,091. FLYING MACHINE. WILLIAM H. GOYNE, Tillamook, Oreg. Filed May 5, 1927. Serial No. 188,956. 13 Claims. (Cl. 244—15.)



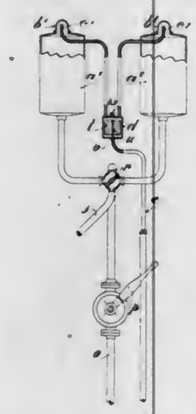
12. In a flying machine, a body, a horizontal shaft longitudinally adjustable on the body, a frame rotatably adjustable on the shaft, and a pair of lifting propellers carried by the frame.

1,665,092. WHEEL RIM. JASPER LEOPOLD GREENWOOD, North East Harbor, Nova Scotia, Canada. Filed Sept. 8, 1924, Serial No. 736,555. Renewed Jan. 10, 1928. 3 Claims. (Cl. 301—63.)



2. In a wheel structure, a wheel disk terminating in a laterally extending peripheral flange slightly diverging toward its free end, a radially projecting tire retaining flange joined to said peripheral flange at its free end, the junction of said flanges defining a re-entrant angle, a second wheel disk fitted in said re-entrant angle and bolts extending between the wheel disks.

1,665,093. LIQUID-DISTRIBUTING APPARATUS. FRANZ GOUVION, Brussels, Belgium. Filed Jan. 24, 1923, Serial No. 614,706, and in Belgium Jan. 24, 1922. 1 Claim. (Cl. 221—100.)



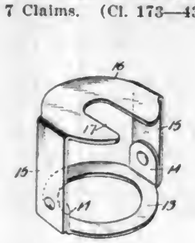
Liquid measuring and distributing apparatus comprising a pair of measuring receptacles, means to supply them alternately with liquid, an overflow duct leading from each of said receptacles, an excess liquid receiving receptacle into which said ducts, discharge, said ducts also communicating with each other by reason of their connection with the excess liquid receiving receptacle so that air is caused to pass between said measuring receptacles while they are alternately filled and emptied, and a duct for the discharge of liquid from said excess liquir receiving receptacle, said excess liquid receiving receptacle having an automatically acting air inlet valve and also having a float operated valve to control the discharge of liquid therefrom.

1,665,094. TIRE BOOT. CLAUDE HENRY, Flint, Mich. Filed Oct. 3, 1927. Serial No. 223,759. 5 Claims. (Cl. 152—24.)



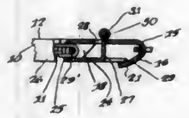
1. A tire boot of the character described comprising an elastic body, a chain vulcanized in said body, and anchor plates adapted to receive the bead of a tire casing and secured to said chains.

1,665,095. ELECTRICAL PLUG LOCK. JESSE B. HENRY, Connersville, Ind. Filed Jan. 5, 1927. Serial No. 159,182. 7 Claims. (Cl. 173—43.)



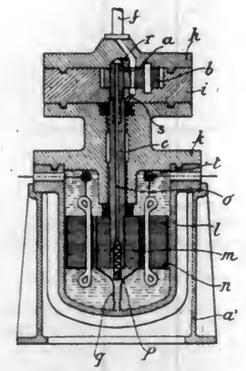
1. The combination with an electrical connection formed of separable sections of a ring member arranged to be mounted on one of said sections, and a disk member pivoted on the first member and swingable into and out of position to prevent accidental detachament of the other section, substantially as set forth.

1,665,096. SNAP FASTENER. ROBERT H. HOLMES, Chicago, Ill. Filed Mar. 22, 1927. Serial No. 177,375. 3 Claims. (Cl. 24—233.)



1. The combination with a link, of a snap fastener, said snap fastener being formed from a blank having one end portion turned back upon itself to provide a keeper lip and an opposite end portion turned back upon itself to provide a latch finger adapted for releasable engagement with the keeper lip, said blank having laterally extending portions bent substantially at right angles with respect to the body of the blank and said lateral portions being perforated, a pin positioned in said perforations and engaging said link for connecting said link to said snap fastener, and a finger struck from said opposite end portion and projecting through an opening formed in the body of the blank, said finger facilitating moving said latch finger from yieldable engagement with said keeper lip.

1,665,097. CIRCULATION PUMP OF THE ROTARY TYPE. ALBERT HUGUENIN, Paris, France. Filed Jan. 31, 1927, Serial No. 164,911, and in France Feb. 19, 1926. 2 Claims. (Cl. 230—139.)



1. In a rotary gas circulation pump, the combination of coacting gear wheels, a variable speed induction motor of the squirrel-cage type, means for connecting said gear wheels to said motor, and an absolutely tight casing in which the whole is enclosed, said casing being adapted to withstand the delivery pressure of the pump.

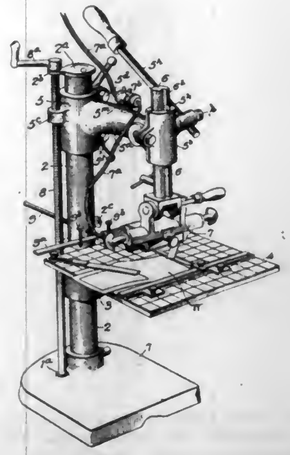
1,665,098. ANTISKID CHAIN FOR AUTOMOBILES. EARL B. JOHNSON, Hartsdale, N. Y. Filed Mar. 11, 1927. Serial No. 174,579. 1 Claim. (Cl. 24—237.)



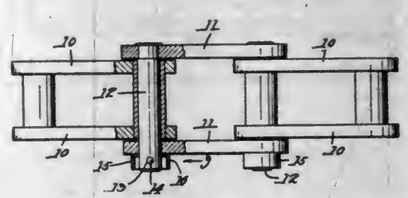
A self adjusting fastening element comprising a single length of yieldable material bent approximately midway between the ends to provide an eye, the free ends of said material converging towards each other and being bent upon themselves to provide a hook, one of the free ends being longer than the other to extend over and inward of the same and bent at an angle with respect to the other to provide an inwardly extending yieldable finger for normally restricting the entrance to the mouth of said hook.

1,665,099. WORK HOLDER FOR PRINTING AND EMBOSSING MACHINES. SAMUEL F. KIESLING and OLAF HALVORSEN, Chicago, Ill. Filed Aug. 2, 1926. Serial No. 126,474. 11 Claims. (Cl. 101—407.)

1. For a machine having a movable die, a work holder comprising a gauge board adapted to be mounted in the path of said die, said board having evenly spaced co-orthogonal lines marked thereon, the lines being graduated from the center of the board to each side thereof, and the point of intersection of the "zero" lines being disposed in alignment with the axis of the plunger; and a plurality of adjustable spring clamps on the gauge board.



1,665,100. PIN-RETAINING MEANS FOR CHAINS. HERMANN KLAUCKE, Worcester, Mass., assignor to Baldwin Chain & Mfg. Co., Auburn, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1926. Serial No. 154,373. 2 Claims. (Cl. 85—7.)



1. As an article of manufacture, a holding device for a cross pin of a link chain, comprising a cup-shaped member having a flat uninterrupted bottom adapted to engage the surface of one of the links and having a perforation through the bottom for the cross pin on which it is freely rotatable, and a holding pin extending through the cross pin and located in the cup-shaped member at a distance below the edge thereof, the cup-shaped member being centered on the cross pin.

1,665,101. ELEVATOR. CHARLES F. LANE, San Jose, Calif. Filed Dec. 20, 1926. Serial No. 155,922. 3 Claims. (Cl. 198—141.)

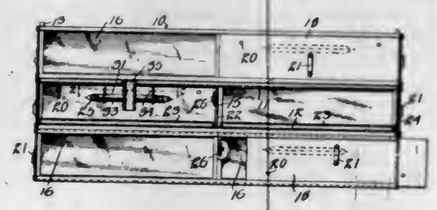
1. A structure of the character described, comprising a carrier element and means for rotating the same through a given path of travel, a plurality of spaced carriers open on their outer sides and mounted on said carrier element on their inner sides, and means for emptying said

carriers at a given point in their path of travel, said means comprising a means for engaging the discharging side of the said carriers whereby to cause the same to



lag behind the opposite closed side, and means for releasing the carriers from said engagement, and means for returning the carriers to their normal positions.

1,665,102. STORAGE BROODER. FRED W. LORD, Tipton, Ind., assignor to The Oakes Manufacturing Company, Tipton, Ind., a Corporation of Indiana. Filed Feb. 28, 1927. Serial No. 171,652. 5 Claims. (Cl. 119—33.)

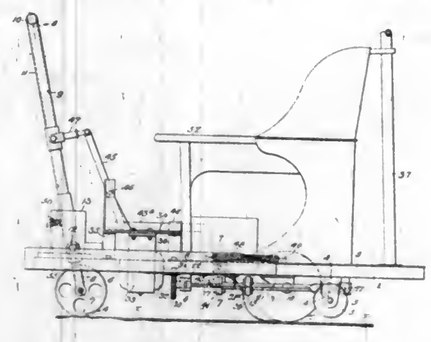


1. A brooder comprising a plurality of superposed tiers, each tier being provided with a central transverse partition forming a pair of compartments, doors slidably mounted at the outer sides of each compartment and a heating element disposed in one compartment of each tier, said heating elements being disposed alternately at opposite ends of the brooder, substantially as set forth.

1,665,103. VEHICLE CONTROLLING APPARATUS. JOSEPH LUSSE, Philadelphia, Pa., assignor to the Firm of Lusse Brothers, Philadelphia, Pa., consisting of Joseph Lusse and Robert Lusse. Filed Oct. 3, 1922. Serial No. 592,075. 12 Claims. (Cl. 180—78.)

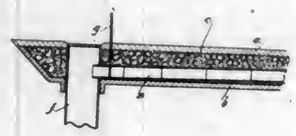
1. The combination of a car having a seat; steering means for said car including a rotary post mounted to swing toward and from the seat and adapted to provide a mounting for a steering wheel; driving mechanism including a traction wheel and a co-operating friction element, said element being movable relative to said wheel to vary the driving effect of the former; and controlling means for said friction element adapted to cause said relative movement upon the swinging of said post.

12. In a car, the combination with bodily movable steering means; of a driving wheel; a motor; a revoluble friction element driven by said motor and movable into and out of engagement with said driving wheel; and means for so operatively associating said steering



means and said friction element that a bodily movement of the former causes a movement of the latter into and out of engagement with said driving wheel.

1,665,104. DRAINAGE SYSTEM FOR PLAYING GROUNDS. ERNEST EDUARD MARTIENSSEN, Hamburg, Germany. Filed Apr. 12, 1927, Serial No. 183,220, and in Germany Dec. 29, 1925. 2 Claims. (Cl. 61—10.)



1. A conditioning system for hard tennis courts comprising a lowermost impermeable layer, the playing surface, and an intermediate layer in contact with said surface and said impermeable layer, said intermediate layer being constructed of such material as to take up and retain water, draining through the surface layer, and automatically to maintain a rate of moisture exchange with the surface layer when the latter becomes drier than the adjacent part of the intermediate layer, and means varying the level of water in said intermediate layer for varying the rate of moisture exchange.

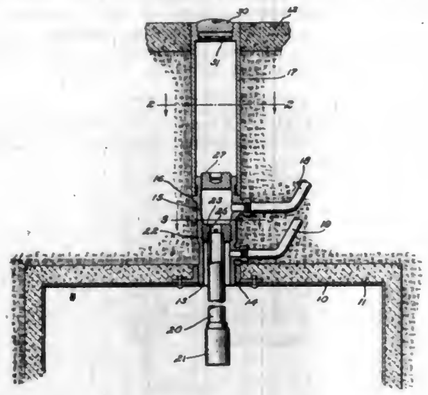
1,665,105. PRODUCING STABLE EMULSIONS. ROBERT MEZGER, Stuttgart, Germany. Filed Apr. 1, 1927, Serial No. 180,330, and in Germany July 1, 1925. 13 Claims. (Cl. 134—1.)

1. The method of preparing stable oil emulsions comprising mixing the constituents so as to effect emulsification, allowing the emulsion to stratify into two end emulsions, removing the end emulsion which is richer in oily material and emulsifying more oil with the end emulsion which is poorer in oil, in a new emulsifying operation.

1,665,106. GASOLINE-STORAGE-TANK FITTING. ALFRED P. MORAN, Ridgefield Park, N. J. Filed Feb. 5, 1927. Serial No. 166,263. 6 Claims. (Cl. 220—85.)

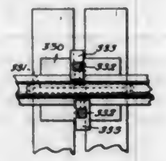
1. An attachment of the character described for underground liquid tanks, comprising a fitting adapted to be secured to a tank and internally screw threaded intermediate of its ends, an externally threaded plug

engaging said internal thread and formed with a vertical opening for the outflow of the liquid contents of the tank, said plug having at the under side an inter-



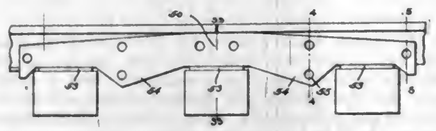
nally threaded counter bore and a discharge pipe engaging the threads of said counter bore and sustained by said plug.

1,665,107. RAILWAY RAIL AND TIE HOLDING MEANS. GEORGE W. MULLER, Washington, D. C. Filed Mar. 17, 1927. Serial No. 176,104. 19 Claims. (Cl. 238—314.)



1. In a railway track structure, the combination with separated pairs of ties, of tie plates upon said ties, a rail upon said plates, rail clamping members on said plates, means connecting said ties, and common means connecting said clamping members, tie plates and tie connecting means.

1,665,108. RAIL-JOINT BAR OR FISHPLATE. GEORGE W. MULLER, Washington, D. C. Filed Apr. 30, 1927. Serial No. 187,981. 11 Claims. (Cl. 238—188.)



1. A joint bar including an elongated body provided with a reinforced medial portion adapted to snugly fit between the ball and the base of the rail and against the web thereof, and bearing flanges at the terminals of the bar adapted to bear against the rail web.

1,665,109. TRIMMER. HENRY A. NELSON, Bijou Hills, S. Dak. Filed July 26, 1927. Serial No. 208,583. 3 Claims. (Cl. 81—187.)

2. A trimmer comprising a tubular carrier provided with a pair of opposed lengthwise extending slots, a shank arranged within the carrier and having a diametrically extending opening, a headed bolt extending through said slots and opening, and extending from one of the slots, a nut mounted on the extended end of the bolt, a trimmer head arranged exteriorly of the carrier and having a reduced inner end integral with the outer end of the shank, and a laterally extending, annular,



solid flange integral with the shank and head at the point of joinder of the shank with said inner end and providing an abutment for direct engagement by the carrier to prevent the latter sliding upon the head.

1,665,110. NEUTRALIZING TREATMENT OF ACID OILS FOR LUBRICANT STOCKS. GEORGE F. OLSEN, Los Angeles, Calif., assignor to General Petroleum Corporation of California, a Corporation of Delaware. Filed Aug. 31, 1926. Serial No. 132,801. 3 Claims. (Cl. 196—41.)

1. In the treatment of acid oils containing organic acidity as well as mineral acidity, a method of neutralization characterized by the fact that a comminuted solid alkali is added in quantity sufficient to neutralize the mineral acidity only, said neutralizing agent being added in successive small quantities during agitation, the presence of water being avoided throughout.

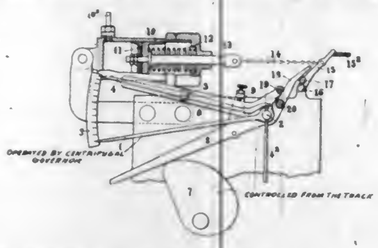
1,665,111. TREATMENT OF LUBRICANT STOCKS. GEORGE FREDRIC OLSEN, Los Angeles, Calif., assignor to General Petroleum Corporation of California, Los Angeles, Calif., a Corporation of Delaware. Filed Oct. 15, 1927. Serial No. 226,507. 5 Claims. (Cl. 196—34.)

2. In the fractionation and purification of viscous petroleum oils by treatment with liquid sulfur dioxid, the steps comprising: diluting said viscous oil with a light petroleum solvent and adding to said diluted oil a sufficient quantity of a light petroleum extractive obtained from a light petroleum product.

1,665,112. SPEED-CONTROLLING DEVICE FOR RAILWAY AND TRAMWAY TRAINS. ELOI RODOLAUSSE, St.-Antonin, France. Filed Dec. 16, 1924, Serial No. 756,265, and in France Dec. 21, 1923. 3 Claims. (Cl. 246—182.)

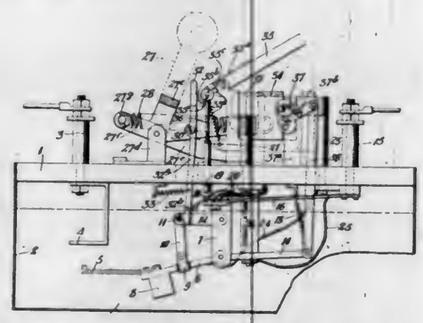
1. An apparatus for the supervision and control of the stoppages and diminutions of speed of railway trains, comprising: an index indicating the real speed of a train,—an axis carrying this index,—a lever pivoting on this axis,—a supervision index pivoting on this lever above the first index and indicating the limitations of the speed,—a control cam with automatic release,—a lever actuated by this cam and bringing back the supervision index to the stoppage position,—a rod controlling the distribution of air to the brakes and actuated by the supervision index when the latter encounters

the speed index.—means, whereby the brakes will be automatically operated when the pressure of the compressed



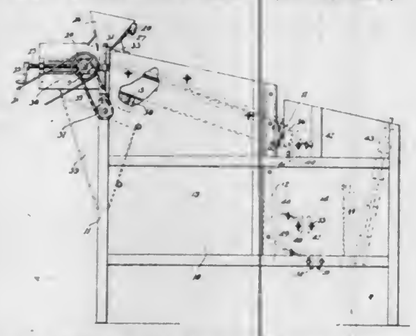
air is inferior to the normal—and means for automatically locking the rod controlling the distribution of air to the brakes.

1,665,113. CIRCUIT BREAKER. FRANK W. ROLLER, East Orange, N. J., assignor to Roller-Smith Company, a Corporation of New York. Filed Sept. 24, 1924. Serial No. 739,512. 13 Claims. (Cl. 200—88.)



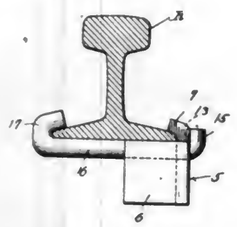
3. A circuit breaker comprising a base plate, a manually operated element pivotally mounted thereon, a second element pivotally mounted thereon, a spring connecting said elements, a movable contact element on the opposite side of said base plate, releasable means extending through said base plate and connected between said second element, and said contact element, and automatic means for disconnecting said releasable means upon the occurrence of an abnormal circuit condition.

1,665,114. PEA GRADER AND CLEANER. CARL SCHROEDER, Mayville, Wis. Filed Nov. 21, 1924. Serial No. 751,330. 2 Claims. (Cl. 209—119.)



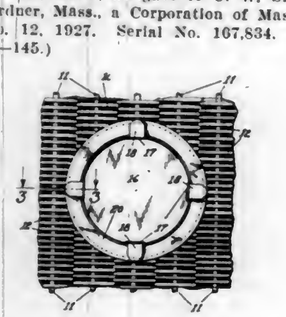
1. A machine of the character described comprising a supporting structure, a bin mounted thereon, a partition dividing the bin into two compartments, an endless conveyor disposed at an inclination above one of said compartments with one end arranged above the partition and extending into the other of said compartments, a hopper mounted above the opposite end of said conveyor, pea grading means arranged in the last mentioned compartment, a receptacle mounted for disposal in the other compartment, and scraping means arranged in the path of the conveyor and above the receptacle.

1,665,115. RAIL LOCK. FRANK J. SCHROEDER, Altoona, Pa. Filed Oct. 14, 1927. Serial No. 226,152. 3 Claims. (Cl. 238—329.)



1. An anti-creeper for railway rails including a body portion having inwardly disposed end portions fitted under the rail and having an upstanding flange overlying the upper edge of the rail, said body portion having an opening, a securing member having a hook at one end hooked over the base of the rail and having an upstanding end portion extended through the opening of the body portion, and depressions in the body portion to receive the upstanding end of the securing member.

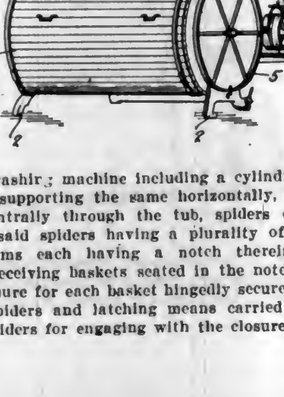
1,665,116. CARRIAGE-HOOD WINDOW. OTTO W. SIEBERT, Gardner, Mass., assignor to O. W. Siebert Company, Gardner, Mass., a Corporation of Massachusetts. Filed Feb. 12, 1927. Serial No. 167,834. 4 Claims. (Cl. 296—145.)



1. A carriage hood window for fabric comprising an outer rim having rearwardly projecting prongs on its inner edge portion, projecting through said fabric, a transparent disc positioned in the opposite side of said fabric from said rim and having a series of slots therein, spaced angularly to correspond to the positions of the prongs on said rim, said prongs extending through said slots and being bent laterally inside of said disc to retain the parts in assembled relation.

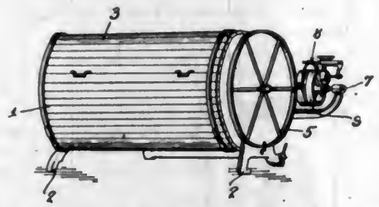
1,665,117. PROCESS AND APPARATUS FOR GRINDING AND POLISHING GLASS. FRANK EDWIN SLOCOMBE, Kirk Sandall, England, assignor to Pilkington Brothers Limited, Liverpool, England, a British Company. Filed Nov. 6, 1924, Serial No. 748,131, and in Great Britain Nov. 10, 1923. 8 Claims. (Cl. 51—278.)

3. Apparatus for the abrasive treatment of glass, comprising apparatus for supplying abrasive media, rotating tables on which the glass is laid, a truck carrying each table moving past the apparatus supplying the abrasive media, means on each truck adapted to rotate the table, rails on which the trucks travel, abrading runners adapted to operate on the glass and means for travelling together the trucks and the runners, during the operation of the runners on the glass.



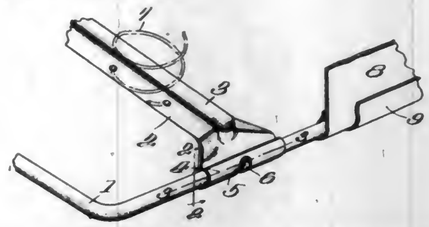
8. Apparatus for grinding and polishing plates of glass of the type in which the glass is laid on tables which are rotated under grinding and polishing runners to effect the grinding and polishing, comprising a truck carrying each table, means on each truck adapted to rotate the table, rails forming a closed circuit round which the trucks are adapted to travel, means operative to move the trucks along the rails, a grinding runner frame and a polishing runner frame adapted to travel with each table during the operative course of each runner frame, a runway for the grinding runner frame and a runway for the polishing runner frame, the said runways forming each a closed circuit of which a portion is adapted to support the runner frames while travelling with the tables while the remainder is a return circuit, means for attaching the grinding and polishing runner frames to each truck at the beginning of their operative courses and detaching them at the end thereof, means mounted on the runner frames adapted to raise and lower the runners, and stationary cam surfaces co-operating with said means to effect such raising and lowering.

1,665,118. CLOTHES WASHER. JAMES V. THOMPSON and HOWARD C. DEITZ, Spencer, W. Va. Filed Mar. 25, 1927. Serial No. 178,353. 2 Claims. (Cl. 68—18.)



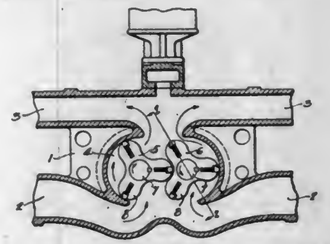
1. A washing machine including a cylindrical tub having legs supporting the same horizontally, a shaft journaled centrally through the tub, spiders on the shaft, each of said spiders having a plurality of radially disposed arms each having a notch therein, reticulated clothes receiving baskets seated in the notches, a reticulated closure for each basket hingedly secured to the arms of the spiders and latching means carried by the arms of the spiders for engaging with the closures.

1,665,119. CUSHION SEAT AND THE LIKE. CHARLES P. TRIMALE, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1925. Serial No. 17,057. 1 Claim. (Cl. 155—179.)



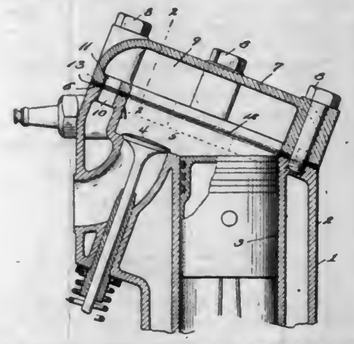
In a cushion or seat having springs and a lower border frame, spring supporting bars having flat ends, the ends of the bars being perforated and wrapped around the frame and the frame being provided with swaged portions engaging the metal around said perforations to prevent longitudinal movement of the bars.

1,665,120. ROTARY FLUID PUMP AND MOTOR. EVERT JANSEN WENDELL, Wayne, Pa., assignor to The Hale Fire Pump Co., Inc., Conshohocken, Pa., a Corporation of Pennsylvania. Filed May 7, 1927. Serial No. 189,536. 3 Claims. (Cl. 103—126.)



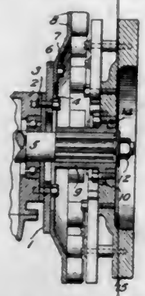
1. A rotor for rotary pumps and motors having a peripheral and longitudinal slot, a vane mounted in said slot and having therein limited movement radially of the rotor, said vane having on its inner face a transverse slot, a pin mounted in the rotor and adapted to enter the slot to prevent movement of the vane axially of the rotor, and a spring resiliently retaining the pin in the slot.

1,665,121. INTERNAL-COMBUSTION ENGINE. FRANK R. WEST, Newark, N. J. Filed Sept. 18, 1924. Serial No. 738,465. 8 Claims. (Cl. 123—173.)



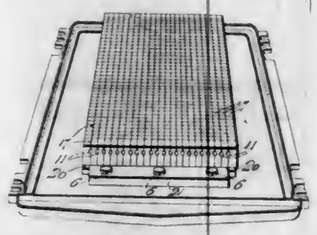
1. An internal combustion engine having a combustion chamber a wall of which is constituted by a relatively thin substantially flat flexible plate of uniform thickness throughout its area and which divides the combustion chamber from the water space of the engine.

1,665,122. TRACTOR-LIGHTING DEVICE. WILLIAM H. WHITE, Copeland, Kans. Filed June 25, 1927. Serial No. 201,529. 2 Claims. (Cl. 290—1.)



1. Means for placing a magneto on the pulley shaft of a tractor, comprising a plate bolted to a part of the engine block of the tractor, means for fastening to the plate the coil carrying member of the magneto, a hub adapted to be substituted for the pulley on the shaft and means for attaching to the hub the fly wheel of the magneto.

1,665,123. OIL GRATE AND MAT. WILSON A. WILHELM, Vernon, Tex. Filed Sept. 11, 1925. Serial No. 55,885. 2 Claims. (Cl. 100—34.)



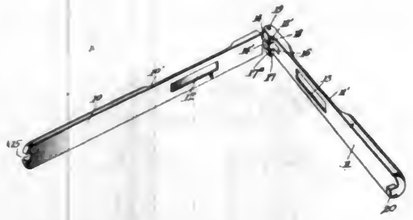
1. An oil grate and mat combined in a unitary structure and comprising a plurality of interlocked movably connected parallel bars arranged with their sides contacting, means extending transversely through said bars to hold them assembled, each bar being provided in each side wall near its upper surface with a longitudinal groove, the grooves of adjacent bars registering when assembled to form oil receiving or collecting channels opening through the ends of the structure whereby the collected oil may be conducted to a suitable place of deposit, a plurality of longitudinally spaced vertical passages leading from said channels through the upper face of the bars to provide oil feeds for the channels, said bars also having transverse channels arranged in a plane above the longitudinal channels and provided with restricted slot-like mouths opening through the tops of the bars to provide a transverse drainage for the structure.

1,665,124. PROPAGATING BOX. ERNEST WRIGHT, Arch Creek, Fla. Filed Jan. 25, 1926. Serial No. 83,666. 1 Claim. (Cl. 47—37.)



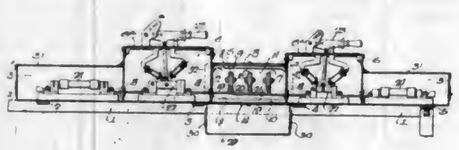
A propagating box, a liquid level container therefor, substantially U-shaped supporting legs carried upon the bottom of the box to elevate the same to an appropriate height within the container, and a side member hingedly mounted upon the box adapted to permit transplanting of the contents thereof.

1,665,125. SAFETY-RAZOR-BLADE HOLDER. EDOUARD BARDET, New York, N. Y. Filed May 18, 1926. Serial No. 109,958. 1 Claim. (Cl. 30—25.)



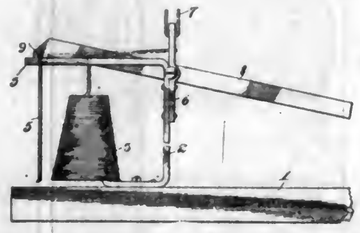
A holder for safety razor blades having in combination a pair of coacting handle members having at one end projections hingedly connected together and extending vertically to prevent endwise shifting of the handle members, one of said handle members at its opposite end having a depending lug adapted to engage a complementary slot in the adjacent end of the other handle member so as to coact with said projections for preventing shifting of the handle members when in the closed position, the inner surface of each of said members having oppositely disposed longitudinal recesses, and a removable blade holder adapted to fit and be positively held in said longitudinal recesses, said blade holder arranged to prevent endwise as well as lateral movement of the handle members when the parts are in their closed position.

1,665,126. SAFETY SWITCHBOARD. JAMES F. BURNS, Philadelphia, Pa., assignor to V. V. Fittings Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 23, 1922. Serial No. 570,364. 17 Claims. (Cl. 247—11.)



11. Apparatus comprising two lines of switch boxes spaced apart to define an elongated channel; frames extending across said channel and interposed between adjacent boxes; and closure plates mounted on said frames.

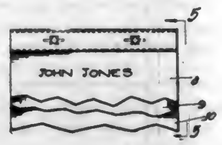
1,665,127. TWINE HOLDER. ENOCK A. CARLSON, Delvalle, Tex. Original application filed Apr. 21, 1926, Serial No. 103,554. Divided and this application filed Oct. 16, 1926. Serial No. 142,000. 2 Claims. (Cl. 242—144.)



1. A holder of the character specified comprising a standard having its upper end bent laterally to provide an arm in which openings are formed for guiding the

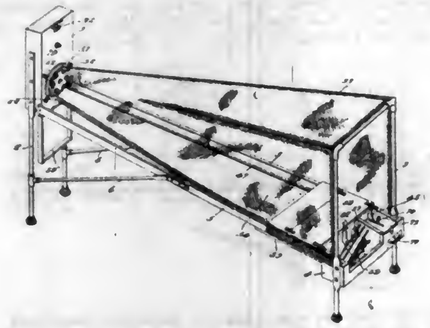
cord, and having its lower end similarly bent and terminating in a vertically disposed loop-shaped support to receive a bobbin of cord, a suspending lug attached to a side of the standard and formed with a cord guiding opening, and a take-up lever pivoted to the standard by means of the said lug, and having an opening for the cord in the end adjacent the outer end of the upper arm.

1,665,128. REENFORCED FOLDER OR FILE HOLDER. CHARLES E. CATHER, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed July 9, 1926. Serial No. 121,473. 2 Claims. (Cl. 129—25.)



1. As a new article of manufacture, a reenforced folder or file-holder comprising a backing sheet having one or more fasteners secured thereto near its upper edge, the material of said edge beyond said fasteners being folded backwardly and secured by adhesive to the rear face of said sheet as a reenforcement for said fasteners, and the doubled portion carrying said fasteners being folded forwardly so as to cause said fasteners to face the front of said sheet, whereby to present the successive papers attached by said fasteners to said folder in the order of their attachment thereto.

1,665,129. AMUSEMENT DEVICE. JOHN E. CRADDOCK, Perry Point, Md. Filed Apr. 23, 1926. Serial No. 104,171. 4 Claims. (Cl. 273—95.)



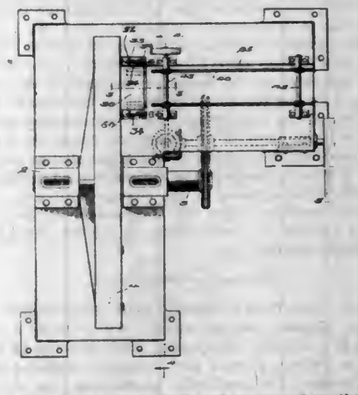
1. An amusement device comprising a frame, a casing at the rear end thereof, scoring mechanism carried by the casing, movable targets carried by the casing, means actuated by the movement of the targets for operating the scoring mechanism, an open casing at the front of the frame having an opening in its rear part, means for causing projectiles thrown at the targets to pass through the opening, a tiltable inclined shelf in the open casing for receiving the projectiles passing through the opening, bars for holding the projectiles on the shelf, an adjustable stop associated with the shelf for limiting the number of projectiles occupying the same, a hand lever, means operated thereby for tilting the shelf, means associated with the last mentioned means for preventing projectiles from passing through the opening when the shelf is in tilted position, and means actuated by said lever for returning the scoring mechanism to zero position.

1,665,130. VENTILATOR. DWIGHT A. ELLIOTT, Richmond, Ind. Filed Feb. 23, 1926. Serial No. 89,863. 1 Claim. (Cl. 98—2.)



In combination with a window having fixed stiles, and a glass adapted to slide up and down between said stiles; a ventilator located between said stiles and comprising a sheet-metal member forming the body of the ventilator and having a plurality of horizontal cuts therethrough with the upper edge of each cut curved outward forming downwardly directed openings throughout the face of the body, a reinforcement at each end of the body, the same being formed by doubling the ends of the body, there being slots formed through the said reinforcements and the adjoining portions of the body, L-shaped end members secured to the respective stiles, there being slots formed through the portions of the end members which extend toward each other with each of the slots last mentioned being in register with the said slots in the ends of the main member, bolts extending through all of said slots providing means whereby the main members may be adjustably secured whereby the ventilator may be adjusted to varying distances between the stiles, a flange formed along the inner lower edge of the body member, a tongue extending back from said flange to near the face of the glass, and a screen covering the inner side of the main member.

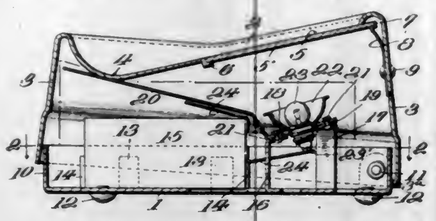
1,665,131. CUTTING OR SLICING MACHINE. EARNEST R. FERRARI, North Bend, Oreg. Filed Mar. 30, 1926. Serial No. 98,550. 5 Claims. (Cl. 144—176.)



1. A slicing machine of the character described comprising a rotatable wheel, a plurality of carriers mounted on the wheel for angular adjustment, knives mounted

on said carriers, a table co-operably disposed with respect to the wheel and its knives, means for feeding the stock across the table and into the field of action of the knives, said table having a slidable anvil at the end thereof with which the wheel and its knives co-act spring means for projecting the anvil foward the wheel, and co-operating means on the carriers and anvil for causing detraction of the anvil in certain phases of the operation.

1,665,132. FLASH CHANGE TRAY. SYDNEY FISHER, Fairfield, Conn., assignor to Flash Tray Advertising, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 27, 1926. Serial No. 84,192. 5 Claims. (Cl. 40—130.)

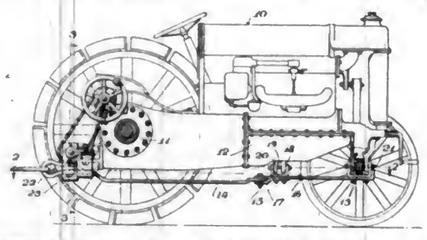


2. A flash change tray including in combination a stamped sheet metal base having an upwardly extending flange, and lugs cut from said base and projecting upwardly therefrom, certain of said lugs being disposed so as to receive a battery and hold the same from sliding on the base, other of said lugs being shaped so as to support a leaf spring and an illuminating means, a change receiving portion having a depending skirt, pivots for securing said change receiving portion to said flange of the base at one end thereof, said change receiving portion having a pocket for the change and an opening for a translucent display panel, a leaf spring mounted on one of said lugs and engaging said change receiving portion for normally holding the same raised, an illuminating means having one terminal thereof connected to the battery ad the other terminal thereof connected to the leaf spring, said battery having a terminal located beneath the leaf spring and out of contact therewith when the change receiving portion of the tray is raised, said leaf spring making contact with the battery terminal when the change receiving portion thereof is depressed so as to connect the illuminating means with the battery and thus illuminate the translucent panel.

3. A flash change tray including in combination, a stamped sheet metal base, a stamped sheet metal change receiving portion having a pocket for the change and an opening for a translucent display panel, said base having an upwardly projecting flange, said change receiving portion having a downwardly extending skirt, said change receiving portion overlying said base with said skirt extending down over said base, means for pivotally connecting the skirt to the flange of the base at one end of the base, a spring for normally holding the change receiving portion of the tray raised to a predetermined position, said skirt being adapted to engage the flange on the base for determining the position to which the change receiving portion is raised, illuminating means located within said tray beneath the opening in the change receiving portion, and means operated upon the depression of the change receiving portion for establishing a circuit through the illuminating means.

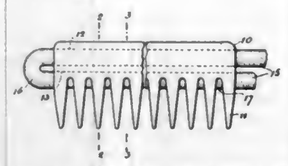
1,665,133. DRAWBAR SHIFT FOR TRACTORS. VIRGIL L. GIBSON, Salem, Oreg. Filed Mar. 8, 1927. Serial No. 173,745. 5 Claims. (Cl. 280—33.12.)

1. In a tractor, a draw bar swingably mounted on the tractor, means for positively positioning the free end of the draw bar, said means comprising a screw, a drive shaft spaced from the screw, operative connections between the screw and the shaft whereby rotation of the shaft will cause rotation of the screw, a cross head depending from the screw and having threaded connections with the screw whereby rotation of the screw will cause



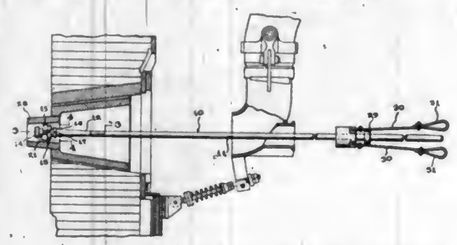
transverse movement of the cross head, the free end of the draw bar being received by the cross head below the screw.

1,665,134. COMB. HARRY HENRY HUTCHINGS, New York, N. Y. Filed May 10, 1927. Serial No. 190,266. 2 Claims. (Cl. 132—11.)



1. As an article of manufacture, a comb having longitudinal passages therein, through which a cord may be run, one of said passages being partially in the back of the comb and partially in the teeth at the bases thereof, and a cord in said passages and exposed at the spaces between the teeth.

1,665,135. EXTRACTOR FOR TUYÈRES AND TUYÈRE COOLERS. GEORGE J. JONES and EDWIN J. SUREN, Needham, Mass., assignor to The Gramewell BLANNING, New Castle, Pa. Filed Mar. 1, 1927. Serial No. 171,793. 5 Claims. (Cl. 29—88.2.)

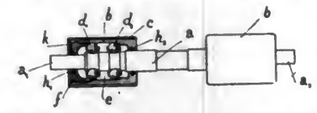


1. A tool for the purpose indicated comprising a gripper provided with radially movable jaws, a dolly bar on which the gripper is slidably mounted and which has means for effecting radial movement of the jaws upon relative axial movement of the bar and gripper, releasable means for locking the gripper at a point on the bar where the gripper jaws have their inmost radial positions, and means for imparting axial movement to the dolly bar.

1,665,136. PRESSURE AND DRAWING CYLINDER FOR SPINNING MACHINES. JEAN LAUFFER, Logelbach, France. Filed June 15, 1925, Serial No. 37,360, and in France June 20, 1924. 1 Claim. (Cl. 19—141.)

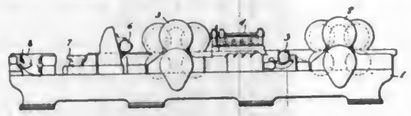
In a spinning machine, the combination of: a stationary spindle; a rotatable drawing cylinder mounted coaxially on the end-portion of said spindle and having a cavity for lubricating material formed therein; a tubular sleeve secured on the said end-portion of the spindle and

extending substantially along the whole length of the cavity of the hollow cylinder; a pair of ball-bearings interposed annularly between the said tubular sleeve and the inner surface of such hollow cylinder; a nut screwed into one end of the said cylinder for adjusting the posi-



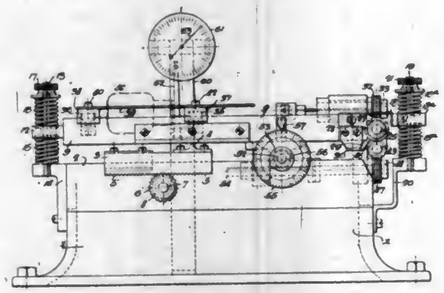
tion of the latter on the end-portion of the spindle in a longitudinal direction, the said nut having its inner face adapted to form an annular abutment for the adjacent ball-bearing; and means for locking the said nut in adjusted position.

1,665,137. MACHINE FRAME. JOHAN OSCAR LIFFLANDER and CARL JOHAN AXEL JOHNSON, Stockholm, Sweden, assignors to J. & C. G., Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Filed June 27, 1925, Serial No. 40,121, and in Sweden June 6, 1924. 1 Claim. (Cl. 144—114.)



A machine base of the general type, of a planer for supporting the machine parts having a plane top extending from side to side so that the machine parts may be placed thereon in various positions as regards length and width in combination with such machine parts having corresponding flat bases suitable for various positions.

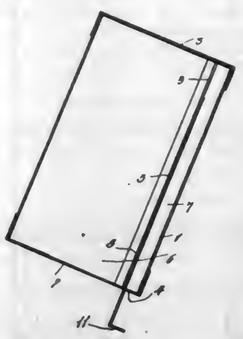
1,665,138. BALANCING MACHINE. JACOB LUNDGREN, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 24, 1923. Serial No. 634,334. 16 Claims. (Cl. 73—51.)



1. The combination in a balancing machine of a supporting structure providing a movable fulcrum; an oscillatory frame mounted on said structure; adjustable counterbalance weights on the frame; means also on the frame for supporting a body to be balanced; means for simultaneously rotating said body and the counterbalance weights; with means including a longitudinally adjustable shaft for varying the angular relation of said weights and the body to be balanced.

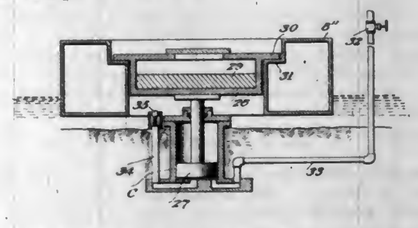
1,665,139. MEASURING DEVICE FOR CONTAINERS. CARL O. LUNDHOLM, Moiese, Mont. Filed Feb. 3, 1927. Serial No. 165,745. 5 Claims. (Cl. 221—98.)

1. A device of the character set forth, comprising a container, a partition separating the container into a supply compartment and a mensuring and dispensing compartment, the latter being open at its upper end, the partition being provided at its lower end with an opening, a valve plate slidably mounted in the measuring and



dispensing compartment and contacting with said partition for covering and uncovering the opening therein, and a closure for the upper end of the measuring and dispensing compartment and carried by the valve plate.

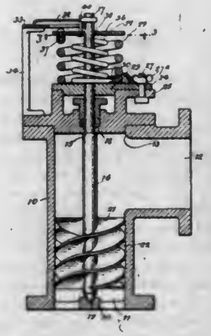
1,665,140. TIDE PUMP. SHAVUKSHA D. MASTER, Bombay, India. Filed Nov. 24, 1923. Serial No. 676,795. 3 Claims. (Cl. 103—68.)



1. An apparatus of the class described comprising a pump, a float actuated by the tides, means for operating the pump by the movement of the float, means for holding the water in the pump cylinder under pressure while the tide is dropping and means for releasing the water when the tide recedes farther

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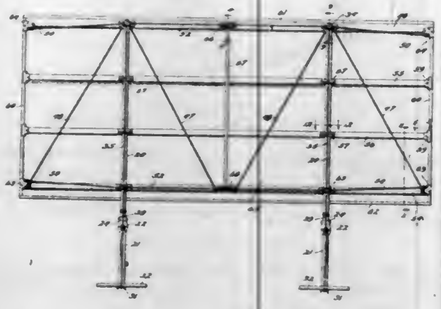
1,665,141. FLOW METER. CHARLES PETER MAYER, Elizabeth, N. J. Filed Feb. 9, 1927. Serial No. 166,994. 5 Claims. (Cl. 73—167.)



2. A casing having a passageway therein through which a fluid is adapted to flow and means for measuring the rate of such flow, including a shaft extending longi-

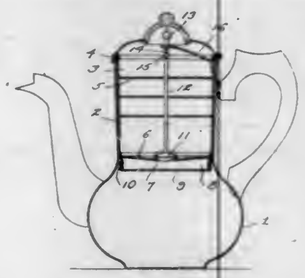
tudinally of the passage, an impelled member on the shaft acted on by the flowing fluid to turn the shaft, spring means opposing the turning movement of the shaft, a scale member, a cooperating indicating member carried by the shaft, the spring means including a spiral torsional spring, anchored at one end to the shaft, and a rotatably adjustable spring tensioning plate to which the other end of the spring is anchored.

1,665,142. BILLBOARD. MONTE C. MERKER, Reading, Pa. Filed May 20, 1924. Serial No. 714,585. 15 Claims. (Cl. 40—125.)



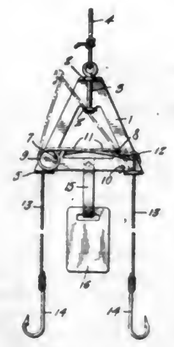
1. A billboard supporting frame comprising an upright supporting member, means crosswise relative to the upright member and connected thereto and adjusting means connecting opposite sides of the supporting member with the crosswise means at points distant from the supporting member.

1,665,143. COFFEEPOT. RANDAL MCMILLAN and MYRON R. SCHALL, Palo Alto, Calif. Filed June 24, 1927. Serial No. 201,210. 1 Claim. (Cl. 53—3.)



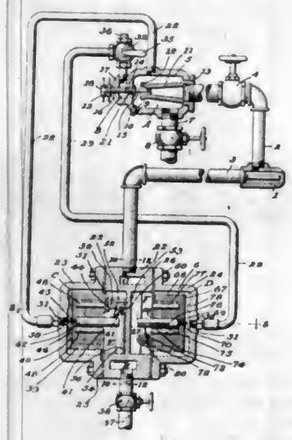
A coffee pot, a container inserted through the mouth and received through the neck thereof, said container having a flared bottom which is centrally formed with an opening and having a reduced extension beyond said bottom, a filtering fabric arranged around the extension, a clamping ring securing the fabric on the extension, a valve for closing the opening in the bottom of the container, an operating stem for the valve, said stem having laterally extending lugs and notches below the lugs, an arched combination guide and handle member having one end secured in the container and its other end provided with a notch which is centrally widened and in which the stem is received, and whereby when the stem is arranged in one position the said member will contact with the lugs and when raised and turned to a second position the walls provided by the notch will contact with the shoulders formed by the notches in the stem.

1,665,144. FISHING-TACKLE ATTACHMENT. MILTON MURRAY, Williams Wharf, Va. Filed Mar. 5, 1927. Serial No. 173,128. 3 Claims. (Cl. 43—15.)



1. A device of the class described comprising a frame, a coiled spring carried by the frame and having one end forming a spring arm, a hook on the frame for holding the arm in lowered position and under tension, said hook being offset from the arm so that the arm must be moved laterally to engage it with the hook, a hook carrying member connected with the free end of the arm and guiding means for said member offset from the arm when the arm is in engagement with the hook.

1,665,145. APPARATUS FOR DELIVERY OF FLUIDS TO BURNERS. GORDON M. PELTZ, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Jan. 25, 1924. Serial No. 688,462. 27 Claims. (Cl. 158—36.)

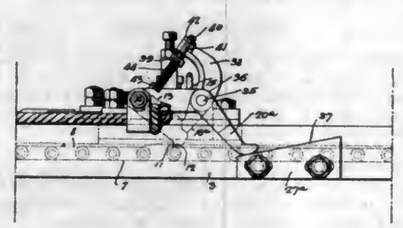


1. The combination with a burner having air supply and fuel supply lines, of an air feeder in the air supply line including a chamber subjected to the pressure in the air supply line, and a second chamber, means for obtaining a pressure difference between these chambers dependent on the quantity of air passing to the burner, and a fuel feeder in the fuel supply line through which the fuel passes, including an inlet valve having operating mechanism under control of the pressure in the first chamber, and an outlet valve having operating mechanism under control of the pressure in the second chamber.

1,665,146. PROCESS OF MAKING COMMERCIALLY-PURE IRON ALLOYS. LEO F. REINARTZ and JOHN H. NEAD, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Oct. 4, 1923. Serial No. 666,611. 1 Claim. (Cl. 75—27.)

The process for production of alloys of low carbon content which consists in forming a bath of molten iron having very low carbon and very low metalloid content under oxidizing conditions, said molten iron while purified and molten but without degasification being located in an electric furnace, degasifying the molten iron in the electric furnace, in such a way as to "kill" the iron, and without alloying the iron forming a reducing slag on the surface of the "killed" iron, and while maintaining the heat in the electric furnace adding a substantially carbon free alloying metal.

1,665,147. WIRE-CARRIAGE-RELEASE DOG FOR PILE-WIRE-CONTROLLING MECHANISM FOR LOOMS. WILLIAM E. SMITH, Milltown, N. J., assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J., a Corporation of New Jersey. Filed May 22, 1926. Serial No. 111,020. 5 Claims. (Cl. 139—42.)



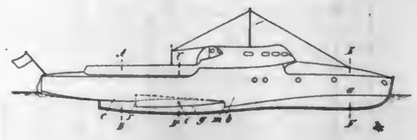
1. In a pile wire controlling mechanism comprising a rail, a wire controlling carriage adapted to be reciprocated on said rail, a chain for moving the carriage in one direction, a driving latch pivotally mounted on the carriage and adapted to engage the chain, and a retaining lever pivotally mounted on said carriage and adapted to engage the driving latch, the combination of a release dog rigidly attached to said retaining lever, a projection on the rail, a cam path formed on one of said elements and adapted to be engaged by the other of said elements, and resilient means opposing the pivotal movement of said release dog for dampening the developed momentum of the carriage.

1,665,148. PROCESS FOR THE PRODUCTION OF ARTIFICIAL STONE AND ARTIFICIAL WOOD. FRANZ TRACHSEL and JAKOB WIEDMER, Bern, and PAUL ZIGERLI, Zurich, Switzerland. Filed May 3, 1926, Serial No. 106,589, and in Switzerland May 1, 1926. 3 Claims. (Cl. 106—27.)

1. The process of producing a plastic composition consisting in mixing organic fibrous material with a mixture of water glass and turpentine oil, incorporating a precipitating agent with the mass and adding Portland cement.

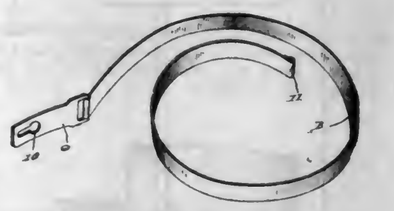
1,665,149. CONVERTIBLE SKIMMING BOAT OR LIKE WATER CRAFT. PIETER HENDRIK VAN WIENEN, Hamburg, Germany. Filed July 16, 1926, Serial No. 122,990, and in Germany Sept. 23, 1925. 5 Claims. (Cl. 114—66.5.)

1. A combined surface and displacement boat comprising a keel and a bottom portion having a recess therein; and a wedge-shaped member pivoted intermediate its ends in the recess and having a front sharp end and a rear blunt end, said member when entirely in the recess presenting a smooth bottom with the bottom of the boat to render the boat a displacement boat and



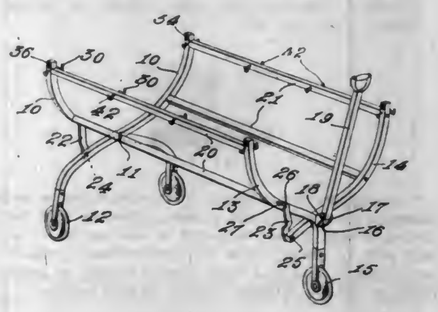
when the rear blunt end projects beyond the recess the front end of the recess and the rear blunt end of the member form projecting steps in the bottom of the boat to render the boat a surface boat.

1,665,150. BRAKE-BAND TOOL. LEONARD E. WATSON, St. Marys, W. Va. Filed Jan. 22, 1926. Serial No. 83,102. 8 Claims. (Cl. 29—87.1.)



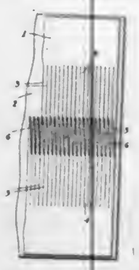
1. A tool for facilitating the removal of a transmission band from a transmission drum comprising a strip or band formed of spring metal and means at one end of the band for detachably engaging a part of a transmission band to connect the said transmission band to the tool, the tension of the spring strip causing it to follow the contour of the drum as the strip is pushed over the drum.

1,665,151. BASKET CART. JESSIE ETHYL WILLIAMS, Perry, Okla. Filed Sept. 1, 1926. Serial No. 133,068. 6 Claims. (Cl. 280—36.)



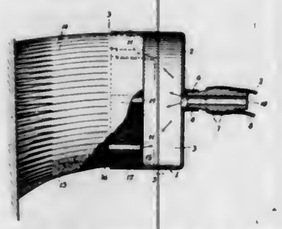
1. A device of the character described comprising a frame including reversely curved end members connected by longitudinally extending bars and pivoted in cross relation, the members at one end being equipped with rollers and one member at the other end being equipped with a roller, and a handle pivotally mounted at said second named end.

1,665,152. PROCESS OF MANUFACTURING BRUSHES. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Filed Oct. 2, 1924, Serial No. 741,250, and in Australia May 2, 1924. 2 Claims. (Cl. 300—21.)



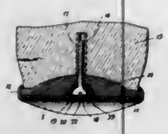
1. The process of making a filamentous rubber blank which consists in uniting one entire face of a strip of flexible elastic rubber to a relatively non-elastic backing, cutting said strip with slits while it is united to said backing, forming filaments, and removing said backing.

1,665,153. FOUNTAIN BRUSH FOR AUTOMOBILES. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Filed Oct. 20, 1924. Serial No. 744,799. 5 Claims. (Cl. 15—128.)



1. A fountain brush, comprising a cup-shaped casing having a hose connection, and a head closing said casing and having a filamentous portion arranged in the form of convoluted laminæ and defining between said laminæ a convoluted passage in communication with the casing.

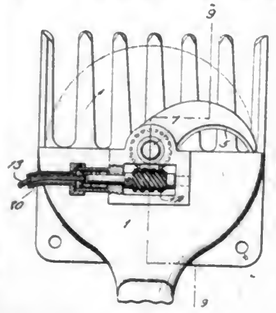
1,665,154. SUPPORT FOR YIELDABLE DENTURES. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Filed Dec. 22, 1924. Serial No. 757,559. 8 Claims. (Cl. 32—9.)



1. A support for artificial teeth comprising a backing formed with a socket and a post carried by said backing having a head loosely mounted in said socket to permit said post to deviate from the perpendicular, relative to said backing, said post being adpted rigidly to support a tooth in movable relation relative to said backing.

1,665,155. TRIMMER. WILL YERGER, West Philadelphia, Pa. Filed Dec. 10, 1924. Serial No. 755,052. 1 Claim. (Cl. 30—11.)

A device of the character described comprising a frame, a handle attached to the frame, a bottom plate on the frame formed with a plurality of spaced fingers, an arcuate housing at the inner end of the plate, a removable cover plate for the frame having an enlargement, a bolt extending through the bottom plate and through the enlargement, a sleeve mounted on the bolt, a worm gear

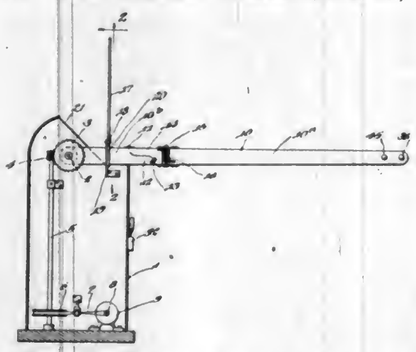


mounted upon the sleeve, nuts threaded on the upper end of the bolt and bearing against the sleeve, a driven shaft extending through the enlargement, a worm upon said shaft adapted to mesh with the first worm, and a rotary cutter carried by the inner end of the sleeve and rotatable over the fingers as and for the purpose specified.

1,665,156. SWITCH. AUGUST W. ALBERS, Philadelphia, Pa., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 5, 1925. Serial No. 13,280. 46 Claims. (Cl. 32—5.)

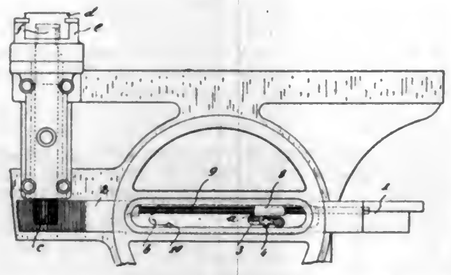
1. In combination, a drawer, a pivoted instrument support carried thereby, and an electrical switch, one contact element of which is movably carried by said drawer and adapted to be actuated in accordance with the pivotal movement of said instrument support.

1,665,157. TRAFFIC-CONTROLLING DEVICE. GEORGE HENRY DAHNKE, Benton Harbor, Mich. Filed Sept. 30, 1925. Serial No. 59,653. 1 Claim. (Cl. 39—1.)



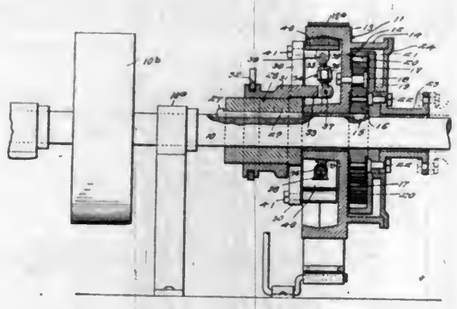
In traffic control means of the character described, a supporting structure, a main control arm pivotally associated with the supporting structure, means for raising and lowering said arm, and a supplemental arm pivotally mounted intermediate its end portions to the supporting structure, said supplemental arm having a portion extending beyond its pivotal connection with the supporting structure beneath the main arm whereby said supplemental arm is adapted to be operated by operation of the main arm, and said supplemental arm being adapted for movement through a plane substantially at right angles with respect to the plane through which said main arm is adapted to move.

1,665,158. FEED AND TRAVERSING MOTION FOR LATHES. FRITZ RICHARD DEURING, Munich-Gladbach, Germany. Filed Jan. 14, 1924, Serial No. 685,959½, and in Germany Mar. 24, 1923. 2 Claims. (Cl. 29—39.)



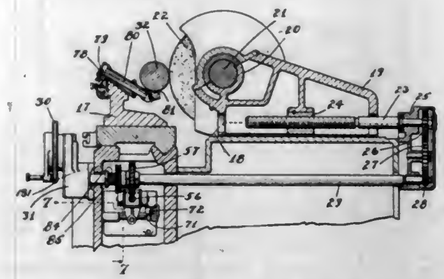
1. Feed motion mechanism for lathes having turret slides and cross slides, comprising two reciprocable racks for moving the turret slide and the cross slide respectively, means for reciprocating said turret slide rack, a catch pivoted to one of said racks, an abutment carried by the other rack, a member rotated stepwise by reciprocation of said turret slide rack, said rotatable member having means for moving said catch into position to engage said abutment in one position thereof, whereby said cross slide rack will be moved with said turret slide rack.

1,665,159. PLANETARY REVERSIBLE CLUTCH. FLOYD E. DONALD and CHARLES P. BOYCE, Corsicana, Tex. Filed Apr. 17, 1926. Serial No. 102,703. 1 Claim. (Cl. 74—34.)



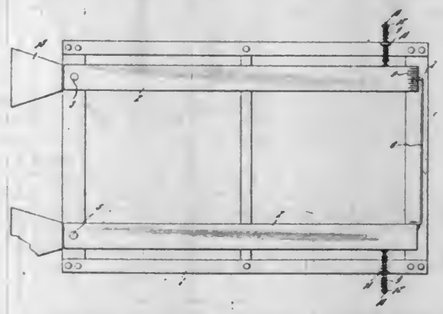
A device of the class described comprising a shaft, a bracket rigid with said shaft having outwardly extending arms, a gear wheel rigid with said shaft, a drum loose on said shaft disposed principally between said bracket and said gear wheel, a sleeve slidable on said bracket, brake shoes pivoted to said arms, operative connections between said arms and said sleeve, said drum having a main wall and first and second flanges extending laterally on opposite sides thereof, said shoes being engageable with the first flange, gear wheels pivoted to said main wall and in mesh with the first mentioned gear wheel, a planetary gear wheel having a laterally extending wall provided with teeth in mesh with those of the second mentioned gear wheel, a second flange extending outwardly of and across the said planetary gear wheel, and an attaching member extending from the planetary gear wheel.

1,665,160. AUTOMATIC SIZE-GRINDING MACHINE. SOL EINSTEIN, WILLETTS PEASLEE, and FRED S. HAAS, Cincinnati, Ohio, assignors, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed July 29, 1925. Serial No. 46,818. 11 Claims. (Cl. 51—165.)



5. A control device for the return movement of a grinding wheel carriage including a drum frictionally coupled with the feed mechanism of the carriage, a member windable on the drum, means limiting the amount of winding movement thereof, whereby the frictional coupling will permit a slipage of the parts if the determined winding action has occurred, and means urging the unwinding of the connection to the amount of previous winding thereof, whereby said means will urge the movement of the carriage in a reverse direction when the feed mechanism is relieved of its impelling force.

1,665,161. WHEEL-ALIGNING TOOL. WILLIAM T. FRAZIER, Chase City, Va. Filed Nov. 30, 1925. Serial No. 72,329. 4 Claims. (Cl. 33—203.)

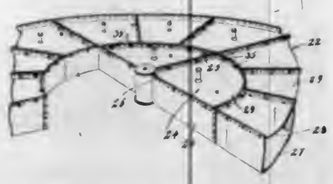


1. An apparatus of the class described, comprising a frame, a pair of track members each having one end pivoted thereto and the other end free so that said members will move with the wheels of a vehicle engaging the members, if said wheels are out of alignment one track member having a scale on its free end, means for normally holding the track members in parallel relation and an indicator connected with the other member and cooperating with said scale for indicating the amount of movement of the members.

1,665,162. CALICO-PRINTING COLOR COMPOSITION AND PROCESS. MORITZ FREIBERGER and AUGUST HOLTMANN, Berlin-Charlottenburg, Germany. Filed Oct. 25, 1924, Serial No. 745,921, and in Germany Dec. 14, 1923. 11 Claims. (Cl. 8—6.)

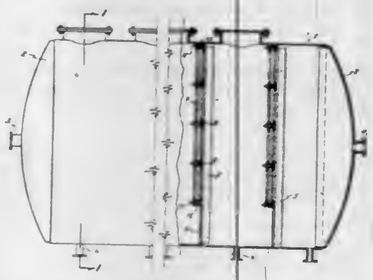
1. A cloth or calico printing composition which includes a water insoluble organic body of high molecular weight and of high viscosity.

1,665,163. FLOATING DECK FOR OIL TANKS OR THE LIKE. CHARLES R. GALLAGHER, Los Angeles, Calif., assignor to Universal Holding Company, Los Angeles, Calif., a Corporation of Delaware. Filed June 12, 1926, Serial No. 115,453. Renewed Oct. 4, 1927. 21 Claims. (Cl. 220—26.)



1. A buoyant deck for oil tanks comprising a plurality of pontoons of sector shape in horizontal section and having marginal walls extending upwardly to provide water pans, the pontoons being placed in a circular series to form a circular deck, and means for attaching the pontoons together.

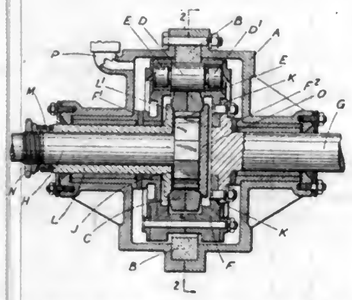
1,665,164. APPARATUS FOR SEPARATING LIQUID CONTAINING A DISPERSED PHASE OF ANOTHER LIQUID. EARLE W. GARD, Long Beach, BLAIR G. ALDRIDGE, Los Angeles County, and HUGH J. MULTER, Huntington Park, Calif. Filed Nov. 16, 1926. Serial No. 148,732. 5 Claims. (Cl. 210—43.)



1. An apparatus for separating one liquid dispersed in another, a chamber, an inlet at one end of said chamber and an outlet at the other end of said chamber, a plurality of grids in said chamber, means for attaching a plurality of foraminous plates to said gridwork, a liquid outlet between said grids.

1,665,165. FRICTION OR ADHESION GEARING. EDWARD HENRY JAMES CECIL GILLETT, Hampstead, London, England. Filed Apr. 10, 1926, Serial No. 101,139, and in Great Britain Sept. 10, 1925. 5 Claims. (Cl. 74—34.)

1. Epicyclic frictional transmission gearing comprising a fixed and a movable race-ring, one of which is radially resilient, a plurality of planetary rollers running between said rings and an axially displaceable spring-loaded member provided with a tapered portion engaging the resilient ring in suchwise as to exert a radial pressure thereon, a plurality of wedging surfaces associated with the resilient ring and a set of devices such as rollers arranged between



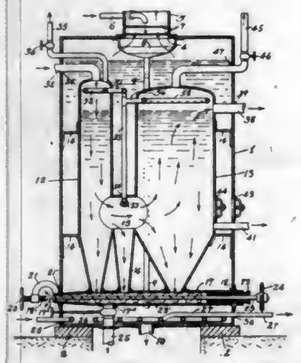
the wedging surfaces and the resilient ring and acting to vary the radial pressure applied to the latter proportionally to the torque to be transmitted.

1,665,166. ELECTRICAL CONNECTER. JOHN ELPHINSTONE GRAHAM, London, England. Filed Oct. 21, 1925, Serial No. 63,934, and in Great Britain Oct. 31, 1924. 2 Claims. (Cl. 173—263.)



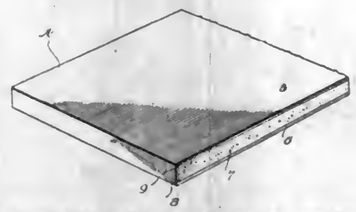
1. A sheet material connecter for facilitating the soldering of electric conductors together, said connecter being bent up and shaped from a blank shaped to include two parallel portions of similar formation joined by a strip and having cut away angles where said portions join the strip and other portions along the edges of the first named portions to form flanges adapted to extend towards each other at their free edges, the said bent up blank forming a chamber to hold the solder, and a plurality of openings in communication with said chamber for the passage and retention of electric conductors.

1,665,167. PROCESS FOR CLARIFYING LIQUIDS. ANTONIO VALLÉE Y GUMÁ, Habana, Cuba. Filed Nov. 7, 1921, Serial No. 513,421, and in Cuba Oct. 21, 1921. 4 Claims. (Cl. 127—57.)



1. A process for clarifying liquids which have been alcalinized and cleared of the air and vapors contained therein, which consists in subjecting a body of such liquids to the action of an external heating agent to maintain in the liquid the uniform temperature of 100 degrees C. or 212 degrees F. during the clarification and settling of the materials contained in suspension in the liquid mass.

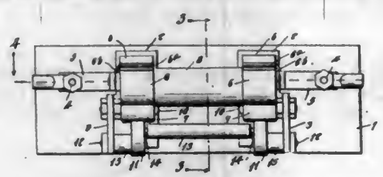
1,665,168. WALL BOARD. EDWIN L. GUSTAFSON, Fort Dodge, Iowa, assignor, by mesne assignments, to United States Gypsum Company. Filed Dec. 2, 1919, Serial No. 341,942. Renewed Oct. 21, 1921. Serial No. 509,366. 14 Claims. (Cl. 154—45.9.)



6. A composite board comprising, in combination, a plaster body, having an enveloping covering material, the side edges of which lie at the edge of the board.

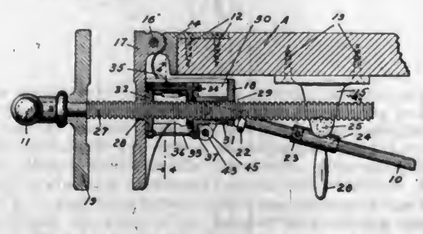
8. A plaster board of the kind described comprising a body and a covering sheet arranged at each face side thereof, one of said sheets folded over the edge and extending substantially to and terminating at the opposite face and inclosing the edge.

1,665,169. HOLDER FOR ELECTRIC FUSES. OREN E. HOLTSCLAW, Elwood, Ind., assignor of one-half to G. I. Sellers & Sons Company, Elwood, Ind., a Corporation. Filed Apr. 21, 1925. Serial No. 24,834. 5 Claims. (Cl. 200—134.)



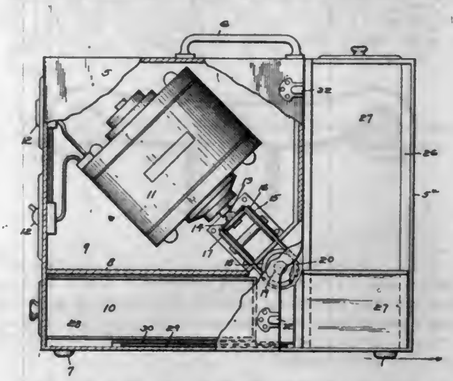
1. A fuse holder comprising a base fixed jaws secured to the base, movable jaws connected to the base, and simultaneously operable cams connected to the base and cooperating with the movable jaws to retain them in fuse clamping position.

1,665,170. VISE. OLE C. LARSEN, Minneapolis, Minn. Filed July 29, 1927. Serial No. 209,343. 8 Claims. (Cl. 81—36.)



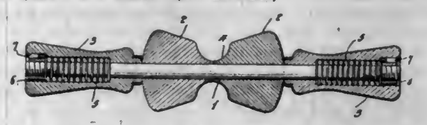
1. A vise comprising a bench plate, a pair of jaws tiltably mounted thereon, a screw for clamping said jaws toward each other, means for releasing the screw when the vise jaws are relatively movable in a horizontal direction, and means for automatically rendering the releasing means inoperative when the jaws are tilted.

1,665,171. ORTHO ROTOR PLANE. JESSE VANCE MATTESON, Jr., Santa Rosa, Calif. Filed Nov. 24, 1926. Serial No. 150,617. 9 Claims. (Cl. 125—3.)



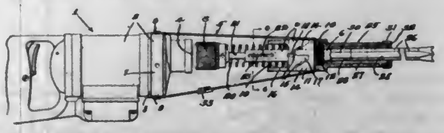
1. A device of the character described comprising a casing, an assembly comprising an electric motor, a vertically disposed rotary plane blade and driving connections between the plane blade and the rotor, said assembly being disposed diagonally across said casing and a table slidable across said casing outside of said plane blade.

1,665,172. SHANK-FORMING TOOL. JOHN MICALL, Lawrence, Mass. Filed Apr. 29, 1924. Serial No. 709,842. 2 Claims. (Cl. 12—34.)



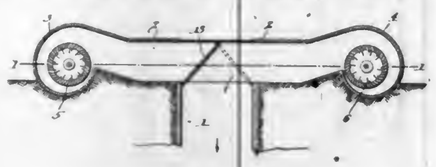
1. A tool for forming the shanks of shoes comprising a spindle, a pair of rolls mounted thereon having shank-forming surfaces and adapted for separating movement thereon, handles movable axially of the spindle to control the separating movement of the rolls, expansive springs within said handles abutting the handles, securing means threadedly engaging the spindle and abutted by said springs, interengaging means between said securing means and said handles, said springs serving to urge said rolls toward each other, and the tension of said springs being adjustable by rotating the handles relatively to the spindles.

1,665,173. HAMMER ATTACHMENT FOR ELECTRIC DRILLS AND THE LIKE. JOHN I. MISENER, Syracuse, N. Y. Filed Aug. 10, 1925. Serial No. 49,479. 2 Claims. (Cl. 255—42.)



2. A hammer mechanism comprising a casing, a tool holder fixed to one end of said casing, a revolving and reciprocating head in said casing having one end thereof extending into one end of said tool holder and provided with a noncircular portion, a tool having a noncircular portion extending into the other end of said tool holder, and a sleeve having a circular portion and a noncircular portion reversibly mounted in said tool holder so that the noncircular portion coacts with the noncircular portions of the head and tool or is reversed to coact with only one of said parts.

1,665,174. VENTILATING APPARATUS. WILLIAM J. MONTGOMERY, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a Corporation of Ohio. Original application filed Oct. 28, 1922, Serial No. 597,669. Divided and this application filed Jan. 21, 1926. Serial No. 82,775. 4 Claims. (Cl. 98—50.)



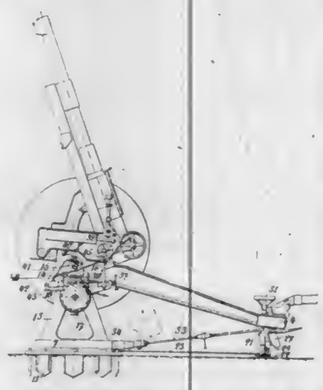
1. In combination with two conjunctive conduits having an outlet at the point of juncture, a fan in each of said conduits selectively operable to develop a fluid current therein, and valve means at the point of juncture actuated automatically by the pressure in one conduit to close the other conduit.

1,665,175. MANUFACTURE OF CATALYSTS. HARALD NIELSEN, Muswell Hill, London, England, assignor of one-half to Bryan Laing, Hatfield, England. Original application filed Nov. 27, 1922, Serial No. 603,696, and in Great Britain Dec. 3, 1921. Divided and this application filed Mar. 7, 1925. Serial No. 13,916. 4 Claims. (Cl. 23—237.)

1. A metallic catalyzer for use in the manufacture of formic acid or the treatment or conversion of hydrocarbons consisting of copper sub-oxide which has been precipitated from copper sulphate by means of metallic zinc.

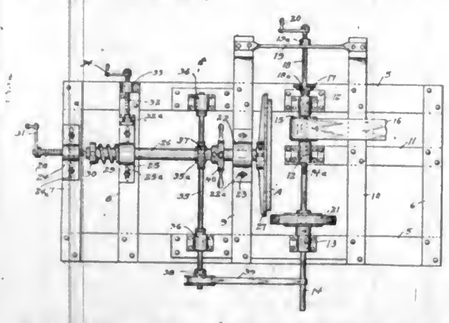
3. A method of revivifying the copper sub-oxide catalyzer claimed in claim 1 which consists in moistening the vitiated or deoxidized copper sub-oxide with a weak solution of zinc sulphate.

1,665,176. ARRANGEMENT PROVIDING FOR THE AIMING OF AN ARTILLERY CARRIAGE IN ALL DIRECTIONS. EMILE RIMAILHO, Paris, France, assignor to Compagnie des Forges & Acieries de la Marine & d'Homecourt, Paris, France. Filed June 2, 1925, Serial No. 34,483, and in France June 14, 1924. 4 Claims. (Cl. 89—40.)



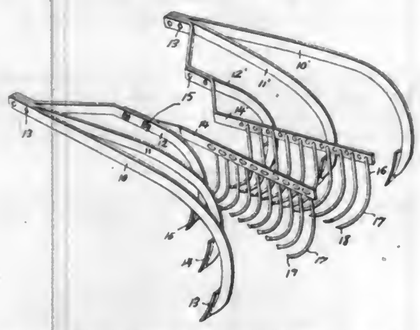
1. In an artillery arrangement, the combination of a gun carriage, an enlargement at the rear of said carriage, a circular roller path, rollers mounted on the enlargement and cooperating with the said roller path, means for the vertical adjustment of one of the said rollers, a base plate, a support mounted thereon and adapted to support the front part of the carriage, and bracing rods connecting the said base plate with the enlargement of the carriage.

1,665,177. GRINDING MACHINE FOR MILL BURRS OR OTHER ARTICLES. CONRAD A. RYAN, Canton, Minn. Filed Oct. 7, 1925. Serial No. 60,995. 4 Claims. (Cl. 51—50.)



1. A machine of the class described comprising a support, a carrier shaft journaled on said support having a rotary carrier member mounted on the inner end thereof, a grinding shaft journaled on said support and extending transversely to said carrier shaft, a grinding wheel on said grinding shaft, means for moving said grinding wheel in both directions across a portion of said carrier member, and means for adjusting said carrier shaft longitudinally including a longitudinally movable worm engaging the outer end of said carrier shaft, driving connections between said grinding shaft and said carrier shaft, and resilient means for impelling said shaft outwardly away from said grinding wheel.

1,665,178. ATTACHMENT FOR CULTIVATORS OR PLOWS. PAUL RYAN, Dakota City, Nebr. Filed Dec. 18, 1925. Serial No. 76,318. 1 Claim. (Cl. 97—179.)



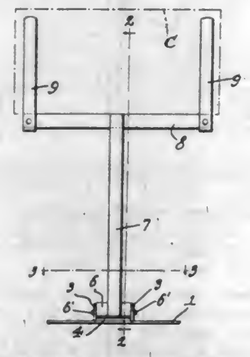
The combination with a bar for connection with a cultivator gang frame, said bar being apertured transversely, of a prong including a vertical shank portion, the upper part of which is adapted to engage the side of the bar, said prong being offset above the part thus engaging the bar, and the offset portion extending horizontally thru the bar at a right angle with the vertical portion of the shank and being of U-form, the extreme end projecting thru the bar and an aperture therein, in a direction opposite to that first engaged by the offset portion, in the same horizontal and said extreme end being headed in the apertured portion thru which it passes, the headed portion and the upper part of the shank engaging the bar on the frame side thereof.

1,665,179. HANDLED NESTED CUPS. GEORGE E. SAVAGE, Meriden, Conn., assignor, by mesne assignments, to Manning, Bowman & Co., Wilmington, Del., a Corporation of Delaware. Filed Jan. 22, 1925. Serial No. 3,943. 2 Claims. (Cl. 215—13.)



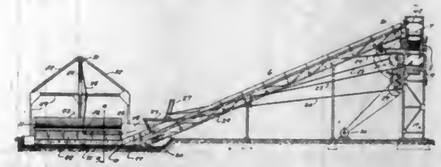
1. The combination of a plurality of nested cups fitted one upon another and having engaging external and internal screw-threaded portions, a spring wire handle for each cup having curved portions embracing the axis of said cup and engaging the external screw-threads thereof adjacent to the lip of the cup, each handle having an integral grip portion and being in its entirety in a plane approximately parallel to the lips of said cups.

1,665,180. CARD HOLDER. FREDERICK WILLIAM SCHEPMAN, Evansville, Ind., assignor to Edward Eugene Heer, Springfield, Mo., and myself. Filed Jan. 12, 1927. Serial No. 160,698. 1 Claim. (Cl. 40—146.)



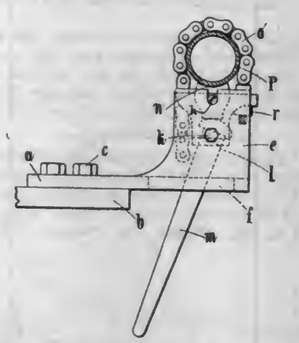
A device of the class described including a flat plate having an aperture, ears at opposite sides of the aperture and upstanding from the plate, said ears being formed of material removed in the formation of the aperture, a spring secured at one end flat upon the plate and having its other end portion extending partly across the aperture and between the ears, a cross strip journaled in the ears, said cross strip being angular in cross section, a standard secured to and movable with the cross strip, card holding means carried by one end of the standard, the other end of said standard being projected beyond the cross strip, there being an aperture in that portion of the spring overhanging the opening in the base plate, said spring constituting means for holding the cross strip in either of two positions, the aperture in the spring being adapted to receive the projecting end of the standard to fasten said standard in an upstanding position relative to the plate, said spring being depressible into the opening in the plate to release the standard.

1,665,181. BEET DUMP. JAMES W. SILVER, Ogden, Utah. Filed Jan. 18, 1926. Serial No. 82,031. 4 Claims. (Cl. 209—241.)



1. In beet dump apparatus, the combination of a main inclined conveyer, transverse conveyer means embodying screening means projected laterally of one side of said main conveyer at the upper end thereof for discharging the clean beets on that same side of the main conveyer, a substantially elevated tare receptacle mounted underneath said screening means for receiving and discharging the refuse from the beets also on the same side of said conveyer as the discharge of the clean beets, a beet load receiving hopper disposed at the lower end of said main conveyer in the longitudinal line thereof, and wagon dumping means associated with said hopper and likewise located on the same side of the apparatus as are said screening means and tare receptacle.

1,665,182. DEVICE CONVERTING PIPE WRENCHES INTO PIPE VISES. FRANK BERTRAM CHISWELL SUTTHERY, London, England. Filed Feb. 16, 1927, Serial No. 168,766, and in Great Britain Mar. 1, 1926. 4 Claims. (Cl. 81—41.)

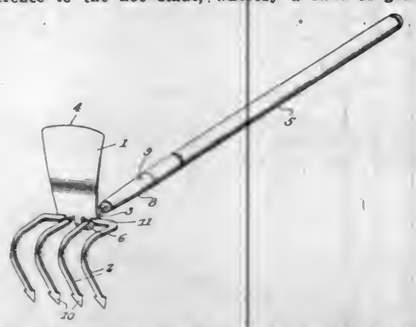


1. A device comprising a base provided with a slot, a bracket on each side of said slot, means for securing said base to a work table and means for securing a pipe wrench between said brackets with the handle of said wrench depending through said slot.

1,665,183. COMBINED HOE AND RAKE. EMIL URBAN, Comstock, Nebr. Filed Apr. 25, 1927. Serial No. 186,487. 1 Claim. (Cl. 97—62.)

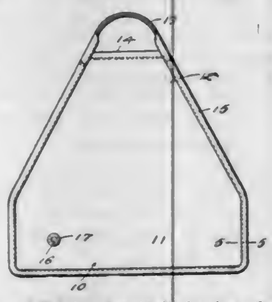
A combined hoe and rake including a hoe blade and rake tines extending from the inner end of the hoe blade, the said blade and tines being formed from a single piece of metal, said tines comprising spaced bars, the outer ones of which extend laterally beyond the

plane of the side edges of the hoe blade and then project forwardly and downwardly to offset the rake with reference to the hoe blade, whereby a rake of greater



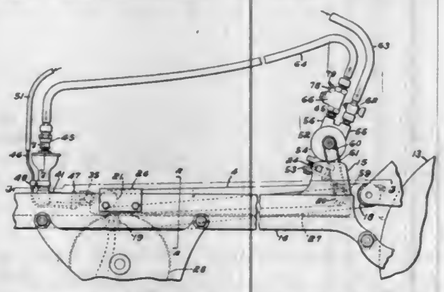
width than the hoe blade is provided, and a shank integral with the hoe blade and rake for connection with a handle.

1,665,184. RECEPTACLE. ALVIN H. THROWER, Waco, Tex., assignor to Clifton Manufacturing Company, Waco, Tex., a Copartnership composed of A. T. Clifton and W. R. Clifton. Filed Jan. 8, 1927. Serial No. 159,950. 1 Claim. (Cl. 224—45.)



A waterproof fabric receptacle having the side walls thereof provided with extensions and the free ends of which are formed as handles, the side walls of the receptacle having openings permitting passage of the jaws of an ice tong to engage a cake of ice contained therein.

1,665,185. MEANS FOR TREATING SHEET MATERIAL WITH HEAT. LEO W. RAUNELL, Foxboro, Mass., assignor of one-third to Burt F. Upham and one-third to Edward W. Calkins, Boston, Mass. Filed Mar. 19, 1927. Serial No. 176,633. 15 Claims. (Cl. 34—18.)

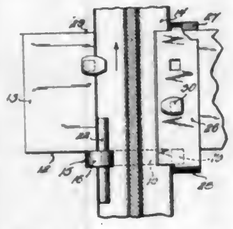


1. In a printing press, the combination of a gas burner, means for causing a relative movement of the sheet of paper and the gas burner, a pump for pumping gas to said burner, and means to cause said pump to pump gas to said burner only when the press is operating.

1,665,186. PROCESS OF MAKING SULPHUR-CONTAINING PLASTICS. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Feb. 25, 1926. Serial No. 90,621. 5 Claims. (Cl. 106—22.)

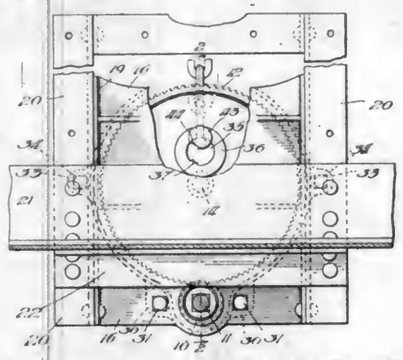
1. The process which comprises grinding together wood flour and sulphur, adding water to moisten the mass, and hot pressing the moist material.

1,665,187. RAIL ANCHOR. EMERY M. MCVICKER, Milwaukee, Wis., assignor to J. F. McVicker, Milwaukee County, Wis. Filed Aug. 2, 1926. Serial No. 126,440. 13 Claims. (Cl. 238—299.)



1. An anti-creeper for railway rails comprising a member having an integral portion engageable beneath a base flange of a rail, an integral portion overlying the flange, and a wedge interposed between said last named portion and the top face of the flange for effecting a vertical gripping pressure therebetween, said wedge having a transversely curved surface coacting with said last named portion to permit the wedge to accommodate itself to variations in the inclination of said face.

1,665,188. CHAIN ANCHOR FOR BRAKE GEARS. ARTHUR F. O'CONNOR, Chicago, Ill., assignor to Union Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1927. Serial No 167,930. 7 Claims. (Cl. 74—112.)

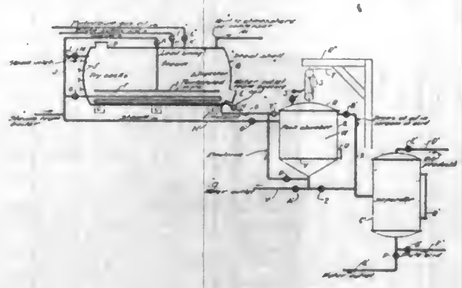


1. In a chain anchor for brake gears, the combination of a winding gear provided with a decentered aperture, means for imparting rotation thereto, a drum with which the gear is associated, a brake chain, and a hook-like member connected with the chain and having its free end entered through said aperture, substantially as described.

1,665,189. SEPARATION OF ACID-SLUDGE EMULSIONS. ERNEST W. ROTH, Los Angeles, Calif., assignor to General Petroleum Corporation of California, Los Angeles, Calif., a Corporation of Delaware. Filed Apr. 13, 1927. Serial No. 183,593. 1 Claim. (Cl. 23—173.)

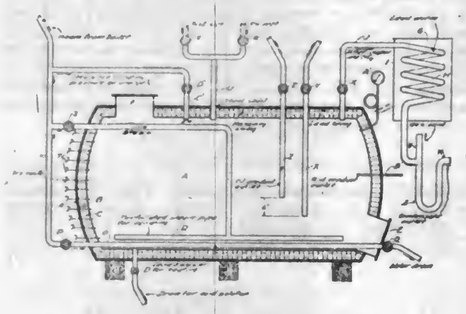
The method of breaking emulsions of tar and dilute acid resulting from the hydrolysis of acid sludge, which

comprises: passing a stream of such emulsion through a pack of granular inert material to produce coalescence of the particles of such emulsion, retarding the flow of



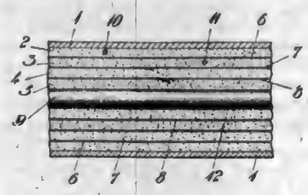
the efflux from said pack to permit further coalescence and stratification of the coalesced particles, and withdrawing separately the tar and the dilute acid.

1,665,190. HYDROLYSIS OF ACID SLUDGE. ERNEST W. ROTH, Los Angeles, Calif., assignor to General Petroleum Corporation of California. Los Angeles, Calif., a Corporation of Delaware. Filed Apr. 13, 1927. Serial No. 183,595. 9 Claims. (Cl. 23—173.)



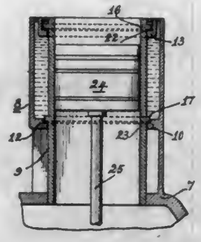
1. The method of separating acid sludge into useful constituents which comprises: digesting acid sludge with a solvent oil and dilute sulfuric acid, said acid having initially a density greater than that of the sludge.

1,665,191. HIGH-TENSION CABLE TO PREVENT A BREAKING DOWN OF THE INSULATION. ERNST GUSTAV SIEVERT and HENNING SVENSSON, Sundbyberg, near Stockholm, Sweden. Filed Nov. 9, 1925, Serial No. 67,949, and in Sweden Nov. 20, 1924. 1 Claim. (Cl. 173—264.)



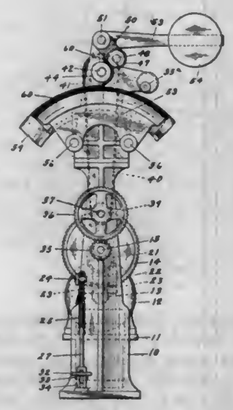
A high-tension cable including an insulating layer, at least one tension equalizing layer arranged into said insulating layer, said tension equalizing layer being formed of asbestos.

1,665,192. INTERNAL-COMBUSTION ENGINE. MORTON SPENCE, Springfield, Ill., assignor of one-half to Earle T. Spence, Springfield, Ill. Filed Feb. 10, 1927. Serial No. 167,171. 2 Claims. (Cl. 123—173.)



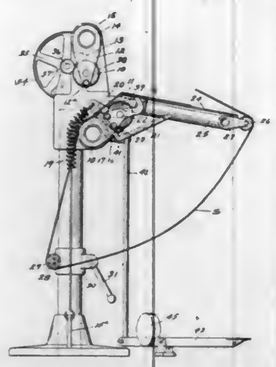
1. In conjunction with a cylinder body having at its upper part a recessed internally screw-threaded member, said cylinder body having also an upper internal circular flange and an intermediate circular member having a circular shoulder; a removable cylinder having external circular flanges co-operating with the respective inner flange-and-shoulder members of the cylinder body; washers interposed between the respective inner-flange-shoulder members of the cylinder body and the respective outer flanges of the removable cylinder; and an externally screw-threaded ring engaging the screw threads in the recess of said upper flange member of the cylinder body and rotative to make a tight connection of the removable cylinder with the cylinder body.

1,665,193. TREAD-REMOVING MACHINE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 26, 1925. Serial No. 11,687. 3 Claims. (Cl. 154—9.)



1. Apparatus of the class described comprising a support for pneumatic tires, a pair of gripping rollers, said support and gripping rollers being relatively movable into or out of the same plane, means for yieldingly urging one of said rollers toward the other and means for driving both of said rollers.

1,665,194. BAND-BUILDING MACHINE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 8, 1926. Serial No. 93,083. 6 Claims. (Cl. 154—10.)



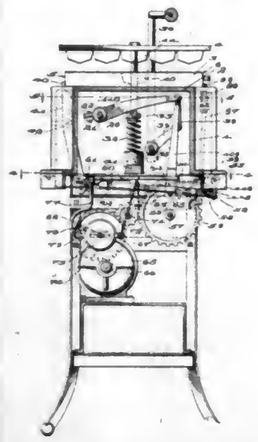
5. Apparatus for making endless bands of rubberized fabric, said apparatus comprising upper and lower pressure rollers, a support for swinging the lower pressure roller forwardly and downwardly from the upper pressure roller, and a table inclined toward the nip of said rollers.

1,665,195. REENFORCED SAFETY BAT. EDWARD COHN, Brooklyn, N. Y. Filed Jan. 14, 1927. Serial No. 161,228. 7 Claims. (Cl. 273—72.)



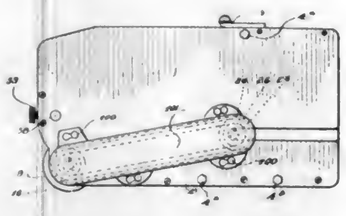
7. In a baseball bat, or stick, or other sporting body, or parts thereof, having a central hole extending therethrough, a solid shock absorbing rod extending through the central hole and said rod being secured at its ends, by washers and binding end members mounted on the ends of said rod.

1,665,196. ELECTRICAL DOUGH-IMPRINTING MACHINE. MEYER COLLIS, Charleston, S. C. Filed Apr. 29, 1926. Serial No. 105,554. 27 Claims. (Cl. 107—8.)



1. A machine of the character described comprising a pan having dough pockets and a presser head having dies; in combination, a movable yoke for advancing the presser head into an engaging position of the dies with dough blanks in said pockets, normally dormant mechanism by which the yoke is operable, and means actuated by engagement of a portion of the pan when in registering position with the presser head to put said mechanism in motion for operation of the yoke.

1,665,197. MARKING MACHINE. FRED J. LEDERER, Buffalo, N. Y. Filed Sept. 8, 1925. Serial No. 54,952. 17 Claims. (Cl. 101—330.)



1. An apparatus of the class described comprising a casing having an opening, a rotary impression roller of soft material mounted in the casing having its periphery operable through said opening, design roller engaging the soft impression roller and enclosed in the casing, a color receptacle connected with the casing, and distributing means interposed between the color receptacle and the design roller and enclosed by the casing.

Patents Nos. 1,665,198 to 1,666,061.

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Total	1,317		

Interference Notices.

U. S. PATENT OFFICE, *Washington, Mar. 28, 1928.*

Spinks & McIlwain, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edward F. Read, 1721 Lombard Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered September 11, 1923, No. 172,502 to Spinks & McIlwain, 102 Washington Street, Selma, Ala., and a notice of such declaration sent by registered mail to said Spinks & McIlwain at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Spinks & McIlwain, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Mar. 30, 1928.*

Porter-Seitz Shoe Stores Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edward J. Ramsey, 347 Rider Avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered February 5, 1924, No. 179,325, to Porter-Seitz Shoe Stores Company, 203 Pittsburgh Life Building, Pittsburgh, Pa., and a notice of such declaration sent by registered mail to said Porter-Seitz Shoe Stores Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Porter-Seitz Shoe Stores Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Mar. 16, 1928.*

Richard Raines, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application for patent of Thomas A. Bowers, 25 Seaview Apartments, Sheepshead Bay, Brooklyn, N. Y., and patent granted December 21, 1926, No. 1,611,677, to Richard Raines, 441 East 182d Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Raines at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Raines, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, Mar. 29, 1928.*

The Chillicothe Packing Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of John Morrell & Co., of Ottumwa, Iowa, to effect the cancellation of the trade-mark registration of The Chillicothe Packing Company, of Chillicothe, Ohio, No. 40,832, dated July 28, 1908, and the notice of such proceeding sent by registered mail to The Chillicothe Packing Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless The Chillicothe Packing Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Mar. 13, 1928.*

John E. Whitmore, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Bourjois, Inc., of No. 35 West 34th Street, New York, N. Y., to effect the cancellation of the trade-mark registration of John E. Whitmore, of 355 East Utica Street, Buffalo, N. Y., No. 98,027, dated June 30, 1914, and the notice of such proceeding sent by registered mail to the said John E. Whitmore at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said John E. Whitmore, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business March 30, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 97,381; Trade-Mark Division, 2,341. Oldest new case, June 17, 1927; oldest amended, June 25, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application awaiting office action.	Oldest action by applicant awaiting office action.	No. of applications awaiting action.
		New.	Amended.	
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 23	Aug 8	1,489
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Oct. 4	Oct. 13	1,304
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 15	Oct. 5	1,961
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	July 1	July 11	2,157
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Aug. 2	Aug. 2	1,470
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Aug. 24	Sept. 20	2,390
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Aug. 4	Aug. 4	2,265
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Sept. 19	Sept. 27	1,906
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 8	Nov. 11	1,487
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 25	Oct. 29	1,766
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 3	Oct. 8	1,402
380	12. PIERCE, P. P., Machine Elements	July 5	Aug 3	1,893
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 12	Aug. 15	1,868
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 15	July 5	1,616
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 9	Sept. 24	2,021
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Oct. 7	Oct. 19	1,335
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Sept. 3	Sept. 27	1,154
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 16	Aug. 29	1,363
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Oct. 19	Nov. 5	1,408
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Nov. 8	Nov. 12	1,354
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 15	Oct. 11	1,335
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 23	Sept. 17	1,664
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	July 14	July 12	1,429
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 8	July 16	1,484
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors	Sept. 17	Sept. 29	1,980
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 20	July 22	1,290
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 19	Nov. 7	1,332
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 20	Aug. 26	1,936
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 19	July 29	1,768
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	July 29	Nov. 5	1,631
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Sept. 12	Sept. 7	2,532
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 29	Aug. 24	1,844
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Nov. 18	Nov. 17	1,943
304	34. SIMPSON, O. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	July 2	June 25	1,413
116*	35. REYNOLDS, E. C., Duckles, Buttons, Claspe, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 24	Nov. 7	1,470
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Nov. 2	Nov. 4	1,610
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 2	Sept. 12	1,971
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Sept. 22	Sept. 22	1,687
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves: Water Distribution	June 17	July 26	1,553
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Aug. 16	Aug. 31	2,358
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Oct. 31	Nov. 4	996
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Aug. 17	Aug. 16	1,950
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Sept. 16	Oct. 1	2,091
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	July 22	Aug. 5	1,884
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 28	Nov. 2	1,304
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 19	Aug. 20	1,605
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Sept. 2	Sept. 6	2,528
213*	48. ROEPKE, O. B., Electricity, General Applications	Sept. 21	Sept. 26	1,394
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 15	Oct. 7	1,412
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Sept. 10	Sept. 10	2,359
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Sept. 8	Sept. 6	2,022
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Sept. 30	Oct. 6	2,172
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Aug. 31	Aug. 29	1,621
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Sept. 8	Sept. 8	2,109
102	55. RICHARD, V. I. {Bread, Pastry, and Confection Making; Cutlery	Aug. 14	Aug. 14	887
	{Designs	†Feb. 24	†Mar. 3	818
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	June 27	July 26	2,390
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	†Mar. 1	†Mar. 14	2,100
	{Labels and Prints	†Mar. 2	†Mar. 19	241

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

BARLOW *v.* CRABB.

Decided April 24, 1926.

1. INTERFERENCE—PRIORITY—ABANDONED EXPERIMENT.

Where a device embodying the issue was built and installed upon an automobile, but such automobile was driven for only short distances and the inventor stated that considerable experimental work and alterations were made, the car being eventually junked and no longer operated, *Held* that this device constituted merely an abandoned experiment.

2. SAME—SAME—DILIGENCE.

Where B., who was the first to conceive, was doing nothing at the time C. entered the field and for nearly a year thereafter and made no showing why he could not earlier have resumed his activities, *Held* that he was not exercising diligence, and priority properly awarded to C., the first to reduce to practice.

[Decision affirmed by the Court of Appeals of the District of Columbia, 369 O. G. 234.]

APPEAL from Examiners in Chief.

Mr. Arthur P. Greeley for Barlow.

Mr. B. G. Foster for Crabb.

KINNAN, *First Assistant Commissioner:*

The party, Barlow, has appealed from the decision of the Board of Examiners in Chief affirming that of the Examiner of Interferences awarding priority to the senior party, Crabb, of the invention, which is set forth in some nine counts, of which counts 3 and 9 will serve for illustrative purposes.

3. In a steam generator, the method of causing positive circulation within the generator consisting in creating a difference in pressure between portions of the generator and causing such differential pressure to operate mechanical water forcing means for supplying water from the portion of lower pressure to the portion of higher pressure.

9. In a generator for generating steam, the combination of a pressure chamber, and a heating coil connected at both ends with the pressure chamber, and a unit steam pump having its steam end connected between the steam end of the heating coil and the upper part of the pressure chamber and having its water end connected between the lower part of the pressure chamber and the inlet end of the heating coil.

The invention in issue is a steam generator or steam-generator system from which the engine or other motor which the steam is used to operate or the vehicle or other machine which may be driven by such engine derives its energy. The gist of the invention resides in the provision of a positive forcing means or pump to prevent the water in the boiler from being forced back toward the water supply in a system in which the water is heated in the boiler or coil whereby the steam is created. This steam is utilized to operate a pump which feeds the water to the boiler, and thus prevents the expansion of the created steam from forcing any of the water backward in the opposite direction to which it should go in the cycle of the circulating generating system.

Both the Examiner of Interferences and the Examiners in Chief found Crabb, the senior party, who filed his application over a year and one-half before Barlow had conceived of the invention and reduced it to practice at least as early as midsummer of 1920. The reduction to practice consisted in the installation of apparatus, which differed from that disclosed in his application substantially only in the presence of a reciprocating rather than a rotary pump, on an automobile, where it was operated for a considerable time and successfully. Crabb's testimony, corroborated by that of his mechanic, Johnson, supported, as far as it goes, by the testimony of Wilson, is deemed sufficient to justify the conclusion of the tribunals below that Crabb is entitled to a date as early as June 30, 1920, for reduction to practice. He made some further changes, particularly the substitution of the rotary for the reciprocating pump, subsequent to this date, with the result that the apparatus worked somewhat better. He filed his application January 21, 1921. The foregoing facts and findings are not seriously controverted by the party Barlow.

[1] Barlow has been held to have established conception of the invention of the issue as early as 1917, and substantially all the testimony given by him, in addition to that of his brothers stipulated into the record, is not seriously controverted by Crabb. The inference to be drawn from what Barlow claims to have done in 1917 constitutes the real controversy here to be considered. The exhibits, Charts A, B, C, and D, are admitted to disclose the invention of the issue. Substantially the apparatus disclosed in these exhibits was installed upon an automobile and the latter was driven at different times for a total distance which is estimated to have been somewhere between 50 and 250 miles. Barlow states himself that "considerable experimental work and alterations were made from time to time," and that "eventually during the year 1918, the car was junked and no longer operated." What Barlow did at this time must be interpreted in view of his subsequent activities. There is clearly enough evidence that the installation did not work successfully. There was trouble and the experiments were, as one visualizes the testimony of Barlow, and even gives his statements full force and credit, regarded as unsuccessful and unsatisfactory. Barlow, quite evidently, regarded his work as unfinished. It is true he became interested in certain other activities in connection with the Government during the war, but there is no showing that he was prevented thereby from carrying on the development of the invention of the issue. If he had considered his experiments as demonstrating the practicability of the invention, it seems the usual course of human conduct would have been to take further steps in curing the defects and in either making a successful installation or applying for a patent. Barlow did not do any or either of

these things, but waited until some time after Crabb began his activities—in fact until December, 1920, or early in 1921—before again taking up the matter at all. Under these circumstances, no other conclusion seems sustainable than that what Barlow did in 1917 and 1918 constituted but an abandoned experiment.

[2] Since it must be held established that Barlow conceived the invention in 1917, which was prior to any date which can be given Crabb, the question of diligence arises, because what Barlow did in 1917 and 1918 is held not to be a reduction to practice. At the time Crabb entered the field and reduced to practice, in the summer of 1920, Barlow was doing absolutely nothing. The war was over in 1918 or at least long prior to December, 1920, when Barlow resumed his activities. There is no showing as to why he could not have taken up the matter again earlier. Under these circumstances it must be held the conclusion of the tribunals below that Barlow was nondiligent from the time just prior to Crabb's entrance into the field until Barlow reduced to practice is sound and, in consequence, Barlow can not prevail.

Barlow has alleged impropriety in the action of the Examiner in suggesting the allowable claims of Barlow to the party Crabb in whose application no allowable claims existed. There does not appear to have been anything improper in connection with the procedure followed by the Examiner. Where two parties are seeking patents with claims covering substantially the same patentable invention and one has formulated an allowable claim to that invention, it is proper procedure to suggest such claim to the other party to the end that the claim shall be finally allowed to the party first to make the invention. It is immaterial that the second party, while attempting to obtain allowable claims to that same invention, has not yet succeeded in so formulating his claims as to receive favorable consideration of them by the Office tribunals.

The decision of the Examiners in Chief awarding priority to the senior party, Crabb, is affirmed.

Court of Appeals of the District of Columbia.

BARLOW *v.* CRABB.

No. 1,963. Decided December 5, 1927.

INTERFERENCE—PRIORITY.

B. *Held* to have been the first to conceive the invention, but the last to reduce to practice and not diligent, and priority properly awarded to C.

[For Commissioner's decision see 369 O. G. 233.]

APPEAL from the Commissioner of Patents. Affirmed.

Mr. A. P. Greeley for Barlow.

Mr. B. G. Foster for Crabb.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.*:

The invention in controversy is a method and apparatus for generating steam, and is primarily intended for use in connection with motor vehicles.

The invention as a method is stated in count 1 as follows:

1. In a steam generator, the method of causing positive circulation within the generator consisting in creating a difference in pressure between portions of the generator and causing such differential pressure to operate mechanical water forcing means for supplying water from the portion of lower pressure to the portion of higher pressure.

And as apparatus is stated in count 9 as follows:

9. In a generator for generating steam, the combination of a pressure chamber, and a heating coil connected at both ends with the pressure chamber, and a unit steam pump having its steam end connected between the steam end of the heating coil and the upper part of the pressure chamber and having its water end connected between the lower part of the pressure chamber and the inlet end of the heating coil.

Crabb filed his application on January 21, 1921, and is the senior party. Barlow filed on August 30, 1922, and the burden of proof is accordingly upon him. The Examiner of Interferences found upon the evidence that Crabb had actually reduced the invention to practice not later than June 30, 1920, by installing and successfully operating the same upon an automobile, but under the evidence found no earlier date than this for Crabb's conception. It is the claim of Barlow that he conceived the invention and reduced it to practice in the year 1917 by a like successful use upon an automobile. It was found, however, by the Examiner that this alleged operation was but an unsuccessful experiment, and did not amount to an actual reduction to practice. The Examiner therefore found that Barlow had not reduced the invention to practice prior either to Crabb's actual reduction to practice in 1920, or his constructive reduction to practice on January 21, 1921; and that Barlow was lacking in the necessary diligence during that period; and for this reason the Examiner awarded priority to Crabb.

An appeal was taken by Barlow to the Board of Examiners in Chief who affirmed the decision of the Examiner of Interferences; and the decision of the Board was affirmed upon appeal by the Commissioner of Patents, from whose decision the present appeal was taken.

We have examined the evidence in the case, together with the briefs of the respective counsel, and we find no reason apparent in the record to require a reversal of the concurrent decisions below.

The decision of the Commissioner of Patents is therefore affirmed.

Court of Appeals of the District of Columbia.

LEVER BROTHERS COMPANY *v.* ARMOUR AND COMPANY.

No. 2,027. Decided February 6, 1928.

1. TRADE-MARKS—DESCRIPTIVENESS.

The terms "Supercream" and "Supercreamed," as applied to hard soaps, are not descriptive, but fanciful and arbitrary.

2. SAME—SIMILARITY.

The words "Supercream" and "Supercreamed" are obviously so similar in appearance and sound as to lead to confusion, if used as trade-marks for different kinds of soap packed and sold as hard cakes or sticks in cases or cartons.

3. SAME—GOODS OF SAME DESCRIPTIVE PROPERTIES.

Soap, no particular kind or variety of soap being specified, *Held* to be goods of the same descriptive properties as shaving soap put up in cakes and sticks.

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Archibald Cox and *Mr. W. G. Henderson* for Lever Brothers Company.

Mr. G. P. Fisher for Armour & Company.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.*:

This appeal is from a decision of the Commissioner of Patents sustaining an opposition to the registration of a trade-mark.

The Lever Brothers Company sought to register the name "Supercreamed," as a trade-mark for soap, no particular kind or variety of soap being specified. It was stipulated into the record that applicant—

had continuously used the mark of the application upon and in connection with the goods mentioned in the application since September 13, 1924, and had largely advertised the said goods bearing the said trade-mark in the manner illustrated by typical specimens filed herewith marked Exhibits A, B and C.

These exhibits need not be reproduced here.

An opposition was entered by Armour and Company, who showed that for the past 15 years they had continuously manufactured and sold large quantities of cakes and sticks (not paste) of shaving soap under the trade-mark "Supercream." It was also shown that they had extensively advertised their product by that name.

The opposition was sustained by the Examiner of Interferences and the Commissioner of Patents, upon the ground that the words "Supercream" and "Supercreamed" as thus applied are purely arbitrary and fanciful; that they are confusingly similar in appearance and sound; that the goods of the respective parties have the same descriptive properties; and that confusion in trade would likely result from the registration applied for, to the prejudice of opposer.

[1, 2, 3] We think the rulings entered below are right. It is not denied that opposer has established priority of time in the use of its trade-mark. We think that the words "Supercream" and "Supercreamed," when applied to hard soaps, are not descriptive, but fanciful and arbitrary. Such soaps are not made of cream; they have none of the qualities of cream; and they do not resemble cream in point of consistency or otherwise. The words in question are obviously so similar in appearance and sound as to lead to confusion if used as trade-marks for different kinds of soap packed and sold as hard cakes or sticks in cases or cartons. Moreover in *Waltke & Co. v. Schafer & Co.*, 273 O. G. 630, 49 App. D. C. 254, this court held that toilet soap and shaving soap or cream are related materials, and where opposer has a right to use its mark on toilet soap, it may prevent the use of it by others on shaving soap or shaving cream. To grant applicant a registration of its name for soaps without restriction, would result in denying opposer the right to use its mark upon shaving soaps, the names being confusingly similar as aforesaid. Furthermore—

Opposer is not bound to establish damages in order that it may succeed. It is sufficient for it to show that the applicant's mark would "be likely to cause confusion or mistake in the mind of the public," * * * but where there is doubt the courts resolve it against the newcomer. *Waltke & Co. v. Schafer & Co.*, supra. *Coca-Cola Co. v. Chero-Cola Co.*, 288 O. G. 432, 51 App. D. C. 27; *Guggenheim v. Cantrell & Cochrane*, 352 O. G. 533, 56 App. D. C. 100.

The decision of the Commissioner of Patents is affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

786,956, W. Corkhill, Box-making machine, D. C., S. D. Calif. (Los Angeles), Doc. E 43–D, *J. J. Hanford* v. *G. D. Parker*. Dismissed without prejudice Nov. 1, 1927.

932,965, C. W. Conner, Bifocal lens and method of making same, D. C., S. D. Calif. (Los Angeles), Doc. I–60–B. *One Piece Bifocal Lens Co.* v. *E. Van Buskirk et al. (Vanstel Optical Co.)*. Dismissed Jan. 12, 1928.

959,879, W. S. Parker, Railway ticket, D. C., S. D. Iowa (Keokuk), Doc. E 4056, *W. S. Parker Co.* v. *Atchison, Topeka & Santa Fe Ruy. Co.* Dismissed by stipulation Feb. 14, 1928.

971,838, W. M. Fulton, Process of making tubular metal walls, D. C., N. D. Ohio, E. Div., Doc. 2236, *The Fulton Co.* v. *The Bishop & Babcock Mfg. Co.* Patent infringed (notice dated Feb. 17, 1928).

1,009,502, B. Goldman, Skylight, D. C. R. I. (Providence), Doc. 286, *Superior Skylight Co., Inc.*, v. *I. Woolf (Providence Cornice Co.) et al.* Perpetual injunction Feb. 7, 1928.

1,018,502, Just & Hanaman, Incandescent body for electric lamps, D. C., S. D. N. Y., Doc. E 41/314, *General Electric Co.* v. *H. A. Berthold.* Patent sustained, injunction granted, Feb. 16, 1928.

1,047,549, W. G. Moffett, Vending machine, D. C., S. D. Calif. (Los Angeles), Doc. E L–71–H, *W. G. Moffet* v. *Stewart Stationery Vending Machine Co. et al.* Dismissed without prejudice Dec. 23, 1927.

1,068,004, E. W. Northrop, Fruit-cleaning machine, filed Dec. 15, 1927, D. C., E. D. Pa., Doc. 4259, *American Machinery Corp.* v. *Everedy Machine Co.*

1,080,021, H. C. Randall, Controlling mechanism for elevator doors and cars, D. C., S. D. Calif. (Los Angeles), Doc. J–103–H, *A. L. Randall et al.* v. *Elevator Supplies Co., Inc.* Stipulation for and decree of dismissal Jan. 9, 1928.

1,097,673, G. Restucci, Scraper for water-tube boilers, water pipes, etc., filed Feb. 21, 1928, D. C., E. D. Mich., S. Div., Doc. 2478, *Grinder Sales Co.* v. *Hutto Engineering Co.*

1,176,322, Schumacher & Schumacher, Process of making plaster board, D. C., S. D. Calif. (Los Angeles), Doc. J–27–M, *Schumacher Development Corp.* v. *Pacific Building Board Co. et al.* Dismissed without prejudice Jan. 12, 1928.

1,195,923, R. Gans, Softening water, D. C., S. D. N. Y., Doc. E 27/5, *The Permutit Co.* v. *Paige & Jones Chemical Co., Inc.* Patent sustained, injunction granted, Feb. 17, 1928.

1,207,337, F. J. Stokes, Rotary compressor for making perforated tablets, filed Feb. 24, 1928, D. C., S. D. N. Y., Doc. E 44/240, *F. J. Stokes Machine Co.* v. *Life Savers, Inc.*

1,212,161, F. E. Getts, Switch, filed Feb. 21, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2187, *Electrical Engineers Equipment Co.* v. *Line Material Co.*

1,230,865, R. P. Clark, Cover for fruit, D. C., N. D. Ga. (Atlanta), Doc. 456, *R. P. Clark* v. *Atlanta Paper Co.* Dismissed without prejudice Feb. 18, 1928.

1,247,335. H. W. Russ, Wood-heel-turning machine, D. C., S. D. N. Y., *United Shoe Machinery Corp.* v. *M. Stern.* Patent sustained Feb. 24, 1928.

1,256,509, E. D. Belknap, Addressing machine, D. C., S. D. N. Y., Doc. E 43/79, *E. D. Belknap et al.* v. *Hamilton Garment Co., Inc.* Dismissed Feb. 15, 1928.

1,263,355, P. Artigue, Means for producing animated shadowgraphs, D. C., S. D. Calif. (Los Angeles), Doc. L–109–J, *P. Artigue* v. *O. R. Hammcras.* Dismissed without prejudice Feb. 9, 1928.

1,264,770, J. F. Brennan, Brake tester, filed Feb. 23, 1928, D. C., N. D. Calif. (San Francisco), Doc. E 2057, *Brake Testing Equipment Corp. et al.* v. *The Price Hollister Co. et al.*

1,291,155, F. W. Robinson, Circular-knitting machine, filed Dec. 27, 1927, D. C., E. D. Pa., Doc. 4263, *The Nolde & Horst Co.* v. *Adelphia Machinery Co., Inc.* Same, filed Jan. 26, 1928, D. C., E. D. Pa., Doc. 4289, *The Nolde & Horst Co.* v. *G. H. Leininger (Industrial Hosiery Mills).*

1,315,743, A. L. Raven, Screen for moving pictures, filed Feb. 17, 1928, D. C., S. D. N. Y., Doc. E 44/228, *A. L. Raven et al.* v. *National Theatre Supply Co., Inc.*

1,316,451, H. R. Kennedy, Metal-working tool, D. C., S. D. Calif. (Los Angeles), Doc. E 62–F, *J. J. Mathe et al.* v. *O. Milburn et al.* Dismissed Sept. 28, 1927.

1,367,818, H. R. Kennedy, Metal-working tool, D. C., S. D. Calif. (Los Angeles), Doc. F–63–T, *J. J. Mathe et al.* v. *O. Milburn et al.* Dismissed Sept. 28, 1927.

1,370,581, H. E. Brookby, Process of aging calcined gypsum products and the product thereof, D. C., S. D. Calif. (Los Angeles), Doc. E K–58–J, *United States Gypsum Co.* v. *Blue Diamond Co.* Dismissed without prejudice Nov. 29, 1927.

1,386,418, C. D. Miller, Auxiliary windshield, filed Feb. 8, 1928, D. C., S. D. Calif. (Los Angeles), Doc. N–38–H, *G. C. De Garmo et al* (*Sunset Specialty Co.*) v. *W. E. Shehan et al.* (*Shehan Mfg. Co.*).

1,388,721, T. J. Keeping, Caster, D. C., S. D. Calif. (Los Angeles), Doc. J–124–M, *T. J. Keeping* v. *Chicago Nipple Mfg. Co. et al.* Dismissed Jan. 12, 1928.

1,422,841, W. H. Dey, Luminous article and method of making, filed Feb. 15, 1928, D. C., S. D. N. Y., Doc. E 44/226, *United States Radium Corp.* v. *Rodale Mfg. Co. et al.*

1,445,400, M. Kisselhoff, Article carrier, filed Feb. 24, 1928, D. C., S. D. N. Y., Doc. E 44/248, *M. Kisselhoff* v. *Johnson Fare Box Co.*

1,451,491, S. H. Calkins, Pattern and guide strip, D. C., S. D. N. Y., Doc. E 41/269, *Traitel Marble Co.* v. *Manhattan Terrazzo Brass Strip Co., Inc.* Interlocutory decree made final Feb. 15, 1928.

1,480,105, Pardee & Pardee, Spiral lowering chute, filed Feb. 2, 1928, D. C., E. D. Pa., Doc. 4295, *Anthracite Separator Co.* v. *Specialty Engineering Co.*

1,508,303, H. A. Smith, Plow, filed Feb. 15, 1928, D. C., N. D. Ga. (Rome), Doc. E 97, *H. A. Smith (Universal Plow & Foundry Co.)* v. *Towers & Sullivan Mfg. Co.*

1,526,209, W. F. Grupe, Variable feeder for metallized transfer rolls, D. C., S. D. N. Y., Doc. E 32/60, *Peerless Roll Leaf Co., Inc.* v. *The H. Griffin & Sons Co.* Interlocutory decree sustaining patent and granting injunction Feb. 16, 1928.

1,534,478, W. J. Wiswall, Manifolding book, filed Dec. 20, 1927, D. C., E. D. Pa., Doc. 4261, *American Sales Book Co., Ltd.*, v. *American Register Co.*

1,535,068, M. A. Wachs, Metal-binding machine, D. C., S. D. N. Y., Doc. E 35/167, *M. A. Wachs et al.* v. *M. M. Balsam.* Patent sustained, injunction granted Feb. 18, 1928.

1,561,222, L. T. Frederick, Composite gear, filed Jan. 27, 1928, D. C., E. D. Pa., Doc. 4291, *Fibroc Insulation Co.* v. *Diamond State Fibre Co.*

1,637,855, W. J. Butler, Cigar lighter, filed Feb. 11, 1928, D. C. Conn. (New Haven), Doc. 1947, *H. Lederer & Bro., Inc.*, v. *The Danbury Mfg. Co.*

1,641,681, R. N. Kircher, Detachable cover for cooking vessel, D. C., E. D. Wis. (Milwaukee), Doc. 2104, *West Bend Aluminum Co.* v. *Aluminum Goods Mfg. Co.* Decree for plaintiff Feb. 15, 1928.

1,648,013, J. Copeland, Retinoscope, filed Jan. 18, 1928, D. C., E. D. Pa., Doc. 4277, *J. Copeland* v. *J. E. Reid Instrument Co., Inc*

Re. 14,419, J. F. Mackay, Brooder, filed Feb. 20, 1928, D. C., S. D. Ill., S. Div., Doc. E 868, *The Buckeye Incubator Co.* v. *W. W. Williams et al.*

Re. 15,824, S. H. Calkins, Pattern and guide strip, D. C., S. D. N. Y., Doc. E 41/268, *Traitel Marble Co.* v. *Manhattan Terrazzo Brass Strip Co., Inc.* Interlocutory decree made final Feb. 15, 1928.

Re. 16,599, R. Mattice, Repairing broken metallic structures, filed Feb. 10, 1928, D. C., E. D. Pa., Doc. 4301, *R. Mattice* v. *S. J. Knlatt.*

Des. 63,464, D. Gerber, Ice-cream cone, filed Dec. 15, 1927, D. C., E. D. Pa., Doc. 4257, *The Maryland Baking Co.* v. *G. Jacovelli.*

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Design Pat. 73,393, A. Weber, Lantern, decided February 21, 1928, single claim.

Pat. 1,553,570. C. G. Strandlund, Hitch device, decided March 19, 1928, claim 1.

Pat. 1,555,942, R. E. Cartzdafner, Bolster construction, decided February 25, 1928, claims 1, 9, 10, 11, 13, 14, 16, 17, 18, 19, and 21 to 25, inclusive.

Pat. 1,593,272, C. S. Smith, Machine for correcting splined shafts, decided February 28, 1928, claims 1 to 7, inclusive.

Pat. 1,614,561, A. A. Kramer, Tank, decided March 17, 1928, claim 9.

Pat. 1,615,347, J. D. Schakel, Leveling attachment for elevator-car switches, decided February 27, 1928, claims 1, 4, and 7.

Pat. 1,625,050, L. A. Page, Extendible spectacle temple, decided March 2, 1928, claims 1 and 2.

Pat. 1,629,783, H. Finkle, Connecter, decided March 3, 1928, claims 1 and 2.

Pat. 1,631,832, M. A. Penrod, Railway controlling apparatus, decided February 29, 1928, claim 1.

Adjudicated Patent.

(D. C. Me.) The Sulman, Greenway & Higgins patent, No. 962,678, for process of concentrating ores, claims 1 and 2, *Held* valid and infringed. *Minerals Separation North American Corporation* v. *Magma Copper Co.*, 23 F. (2d) 931.

Disclaimer.

1,597,955.—*Paul L. Coyle*, Pittsburgh, Pa. METHOD OF DIE ROLLING. Patent dated August 31, 1926. Disclaimer filed March 28, 1928, by the assignee, by mesne assignments, *The Colonial Trust Company*, trustee.

Hereby disclaims from claim 6 any method of using a die roll except where the matrix portions of the die roll are so proportioned relatively to one another that flash is produced along both sides of at least a part of the article during the die rolling operation.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 10, 1928.

[VOL. 369. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 221,997. ANGELO BROS. LIMITED, Calcutta and Cossipore, near Calcutta, British India. Filed Oct. 20, 1925.

ANGELOBRO

STIFF

The word "Stiff" is disclaimed apart from the mark as a whole as shown in the drawing.

Particular description of goods.—Shellac, Orange Shellac, Button Lac, Garnet Lac, Being Raw and Partly-Prepared Materials.

Claims use since approximately September, 1924.

Ser. No. 221,998. ANGELO BROS. LIMITED, Calcutta and Cossipore, near Calcutta, British India. Filed Oct. 20, 1925.

ANGELOBRO

AMBER

The word "Amber" is hereby disclaimed apart from the mark as a whole as shown in the drawing.

Particular description of goods.—Shellac, Orange Shellac, Button Lac, Garnet Lac, Being Raw and Partly-Prepared Materials.

Claims use since approximately September, 1924.

Ser. No. 221,999. ANGELO BROS. LIMITED, Calcutta and Cossipore, near Calcutta, British India. Filed Oct. 20, 1925.

ANGELOBRO

C

PURE

The word "Pure" and the letter "C" are hereby disclaimed apart from the other features of the mark as shown in the drawing.

Particular description of goods.—Shellac, Orange Shellac, Button Lac, Garnet Lac, Being Raw and Partly-Prepared Materials.

Claims use since September, 1924.

Ser. No. 222,000. ANGELO BROS. LIMITED, Calcutta and Cossipore, near Calcutta, British India. Filed Oct. 20, 1925.

ANGELOBRO

The diamond device is disclaimed apart from the other features of the mark as shown in the drawing.

Particular description of goods.—Shellac, Orange Shellac, Button Lac, Garnet Lac, Being Raw and Partly-Prepared Materials.

Claims use since approximately September, 1924.

Ser. No. 253,239. GLEN SAINT MARY NURSERIES COMPANY, Glen Saint Mary, Fla. Filed Aug. 9, 1927.



The words "Glen Saint Mary, Florida" are disclaimed apart from the other features of the mark shown in the drawing.

Particular description of goods.—Orange and Grapefruit Trees, Pecan and Fruit Trees, Shrubs and Shade Trees, Palms and Cycads, Bamboos and Grasses, Roses, and Vines.

Claims use since April, 1926.

Ser. No. 258,039. ADOLF PETZOLD, Leipzig-Schonau, Germany. Filed Nov. 25, 1927.

LAPS

Particular description of goods.—Furs.

Claims use since June 14, 1922.

Ser. No. 258,754. MENDEL LAZOW, New York, N. Y. Filed Dec. 10, 1927.

KING

Particular description of goods.—Chemically-Prepared Hair-Faced Skins of Lambs, Ponies, Kangaroos, Marmots, and Rabbits, Natural, Dressed, and Dyed for Use in Fashioning Coats and Like Wearing Apparel.

Claims use since Dec. 1, 1927.

Ser. No. 258,907. WILLIAM A. HANSEN, Chicago, Ill. Filed Dec. 14, 1927.



All wording shown in the drawing with the exception of the words "Gold Stripe" and the representation of the tag are disclaimed.

Particular description of goods.—Natural Flowers.

Claims use since June 1, 1926.

Ser. No. 260,453. ALEX J. MAGGIO, doing business as Imperial Malt Company, Chicago, Ill. Filed Jan. 21, 1928.

"FAUST"



Particular description of goods.—Hops.

Claims use since March, 1921.

Ser. No. 260,687. KEYSTONE LEATHER CO., Philadelphia, Pa. Filed Jan. 26, 1928.



No claim is made to the words "Philadelphia, U. S. A.," and "Hylustre Kid" apart from the mark shown.

Particular description of goods.—Leather in the Piece.

Claims use since Dec. 31, 1927.

CLASS 2.

Receptacles.

Ser. No. 251,583. CHAS. A. STEVENS & BROS., Chicago, Ill. Filed July 6, 1927.

RARITY

Particular description of goods.—Empty Paper Cigarette Boxes and Cases, Base-Metal Flasks, Waste Baskets of Paper, Wood, Leather or Tin, Collar Cases, Base-Metal Jewel Boxes, Metal Money Holders, Empty Kitchen Match Boxes of Paper, Wood, Metal or Leather, Ice Buckets, Trays of Wood, Alabaster, Onyx, Photo Cases of Leather and Wood, Sewing Baskets of Leather, Boxes of Wood, Leather, and Paper.

Claims use since Sept. 17, 1926.

Ser. No. 260,665. WOOLWINE METAL PRODUCTS COMPANY, Los Angeles, Calif. Filed Jan. 25, 1928.



Applicant disclaims all words in the drawing except "Bear" apart from the mark as shown.

Particular description of goods.—Canteens.

Claims use since July 1, 1917.

Ser. No. 261,838. RINGER-WORCESTER COMPANY, Worcester, Mass. Filed Feb. 17, 1928.

RW

Particular description of goods.—Display and Tool Boxes of Metal.

Claims use since July 1, 1927.

Ser. No. 261,898. J. E. MERGOTT COMPANY, Newark, N. J. Filed Feb. 18, 1928.

JEMCO

Particular description of goods.—Metal Desk Boxes and Metal Match Boxes.

Claims use since Oct. 14, 1921.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 243,497. THE LILLEY CO., Columbus, Ohio. Filed Jan. 28, 1927.

ALUMI WOOD

No claim is made to the word "Wood" apart from the mark as shown in the drawing.

Particular description of goods.—Suitcases, Traveling Bags, Hatboxes, Brief Cases, Portfolios, and Rolled Leather Cases.

Claims use since about Aug. 1, 1926.

Ser. No. 243,498. THE LILLEY CO., Columbus, Ohio. Filed Jan. 28, 1927.

INDESTRUCTO

Particular description of goods.—Suitcases, Traveling Bags, Hatboxes, Brief Cases, Portfolios, and Rolled Leather Cases.

Claims use since September, 1924.

Ser. No. 249,769. THE ALLIGATOR COMPANY, St. Louis, Mo. Filed May 31, 1927.

Alligator

Particular description of goods.—Sewed Fabricated Covers for Such Individual Pieces of Baggage as Trunks, Suitcases, and the Like to Protect the Baggage from Rain, Dust, Etc.

Claims use since Sept. 1, 1908.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 240,001. PINAUD, INCORPORATED, New York, N. Y. Filed Nov. 12, 1926. Under 10-year proviso.



Applicant disclaims the words "Savon Extra Fin" and "Paris" apart from the mark shown.
Particular description of goods.—Soaps.
Claims use since about 1886.

Ser. No. 253,907. THE PALMOLIVE PEET COMPANY, Chicago, Ill. Filed Aug. 24, 1927.



All wording appearing on the drawing except the word "Palmolive" in each instance and the name of applicant is disclaimed only to the extent that the same is a component part of the trade-mark as a whole, and such wording is disclaimed apart from the mark shown. The trade-mark includes contrasting colors, these being olive green, yellow, and black.
Particular description of goods.—Saponaceous Shaving Cream.
Claims use since January, 1900.

Ser. No. 259,203. LUDWIG BERNAU, doing business as L. Bernau & Co., New York, N. Y. Filed Dec. 21, 1927.

BERNOLINE PRODUCTS

Applicant disclaims registration of the word "Products" shown in the drawing.
Particular description of goods.—Soap Preparations.
Claims use since June 1, 1926.

Ser. No. 259,288. O'NEIL DURO COMPANY, Milwaukee, Wis. Filed Dec. 23, 1927.

DURO

Particular description of goods.—Liquid Top Dressings and Finishes for Leather, or Imitation Leather, Such as Pantasote or Other Similar Material.
Claims use since Jan. 1, 1900.

Ser. No. 259,370. O'KAY PRODUCTS CORPORATION, Detroit, Mich. Filed Dec. 27, 1927.



The lining appearing on the drawing indicates shading only.
Particular description of goods.—Top Dressings and Nickel, Silver, Brass, and Copper Polish.
Claims use since Dec. 1, 1927.

Ser. No. 259,588. RIVERSIDE MANUFACTURING CO., St. Louis, Mo. Filed Dec. 31, 1927.



The word "Riverside" is disclaimed apart from the mark shown.
Particular description of goods.—Dry and Wet Cleaning Soaps; Dry and Wet Cleaning Soap Compounds; Spot and Stain Removing Soap and Soap Compounds; Liquid, Soft, and Solid Soaps.
Claims use since Aug. 23, 1915.

Ser. No. 260,365. MILLANO VIOLA CO., Long Island City, N. Y. Filed Jan. 19, 1928.

ENDURO
SILVER POLISH

No claim is made to the words "Silver Polish."
Particular description of goods.—Polishing Compound for Silverware, Nickel, Copper, Brass, Windows, Marble, Looking Glass, and Glasses of All Kinds.
Claims use since Nov. 1, 1927.

Ser. No. 260,820. THE GLESSNER COMPANY, Findlay, Ohio. Filed Jan. 28, 1928.



No claim is made to the words "Shaving Kreem" apart from the mark shown in the drawing.
Particular description of goods.—Shaving Soap in Cream Form.
Claims use since August, 1927.

Ser. No. 261,510. JACIEL PERFUMERS, INC., New York, N. Y. Filed Feb. 10, 1928.

Jaciel

Particular description of goods.—Toilet and Bath Soap, Shaving Cream—Namely, Soap Creams and Beard Softeners.
Claims use since Dec. 2, 1927.

Ser. No. 261,557. THE DAVIES-YOUNG SOAP COMPANY, Dayton, Ohio. Filed Feb. 11, 1928.

"RUG-O"

No claim is made to the word "Rug" except as associated with the other features of the mark.
Particular description of goods.—Carpet and Rug Soap.
Claims use since Jan. 13, 1928.

Ser. No. 261,558. IRVIN F. DILLON, doing business as Dillon Chemical Co., Somerset, Pa. Filed Feb. 11, 1928.



The drawing is lined for the color red.
Particular description of goods.—Cleaning Compound for Use in the Toilet and Bath.
Claims use since January, 1928.

Ser. No. 261,756. JACIEL PERFUMERS, INC., New York, N. Y. Filed Feb. 16, 1928.



Particular description of goods.—Toilet and Bath Soap, Shaving Cream—Namely, Soap Creams and Beard Softeners.
Claims use since Dec. 2, 1927.

Ser. No. 261,849. EDWARD C. WALKER, doing business as Kozak, Batavia, N. Y. Filed Feb. 17, 1928.

DRY WASH

Particular description of goods.—Chemically-Treated Cloths for Cleaning Lacquered and Enamelled Finishes.
Claims use since Feb. 2, 1927.

Ser. No. 261,929. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 18, 1928.



Particular description of goods.—Toilet and Bath Soap; Silver Polish.
Claims use since Aug. 3, 1927.

Ser. No. 262,058. CHAMPION SOAP CO. INC., New York, N. Y. Filed Feb. 23, 1928.

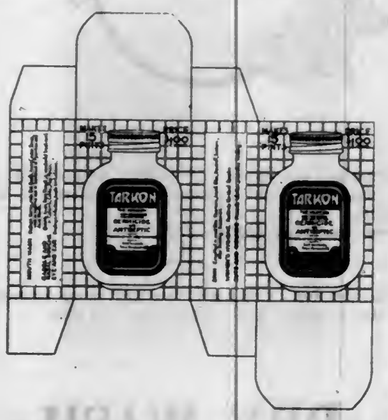
DREADNAUGHT

Particular description of goods.—Metal Polish.
Claims use since Feb. 6, 1928.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 242,280. THE CLINICAL LABORATORIES COMPANY, Cleveland, Ohio. Filed Jan. 3, 1927.



No claim is made to the representation of the carton nor to the bottle container appearing on the carton apart from the mark shown in the drawing. Except for the name "Tarkon" and "The Chemical Laboratories Co." no claim is made to the wording appearing on the carton except in the form and association in which it appears.
Particular description of goods.—Germicide and Antiseptic.
Claims use since July 16, 1926.

Ser. No. 246,026. HERMAN HALPERN, doing business as Standard Drug Co., Newark, N. J. Filed Mar. 19, 1927.



No registration rights are claimed for the words "Cream of Agar" and "Tastes Like Cream."
Particular description of goods.—Internal Cleanser and Lubricant.
Claims use since Aug. 27, 1924.

Ser. No. 254,054. JOHN ROTH, Chicago, Ill. Filed Aug. 27, 1927.

John Roth

Trade-mark consists of a facsimile of applicant's signature.
Particular description of goods.—Pile Remedy Prepared as a Salve for External Use.
Claims use since July 2, 1927.

Ser. No. 255,091. JERRY BESSER, doing business as Besser Stock-Stop Co., Milnca, Minn. Filed Sept. 23, 1927.

BESSER'S STOCK-STOP

Particular description of goods.—Compound for Spraying Along the Fence of a Pasture or Other Enclosure to Prevent Stock from Trespassing Beyond the Fence.
Claims use since June 1, 1926.

Ser. No. 255,225. ALBERT HENRY BRAIN, West Bromwich, England. Filed Sept. 26, 1927.

VISOL

Particular description of goods.—Poultry Medicines.
Claims use since July 22, 1925.

Ser. No. 256,185. WILLIAM E. GARRETSON, doing business as Ikura Remedy Company, Portland, Oreg. Filed Oct. 17, 1927.

Ikura

Particular description of goods.—Eye Lotion.
Claims use since Jan. 1, 1926.

Ser. No. 257,664. ERNEST R. CORYELL, doing business as Radient Manufacturing Company, Richmond, Calif. Filed Nov. 17, 1927.

Radient

Particular description of goods.—Vegetable-Compound Salves for Softening and Removing Corns on Sore Feet.
Claims use since July 3, 1925.

Ser. No. 257,922. EPIDOIL, LIMITED, Kilmarnock, Scotland. Filed Nov. 22, 1927.

EPIDOIL

Particular description of goods.—Ointment for the Treatment of Burns, Scalds, and Wounds Generally for Human Use.
Claims use since on or about Jan. 1, 1927.

Ser. No. 257,993. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa. Filed Nov. 23, 1927.

THE PEERLESS CARBON BLACK COMPANY

Portions of the drawing are lined for red.
Particular description of goods.—Carbon Black for General Use in the Manufacture of Advertising Signs, Artificial Marble, Blackboards, Blackings and Dressings, Black Tiles, Brass and Metal Polishes and Putz Pomades, Cameras, Carbons (Electric), Colored Lights and Fireworks, Compositions (Phonograph Discs), Concrete, Cosmetics, Engraving and Etching, Explosives, Fertilizers, Flinted and Glazed Paper, Gunpowder and Dynamite, Insulation, Insulating Paper and Tapes, Kalsomines and Wall Finishes, Leather Finishes, Metal and Wood Japans, Paper, Pencils and Crayons, Plumbers' Soil, Polishing and Coloring Powders, Putties, Rubber Tires, Rubber Mechanicals, Rubber Paving, Rubber Boots and Shoes, Rubber Auto Topping, Rubber Soles and Heels, Rubber-Insulated Wire, Sealing Wax, Sheep Marking, Stove Polish, Tarpaulins, Waterproof Sheeting and Conting.
Claims use since about Feb. 15, 1926.

Ser. No. 259,742. ALOIS MERKE, doing business as Ha-Su-Ma Laboratory, Chicago, Ill., assignor to Ha-Su-Ma Laboratories, Inc., Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1928.

Ha Su Ma

Particular description of goods.—Hair Lotions, Hair Tonics, Shampoo, and Dandruff Preparations.
Claims use since Nov. 29, 1927.

Ser. No. 260,113. PAUL W. GEETHER, doing business as St. Louis Medicine Supply Co., St. Louis, Mo. Filed Jan. 14, 1928.

CAMFO-QUININE

LCQ

No registration rights are claimed to the word "Quinine" apart from the mark as shown in the drawing.

Particular description of goods.—Medicinal Tablet for the Treatment of Colds, Headaches, Neuralgia, and Rheumatism.

Claims use since Dec. 20, 1927.

Ser. No. 260,206. B. T. BABBITT, INC., New York, N. Y. Filed Jan. 17, 1928.



The shading shown in the drawing represents the colors red and blue. No claim is made to the exclusive use of the wording shown in the drawing with the exception of the words "Babbitt Red Devil."

Particular description of goods.—Cleaning Compound for Clogged Drains, Enamel and Porcelain Cleaner, Boiler Liquid Material, and Drainpipe Solvent.

Claims use since Feb. 1, 1912.

Ser. No. 260,247. J. PRESTON TABB, doing business as Carpenter & Company, Louisville, Ky. Filed Jan. 17, 1928. Under 10 year proviso.

CARPENTER'S

OX MARROW POMADE

AND LILY WHITE PETROLATUM COMPOUND

Particular description of goods.—Preparation for Treatment of the Hair.

Claims use since June, 1892.

Ser. No. 260,372. WILLIAM SPENCER BATES, doing business as Saniplate Co., Fremont, Ohio. Filed Jan. 20, 1928.

SANIPLATE

"Makes plates a pleasure"

Particular description of goods.—A Composition for Cleaning, Deodorizing, and Polishing False Teeth.

Claims use since May 1, 1927.

Ser. No. 260,416. B. T. BABBITT, INC., New York, N. Y. Filed Jan. 17, 1928.



The shading in the drawing indicates the color red. No claim is made to the exclusive use of the words "Boiler Liquid Concentrate—This Can Makes 5 Gallons—Mix Your Own—Made and Guaranteed By—New York, N. Y. Est. 1836—A Product" apart from the mark shown in the drawing.

Particular description of goods.—Boiler Liquid Concentrate Comprising a Compound for Repairing Leaks in Hot-Water and Steam Boilers.

Claims use since July 1, 1926.

Ser. No. 260,754. MAURICE F. SCHLESINGER, doing business as Bendiner & Schlesinger, New York, N. Y. Filed Jan. 27, 1928.

Zandoline

Particular description of goods.—Antiseptic.

Claims use since December, 1908.

Ser. No. 260,804. CONSOLIDATED RENDERING COMPANY, doing business as Atlantic Packing Company, Boston, Mass. Filed Jan. 28, 1928.

ATLANTIC PACKING COMPANY

Particular description of goods.—Heavy Chemicals Which are Used for Industrial Purposes in the Textile, Tanning, Dyeing, and Bleaching Industries—Namely, Sulphuric Acid, Muriatic Acid, Acetic Acid, and Glauber's Salts.

Claims use since about February, 1906.

Ser. No. 260,972. JOSEPH AMSTER, New York, N. Y. Filed Feb. 1, 1928.

Kilsit



Applicant disclaims the words "Rat Exterminator" apart from the mark as shown in the drawing.

Particular description of goods.—Rat Exterminator for Killing Rats and Mice.

Claims use since Dec. 15, 1927.

Ser. No. 261,013. JOSEPH LAFAYETTE MATTHIEU, doing business as The Jay Lafayette Sons, Detroit, Mich. Filed Feb. 1, 1928.

Lafayette

ASPIRINATED

QUINNOT

Particular description of goods.—Preparation for Use in the Treatment of Colds, Coughs, Headaches, Neuralgia, and the Relief of Pains in General.

Claims use since Dec. 1, 1927.

Ser. No. 261,031. ALL-SOL COMPANY, Bellingham, Wash. Filed Feb. 2, 1928.

ALL SOL

Particular description of goods.—Soldering Fluxes, Both Liquid and Paste.

Claims use since July 15, 1927.

Ser. No. 261,255. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed Feb. 6, 1928.

HEPARNUCLEATE

Particular description of goods.—Substance Including a Water-Soluble Liver Fraction and Nucleinic Acid for Use in the Treatment of Anemia and Pernicious Anemia.

Claims use since Jan. 23, 1928.

Ser. No. 261,401. STOVER-GIBBS & WINSEL, Los Angeles, Calif. Filed Feb. 8, 1928.



The representation of the skull and crossbones appearing in the drawing is disclaimed apart from the mark as shown.

Particular description of goods.—Insecticides—Namely, Gopher Poison.

Claims use since June 14, 1927.

Ser. No. 261,472. ADAMS, BLAIR CORPORATION, Newburgh, N. Y. Filed Feb. 10, 1928.

NORMALOID

Particular description of goods.—Pharmaceutical Tablets for Treatment of Endocrine and Metabolic Imbalances or Disorders Evidenced by Symptoms Such as Mental or Physical Fatigue or Exhaustion, Nervous Exhaustion, Neurasthenia, Nervous Indigestion, Poor Circulation, Functionally-Weak Heart, Anemia, Fear, Apprehension, and Indecision, Overweight or Obesity, Auto-Intoxication, Rheumatic Conditions, Digestive Disorders, Flatulence or Colic, Skin Disorders, Menstrual Irregularities, Diabetes, and Diabetes Mellitus.

Claims use since on or about May 17, 1926.

Ser. No. 261,606. BIGOSH EYE WASH CO., Fargo, N. Dak. Filed Feb. 13, 1928.

BIGOSH

EYE WASH

Applicant disclaims the phrase "Eye Wash" except as displayed with the other features of the mark.

Particular description of goods.—Lotion for Treatment of the Eyes.

Claims use since Sept. 1, 1927.

Ser. No. 261,666. KATHERINE A. CLARK, New York, N. Y. Filed Feb. 14, 1928.

CANEX

Particular description of goods.—Candy Laxative.
Claims use since Dec. 15, 1927.

Ser. No. 261,684. RIDDLE & CLOWARD, Boise, Idaho. Filed Feb. 14, 1928.

ODORINE



Particular description of goods.—Preparation Adapted to be Rubbed Upon a Ewe to Induce Her to Suckle a Lamb Which is Not Her Own.
Claims use since January, 1923.

Ser. No. 261,780. JOSEPH A. WATERS, doing business as J. A. Waters & Company, Providence, R. I. Filed Feb. 16, 1928.

WRUSCO

Particular description of goods.—Antirust Solution.
Claims use since Jan. 1, 1928.

Ser. No. 261,811. HAPPY FEED MILLS, INC., Memphis, Tenn. Filed Feb. 17, 1928.

HYLENIUM

Particular description of goods.—Disinfectant and Wood Preservative.
Claims use since Nov. 10, 1927.

Ser. No. 261,990. AZALIA SMITH, M. D., Omaha, Nebr. Filed Feb. 20, 1928.



Azalias

Particular description of goods.—Lung Medicine.
Claims use since January, 1927.

Ser. No. 262,002. CHARLES VARNELL, doing business as Pawnee Indian Medicine Company, Columbus, Ohio, and Granite City, Ill. Filed Feb. 20, 1928.

La-To-Ka

Particular description of goods.—General Tonic.
Claims use since January, 1923.

Ser. No. 262,119. PRIOR & SOMERVILLE, New York, N. Y. Filed Feb. 23, 1928.

PETAPLASM

Particular description of goods.—Medicinal Preparations for External Treatment of Rheumatism, Lumbago, Pneumonia, Pleurisy, Bronchitis, Neuralgia, Croup, Throat Affections, Neurotic Pains, Mastitis, Chronic Ulcers, Boils, Scabies, Herpes, Eczema, Chilblains, Felons, Sores, and in All Conditions of Congestion, Swellings, and Inflammation.
Claims use since Jan. 23, 1928.

Ser. No. 262,150. THERESA CALLOW BRAKELEY, Plainfield, N. J. Filed Feb. 24, 1928.

Filmova

Particular description of goods.—Preparation for the Treatment of Hay Fever.
Claims use since January, 1928.

Ser. No. 262,190. UNITED DRUG COMPANY, Boston, Mass. Filed Feb. 24, 1928.

Agarex

Particular description of goods.—Emulsion of Mineral Oil for Lubricating the Bowels.
Claims use since June 30, 1926.

Ser. No. 262,230. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Feb. 25, 1928.

EPSULIN

Particular description of goods.—Medicine or Pharmaceutical Preparation for the Prevention and Treatment of Serum Sickness.
Claims use since Jan. 28, 1928.

Ser. No. 262,240. IRVING MCEWEN, Omaha, Nebr. Filed Feb. 25, 1928.

FARMAIDE

Particular description of goods.—Seed-Corn Disinfectant.
Claims use since Feb. 1, 1928.

Ser. No. 262,268. ISIDOR SILVERMAN, doing business as Bertinol Products, Daytona Beach, Fla. Filed Feb. 25, 1928.

BERTINOL

Particular description of goods.—Healing Ointment for Sores, Eczema, Cracked Toe Webs, Chafing, Fetid Perspiration, Redbug and Mosquito Bites.
Claims use since Aug. 1, 1927.

Ser. No. 262,317. LYON & LYON, Chicago, Ill. Filed Feb. 27, 1928.



Particular description of goods.—Chemical Preparations for the Treatment of Corns and Callouses.
Claims use since Feb. 26, 1924.

Ser. No. 262,334. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Feb. 27, 1928.

Wenal

Particular description of goods.—Lubricating and Soothing Ointment for Painful Bunions and Stiff Joints.
Claims use since June 1, 1913.

Ser. No. 262,354. O. H. FROST, San Diego, Calif. Filed Feb. 28, 1928.

NOV-O-GLO

Particular description of goods.—Hairdressing and Dandruff Destroyer.
Claims use since Feb. 1, 1927.

Ser. No. 262,453. HARRY B. FOLEY, doing business as Crane's Products, Chicago, Ill. Filed Mar. 1, 1928.

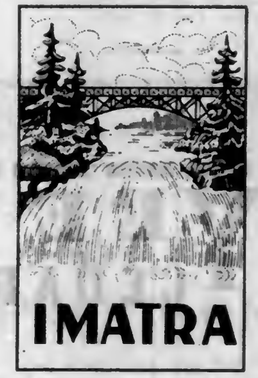
WIGGLESTICK

Particular description of goods.—Laundry Bluing Tints and Dyes.
Claims use since Feb. 17, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 262,195. VULCAN MATCH CO., INC., New York, N. Y. Filed Feb. 24, 1928.



Particular description of goods.—Matches.
Claims use since Dec. 28, 1927.

CLASS 12.

Construction Materials.

Ser. No. 236,973. THE WOODVILLE LIME PRODUCTS CO., Toledo, Ohio. Filed Sept. 7, 1926.



Particular description of goods.—Lime.
Claims use since 1903.

Ser. No. 253,508. OTIS MCALLISTER & CO., San Francisco, Calif. Filed Aug. 15, 1927.

ROYAL

Particular description of goods.—Lumber, Boards, and Scantlings.
Claims use since April, 1924.

Ser. No. 259,016. PENNIMAN GRAVEL AND MATERIAL COMPANY, Dallas, Tex. Filed Dec. 16, 1927.

WALLCRETE

Particular description of goods.—Building Blocks and Tiles.
Claims use since Aug. 15, 1927.

Ser. No. 259,854. IRVING-DOUGHERTY COMPANY, Seattle, Wash. Filed Jan. 9, 1928.

TYEE CEDAR

The word "Cedar" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Red-Cedar Shingles and Lumber.
Claims use since Nov. 3, 1927.

Ser. No. 260,701. ALEXANDER UNGAR INC., Brooklyn, N. Y. Filed Jan. 26, 1928.

AUCO

Particular description of goods.—Lumber.
Claims use since Nov. 30, 1927.

Ser. No. 260,809. THE CRESCENT PANEL COMPANY, INC., Louisville, Ky. Filed Jan. 28, 1928.

AQUATITE

Particular description of goods.—Panels and Tops Constructed of Wood and Used in the Fabrication of Furniture or the Like.
Claims use since Jan. 7, 1928.

Ser. No. 261,208. EMMETT V. POSTON, Springfield, Ill. Filed Feb. 4, 1928.

Hi-Lo TRADE MARK

The word "Trade-Mark" appearing on the drawing is hereby disclaimed.
Particular description of goods.—Brick.
Claims use since about Jan. 25, 1928.

Ser. No. 261,209. EMMETT V. POSTON, Springfield, Ill. Filed Feb. 4, 1928.

Pompeian TRADE MARK.

The word "Trade-Mark" appearing in the drawing is hereby disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Brick.
Claims use since about Jan. 25, 1928.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 244,082. MIDWEST PIPING & SUPPLY COMPANY, St. Louis, Mo. Filed Feb. 9, 1927.

MIDWEST

Particular description of goods.—Metal Pipes, Metal Pipe Connections and Fittings, and Pipe Joints.
Claims use since Dec. 1, 1926.

Ser. No. 250,408. THE GENERAL INDUSTRIES COMPANY, Elyria, Ohio. Filed June 11, 1927.

PERMO

Particular description of goods.—Molded Articles of Plastic Composition—Namely, Caster Wheels, Handles for Valves, and Knobs.
Claims use since Sept. 30, 1926.

Ser. No. 258,088. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio. Filed Nov. 26, 1927.

KING-CLIP

Particular description of goods.—Metal Gate Valves.
Claims use since Mar. 1, 1927.

Ser. No. 259,782. PRICE INSIDE OPERATED AWNING CORPORATION, Buffalo, N. Y. Filed Jan. 6, 1928.

AWNLOK

Particular description of goods.—Awning Adjusters with Position Securing and Holding Device.
Claims use since Oct. 30, 1927.

Ser. No. 260,954. T. P. O'CONNELL, Los Angeles, Calif. Filed Jan. 31, 1928.

COMMON SENSE

Particular description of goods.—Aluminum Pots, Pans, and Kettles for Cooking.
Claims use since Jan. 15, 1928.

Ser. No. 261,203. CHARLES R. NALLE, doing business as ADJUSTABLE CASTER COMPANY, Philadelphia, Pa. Filed Feb. 4, 1928.

adjusta CASTERS AND GLIDES

No claim is made to the word "Casters" and "Glides" apart from the mark shown.
Particular description of goods.—Casters and Glides.
Claims use since Oct. 3, 1927.

Ser. No. 261,205. PHOENIX BRASS FOUNDRY, Irvington, N. J. Filed Feb. 4, 1928.

PBF

Particular description of goods.—Standard Brass Pipe Fittings for Plumbing.
Claims use since Sept. 15, 1920.

Ser. No. 261,617. FAULTLESS CASTER COMPANY, Evansville, Ind. Filed Feb. 13, 1928.

RUBEREX

Particular description of goods.—Caster Wheels Made of Hard Rubber.
Claims use since Dec. 23, 1927.

Ser. No. 261,683. FRANK W. PRESTON, Butler, Pa. Filed Feb. 14, 1928.

"PREST-ON"

Particular description of goods.—Tire Chains.
Claims use since on or about Jan. 30, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 258,420. CARL M. LOVSTED, doing business as C. M. Lovsted & Co., Seattle, Wash. Filed Dec. 3, 1927.

Mo-Lo

Particular description of goods.—Iron Castings.
Claims use since Jan. 6, 1923.

Ser. No. 260,841. THE NEWPORT ROLLING MILL CO., Newport, Ky. Filed Jan. 28, 1928.

GALJAP

Particular description of goods.—Corrugated Metal Sheets and Plain Metal Sheets of Iron and Steel.
Claims use since about Jan. 6, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 254,911. M. GRUMBACHER, New York, N. Y. Filed Sept. 19, 1927.

Gainsborough

Particular description of goods.—Artists' Paints—Namely, Oil Colors.
Claims use since Mar. 1, 1922.

Ser. No. 255,604. THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Oct. 4, 1927.



No claim is made to the representation of a label. The drawing is lined for color. The colors comprise a yellow stripe across the bottom of label, a black stripe just above yellow, and the radiating rays reading from left to right are dark blue, bright blue, light blue, green, yellow, orange, bright red, and dark red. A black panel is arranged on the left-hand side and a yellow panel on the right-hand side of the label.

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Varnishes, Paint Enamels, and Lacquers.
Claims use since Sept. 16, 1927.

CLASS 17.

Tobacco Products.

Ser. No. 257,436. ROSE OSTERWEIS, doing business as Lewis Osterweis & Sons, New Haven, Conn. Filed Nov. 11, 1927.



The lining used in the drawing is for the purpose of indicating shading only. No claim is made to the exclusive use of the word "Perfecto" apart from the mark as shown.

Particular description of goods.—Cigars.
Claims use since Oct. 11, 1927.

Ser. No. 261,865. E. P. CORDERO & CO., New York, N. Y. Filed Feb. 18, 1928.

MI HOGAR

Particular description of goods.—Cigars.
Claims use since about December, 1883.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 243,545. H-S COMPANY, Youngstown, Ohio. Filed Jan. 29, 1927.



No claim is made to the lining which indicates blue color on the drawing.

Particular description of goods.—Shock Absorbers.
Claims use since about Oct. 7, 1926.

Ser. No. 260,937. CLARKE MANUFACTURING COMPANY, INC., New Haven, Conn. Filed Jan. 31, 1928.

AYRFLOTE

Particular description of goods.—Inflatable Boats.
Claims use since Dec. 30, 1927.

Ser. No. 261,364. ROBERT W. HUNT COMPANY, Chicago, Ill. Filed Feb. 8, 1928.



Particular description of goods.—Car and Locomotive Axles.
Claims use since Apr. 1, 1887.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 261,426. THE DUNCAN OIL COMPANY, Youngstown, Ohio. Filed Feb. 9, 1928.



Particular description of goods.—Storage Batteries.
Claims use since May 1, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 259,246. JOHN C. LEHNE, doing business as John C. Lehne Sales Co., New York, N. Y. Filed Dec. 22, 1927.

RAP-O

Particular description of goods.—Game May Be Played Indoors or Outdoors, with One or More Players by Batting a Ball with the Bat Portion of the Racquet and Catching the Ball with the Net Portion of the Racquet.
Claims use since Aug. 30, 1927.

Ser. No. 261,734. THE BLOOM MANUFACTURING COMPANY, INC., Nashua, Iowa. Filed Feb. 16, 1928.



Particular description of goods.—Toy and Souvenir Banks.
Claims use since Nov. 15, 1927.

CLASS 23.

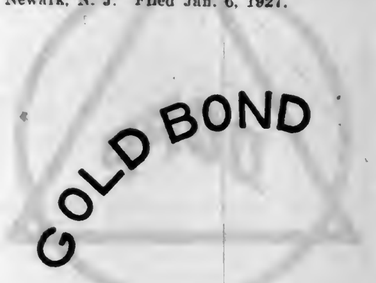
Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 240,374. RICHARD SIZER, LIMITED, Wilmington, Hull, England. Filed Nov. 20, 1926.

ORBIT

Particular description of goods.—Machines for Manufacturing Cattle Cake.
Claims use since about Aug. 21, 1926.

Ser. No. 242,428. THE GOLD BOND GUM AND MACHINE CO., Newark, N. J. Filed Jan. 6, 1927.



The mark consists of the word "Gold Bond" as shown in applicant's name on the front face of the representation of the vending machines and near the bottom thereof.

Particular description of goods.—Vending Machines.
Claims use since July 23, 1926.

Ser. No. 244,602. THE BURGAN CORPORATION, Chicago, Ill. Filed Feb. 19, 1927.

BUR TOOLS GAL

The word "Tools" appearing in the drawing is disclaimed as a mark separate and apart from the combination in which it is shown.

Particular description of goods.—Cotter-Pin Pullers, Wrenches, and Valve Lifters.

Claims use since Jan. 17, 1927.

Ser. No. 248,013. FRANK M. O'BRIEN, doing business as Clauss Shear Company, Greensboro, N. C. Filed Apr. 26, 1927.

Gold Seal

Particular description of goods.—Shears, Scissors, Razors, Pocketknives, Butcher Knives, Kitchen Knives, and Hair Clippers.

Claims use since Mar. 18, 1927.

Ser. No. 259,221. SOWERS MANUFACTURING COMPANY, Buffalo, N. Y. Filed Dec. 21, 1927.

DOPP

Particular description of goods.—Soap-Making Machinery—Namely, Vacuum Pans, Autoclaves, Digesters, Stills, Crutchers, and Seamless, Jacketed Impregnators for Impregnating Materials by Means of Vacuum and Pressure.

Claims use since July, 1899.

Ser. No. 261,058. HIRSCHY COMPANY, Duluth, Minn. Filed Feb. 2, 1928.

DUAALL

Particular description of goods.—Power Unit Comprising a Portable Frame with a Motor Mounted Thereon.

Claims use since Jan. 25, 1928.

Ser. No. 261,148. LLEWELLYN T. SAVAGE, Boston, Mass. Filed Feb. 3, 1928.

Universal

Particular description of goods.—Brackets for Outboard Motors.

Claims use since Mar. 1, 1927.

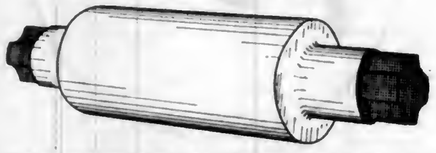
Ser. No. 261,310. E. E. FULTON CO., Chicago, Ill. Filed Feb. 7, 1928.

FULCO

Particular description of goods.—Motion-Picture-Theatre Equipment—Namely, Hand and Power Operated Film Rewinds, Stripping Flanges in the Nature of a Detachable Reel Flange, Roll-Ticket Holders with Spring-Compressed Spindle, and Motion-Picture-Projectionists' Tool Kits.

Claims use since May, 1910.

Ser. No. 261,612. DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa. Filed Feb. 13, 1928.



The representation of the roll is disclaimed. The trademark consists of the color silver applied to the wabblers of the rolls as indicated by the shade lines shown in the drawing.

Particular description of goods.—Rolling-Mill Rolls.

Claims use since Oct. 1, 1927.

Ser. No. 261,701. CONSOLIDATED MACHINE TOOL CORPORATION OF AMERICA, Rochester, N. Y. Filed Feb. 15, 1928. Under 10-year proviso.

MODERN

Particular description of goods.—Quick-Change Drill Chucks, Self-Opening Die Heads, Solid Die Heads, Chaser-Grinding Machines, Inserted-Tooth Milling Cutters, Threading Machines, Plain and Universal Grinding Machines, Self-Opening Stud Setters, and Collapsible Taps.

Claims use since 1889.

Ser. No. 261,717. THE NOVELTY CUTLERY COMPANY, Canton, Ohio. Filed Feb. 15, 1928.



Particular description of goods.—Knives.

Claims use since May 20, 1927.

CLASS 25.

Locks and Safes.

Ser. No. 261,899. J. E. MERCOTT COMPANY, Newark, N. J. Filed Feb. 18, 1928.

JEMCO

Particular description of goods.—Locks for Brief Cases and Small Leather Goods.

Claims use since Oct. 14, 1921.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 246,290. THE F. W. KING OPTICAL COMPANY, Cleveland, Ohio. Filed Mar. 24, 1927.

Verdalite

Particular description of goods.—Spectacles and Lenses for Spectacles.

Claims use since July 1, 1925.

Ser. No. 260,159. ALLEN ELECTRIC AND EQUIPMENT COMPANY, Kalamazoo, Mich. Filed Jan. 16, 1928.

GENERAL EQUIPMENT CORP.

Particular description of goods.—Generator and Starter Testing Devices and Parts, Coil and Magneto Testing Devices and Parts Thereof, Armature-Test Meters, Gauges, and Machines, Motor Testers, and Battery Testers.

Claims use since Aug. 1, 1926.

Ser. No. 261,503. GALL & LEMBKE, INC., New York, N. Y. Filed Feb. 10, 1928.

THE OXACLE G&L

Particular description of goods.—Spectacles.

Claims use since December, 1927.

Ser. No. 261,901. J. E. MERCOTT COMPANY, Newark, N. J. Filed Feb. 18, 1928.

JEMCO

Particular description of goods.—Thermometers.

Claims use since Oct. 14, 1921.

CLASS 27.

Horological Instruments.

Ser. No. 261,156. WILLIAM R. ZESINGER, South Bend, Ind. Filed Feb. 3, 1928.

ZEITE
BALANCE WHEEL

No claim for exclusive use of the words "Balance Wheel" apart from the mark shown in the drawing.

Particular description of goods.—Watch and Clock Balance Wheels.

Claims use since Dec. 8, 1927.

Ser. No. 261,187. WILLIAM L. GILBERT CLOCK COMPANY, Winsted, Conn. Filed Feb. 4, 1928.

SILVER KING

Particular description of goods.—Clocks.

Claims use since Dec. 28, 1927.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 261,370. THE MARK JEWELRY CO., New York, N. Y. Filed Feb. 8, 1928.

M.J.C

Particular description of goods.—Finger Rings.
Claims use since February, 1925.

Ser. No. 261,513. LOUIS N. JACOBS, New York, N. Y. Filed Feb. 10, 1928.

LNJ

Particular description of goods.—Platinum, Diamond, and Gold Wedding Rings.
Claims use since Jan. 16, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 260,464. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed Jan. 21, 1928.



The background of the box is yellow, the representation of the toothbrush thereon is white printed in black, the word "Pro-phy-lac-tic" except on the brush is in red, and the remainder of the printing is in black. Except in combination with the other features shown in the drawing no claim is made to the representation of a box, nor to the representation of a toothbrush except as shown, nor to the exclusive use of the phrases "Tooth Brush," "The Correct Brush," or other printing appearing thereon except the registered trade-marks "Pro-phy-lac-tic" and "A Clean Tooth Never Decays."

Particular description of goods.—Toothbrushes.
Claims use since 1905.

CLASS 30.

Crockery, Earthenware, and Porcelain.

Ser. No. 259,651. JAMES M. SHAW & COMPANY, New York, N. Y. Filed Jan. 3, 1928.

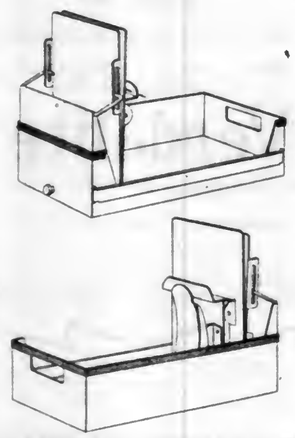


Particular description of goods.—Plates, Fruit Saucers, Bowls, Platters, Butter Chips, Vegetable Dishes, Pitchers, Sauce Boats, Sugar Bowls, Mustard Pots, Teapots, Coffeepots, Casseroles, Baking Dishes, Custard Cups, Cream Bottles, Bean Pots, Celery Trays, Pickle Dishes, Comports, Chop-Suey Casseroles, Cups and Saucers Made of China, Porcelain, and Earthenware.
Claims use since 1907.

CLASS 32.

Furniture and Upholstery.

Ser. No. 261,414. YAWMAN AND ERBE MFG. CO., Rochester, N. Y. Filed Feb. 8, 1928.



No claim is made to the design of the tray as here illustrated. The drawing is lined for the color red. The mark consists in an application of a narrow red band extending horizontally around the three sides of a tray.

Particular description of goods.—Ledger Card Trays of Sheet Metal.
Claims use since Oct. 31, 1927.

CLASS 33.

Glassware.

Ser. No. 248,734. THE SPLINTERLESS GLASS COMPANY LIMITED, Teddington, England. Filed May 9, 1927.

SPLINTEX

Particular description of goods.—Glazing for Portholes and Locomotive Lights.
Claims use since July 22, 1926.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 241,756. WESTERN FOUNDRY & FURNACE CO., Tacoma, Wash. Filed Dec. 20, 1926.

F&V

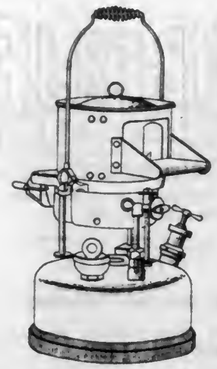
Particular description of goods.—Heating Furnaces Using as Fuel Oil, Wood, Sawdust, Hogged Fuel, Wood Products, and Coal.
Claims use since Jan. 1, 1926.

Ser. No. 257,731. DAN-DEE METAL PRODUCTS CORPORATION, New York, N. Y. Filed Nov. 18, 1927.

DAN-DEE

Particular description of goods.—Removable Louver Window Ventilators.
Claims use since Oct. 14, 1927.

Ser. No. 260,801. CLAYTON & LAMBERT MFG. CO., Detroit, Mich. Filed Jan. 28, 1928.



No claim is made to the representation of the fire pot shown in the drawing. The drawing is lined for red.

Particular description of goods.—Liquid-Fuel-Burning Fire Pots.
Claims use since Jan. 21, 1928.

Ser. No. 261,223. STRAUSE GAS IRON CO., Philadelphia, Pa. Filed Feb. 4, 1928.

IWANTU

Particular description of goods.—Burner Protectors for Gas Ranges.
Claims use since Jan. 23, 1928.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 259,354. CORK MANUFACTURING CO., LTD., London, England. Filed Dec. 27, 1927.

LANGITE.

Particular description of goods.—Washers, Gaskets, and Jointings, All in the Nature of Packings.
Claims use since 1920.

Ser. No. 261,774. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 16, 1928.

GOLD EDGE

Particular description of goods.—Canvas Belting for Farm Use.
Claims use since Oct. 28, 1927.

Ser. No. 261,840. RUB-ER-JEL PRODUCTS, INC., Needham, Mass. Filed Feb. 17, 1928.

RUB-ER-JEL

Particular description of goods.—Automobile Tire-Repair Kits and Self-Vulcanizing Blow-Out Patches.
Claims use since Aug. 12, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 243,661. THE PARKER PEN COMPANY, Janesville, Wis. Filed Feb. 1, 1927.

"BIG BROTHER"

Particular description of goods.—Mechanical Pencils.
Claims use since Oct. 10, 1924.

Ser. No. 243,662. THE PARKER PEN COMPANY, Janesville, Wis. Filed Feb. 1, 1927.

DUOFOLD JR.

Particular description of goods.—Fountain Pens and Mechanical Pencils.
Claims use since Mar. 31, 1922.

Ser. No. 243,663. THE PARKER PEN COMPANY, Janesville, Wis. Filed Feb. 1, 1927.

PERMANITE

Particular description of goods.—Fountain Pens and Mechanical Pencils.
Claims use since Dec. 10, 1926.

Ser. No. 255,629. BANKERS PRINTING COMPANY, San Francisco, Calif. Filed Oct. 5, 1927.

GUARDIAN SAFETY PAPER

No claim is made to the words "Safety Paper" apart from the mark as shown.
Particular description of goods.—Paper for Checks, Drafts, and Negotiable Instruments.
Claims use since on or about May 1, 1926.

Ser. No. 257,133. MACK-ELLIOTT PAPER COMPANY, St. Louis, Mo. Filed Nov. 5, 1927.

SPIRIT OF ST. LOUIS

BOND

The word "Bond" is hereby disclaimed apart from the mark shown.
Particular description of goods.—Writing Papers.
Claims use since Oct. 25, 1927.

Ser. No. 258,533. NATIONAL NOVELTY COMPANY, doing business as The Colonial Pen Company, Minneapolis, Minn. Filed Dec. 6, 1927.

COLONIAL

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Nov. 8, 1927.

Ser. No. 258,776. UNION CARD & PAPER CO., New York, N. Y. Filed Dec. 10, 1927.

DEER LAKE

Particular description of goods.—Paper for Accounting Books, Bill and Letter Papers, Paper for Wedding Announcements and Invitations, and Bristol Board.
Claims use since Jan. 1, 1894.

Ser. No. 258,811. GLASS SALES AGENCY, INC., Oakland, Calif. Filed Dec. 12, 1927.

ZILK

Particular description of goods.—Toilet Paper.
Claims use since May 1, 1903.

Ser. No. 260,789. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 28, 1928.

Blue Band HB

No. 37 Velvet REFILL LEADS

American Pencil Co. NEW YORK

No claim is made to the outline of a label. All reading matter with the exception of the words "Blue Band HB" and "Velvet" and the numerals "No. 37" is disclaimed apart from the mark shown on the drawing. The lining of the drawing indicates the color blue.
Particular description of goods.—Pencils.
Claims use since June 16, 1927.

Ser. No. 261,540. WALKER GOULARD PLEHN COMPANY, INC., New York, N. Y. Filed Feb. 10, 1928.

RONDAC BOND

The word "Bond" is disclaimed apart from the mark shown.
Particular description of goods.—Paper Used for Printing, Writing, Bookkeeping, and Typewriting, and Mailing Envelopes.
Claims use since about July 1, 1927.

Ser. No. 262,069. EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed Feb. 23, 1928.

EATON'S Ribbon Silhouette

Particular description of goods.—Writing Paper and Envelopes.
Claims use since Nov. 16, 1927.

CLASS 38.

Prints and Publications.

Ser. No. 252,494. FRANKLYN J. ARMSTRONG, St. Paul, Minn. Filed July 25, 1927.

PHOTASURVEY

Particular description of goods.—Survey-Record Pamphlet.
Claims use since July 15, 1927.

Ser. No. 256,712. M-W BRADERMANN CO., INC., New York, N. Y. Filed Oct. 28, 1927.

Insured Bonds

The words "Insured Bonds" are disclaimed apart from the mark shown.
Particular description of goods.—Negotiable Bonds.
Claims use since Apr. 3, 1927.

Ser. No. 257,254. JOHN E. RICHARDSON, Hollywood, Calif. Filed Nov. 8, 1927.

THE GREAT NATURAL SCIENCE SCHOOL OF A M N

The Philosophy of Individual Life

Particular description of goods.—Magazine Published Monthly.
Claims use since May 1, 1925.

Ser. No. 261,840. RUB-ER-JEL PRODUCTS, INC., Needham, Mass. Filed Feb. 17, 1928.

RUB-ER-JEL

Particular description of goods.—Automobile Tire-Repair Kits and Self-Vulcanizing Blow-Out Patches.
Claims use since Aug. 12, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 243,661. THE PARKER PEN COMPANY, Janesville, Wis. Filed Feb. 1, 1927.

"BIG BROTHER"

Particular description of goods.—Mechanical Pencils.
Claims use since Oct. 10, 1924.

Ser. No. 243,662. THE PARKER PEN COMPANY, Janesville, Wis. Filed Feb. 1, 1927.

DUOFOLD JR.

Particular description of goods.—Fountain Pens and Mechanical Pencils.
Claims use since Mar. 31, 1922.

Ser. No. 243,663. THE PARKER PEN COMPANY, Janesville, Wis. Filed Feb. 1, 1927.

PERMANITE

Particular description of goods.—Fountain Pens and Mechanical Pencils.
Claims use since Dec. 10, 1926.

Ser. No. 255,629. BANKERS PRINTING COMPANY, San Francisco, Calif. Filed Oct. 5, 1927.

GUARDIAN SAFETY PAPER

No claim is made to the words "Safety Paper" apart from the mark as shown.
Particular description of goods.—Paper for Checks, Drafts, and Negotiable Instruments.
Claims use since on or about May 1, 1926.

Ser. No. 257,133. MACK-ELLIOTT PAPER COMPANY, St. Louis, Mo. Filed Nov. 5, 1927.

SPIRIT OF ST. LOUIS BOND

The word "Bond" is hereby disclaimed apart from the mark shown.
Particular description of goods.—Writing Papers.
Claims use since Oct. 25, 1927.

Ser. No. 258,533. NATIONAL NOVELTY COMPANY, doing business as The Colonial Pen Company, Minneapolis, Minn. Filed Dec. 6, 1927.

COLONIAL

Particular description of goods.—Fountain Pens and Pencils.
Claims use since Nov. 8, 1927.

Ser. No. 258,776. UNION CARD & PAPER CO., New York, N. Y. Filed Dec. 10, 1927.

DEER LAKE

Particular description of goods.—Paper for Accounting Books, Bill and Letter Papers, Paper for Wedding Announcements and Invitations, and Bristol Board.
Claims use since Jan. 1, 1894.

Ser. No. 258,811. GLASS SALES AGENCY, INC., Oakland, Calif. Filed Dec. 12, 1927.

ZILK

Particular description of goods.—Toilet Paper.
Claims use since May 1, 1903.

Ser. No. 260,789. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Jan. 28, 1928.

Blue Band HB
No. 37
Velvet
REFILL LEADS
American Pencil Co.
NEW YORK

No claim is made to the outline of a label. All reading matter with the exception of the words "Blue Band HB" and "Velvet" and the numerals "No. 37" is disclaimed apart from the mark shown on the drawing. The lining of the drawing indicates the color blue.
Particular description of goods.—Pencils.
Claims use since June 16, 1927.

Ser. No. 261,540. WALKER GOULARD PLEHN COMPANY, INC., New York, N. Y. Filed Feb. 10, 1928.

RONDAC BOND

The word "Bond" is disclaimed apart from the mark shown.
Particular description of goods.—Paper Used for Printing, Writing, Bookkeeping, and Typewriting, and Mailing Envelopes.
Claims use since about July 1, 1927.

Ser. No. 262,069. EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed Feb. 23, 1928.

EATON'S
Ribbon
Silhouette

Particular description of goods.—Writing Paper and Envelopes.
Claims use since Nov. 16, 1927.

CLASS 38.

Prints and Publications.

Ser. No. 252,494. FRANKLYN J. ARMSTRONG, St. Paul, Minn. Filed July 25, 1927.

PHOTASURVEY

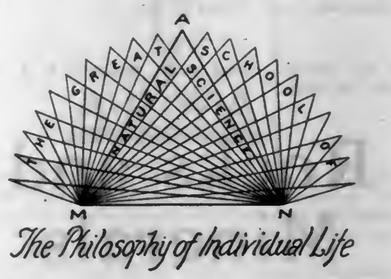
Particular description of goods.—Survey-Record Pamphlet.
Claims use since July 15, 1927.

Ser. No. 256,712. M-W BRADERMANN CO., INC., New York, N. Y. Filed Oct. 28, 1927.

Insured Bonds

The words "Insured Bonds" are disclaimed apart from the mark shown.
Particular description of goods.—Negotiable Bonds.
Claims use since Apr. 3, 1927.

Ser. No. 257,254. JOHN E. RICHARDSON, Hollywood, Calif. Filed Nov. 8, 1927.



The Philosophy of Individual Life

Particular description of goods.—Magazine Published Monthly.
Claims use since May 1, 1925.

Ser. No. 258,541. SILAS EDGAR SNYDER, Los Angeles, Calif. Filed Dec. 6, 1927.

HOLLYWOODISMS

Particular description of goods.—Series of Cartoons of Drawings in Page or Strip Form, Such as are Commonly Called "Comic Pages" or "Comic Strips."
Claims use since June 1, 1927.

Ser. No. 258,992. BULLETIN CO., Philadelphia, Pa. Filed Dec. 16, 1927.

THE SLOW CLUB PRESS

--AT THE SIGN OF THE RISING SUN--

Particular description of goods.—Printed Booklets.
Claims use since on or about Sept. 8, 1927.

Ser. No. 259,930. THE TICKER PUBLISHING COMPANY, New York, N. Y. Filed Jan. 10, 1928.

The MAGAZINE of WALL STREET

Particular description of goods.—Printed Publications, Specifically Magazines Issued Periodically.
Claims use since February, 1912.

Ser. No. 260,706. PETER ZODAC, Peekskill, N. Y. Filed Jan. 26, 1928.

Rocks and Minerals

Particular description of goods.—Quarterly Magazine.
Claims use since Sept. 1, 1926.

CLASS 39.

Clothing.

Ser. No. 226,690. THE SELBY SHOE COMPANY, Portsmouth, Ohio. Filed Jan. 30, 1926.

Sel-

Particular description of goods.—Shoes Constructed of Leather and/or Fabric.
Claims use since Jan. 12, 1926.

Ser. No. 235,364. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn. Filed July 30, 1926.



Particular description of goods.—Clothing—Namely, Ladies', Misses', Children's, and Infants' Outer and Under Garments—Namely, Coats, Wraps, Scarfs, Capes, Dresses, Gloves of Leather, Silk, and Wool, Suits for Outer and Under Wear, Sweaters, Raincoats, Blouses, Skirts for Outer and Under Wear, Waists, Ostrich Scarfs, Bath Robes, Shirts, Pajamas, Nightgowns, Gowns, Underwear of Knitted and Textile Material, Bloomers, Slips, Lounging Robes, Kimonos, Negligees, Sacques, Footwear—Namely, Mules and Bootees of Woolen and Leather Material and Combinations of These Materials, Pullman Robes, Garters, Caps, Frocks, Aprons, Uniforms, Hosiery, Shawls, Bonnets, Infants' Bands, Bathing Suits, Bathing Caps, Leggings, and Rompers.
Claims use since June 15, 1926.

Ser. No. 235,366. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn. Filed July 30, 1926.

YOULAN

Particular description of goods.—Clothing—Namely, Ladies', Misses', Children's, and Infants' Outer and Under Garments—Namely, Coats, Wraps, Scarfs, Capes, Dresses, Gloves of Leather, Silk, and Wool, Suits for Outer and Under Wear, Sweaters, Raincoats, Blouses, Skirts for Outer and Under Wear, Waists, Ostrich Scarfs, Bath Robes, Shirts, Pajamas, Nightgowns, Gowns, Underwear of Knitted and Textile Material, Bloomers, Slips, Lounging Robes, Kimonos, Negligees, Sacques, Footwear—Namely, Mules and Bootees of Woolen and Leather Material and Combinations of These Materials, Pullman Robes, Garters, Caps, Frocks, Aprons, Uniforms, Hosiery, Shawls, Bonnets, Infants' Bands, Bathing Suits, Bathing Caps, Leggings, and Rompers.
Claims use since about Sept. 1, 1919.

Ser. No. 235,443. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn. Filed July 31, 1926.



Particular description of goods.—Clothing—Namely, Ladies', Misses', Children's, and Infants' Outer and Under Garments—Namely, Coats, Wraps, Scarfs, Capes, Dresses, Gloves of Leather, Silk, and Wool, Suits for Outer and Under Wear, Sweaters, Raincoats, Blouses, Skirts for Outer and Under Wear, Waists, Ostrich Scarfs, Bath Robes, Shirts, Pajamas, Nightgowns, Gowns, Underwear of Knitted and Textile Material, Bloomers, Slips, Lounging Robes, Kimonos, Negligees, Sacques, Footwear—Namely, Mules and Bootees of Woolen and Leather Material and Combinations of These Materials, Pullman Robes, Garters, Caps, Frocks, Aprons, Uniforms, Hosiery, Shawls, Bonnets, Infants' Bands, Bathing Suits, Bathing Caps, Leggings, and Rompers.
Claims use since June 15, 1926.

Ser. No. 235,768. THE YOUNG-QUINLAN COMPANY, Minneapolis, Minn. Filed Aug. 9, 1926.

Bambino

Particular description of goods.—Clothing—Namely, Ladies', Misses', Children's, and Infants' Outer and Under Garments—Namely, Coats, Wraps, Scarfs, Capes, Dresses, Gloves of Leather, Silk, and Wool, Suits for Outer and Under Wear, Sweaters, Raincoats, Blouses, Skirts for Outer and Under Wear, Waists, Ostrich Scarfs, Bath Robes, Shirts, Pajamas, Nightgowns, Gowns, Underwear of Knitted and Textile Material, Bloomers, Slips, Lounging Robes, Kimonos, Negligees, Sacques, Footwear—Namely, Mules and Bootees of Woolen and Leather Material and Combinations of These Materials, Pullman Robes, Garters, Caps, Frocks, Aprons, Uniforms, Hosiery, Shawls, Bonnets, Infants' Bands, Bathing Suits, Bathing Caps, Leggings, and Rompers.
Claims use since June 15, 1926.

Ser. No. 248,781. I. MILLER AND SONS, INCORPORATED, Long Island City, N. Y. Filed May 10, 1927.

I.MILLER
Beautiful Hosiery



"As Beautiful Shoes Deserve"

All rights to the exclusive use of the words "Beautiful Hosiery" are disclaimed apart from the mark as shown. Applicant is the owner of registration No. 179,272.
Particular description of goods.—Women's and Girls' Hosiery Made of Textiles, Silks, and Combinations of These Materials.
Claims use since Mar. 1, 1927.

Ser. No. 255,149. A. ROBERT WIELAND, Auerbach, near Chemnitz, Germany. Filed Sept. 23, 1927.

A·R·W·A

No claim is made to the representation of the stocking apart from the mark as shown in the drawing. The mark consists in the representation of a leg or stocking against an arrowhead-shaped background, beneath which are the underlined letters "A. R. W. A."
Particular description of goods.—Hosiery, Vestments in the Nature of Underwear of Knitted or Textile Fabric for Men, Women, and Children; Corsets, Neckties, Braces in the Nature of Garment Supporters, Gloves Made from Wool, Cotton, Silk, or Artificial Silk.
Claims use since about June, 1926.

Ser. No. 256,190. EDWARD L. ILSON, Brooklyn, N. Y. Filed Oct. 17, 1927.



Applicant owns registration No. 194,614.
Particular description of goods.—Men's, Women's, Boys', Girls', and Infants' Hats, Coats, Suits, Dresses.
Claims use since June, 1922.

Ser. No. 256,371. PARKLEY SHIRT CO., INC., New York, N. Y., and Branford, Conn. Filed Oct. 20, 1927.

Branford

No claim is made to the word "Branford" apart from the mark as shown on the drawing. The lines on the drawing are used for shading purposes only.
Particular description of goods.—Men's Dress, Negligee, and Work Top Shirts.
Claims use since Oct. 1, 1926.

Ser. No. 256,749. THE STYLE-RITE DRESS COMPANY, Cleveland, Ohio. Filed Oct. 28, 1927.

STYLE-RITE

Particular description of goods.—Dresses.
Claims use since Oct. 1, 1927.

Ser. No. 258,395. ARTCRAFT SILK HOSIERY MILLS, INC., Philadelphia, Pa. Filed Dec. 3, 1927.

HEMLOCK

Particular description of goods.—Hosiery.
Claims use since Nov. 10, 1927.

Ser. No. 259,055. STERN BROTHERS, New York, N. Y. Filed Jan. 3, 1928.

PAMELA

Particular description of goods.—Gloves Made of Leather.
Claims use since Sept. 20, 1926.

Ser. No. 260,364. VANITY FAIR SILK MILLS, Reading, Pa. Filed Jan. 19, 1928.

VANITESE

Particular description of goods.—Garments Made from Cloth Manufactured from Worm Silk or from Combination Cloths Made from Worm Silk and Synthetic Fibre, Such Garments for Women Consisting of Vests, Bloomers, Knickers, Drawers, Panties, Union Suits, Combinations Having a Bandeau for the Top Portion and a Bloomer for the Bottom Portion or Combinations Having a Bandeau for the Top Portion and a Step-In Drawer for the Bottom Portion, Step-In Chemise, Envelope Chemise, Corset Covers, Bandeaux, Nightgowns, Bathing Suits, Pajamas, Pettibockers, Step-In Drawers, Princess Slips, Petticoats; Men's Underwear Consisting of Union Suits, Athletic Shirts and Drawers; Children's Underwear Consisting of Vests, Bloomers, Drop-Seat Union Suits, Costume Slips, Nightgowns, and Pajamas.
Claims use since Aug. 12, 1927.

Ser. No. 260,439. FASHION PARK INCORPORATED, Rochester, N. Y. Filed Jan. 21, 1928.



The word "Fifty" is disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.
Claims use since about Dec. 1, 1927.

Ser. No. 260,504. LOUIS KALLISH, New York, N. Y. Filed Jan. 23, 1928.

ARKAY
GIRLS-FLAPPER AND JUNIOR DRESSES

No claim is made for the descriptive words "Girls—Flapper and Junior Dresses."
Particular description of goods.—Misses', Children's, and Infants' Dresses.
Claims use since Oct. 15, 1926.

Ser. No. 260,535. SHIREK & HIRSCH, New York, N. Y. Filed Jan. 23, 1928.

PERSONALITY HOTTENTOGS

Particular description of goods.—Men's and Young Men's Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since Dec. 29, 1927.

Ser. No. 260,638. NORMAN H. LAKE, Boston, Mass. Filed Jan. 25, 1928.

"CONFORMO"

Particular description of goods.—Hose Protectors to be Worn Over the Stockings.
Claims use since Dec. 4, 1927.

Ser. No. 261,010. KOPS BROS. INC., New York, N. Y. Filed Feb. 1, 1928.

Click

Particular description of goods.—Corsets, Brassières, and Girdles.
Claims use since Dec. 15, 1927.

Ser. No. 261,142. LOUIS N. POKRESS, Los Angeles, Calif. Filed Feb. 3, 1928.

Luisan

Particular description of goods.—Ladies' Hats.
Claims use since Dec. 1, 1927.

Ser. No. 261,253. GLADYS CLOAK & SUIT CO., INC., New York, N. Y. Filed Feb. 6, 1928.

"Gladco"

Particular description of goods.—Coats, Cloaks, Suits, Dresses, Ensembles, for Women, Misses, and Girls.
Claims use since Jan. 2, 1928.

Ser. No. 261,308. JOS. ENGEL CO., New York, N. Y. Filed Feb. 7, 1928.

"GRID"

Particular description of goods.—Ladies' Coats, Suits, and Dresses.
Claims use since September, 1927.

Ser. No. 261,427. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Feb. 9, 1928.

JIGGERS

Particular description of goods.—Tennis and Athletic Shoes Made in Part of Canvas and in Part of Rubber.
Claims use since about June 1, 1926.

Ser. No. 261,562. FRENCH, SHRINER & URNER, Boston, Mass. Filed Feb. 11, 1928.

FRENCH SHRINER & URNER

Particular description of goods.—Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since May, 1909.

Ser. No. 261,572. HOOD RUBBER COMPANY, Watertown, Mass. Filed Feb. 11, 1928.

SUPREX

Particular description of goods.—Rubber Heels.
Claims use since Feb. 6, 1928.

Ser. No. 261,654. SENACK SHOE COMPANY, St. Louis, Mo. Filed Feb. 13, 1928.

ARCH JOY

Particular description of goods.—Shoes Constructed of Combination of Leather, Rubber, and Fabric.
Claims use since about Jan. 28, 1928.

Ser. No. 261,702. THE CROFUT & KNAPP CO., South Norwalk, Conn. Filed Feb. 15, 1928.

Lake Drive

Particular description of goods.—Caps and Hats for Men and Women.
Claims use since Feb. 1, 1928.

Ser. No. 261,705. DEXDALE HOSIERY MILLS, Lansdale, Pa. Filed Feb. 15, 1928.

REPELLO

Particular description of goods.—Hosiery.
Claims use since Dec. 19, 1927.

Ser. No. 261,707. FIFTH AVENUE MODES INC., New York, N. Y. Filed Feb. 15, 1928.

Fifth Avenue Modes Inc.

Particular description of goods.—Ladies' and Misses' Dresses.
Claims use since May 1, 1927.

Ser. No. 261,710. HANES HOSIERY MILLS COMPANY, Winston-Salem, N. C. Filed Feb. 15, 1928.

SKYSCRAPER

Particular description of goods.—Hosiery.
Claims use since Jan. 2, 1928.

Ser. No. 261,783. ARCEY COMPANY INC., New York, N. Y. Filed Feb. 17, 1928.

Peerpoint

Particular description of goods.—Children's and Ladies' Hosiery.
Claims use since Feb. 15, 1927.

Ser. No. 261,854. J. & M. YELLIN, New York, N. Y. Filed Feb. 17, 1928.

Botanical Garden

Particular description of goods.—Ladies' and Misses' Dresses.
Claims use since about Dec. 1, 1927.

Ser. No. 261,887. BENJAMIN LOBEL, doing business as Lo-Bel Middy Company, New York, N. Y. Filed Feb. 18, 1928.



The drawing is lined to represent red color. No claim is made to the word "Values" apart from the mark shown in the drawing.
Particular description of goods.—Boys' Wash Suits and Blouses, Girls' Knickers, Play Suits, Children's Dresses, Gymnastic Apparel—Namely, Skirts and Serge and Satin Bloomers.
Claims use since 1918.

Ser. No. 261,988. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 20, 1928.

Foremost

Particular description of goods.—Men's Clothing—to wit, Overalls.
Claims use since June 10, 1925.

CLASS 40.

Fancy Goods, Furnishings, and Notions.

Ser. No. 232,270. EMILE MAURICE HERMÈS, Paris, France. Filed May 26, 1926.

HERMÈS PARIS

Applicant disclaims the right to the exclusive use of the word "Paris."
Particular description of goods.—Toilet Sets Comprising Their Containers Made of Leather, Leather Composition, or Papier Mâché, and Their Contents, as Combs, Brushes, Mirrors, Shoehorns, Buttonhooks, Powder Jars, Hair Receivers, Nail Files, Nail Scissors, Cuticle Knives, and Hairpin Trays; Sewing Sets Comprising Their Containers Made of Leather, Leather Composition, Papier Mâché, Straw, Wickerwork, or Wood, and Their Contents, as Needles, Thimbles, Scissors, Threads, and Emery Cushions.
Claims use since January, 1923.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 240,068. DANDA HALPERN CO. INC., New York, N. Y. Filed Nov. 15, 1926.

JIFFY SNUG-FIT

No rights are claimed in the words "Snug-Fit," apart from the rest of the mark.
Particular description of goods.—Card-Table Cover of Textile Material.
Claims use since about June 1, 1926.

Ser. No. 253,629. NATIONAL BELLAS HESS CO. INC., New York, N. Y. Filed Aug. 17, 1927.

SUN WHITE

Particular description of goods.—Linen Piece Goods, Sheets, and Pillowcases.
Claims use since about June 1, 1927.

Ser. No. 257,358. BERTRAM GOLDBERG, INC., Johnstown, N. Y. Filed Nov. 10, 1927.

B G INC.

Particular description of goods.—Weighted Piece Goods Consisting of Tricot and Milanese Silks and Piece Goods Consisting of Tricot and Milanese Fabrics Dyed Pure Dye Made of All-Silk or Combination Yarns.
Claims use since October, 1924.

Ser. No. 258,787. BEAUTICRAFT IMPORT CORPORATION, New York, N. Y. Filed Dec. 10, 1927.

WAVE-O-CAP

Applicant does not claim exclusive appropriation of the words "Wave" and "Cap," except in the precise relation and association in which it appears on the drawing and description as "Wave-O-Cap."
Particular description of goods.—Silk Hair Nets.
Claims use since Sept. 15, 1927.

Ser. No. 259,115. JOSEPH A. HUBBARD, doing business as The Cotton Fabric Co., New York, N. Y. Filed Dec. 19, 1927.

DRI-RITE

Particular description of goods.—Toweling and Terry Fabrics in the Piece, Textile Wash Cloths, Textile Bath Sheets, Textile Bath Robing in the Piece, Textile Bath Mats, Textile Bath Mits, Textile Towels, and Textile Bath Rugs.
Claims use since June 23, 1926.

Ser. No. 259,686. C. J. MENTRUP COMPANY, INC., New York, N. Y. Filed Jan. 3, 1928.

AGRASTAN

Particular description of goods.—Textile Carpets and Rugs.
Claims use since January, 1927.

Ser. No. 261,520. M. J. NOLAN, INC., New York, N. Y. Filed Feb. 10, 1928.

"Satin Reflection"

The word "Satin" is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Textile Fabrics—Namely, Piece Goods of Silk and Artificial Silk.

Claims use since Dec. 24, 1927.

Ser. No. 261,615. ETABLISSEMENTS ANDRÉ GILLIER, Troyes, France. Filed Feb. 13, 1928.

JIL

Particular description of goods.—Knitted Piece Goods Manufactured from Silk, Wool Cashmere, Rabbit Hair, and Angora Wool.

Claims use since July 30, 1927.

Ser. No. 261,826. MENKE, KAUFMANN & CO., INC., New York, N. Y. Filed Feb. 17, 1928.

Seven Ages

Particular description of goods.—Silk in the Piece.

Claims use since Feb. 11, 1928.

Ser. No. 262,320. MCGREEVEY, WERRING & HOWELL, INC., New York, N. Y. Filed Feb. 27, 1928.

MC WERRWELL

Particular description of goods.—Sheets, Pillowcases, Sheeting, Bedspreads, and Blankets of Textile.

Claims use since about August, 1927.

Ser. No. 262,443. CHENEY BROTHERS, South Manchester, Conn. Filed Mar. 1, 1928.

Debonair

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since Feb. 24, 1928.

Ser. No. 262,657. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Mar. 6, 1928.

Nauticalle

Particular description of goods.—Piece Goods Made of Silk, Cotton, and Wool.

Claims use since Feb. 24, 1928.

Ser. No. 262,674. MODEL MILLS COMPANY, Philadelphia, Pa. Filed Mar 6, 1928.

SPARTAN

Particular description of goods.—Wool Wilton Carpets and Rugs.

Claims use since Jan. 5, 1911.

CLASS 43.

Thread and Yarn.

Ser. No. 256,226. SPINNFASER AKTIENGESELLSCHAFT, Elsterberg, Germany. Filed Oct. 17, 1927.

SPINNFASER 8 ELSTERBERG

Applicant disclaims the words "Spinnfaser" and "Elsterberg" apart from the mark as shown in the drawing.

Particular description of goods.—Threads and Yarns Made from Artificial Silk.

Claims use since Apr. 27, 1926.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 244,485. THE ALLIGATOR COMPANY, St. Louis, Mo. Filed Feb. 17, 1927.

Alligator

Particular description of goods.—Hospital Sheeting of Waterproof Fabric.

Claims use since Sept. 1, 1908.

Ser. No. 262,104. MARGARET MALOUF, Brooklyn, N. Y. Filed Feb. 23, 1928.

Belto Pak
TRADE MARK
Combined Sanitary Napkin & Belt
PATENT APPLIED FOR

No claim is made to the words "Trade-Mark," "Combined Sanitary Napkin & Belt" and "Patent Applied for" apart from the mark shown on the drawing.

Particular description of goods.—Combined Sanitary Napkin and Belt.

Claims use since Feb. 8, 1928.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 260,748. PENNSYLVANIA BOTTLING & SUPPLY CORP., Philadelphia, Pa. Filed Jan. 27, 1928.

Penn-Rock



Particular description of goods.—Filtered, Lithiated, and Carbonated Water and Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.

Claims use since Dec. 20, 1927.

Ser. No. 262,013. AMERICAN STORES COMPANY, Philadelphia, Pa. Filed Feb. 21, 1928.

HI-HO

Particular description of goods.—Ginger Ale, Root Beer, and Sarsaparilla.

Claims use since Aug. 15, 1927.

Ser. No. 262,016. BERKELEY SPRINGS BOTTLING CO., Berkeley Springs, W. Va. Filed Feb. 21, 1928.

BLUE MOUNTAIN

Particular description of goods.—Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.

Claims use since about Feb. 1, 1928.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 215,626. FREDRIKSSTAD PRESERVING CO., Fredriksstad, Norway. Filed June 11, 1925.



The mark "Kjögemester" is the Norwegian word meaning "chef". The portrait shown is fanciful.

Particular description of goods.—Canned Fish.

Claims use since about Feb. 16, 1924.

Ser. No. 215,627. FREDRIKSSTAD PRESERVING CO., Fredriksstad, Norway. Filed June 11, 1925.



No claim is made to the representation of the fish apart from the mark as shown.

Particular description of goods.—Canned Fish.

Claims use since about July 25, 1923.

Ser. No. 225,256. DOBSON-CANNON CO., Nashville, Tenn. Filed Dec. 29, 1925.

TEMPTU

Particular description of goods.—Canned Fruits and Vegetables, Breakfast Cereals, Coffee, Dried Fruits, Canned Pork and Beans, Vinegar, and Canned Sauerkraut.

Claims use since 1915.

Ser. No. 236,087. ISLAND BELLE GRAPE GROWERS' UNION, Grapeview, Wash. Filed Aug. 17, 1926.

OLYMPIC
BRAND
ISLAND BELLE
GRAPES

No claim is made to the words "Brand" and "Island Belle Grapes" apart from the mark shown in the drawing.
Particular description of goods.—Fresh Grapes.
Claims use since Oct. 15, 1925.

Ser. No. 241,508. ALBANY PACKING CO., INC., West Albany, N. Y. Filed Dec. 15, 1926.

PIPPINS

Particular description of goods.—Fresh, Cured, and Smoked Pork and Sausage.
Claims use since Dec. 27, 1924.

Ser. No. 242,462. ALBANY PACKING CO., INC., West Albany, N. Y. Filed Jan. 7, 1927.



Particular description of goods.—Sausage; Fresh, Cured, and Smoked Pork and Beef; Lard, Butter, Eggs, and Cheese.
Claims use since Dec. 27, 1924.

Ser. No. 242,464. ALBANY PACKING CO., INC., West Albany, N. Y. Filed Jan. 7, 1927.



No registration rights are claimed for the words "First Prize."
Particular description of goods.—Sausage; Fresh, Cured, and Smoked Pork and Beef; Lard, Butter, Eggs, and Cheese.
Claims use since Dec. 27, 1924.

Ser. No. 242,573. DAIRY DRINK COMPANY, Chicago, Ill. Filed Jan. 10, 1927.

AIRY RINK

Applicant makes no claim to the words "Dairy Drink" except in the particular arrangement and manner shown in the drawing.
Particular description of goods.—Chocolate-Milk Drinks.
Claims use since Feb. 1, 1925.

Ser. No. 243,112. THE REA-PATTERSON MILLING COMPANY, Coffeyville, Kans. Filed Jan. 20, 1927.

SOUTHERN ROSE

Particular description of goods.—Wheat Flour.
Claims use since February, 1913.

Ser. No. 243,260. THE FOLLY TOWN COMPANY, Chicago, Ill. Filed Jan. 24, 1927.

PANGO PANGO

Particular description of goods.—Candy.
Claims use since about Dec. 15, 1926.

Ser. No. 244,763. FRANK H. FLEER CORPORATION, Philadelphia, Pa. Filed Feb. 23, 1927.



The words "Chewing Gum" and the pictorial representation of a wrapper of the goods are disclaimed apart from the other features of the mark.
Particular description of goods.—Chewing Gum.
Claims use since Dec. 1, 1926.

Ser. No. 244,764. FRANK H. FLEER CORPORATION, Philadelphia, Pa. Filed Feb. 23, 1927.

FLEER'S TREASURE HUNT GUM 1¢

The words "Gum 1¢" are disclaimed apart from the other features of the mark.
Particular description of goods.—Chewing Gum.
Claims use since Aug. 1, 1926.

Ser. No. 245,222. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Mar. 4, 1927.

LUCKY STRIKE

Particular description of goods.—Wheat Flour.
Claims use since on or about Feb. 9, 1911.

Ser. No. 247,214. RICHIE R. SAWYER, doing business as Sawyer Grain Company, San Francisco, Calif. Filed Apr. 9, 1927.

P-C

Particular description of goods.—Poultry and Livestock Food.
Claims use since Feb. 20, 1926.

Ser. No. 248,942. GERALD B. WADSWORTH, doing business as Home Makers Educational Service, Freeport, N. Y. Filed May 12, 1927.



No claim is made to the exclusive right to the words "Approved" and "Standard Products" except in the form and association shown.
Particular description of goods.—Cocoa, Bread and Pastry Flour, Evaporated Milk, Canned Fish, and Cranberries.
Claims use since Mar. 1, 1927.

Ser. No. 248,980. GERALD B. WADSWORTH, doing business as Home Makers Educational Service, Freeport, N. Y. Filed May 13, 1927.

H·M

Particular description of goods.—Cocoa, Bread and Pastry Flour, Evaporated Milk, Canned Fish, and Cranberries.
Claims use since Feb. 1, 1926.

Ser. No. 250,123. HERSHEY CHOCOLATE COMPANY, Hershey, Pa. Filed June 7, 1927.

Velvetier

Particular description of goods.—Chocolate Compound Used for the Purpose of Producing Smoothness in Ice Cream.
Claims use since about May 23, 1927.

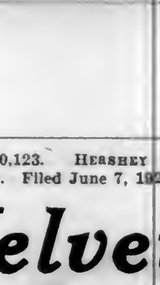
Ser. No. 252,870. WARD-OWSLEY CO., Aberdeen, S. Dak. Filed Aug. 1, 1927.

Mary Lu

Particular description of goods.—Candy.
Claims use since Feb. 2, 1927.

Ser. No. 254,014. STANARD-TILTON MILLING CO., St. Louis, Mo.; Alton, Ill.; and Dallas, Tex. Filed Aug. 26, 1927.

AMERICAN BEAUTY



Particular description of goods.—Stock and Poultry Food—Namely, Hominy Food, Wheat Bran, Screenings, White Shorts, Brown Shorts, Milo Chops, Chick Feed, and Hen Feed.
Claims use since September, 1898.

Ser. No. 254,465. F. T. MCELROY, doing business as F. T. McElroy Company, Watsonville, Calif. Filed Sept. 7, 1927.

FAVORITE

Particular description of goods.—Fresh Lettuce.
Claims use since Apr. 15, 1927.

Ser. No. 254,945. SWOPE BROS., Johnstown, Pa. Filed Sept. 19, 1927.

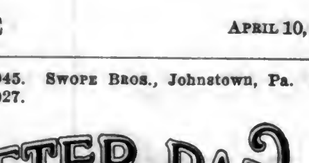
PETER PAN



Particular description of goods.—Self-Rising Pancake Flour.
Claims use since July 1, 1927.

Ser. No. 255,759. VICTOR MATUSEK, doing business as Pure and Tasty Food Products, Chicago, Ill. Filed Oct. 7, 1927.

HAPPY FAMILY BRAND



The word "Brand" is disclaimed.
Particular description of goods.—Canned Goulash.
Claims use since Sept. 1, 1927.

Ser. No. 256,310. WILLIAM S. SCHMITT, doing business as Schmitt's Bakery, Kenosha, Wis. Filed Oct. 19, 1927.

WE Lindy Bread PRIDE OF KENOSHA

No claim is made to the word "Bread" apart from the mark shown herein.
Particular description of goods.—Bread.
Claims use since June 10, 1927.

Ser. No. 257,056. EGYPTIAN RED LENTIL CO., New York, N. Y. Filed Nov. 4, 1927.



Particular description of goods.—Dried Lentil Beans.
Claims use since Oct. 1, 1927.

Ser. No. 257,346. CHICAGO MALT & HOPS COMPANY, Chicago, Ill. Filed Nov. 10, 1927.

"OLD GLORY"

Particular description of goods.—Malt Syrup.
Claims use since May 20, 1920.

Ser. No. 257,448. THE STROH PRODUCTS COMPANY, Detroit, Mich. Filed Nov. 11, 1927.

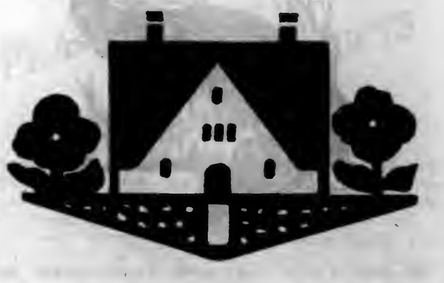
CHIEF



Particular description of goods.—Malt Syrup.
Claims use since June 10, 1927.

Ser. No. 257,721. REGINE ZIMMERMAN, Maplewood, N. J. Filed Nov. 17, 1927.

Emily Rae



The name "Emily Rae" appearing on the drawing is disclaimed except in association with the other features of the mark.
Particular description of goods.—Canned, Preserved, and Pickled Fruits, and Vegetables, Jams, and Jellies.
Claims use since Mar. 15, 1927.

Ser. No. 257,921. DAISY DOUGHNUT SHOP, New York, N. Y. Filed Nov. 22, 1927.

DAISY DOUGHNUT SHOP · 136 EAST 59TH ST. N.Y.C.

Applicant disclaims "136 East 59th St. N. Y. C." apart from the mark shown.
Particular description of goods.—Doughnuts.
Claims use since July 19, 1927.

Ser. No. 258,189. MOUNTAIN CITY MILL CO., INC., Chattanooga, Tenn. Filed Nov. 29, 1927.



No claim is made to the words "Florida Special" apart from the mark shown in the drawing.
Particular description of goods.—Self-Rising Flour.
Claims use since July 9, 1927.

Ser. No. 258,955. PENNSYLVANIA CANNING CO., New Freedom, Pa. Filed Dec. 15, 1927.

PACCO
DELICIOUS

The trade-mark consists of the words "Pacco Delicious," the word "Delicious," forming part of the unitary expression, not being claimed except as associated with the word "Pacco."
Particular description of goods.—Canned Vegetables.
Claims use since Sept. 2, 1927.

Ser. No. 259,003. E. W. J. HEARTY, INC., New York, N. Y. Filed Dec. 16, 1927.



The color lines on the drawing represent the conventional lines for green.
Particular description of goods.—Fresh Apples.
Claims use since Nov. 1, 1927.

Ser. No. 259,036. WILSON & CO., INC., Chicago, Ill. Filed Dec. 16, 1927.

HYDRO-FAT

Particular description of goods.—Hydrostearoleine, the Same Being a Hydrogenated Vegetable Oil of Lardlike Appearance and Consistency.
Claims use since Nov. 5, 1927.

Ser. No. 259,189. WAGNER & WURTZEL, INC., Perth Amboy, N. J. Filed Dec. 20, 1927.



The picture shown in the drawing is a pen-and-ink drawing of Max Wurtzel, one of the members of the corporation, made when he was a baby. The words "Eggs for Babies and Invalids" are disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Eggs.
Claims use since Dec. 5, 1927.

Ser. No. 259,599. J. ALLEN SMITH & CO., Knoxville, Tenn. Filed Dec. 31, 1927.

ROLLER
KING

Particular description of goods.—Wheat Flour.
Claims use since December, 1888.

Ser. No. 259,743. HARRY B. MILLER, doing business as The H. B. Miller Agency, Toppenish, Wash. Filed Jan. 5, 1928.

PENNANT
BRAND
YAKIMA

Applicant disclaims the word "Brand" and "Yakima" except in the exact relation and association in which they appear. The vertical lining of the drawing is intended to denote the color red.
Particular description of goods.—Potatoes in Their Natural State.
Claims use since Aug. 15, 1926.

Ser. No. 260,283. MCDERMONT & WALL, Riverside, Calif. Filed Jan. 18, 1928.

Blue Bow

Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since December, 1911.

Ser. No. 260,313. BRIGHT BISCUIT COMPANY, Kansas City, Mo. Filed Jan. 19, 1928.



No claim is made to the word "Best" apart from the mark as shown.
Particular description of goods.—Cakes and Crackers.
Claims use since February, 1923.

Ser. No. 260,719. ROY W. H. CRABB, Battle Creek, Mich. Filed Jan. 27, 1928.



"A Kick in Every Handout, A Handout Every One Likes, Ask for a Handout, 5¢," and the picture representative of the goods as exclusive features are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Candy.
Claims use since Oct. 24, 1927.

Ser. No. 260,741. LUMMIS & COMPANY, Philadelphia, Pa. Filed Jan. 27, 1928.



PEANUT PLANE PRODUCTS

FLY OVER THE WORLD

Applicant is the owner of registration No. 169,499, issued June 19, 1928. No claim is made to the exclusive use of the word "Peanut" or "Products" apart from the mark shown in the drawing.
Particular description of goods.—Peanut Candy, Peanut Brittle, Peanut Butter, Salted Peanuts, and Peanuts in the Shell and Shelled Peanuts.
Claims use since Jan. 24, 1928.

Ser. No. 260,872. C. & M. PRODUCE COMPANY, Carrizo Springs, Tex. Filed Jan. 30, 1928.

CM

Particular description of goods.—Fresh Spinach, Onions, Romaine, Lettuce, and Strawberries.
Claims use since Jan. 1, 1924.

Ser. No. 260,961. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed Jan. 31, 1928.



No claim is made to the words in either English or Hebrew Characters as follows: "Pure Cocoa; Purity Guaranteed by, Brooklyn, New York, ½ lb. Net." The Hebrew words are "Rokeach's Pure Cocoa."
Particular description of goods.—Cocoa.
Claims use since July, 1913.

Ser. No. 261,022. AD. SEIDEL & SONS, Chicago, Ill. Filed Feb. 1, 1928.

ORIENTAL

Particular description of goods.—Compound Containing Flavoring and Other Ingredients Ready Mixed for Making Puddings, Cakes, Pies, and the Like.
Claims use since Sept. 27, 1927.

Ser. No. 261,201. CHARLES N. MILLER CO., Boston, Mass. Filed Feb. 4, 1928.

Katy Ann

Particular description of goods.—Candy.
Claims use since 1917.

Ser. No. 261,220. SHENANDOAH MILLING COMPANY, INC., Shenandoah, Va. Filed Feb. 4, 1928.



No claim is made to the exclusive use of the word "Special" apart from the mark as shown on the drawing.
Particular description of goods.—Wheat Flour, Plain and Self-Rising.
Claims use since Dec. 15, 1925.

Ser. No. 261,325. WILLIAM F. MULHERIN, doing business as Excelsior Supply Company, Syracuse, N. Y. Filed Feb. 7, 1928.



No claim is made to the words "Strong Malt" except in the association shown apart from the mark shown in the drawing.
Particular description of goods.—Malt Extract.
Claims use since Apr. 1, 1921.

Ser. No. 261,410. LEWIS W. VERSLUIS, Kalamazoo, Mich. Filed Feb. 8, 1928.

YELLOW KID



The pictorial representation of the goods is disclaimed apart from the mark as shown.
Particular description of goods.—Fresh Celery.
Claims use since July 1, 1927.

Ser. No. 261,487. THE COLORADO MILLING & ELEVATOR CO., Denver, Colo. Filed Feb. 10, 1928.

HAPPY HOUR

Particular description of goods.—Wheat Flour, Corn Meal, and Whole-Wheat Flour.
Claims use since February, 1927.

Ser. No. 261,509. THE HIGGINSVILLE MILLING COMPANY, Higginsville, Mo. Filed Feb. 10, 1928.

Peacock



Particular description of goods.—Wheat Flour.
Claims use since May 10, 1886.

Ser. No. 261,566. THE JAMES G. GILL COMPANY, INC., Norfolk, Va. Filed Feb. 11, 1928.



Particular description of goods.—Coffee and Tea, Rice, and Spice.
Claims use since March, 1902.

Ser. No. 261,623. ANGELO GLORIOSO, New Orleans, La. Filed Feb. 13, 1928.

Eagle

Particular description of goods.—Tomato Paste.
Claims use since 1916.

Ser. No. 261,671. HOFFMANN-HAYMAN COFFEE CO., San Antonio, Tex. Filed Feb. 14, 1928.



Particular description of goods.—Compound of Coffee, Cereal, and Chicory.
Claims use since 1926.

Ser. No. 261,682. PRAIRIE FLOUR MILL COMPANY, Lewiston, Idaho. Filed Feb. 14, 1928.

Prairie-Maid

Particular description of goods.—Wheat Flour.
Claims use since 1923.

Ser. No. 261,853. R. C. WILLIAMS & CO., INC., New York, N. Y. Filed Feb. 17, 1928. Under 10-year proviso.

HEALTH BRAND

Particular description of goods.—Canned, Bottled, and Preserved Fruits and Vegetables.
Claims use since about Aug. 28, 1885.

Ser. No. 261,935. BOLIVAR PACKING CO., San Diego, Calif. Filed Feb. 20, 1928.

EL MOLINO

Particular description of goods.—Canned Olives.
Claims use since Jan. 12, 1928.

Ser. No. 261,945. R. E. COTTER COMPANY, San Francisco, Calif. Filed Feb. 20, 1928.

CALVALE

Particular description of goods.—Canned Fruits and Dried Fruits.
Claims use since Aug. 1, 1927.

Ser. No. 261,960. HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii. Filed Feb. 20, 1928.

PINEPIE

Particular description of goods.—Canned Crushed Pineapple.
Claims use since Dec. 24, 1927.

Ser. No. 261,992. WM. H. STANLEY, INC., New York, N. Y. Filed Feb. 20, 1928.

EATMOR

Particular description of goods.—Canned Fish.
Claims use since Jan. 24, 1928.

Ser. No. 262,135. THE UTAH CANNING CO., Ogden, Utah. Filed Feb. 23, 1928.

ROLY-POLY

Particular description of goods.—Canned Vegetables.
Claims use since October, 1923.

Ser. No. 262,341. WILSON & CO., Chicago, Ill. Filed Feb. 27, 1928.

Delco

Particular description of goods.—Oleomargarine.
Claims use since Sept. 1, 1920.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 261,064. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Feb. 2, 1928.

FLY FLIKKER

Applicant disclaims exclusive right to the use of the word "Fly" except as the same is used in connection with the other features of the mark.
Particular description of goods.—Fly Swatters.
Claims use since Jan. 1, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 10, 1928.

240,728. INHALANT FOR RELIEVING HEAD COLDS AND NASAL CATARRH. UNITED DRUG COMPANY, Boston, Mass.
Filed December 13, 1927. Serial No. 258,891. PUBLISHED JANUARY 24, 1928. Class 6.

240,729. PINE-OIL DISINFECTANTS, CRESOL DISINFECTANTS, COAL-TAR DISINFECTANTS, DEODORANTS, DEODORANT BLOCKS, FUMIGANTS, INSECTICIDES, WEED KILLERS, BUG KILLERS, ROACH POWDERS, THEATRE SPRAYS, INSECT SPRAYS, AND STOCK DIPS. JOHN C. P. HELM, doing business as Helm Laboratories, New Orleans, La.
Filed December 13, 1927. erial No. 258,871. PUBLISHED JANUARY 24, 1928. Class 6.

240,730. HYPNOTIC AND SEDATIVE. FIRST TEXAS CHEMICAL MANUFACTURING CO., Dallas, Tex.
Filed December 13, 1927. Serial No. 258,864. PUBLISHED JANUARY 24, 1928. Class 6.

240,731. A HEPATIC STIMULANT. FIRST TEXAS CHEMICAL MANUFACTURING CO., Dallas, Tex.
Filed December 13, 1927. Serial No. 258,862. PUBLISHED JANUARY 24, 1928. Class 6.

240,732. GOLF CLUBS AND GOLF BAGS. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio.
Filed December 2, 1927. Serial No. 258,386. PUBLISHED JANUARY 24, 1928. Class 22.

240,733. GOLF CLUBS. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio.
Filed December 2, 1927. Serial No. 258,383. PUBLISHED JANUARY 24, 1928. Class 22.

240,734. BROOMS. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed December 1, 1927. Serial No. 258,298. PUBLISHED JANUARY 17, 1928. Class 29.

240,735. MALT SYRUP. LUCIDO BROS. GROCERY CO. INC., Granity City, Ill.
Filed November 26, 1927. Serial No. 258,087. PUBLISHED JANUARY 24, 1928. Class 46.

240,736. HOP-FLAVORED MALT SYRUP. MORRIS KETTLEMAN, doing business as Lawrence Malt Products Co., Lawrence, Mass.
Filed November 25, 1927. Serial No. 258,081. PUBLISHED JANUARY 24, 1928. Class 46.

240,737. LAXATIVE CANDY. SHERWOOD PRODUCTS CO., INC., New York, N. Y.
Filed November 22, 1927. Serial No. 257,941. PUBLISHED JANUARY 24, 1928. Class 6.

240,738. CERTAIN NAMED PAINTS AND PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,670. PUBLISHED JANUARY 24, 1928. Class 16.

240,739. CERTAIN NAMED PAINTS AND PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,669. PUBLISHED JANUARY 24, 1928. Class 16.

240,740. CERTAIN NAMED PAINTS AND PAINT PRODUCTS. ELCO PAINT PRODUCTS, INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,668. PUBLISHED JANUARY 24, 1928. Class 16.

240,741. A POLISH FOR AUTOMOBILES, FURNITURE, AND THE LIKE. K. O. PRODUCTS CO., Minneapolis, Minn.
Filed November 11, 1927. Serial No. 257,419. PUBLISHED JANUARY 24, 1928. Class 16.

240,742. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed November 10, 1927. Serial No. 257,394. PUBLISHED JANUARY 24, 1928. Class 22.

240,743. GLYCERIN SUBSTITUTE. HARRY BENNETT, doing business as Glyco Products Co., New York, N. Y.
Filed November 9, 1927. Serial No. 257,272. PUBLISHED JANUARY 24, 1928. Class 6.

240,744. READY-MIXED PAINTS OF VARYING CONSISTENCIES. BORDEN & REMINGTON CO., Fall River, Mass.
Filed November 7, 1927. Serial No. 257,144. PUBLISHED JANUARY 24, 1928. Class 16.

240,745. LIQUID INSECTICIDE USED FOR DESTROYING BEDBUGS, ROACHES, ANTS, MOTHS, MOSQUITOES, FLIES, LICE, AND OTHER INSECTS AND THEIR EGGS. GREGORY POTARIS, doing business as Pan Ollo Chemical Co., New York, N. Y.
Filed November 3, 1927. Serial No. 257,029. PUBLISHED JANUARY 24, 1928. Class 6.

240,746. AFTER-SHAVING PREPARATIONS. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed October 31, 1927. Serial No. 256,849. PUBLISHED DECEMBER 27, 1927. Class 6.

240,747. LAXATIVE MINT. MAYBRIC COMPANY, Akron, Ohio.
Filed October 31, 1927. Serial No. 256,828. PUBLISHED JANUARY 24, 1928. Class 6.

240,748. HOG-CHOLERA PREPARATION. THE YOZOL COMPANY, St. Marys, Ohio.
Filed October 29, 1927. Serial No. 256,802. PUBLISHED JANUARY 24, 1928. Class 6.

240,749. COMPOSITION TO PREVENT RUNS IN SILK OR CHIFFON HOSIERY AND LINGERIE. FRANK B. KARSTROOM, doing business as F. J. Bernard Company, San Francisco, Calif.
Filed October 29, 1927. Serial No. 256,781. PUBLISHED JANUARY 24, 1928. Class 6.

240,750. PAINTBRUSHES. T. S. SIMMS & CO., LTD., St. John, New Brunswick, and Fairville, St. John, New Brunswick, Canada.
Filed October 24, 1927. Serial No. 256,547. PUBLISHED JANUARY 24, 1928. Class 29.

240,751. WORK CLOTHING—NAMELY, WORK SHIRTS, JUMPERS, AND OVERALLS. NORTHERN JOBBING COMPANY, Chicago, Ill.
Filed October 5, 1927. Serial No. 255,675. PUBLISHED JANUARY 17, 1928. Class 39.

240,752. BEVERAGE MADE FROM MALT AND HOPS, WHICH BEVERAGE CONTAINS LESS THAN 0.5% OF ALCOHOL BY VOLUME. BURKHARDT CORPORATION, Prentiss, Boston, Mass.
Filed September 26, 1927. Serial No. 255,227. PUBLISHED JANUARY 17, 1928. Class 48.

240,753. CANDIED CITRON, SHREDDED AND/OR DESICCATED COCOANUT, DRIED CURRANTS, RAISINS, TAPIOCA, DRIED DATES, DATE NUT BUTTER, DRIED AND CANNED FIGS, CANNED GRAPEFRUIT, CANDIED GRAPEFRUIT PEEL, CANDIED LEMON PEEL, CANDIED ORANGE PEEL, AND CANNED PIMIENTOS. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed August 31, 1927. Serial No. 254,181. PUBLISHED JANUARY 24, 1928. Class 46.

240,754. GELATIN DESSERT POWDER. JELLS-MOR PRODUCTS COMPANY, Minneapolis, Minn.
Filed August 29, 1927. Serial No. 254,108. PUBLISHED JANUARY 24, 1928. Class 46.

240,755. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. MAX ROSNICK INC., Philadelphia, Pa.
Filed August 18, 1927. Serial No. 253,664. PUBLISHED OCTOBER 11, 1927. Class 39.

240,756. JUNIORS' COATS. THE KELLER-KOHN COMPANY, Cleveland, Ohio.
Filed June 15, 1927. Serial No. 250,552. PUBLISHED JANUARY 3, 1928. Class 39.

240,757. TOILET PREPARATIONS—NAMELY, SKIN LOTIONS, FACIAL CREAMS, BAY RUM, PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, BATH SALTS, AND WITCH-HAZEL COMPOUND. WESTERN PRODUCTS CO., Chicago, Ill.
Filed June 3, 1927. Serial No. 250,005. PUBLISHED JANUARY 24, 1928. Class 6.

240,758. FRESH DECIDUOUS FRUITS AND FRESH GRAPES. VACAVILLE FRUIT GROWERS ASSOCIATION, Vacaville, Calif.
Filed May 25, 1927. Serial No. 249,557. PUBLISHED JANUARY 24, 1928. Class 46.

240,759. LESSONS, INSTRUCTION SHEETS, AND PRINTED LECTURES. CHICAGO MOTOR TRAINING CORPORATION, Chicago, Ill.
Filed May 7, 1927. Serial No. 248,619. PUBLISHED JANUARY 3, 1928. Class 38.

240,760. CANNED MEAT WITH CHILI POWDER—NAMELY, CHILI CON CARNE; SAUCES—NAMELY, CHILI SAUCE; TAMALES; CANNED ENCHILADAS COMPRISING A MIXTURE OF MEAT, CHILI POWDER, CORN MEAL, ONIONS, AND CONDIMENTS; CHILI POWDER, AND MAZA, COMPRISING BAKED CORN-MEAL DOUGH. WILLIAM V. MARTINEZ, doing business as El Cholo Food Products, Los Angeles, Calif.
Filed May 6, 1927. Serial No. 248,582. PUBLISHED JANUARY 24, 1928. Class 46.

240,761. TOY VEHICLES. RED ARROW MANUFACTURING CORPORATION, Seattle, Wash.
Filed March 21, 1927. Serial No. 246,122. PUBLISHED JANUARY 24, 1928. Class 22.

240,762. UNIMPREGNATED DUST CLOTHS. SIDNEY Z. HERZFELD, doing business as The Polly Cloth Co., Anniston, Ala.
Filed March 17, 1927. Serial No. 245,909. PUBLISHED JANUARY 17, 1928. Class 29.

240,763. COAL. CAMPBELL COAL COMPANY, Atlanta, Ga.
Filed February 18, 1927. Serial No. 244,541. PUBLISHED JANUARY 3, 1928. Class 1.

240,764. SWEETENED CONDENSED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed February 10, 1927. Serial No. 244,126. PUBLISHED JANUARY 24, 1928. Class 46.

240,765. OINTMENT FOR COLDS, COUGHS, CROUP, SORE THROAT, INFLUENZA, PNEUMONIA, PLEURISY, BRONCHITIS, TONSILITIS, ASTHMA, RHEUMATISM, SPRAINS, BRUISES, HEADACHES, NEURALGIA, BURNS, BITES, CHILBLAINS, AND ACHING FEET. FRANCIS M. STIPE, doing business as Stipe Chemical Co., Newton, Kans.
Filed February 1, 1927. Serial No. 243,071. PUBLISHED MARCH 29, 1927. Class 6.

240,766. OLIVE OIL. JOSEPH VICTORI & CO., INC., New York, N. Y.
Filed January 27, 1927. Serial No. 243,465. PUBLISHED JANUARY 24, 1928. Class 46.

240,767. SHOES MADE OF LEATHER. THE FLORSHEIM SHOE COMPANY, Chicago, Ill.
Filed December 16, 1926. Serial No. 241,568. PUBLISHED APRIL 19, 1927. Class 39.

240,768. MEN'S KNITTED UNDERWEAR. THE ATLAS UNDERWEAR CO., Piqua, Ohio.
Filed November 10, 1926. Serial No. 239,874. PUBLISHED FEBRUARY 15, 1927. Class 39.

240,769. BREAKFAST FOOD. BOWERSOCK MILLS & POWER CO., doing business as The Jenny Wren Company, Lawrence, Kans.
Filed October 11, 1926. Serial No. 238,425. PUBLISHED NOVEMBER 16, 1926. Class 46.

240,770. TABLETS COMPOSED OF INORGANIC SUBSTANCES MIXED WITH SUGAR OF MILK FOR FOOD PURPOSES ONLY. J. GUY MUNBELL, Lincoln, Nebr.
Filed September 4, 1926. Serial No. 236,886. PUBLISHED JANUARY 24, 1928. Class 46.

240,771. CERTAIN NAMED PAINT PRODUCTS. SUNFLOWER AUTO PAINT & POLISH COMPANY, Los Angeles, Calif.
Filed July 26, 1926. Serial No. 235,179. PUBLISHED JANUARY 24, 1928. Class 16.

240,772. PREPARATION FOR KILLING MOTHS. LOUIS S. BERKOFF, doing business as The Mortemoth Co., Milwaukee, Wis.
Filed June 26, 1926. Serial No. 233,758. PUBLISHED JANUARY 24, 1928. Class 6.

240,773. CANNED MEATS, BOUILLON CUBES, CANNED SEA FOODS, ETC. GRIGGS, COOPER & COMPANY, St. Paul, Minn.
Filed May 19, 1926. Serial No. 231,861. PUBLISHED JANUARY 24, 1928. Class 46.

240,774. AUTOMOBILES AND CONSTRUCTIVE PARTS THEREOF AND AEROPLANES AND CONSTRUCTIVE PARTS THEREOF. SOCIÉTÉ ANONYME DES USINES RENAULT, Billancourt, France.
Filed November 6, 1925. Serial No. 222,961. PUBLISHED AUGUST 9, 1927. Class 19.

240,775. SELF-RISING FLOUR. HUGH B. SPROUL, doing business as Swoope Milling Company, Swoope, Va.
Filed October 8, 1925. Serial No. 221,460. PUBLISHED JANUARY 24, 1928. Class 46.

240,776. BINDERS FOR LOOSE LEAF INDEX SHEETS AND INDEX SHEETS FOR USE THEREIN. IRVING-PITT MANUFACTURING COMPANY, Kansas City, Mo.
Filed July 3, 1925. Serial No. 216,837. PUBLISHED OCTOBER 13, 1925. Class 37.

240,777. BREAKFAST FOODS. WHOLE O'WHEAT COMPANY, Seattle, Wash.
Filed December 24, 1924. Serial No. 207,215. PUBLISHED APRIL 6, 1926. Class 46.

240,778. SILK PIECE GOODS. UNION SILK MILLS, INC., New York, N. Y.
Filed December 19, 1927. Serial No. 259,148. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,779. LINEN CANVAS. CUMNER-JONES COMPANY, Boston, Mass.
Filed December 24, 1927. Serial No. 259,324. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,780. COTTON PILLOWCASES, COTTON SHEETS, AND COTTON HANDKERCHIEFS. WARE SHOALS MANUFACTURING COMPANY, Ware Shoals, S. C.
Filed December 23, 1927. Serial No. 259,318. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,781. COTTON PILLOWCASES, COTTON SHEETS, AND COTTON HANDKERCHIEFS. WARE SHOALS MANUFACTURING COMPANY, Ware Shoals, S. C.
Filed December 23, 1927. Serial No. 259,312. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,782. CERTAIN WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed December 22, 1927. Serial No. 259,234. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,783. FIRECRACKERS. J. HALPERN, doing business as J. Halpern Company, Pittsburgh, Pa.
Filed December 20, 1927. Serial No. 259,169. PUBLISHED FEBRUARY 7, 1928. Class 9.

240,784. GLASSWARE OF ALL KINDS. FRED C. REIMER COMPANY, INC., New York, N. Y.
Filed December 19, 1927. Serial No. 259,133. PUBLISHED FEBRUARY 7, 1928. Class 33.

240,785. COTTON PIECE GOODS. MAX KAUFMANN & CO. INC., New York, N. Y.
Filed December 19, 1927. Serial No. 259,117. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,786. CHOCOLATE CANDY. BUSY BEE CANDY CO., St. Louis, Mo.
Filed December 19, 1927. Serial No. 259,102. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,787. A SALVE FOR THE TREATMENT OF ECZEMA AND ALL SKIN IRRITATIONS. CHRISTINE ANDERSEN, doing business as C. Andersen and Elliot Products, Los Angeles, Calif.
Filed December 19, 1927. Serial No. 259,094. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,788. ANTISEPTIC AND GERMICIDAL. ACME CHEMICAL COMPANY, Milwaukee, Wis.
Filed December 19, 1927. Serial No. 259,092. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,789. FRESH CITRUS FRUITS. W. J. HOWEY CO., Howey, Fla.
Filed December 17, 1927. Serial No. 259,061. PUBLISHED JANUARY 31, 1928. Class 46.

240,790. LOCKS AND LATCHES. SEGAL LOCK & HARDWARE CO., INC., New York, N. Y.
Filed December 16, 1927. Serial No. 259,023. PUBLISHED FEBRUARY 7, 1928. Class 25.

240,791. LOCKS AND LATCHES. SEGAL LOCK & HARDWARE CO., INC., New York, N. Y.
Filed December 16, 1927. Serial No. 259,021. PUBLISHED FEBRUARY 7, 1928. Class 25.

240,792. LOCKS AND LATCHES. SEGAL LOCK & HARDWARE CO., INC., New York, N. Y.
Filed December 16, 1927. Serial No. 259,020. PUBLISHED FEBRUARY 7, 1928. Class 25.

240,793. METALLIC RECEPTACLES, ETC. METAL PACKAGE CORPORATION OF NEW YORK, New York, N. Y.
Filed December 16, 1927. Serial No. 259,010. PUBLISHED FEBRUARY 7, 1928. Class 2.

240,794. POCKET FRICTION CIGAR LIGHTERS. M. E. BERNHARDT COMPANY INC., New York, N. Y.
Filed December 16, 1927. Serial No. 258,991. PUBLISHED FEBRUARY 7, 1928. Class 34.

240,795. GENERAL TONIC. HEINTZ, MERKLE & CO. INC., Philadelphia, Pa.
Filed December 14, 1927. Serial No. 258,909. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,796. PREPARATION FOR USE IN STERILIZING GLASSWARE, CHINAWARE, SPOONS, AND THE LIKE. GOODWIN LABORATORIES, INCORPORATED, Louisville, Ky.
Filed December 14, 1927. Serial No. 258,906. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,797. CHOCOLATE AND BONBONS. J. WILBUR WARNER, doing business as Home Chocolate Shop, Frederick, Md.
Filed December 13, 1927. Serial No. 258,892. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,798. SILK PIECE GOODS. STEWART SILK COMPANY, INC., New York, N. Y.
Filed December 13, 1927. Serial No. 258,887. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,799. VERMIFUGES. THE SYDNEY ROSS CO., Newark, N. J.
Filed December 12, 1927. Serial No. 258,848. PUBLISHED JANUARY 31, 1928. Class 6.

240,800. A DRAWING AND HEALING SALVE FOR SORES, BOILS, CARBUNCLES, FELONS, GATHERINGS, AND INFECTIONS OF ALL KINDS; ALSO IS EFFECTIVE IN CASES OF BLOOD POISONING. ELIZABETH GRIFFITH, doing business as Mrs. Edw. A. Griffith, Covington, Ky.
Filed December 9, 1927. Serial No. 258,686. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,801. PILLOWCASES AND SHEETING. SPARROW, CHISHOLM CO., Boston, Mass.
Filed December 8, 1927. Serial No. 258,658. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,802. INSECTICIDES AND FUNGICIDES. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed December 8, 1927. Serial No. 258,657. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,803. AN ANTISEPTIC FOR DOUCHE PURPOSES. P. V. CHEMICAL CO., Seattle, Wash.
Filed December 8, 1927. Serial No. 258,648. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,804. YARNS. NEW ENGLAND SPUN SILK CORPORATION, Brighton, Boston, and Newton Upper Falls, Mass., and New York, N. Y.
Filed December 8, 1927. Serial No. 258,646. PUBLISHED FEBRUARY 7, 1928. Class 43.

240,805. HONEY, NUTS IN THEIR NATURAL STATE. DRIED FRUITS, AND FRESH FRUITS. LEUTZINGER & LANE, San Francisco, Calif.
Filed December 8, 1927. Serial No. 258,638. PUBLISHED JANUARY 31, 1928. Class 46.

240,806. A NEWSPAPER SECTION. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed December 7, 1927. Serial No. 258,580. PUBLISHED FEBRUARY 7, 1928. Class 38.

240,807. GLASS GLOBES AND REFLECTORS. HOLOPHANE COMPANY, INC., New York, N. Y.
Filed December 7, 1927. Serial No. 258,577. PUBLISHED FEBRUARY 7, 1928. Class 33.

240,808. GLASS GLOBES AND REFLECTORS. HOLOPHANE COMPANY, INC., New York, N. Y.
Filed December 7, 1927. Serial No. 258,576. PUBLISHED FEBRUARY 7, 1928. Class 33.

240,809. LIQUID CHEMICAL FOR THE CONTROL OF ACID PICKLE BATHS FOR METALS. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa.
Filed December 7, 1927. Serial No. 258,562. PUBLISHED JANUARY 31, 1928. Class 6.

240,810. PERFUME. BULLOCK'S, INC., Los Angeles, Calif.
Filed December 6, 1927. Serial No. 258,548. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,811. A BURLAP COVERING FOR BALES OF BURLAP BAGS. RICHARD C. HYLAND, doing business as Hyland Bag Company, San Francisco, Calif.
Filed December 6, 1927. Serial No. 258,525. PUBLISHED JANUARY 31, 1928. Class 42.

240,812. PREPARATION FOR THE TREATMENT OF SKIN DISEASES. J. E. WILKINSON, Jr., doing business as Q--Zema Chemical Company, Prattville, Ala.
Filed December 5, 1927. Serial No. 258,510. PUBLISHED JANUARY 31, 1928. Class 6.

240,813. MEDICINAL PREPARATION SPECIFICALLY INDICATED FOR JAUNDICE AND LIVER COMPLAINTS. JULIUS MINCARELLI, Norristown, Pa.
Filed December 5, 1927. Serial No. 258,478. PUBLSHED JANUARY 31, 1928. Class 6.

240,814. RUGS OF TEXTILE FABRIC. HILLSIDE COTTON MILLS, doing business as Valley Mills, Lagrange, Ga.
Filed December 5, 1927. Serial No. 258,467. PUBLISHED JANUARY 31, 1928. Class 42.

240,815. MIXED FERTILIZERS. THE CUDAHY PACKING COMPANY, Chicago, Ill.
Filed December 5, 1927. Serial No. 258,461. PUBLISHED JANUARY 31, 1928. Class 10.

240,816. TRADE JOURNAL PUBLISHED PERIODICALLY. KRIECHBAUM PUBLISHING COMPANY, St. Louis, Mo.
Filed December 3, 1927. Serial No. 258,415. PUBLISHED JANUARY 24, 1928. Class 38.

240,817. POULTRY TONIC. WM. S. SWANK, doing business as Wiley Poultry Products Co., Seattle, Wash.
Filed December 2, 1927. Serial No. 258,364. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,818. COMPOUND FOR STOPPING LEAKS IN RADIATORS. FRED SWAIN, doing business as Standard Auto Products Company, Ohio, Ill.
Filed December 2, 1927. Serial No. 258,362. PUBLISHED JANUARY 31, 1928. Class 6.

240,819. MALT SYRUP. MEYER SELIGMAN, doing business as The Beverly Malt Co., Beverly, Mass.
Filed December 2, 1927. Serial No. 258,357. PUBLISHED JANUARY 31, 1928. Class 46.

240,820. SALT. THE OHIO SALT COMPANY, Wadsworth, Ohio.
Filed December 2, 1927. Serial No. 258,351. PUBLISHED JANUARY 31, 1928. Class 6.

240,821. MEDICINES FOR TREATING THE EARLY STAGES OF SEXUAL DISEASES, FOR TREATING ASTHMA, FOR TREATING EXCESSIVE HEMORRHAGES OF THE REPRODUCTIVE ORGANS OF WOMEN, AND FOR TREATING RHEUMATISM. PETER L. MAVRELIS, doing business as The Mavreline Company, Waterloo, Iowa.
Filed December 2, 1927. Serial No. 258,341. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,822. MEDICINES FOR TREATING CHRONIC STAGES OF SEXUAL DISEASES, FOR TREATING ASTHMA, AND FOR TREATING AILMENTS OF THE REPRODUCTIVE ORGANS OF WOMEN. PETER L. MAVRELIS, doing business as The Mavreline Company, Waterloo, Iowa.
Filed December 2, 1927. Serial No. 258,340. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,823. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed November 22, 1927. Serial No. 257,948. PUBLISHED JANUARY 31, 1928. Class 10.

240,824. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed November 22, 1927. Serial No. 257,942. PUBLISHED JANUARY 31, 1928. Class 10.

240,825. REFRIGERATING DEVICE CONSISTING OF A CLOSED CONTAINER WITHIN WHICH IS A CONGEALABLE SUBSTANCE WHICH AFTER THE CONGEALABLE SUBSTANCE HAS BEEN FROZEN IS USED FOR CHILLING PURPOSES. WILLIAM SHIELD GLENNAN, Lochhaven, Norfolk, Va.
Filed November 22, 1927. Serial No. 257,924. PUBLISHED JANUARY 31, 1928. Class 31.

240,826. SALVES AND OINTMENTS FOR THE TREATMENT OF EXTERNAL INJURIES, BURNS, SORES, INFLAMMATORY SKIN DISEASES, AND ALL IRRITATED SURFACES, FISSURES, EXTERNAL PILES, AND HEMORRHOIDS. COMMERCE DRUG CO., INC., Brooklyn, N. Y.
Filed November 22, 1927. Serial No. 257,920. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,827. AMMUNITION—NAMELY, SHOTGUN SHELLS. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill.
Filed November 21, 1927. Serial No. 257,887. PUBLISHED FEBRUARY 7, 1928. Class 9.

240,828. DRESSED POULTRY, EGGS. INDEPENDENCE PRODUCE COMPANY, Independence, Iowa.
Filed November 21, 1927. Serial No. 257,872. PUBLISHED JANUARY 31, 1928. Class 46.

240,829. VINEGARS, PICKLES, SAUERKRAUT IN BULK, PICCALILLI, PRESERVED OLIVES, EDIBLE VEGETABLE OILS—NAMELY, COTTONSEED AND OLIVE OILS; HORSE-RADISH, PICKLED ONIONS, CHOWCHOW, PICKLED BEETS, AND SAUERKRAUT JUICE. C. F. CLAUSSEN & SONS, INC., Chicago, Ill.
Filed November 21, 1927. Serial No. 257,857. PUBLISHED JANUARY 31, 1928. Class 46.

240,830. SHIPPING CASES FOR ICE CREAM CONTAINERS. SCOTT-KIDWELL JACKET COMPANY, Madison, Ind.
Filed November 19, 1927. Serial No. 257,816. PUBLISHED FEBRUARY 7, 1928. Class 2.

240,831. SALVE FOR USE IN THE TREATMENT OF CUTS, BURNS, BOILS, BRUISES, CARBUNCLES, PILES, TETTER, CATARRH, ERYSIPELAS, CHAPPED HANDS AND LIPS. NATIONAL OINTMENT COMPANY, Rex, Ga.
Filed November 18, 1927. Serial No. 257,760. PUBLISHED JANUARY 31, 1928. Class 6.

240,832. DESICCATED AMYLOLYTIC FERMENT. GEOFFREY PEPLOW, doing business as The Peplow Company, Pasadena, Calif.
Filed November 17, 1927. Serial No. 257,701. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,833. POWDERED SOAP. THE INSTO COMPANY, Los Angeles, Calif.
Filed November 17, 1927. Serial No. 257,679. PUBLISHED JANUARY 17, 1928. Class 4.

240,834. SULPHITE WRAPPING PAPER, MANILA WRAPPING PAPER, AND BUTCHER MANILA WRAPPING PAPER. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed November 16, 1927. Serial No. 257,619. PUBLISHED FEBRUARY 7, 1928. Class 37.

240,835. A PERIODICAL PUBLICATION. THE KNOCK-OUT PUBLISHING COMPANY, Los Angeles, Calif.
Filed November 14, 1927. Serial No. 257,555. PUBLISHED FEBRUARY 7, 1928. Class 38.

240,836. TRAVELING BAGS AND SUITCASES. LYONS & KENNELLY CO. INC., Chicago, Ill.
Filed November 17, 1927. Serial No. 257,687. PUBLISHED JANUARY 31, 1928. Class 3.

240,837. WATERPROOFED SHOWER CURTAINS FOR SHOWER BATHS. J. W. JOHNSON COMPANY, Chicago, Ill.
Filed November 17, 1927. Serial No. 257,682. PUBLISHED JANUARY 31, 1928. Class 13.

240,838. WATERPROOFED SHOWER CURTAINS FOR SHOWER BATHS. J. W. JOHNSON COMPANY, Chicago, Ill.
Filed November 17, 1927. Serial No. 257,681. PUBLISHED JANUARY 31, 1928. Class 13.

240,839. WATERPROOFED SHOWER CURTAINS FOR SHOWER BATHS. J. W. JOHNSON COMPANY, Chicago, Ill.
Filed November 17, 1927. Serial No. 257,680. PUBLISHED JANUARY 31, 1928. Class 13.

240,840. COTTON PIECE GOODS. ARTHUR BEIR & CO., INC., New York, N. Y.
Filed November 17, 1927. Serial No. 257,653. PUBLISHED JANUARY 31, 1928. Class 42.

240,841. DETERGENT COMPOSITION RESEMBLING SOAP. H AND H CLEANER COMPANY, Des Moines, Iowa.
Filed November 16, 1927. Serial No. 257,625. PUBLISHED JANUARY 31, 1928. Class 4.

240,842. EGGS AND CHEESE. CORBIN & WIEBMER, Binghamton, N. Y.
Filed November 12, 1927. Serial No. 257,504. PUBLISHED JANUARY 31, 1928. Class 46.

240,843. TOILET-SEAT COVERS. GEORGE E. MANTOR, San Francisco, Calif.
Filed August 20, 1927. Serial No. 253,762. PUBLISHED FEBRUARY 7, 1928. Class 37.

240,844. A PREPARATION IN LIQUID FORM FOR CLEANING GLASS, MARBLE, VITROLITE, GLASS SUBSTITUTES, AND WOODWORK. GOLD DUST CORPORATION, Jersey City, N. J.
Filed August 25, 1927. Serial No. 253,940. PUBLISHED FEBRUARY 7, 1928. Class 4.

240,845. PICTURES—NAMELY, PHOTOGRAPHS AND PRINTS. ARTHUR G. HELLER, New York, N. Y.
Filed August 27, 1927. Serial No. 254,037. PUBLISHED JANUARY 31, 1928. Class 38.

240,846. NUTS, CANDIED, SALTED, AND IN THEIR NATURAL STATE. RUDOLPH C. JUSTH, doing business as Best-O-Best Products Co., Chicago, Ill.
Filed September 1, 1927. Serial No. 254,241. PUBLISHED JANUARY 31, 1928. Class 46.

240,847. HAND TRUCKS, WHEELBARROWS; HAND TRUCKS FOR ASH CANS, BARRELS, TRUNKS, AND BOXES; COMBINATION HAND TRUCKS AND REELS, AND COMBINATION HAND TRUCKS AND CARRIERS. CASEY FOSTER COMPANY, Boston, Mass.
Filed September 3, 1927. Serial No. 254,348. PUBLISHED FEBRUARY 7, 1928. Class 19.

240,848. FORGED METAL CHAINS. REID, LEAHY, AND LUTTS, Worcester, Mass.
Filed September 13, 1927. Serial No. 254,683. PUBLISHED FEBRUARY 7, 1928. Class 13.

240,849. NONFERROUS METAL PIPE, PIPE FITTINGS, BOLTS, NUTS, SCREWS, NOZZLES, BALL SEATS, GLANDS, WASHERS, PINS, RIVETS, RINGS, STUDS, JETS, SPINDLES, COLLARS, VALVES, AND VALVE PARTS. MUELLER BRASS CO., Port Huron, Mich.
Filed September 21, 1927. Serial No. 255,020. PUBLISHED JANUARY 31, 1928. Class 13.

240,850. PERFUMERY. JAMES LOUIS DEMOVILLE, New York, N. Y.
Filed September 22, 1927. Serial No. 255,056. PUBLISHED JANUARY 31, 1928. Class 6.

240,851. TRANSPARENT ADHESIVE TAPE. THE PACKAGE BINDER COMPANY, Pittsburgh, Pa.
Filed September 23, 1927. Serial No. 255,127. PUBLISHED JANUARY 31, 1928. Class 5.

240,852. FABRICS—NAMELY, COTTON, WOOL, AND SILK PIECE AND COTTON YARD GOODS AND WOOL BLANKETS. HUGH A. MARTI COMPANY, Long Beach, Calif.
Filed September 24, 1927. Serial No. 255,185. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,853. FRESH GRAPES, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES, CANNED FRUITS, CANNED VEGETABLES. BENTON BALLOU, Ontario, Calif.
Filed October 5, 1927. Serial No. 255,628. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,854. FRESH DECIDUOUS FRUITS—NAMELY, FRESH GRAPES. E. H. RIDENOUR, doing business as Ridenour Vineyard, Stockton and Dougherty, Calif.
Filed October 5, 1927. Serial No. 255,680. PUBLISHED JANUARY 31, 1928. Class 46.

240,855. FRESH CITRUS FRUITS, FRESH VEGETABLES, AND FRESH MELONS. MCFADDEN BROS. & MYERS, Las Animas, Colo.
Filed October 5, 1927. Serial No. 255,663. PUBLISHED JANUARY 31, 1928. Class 46.

240,856. THEATRICAL MAKE-UP PREPARATIONS. MAX FACTOR, doing business as Max Factor & Co., Los Angeles, Calif.
Filed October 5, 1927. Serial No. 255,648. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,857. AUTOMATIC WINDSHIELD WIPERS. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed October 5, 1927. Serial No. 255,685. PUBLISHED JANUARY 31, 1928. Class 19.

240,858. CREAM OF TARTAR, OXALIC ACID, ETC. WILLIAM A. GREENBERG, doing business as Excello Drug & Import Co. Not Inc., Chicago, Ill.
Filed October 10, 1927. Serial No. 255,847. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,859. LEATHER RESTORATIVE, LEATHER CLEANER, LEATHER FILLER, LEATHER FINISHER, A PREPARATION IN LIQUID AND/OR COMBINED FORMS. SABATH G. LIZZADRO, doing business as Lizzadro Retan Chemical Company, Chicago, Ill.
Filed October 15, 1927. Serial No. 256,127. PUBLISHED JANUARY 31, 1928. Class 4.

240,860. EMPTY PASTRY CONTAINER ADAPTED FOR HOLDING FROZEN CONFECTION SUCH AS ICE CREAM, SHERBET, FROZEN FRUIT, AND THE LIKE. VICTOR W. STERN, Los Angeles, Calif.
Filed October 24, 1927. Serial No. 256,548. PUBLISHED JANUARY 31, 1928. Class 46.

240,861. CANDY-COATED CHEWING GUM. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed October 26, 1927. Serial No. 256,617. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,862. CHEWING GUM. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed October 26, 1927. Serial No. 256,620. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,863. CANNED CHILI CON CARNE. F. L. WHITE, doing business as Champion Chili Company, Dallas, Tex.
Filed October 31, 1927. Serial No. 256,847. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,864. FRESH CITRUS FRUITS. CHASE & CO., Orlando, Fla.
Filed November 2, 1927. Serial No. 256,908. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,865. FRESH CITRUS FRUITS. CHASE & CO., Orlando, Fla.
Filed November 2, 1927. Serial No. 256,909. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,866. FRESH CITRUS FRUITS. CHASE & CO., Orlando, Fla.
Filed November 2, 1927. Serial No. 256,910. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,867. FRESH CITRUS FRUITS. CHASE & CO., Orlando, Fla.
Filed November 2, 1927. Serial No. 256,911. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,868. FRESH CITRUS FRUITS. CHASE & CO., Orlando, Fla.
Filed November 2, 1927. Serial No. 256,912. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,869. FRESH CITRUS FRUITS. CHASE & CO., Orlando, Fla.
Filed November 2, 1927. Serial No. 256,913. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,870. FRESH CITRUS FRUITS. MAMMOTH GROVE, INC., Lake Wales, Fla.
Filed November 2, 1927. Serial No. 256,955. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,871. METAL TUBES FOR USE AS BOILER TUBES IN LOCOMOTIVES, ETC., AS TUBING DRILL PIPE AND CASING FOR OIL WELLS, AND AS MECHANICAL TUBING FOR AUTOMOBILE CHASSIS. PITTSBURGH STEEL PRODUCTS COMPANY, Pittsburgh, Pa.
Filed November 3, 1927. Serial No. 257,025. PUBLISHED JANUARY 31, 1928. Class 13.

240,872. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed November 7, 1927. Serial No. 257,142. PUBLISHED JANUARY 31, 1928. Class 42.

240,873. POULTRY TONIC. JOHN W. MURDOCK, doing business as Murdock's Poultry Supply and Remedy Co., Dinuba, Calif.
Filed November 7, 1927. Serial No. 257,185. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,874. PUDDING POWDER. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed November 9, 1927. Serial No. 257,279. PUBLISHED JANUARY 31, 1928. Class 46.

240,875. CANNED SOAP FOR CLEANING HANDS, HOUSEHOLD ARTICLES, AND FOR GENERAL CLEANING PURPOSES. ROY H. SCHWARTZ, doing business as The Rainbow Soap Products Company, Cleveland, Ohio.
Filed November 9, 1927. Serial No. 257,317. PUBLISHED JANUARY 31, 1928. Class 4.

240,876. WRITING PAPER, ENVELOPES, AND BLANK POST CARDS. UNIVERSAL ART CRAFTS, INCORPORATED, Reno, Nev.
Filed November 9, 1927. Serial No. 257,325. PUBLISHED FEBRUARY 7, 1928. Class 37.

240,877. MALT SYRUP. THE STROH PRODUCTS COMPANY, Detroit, Mich.
Filed November 11, 1927. Serial No. 257,451. PUBLISHED JANUARY 31, 1928. Class 46.

240,878. SODA AND BAKING POWDER. JONES-THIERBACH CO., San Francisco, Calif.
Filed November 12, 1927. Serial No. 257,478. PUBLISHED JANUARY 31, 1928. Class 6.

240,879. WRITING AND OTHER PAPER—TO WIT, MACHINE-FINISH, ENGLISH-FINISH, SIZED AND SUPERCALENDERED, ANTIQUE-FINISH, COVER, TEXT, OFFSET, BOND, LEDGER, BIBLE, AND BRISTOL PAPERS. TILESTON & HOLLINGSWORTH COMPANY, Boston, Mass.
Filed November 12, 1927. Serial No. 257,490. PUBLISHED JANUARY 31, 1928. Class 37.

240,880. FERTILIZERS. VIRGINIA-CAROLINA CHEMICAL CORPORATION, Richmond, Va.
Filed November 12, 1927. Serial No. 257,491. PUBLISHED FEBRUARY 7, 1928. Class 10.

240,881. FERTILIZERS. VIRGINIA-CAROLINA CHEMICAL CORPORATION, Richmond, Va.
Filed November 12, 1927. Serial No. 257,492. PUBLISHED FEBRUARY 7, 1928. Class 10.

240,882. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed November 22, 1927. Serial No. 257,944. PUBLISHED JANUARY 31, 1928. Class 10.

240,883. FERTILIZER. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y.
Filed November 22, 1927. Serial No. 257,945. PUBLISHED JANUARY 31, 1928. Class 10.

240,884. ANTISEPTICS. FRANK S. DILGER, doing business as Saylene Company, Yankton, S. Dak.
Filed November 23, 1927. Serial No. 257,970. PUBLISHED JANUARY 31, 1928. Class 6.

240,885. CARBON BLACK FOR GENERAL USE. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa.
Filed November 23, 1927. Serial No. 257,995. PUBLISHED JANUARY 31, 1928. Class 6.

240,886. WRITING INK. L. E. WATERMAN COMPANY, New York, N. Y.
Filed November 28, 1927. Serial No. 258,153. PUBLISHED JANUARY 31, 1928. Class 11.

240,887. WRITING INK. L. E. WATERMAN COMPANY, New York, N. Y.
Filed November 28, 1927. Serial No. 258,154. PUBLISHED JANUARY 31, 1928. Class 11.

240,888. MATCHES IN PACKAGE FORM. PAUL KOHLOFF, Mamaroneck, N. Y.
Filed November 26, 1927. Serial No. 258,084. PUBLISHED JANUARY 31, 1928. Class 9.

240,889. LAUNDRY STARCH, CHLORINATED LIME, AND LYE. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed December 1, 1927. Serial No. 258,296. PUBLISHED JANUARY 31, 1928. Class 6.

240,890. HOUSEHOLD AND INSTITUTION AND FACTORY CLEANERS. CARL IRVING ROBINSON, doing business as Hap Chemical Company, Pittsburgh, Pa.
Filed November 25, 1927. Serial No. 258,043. PUBLISHED JANUARY 31, 1928. Class 4.

240,891. CERTAIN NAMED PIECE GOODS. AKUND STUDIOS, INC., New York, N. Y.
Filed November 26, 1927. Serial No. 258,057. PUBLISHED JANUARY 31, 1928. Class 42.

240,892. CLEANER FOR ALUMINUM, SILVERWARE, WINDOWS, GLASSWARE, SINKS, PAINT, WOODWORK, MARBLE, TILING, AND FLOORS. THE ABSORENE MANUFACTURING COMPANY, St. Louis, Mo.
Filed November 25, 1927. Serial No. 258,011. PUBLISHED FEBRUARY 7, 1928. Class 4.

240,893. LAUNDRY SOAPS, TOILET SOAPS, SHAVING-CREAM SOAPS, SHAVING SOAPS, SHREDDED SOAPS, SOAP JELLY, SOAP POWDERS, SOAP FLAKES, METAL POLISHES, SILVER POLISHES, SHOE POLISHES, AND STOVE POLISHES. ALFRED H. SMITH CO., doing business as Kerkoff, New York, N. Y.
Filed November 30, 1927. Serial No. 258,240. PUBLISHED JANUARY 31, 1928. Class 4.

240,894. DRIED FRUITS. EMERY FOOD COMPANY, Chicago, Ill.
Filed December 1, 1927. Serial No. 258,254. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,895. CANNED ASPARAGUS AND DRIED FRUITS. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed December 1, 1927. Serial No. 258,269. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,896. CANNED SALMON AND DRIED FRUITS. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed December 1, 1927. Serial No. 258,270. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,897. CANNED, DRIED, AND PRESERVED FRUITS AND VEGETABLES AND CANNED SALMON. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed December 1, 1927. Serial No. 258,271. PUBLISHED FEBRUARY 7, 1928. Class 46.

240,898. TRUCK BODIES. THE HUGHES-KEENAN COMPANY, Mansfield, Ohio.
Filed November 29, 1927. Serial No. 258,183. PUBLISHED JANUARY 31, 1928. Class 19.

240,899. FERTILIZERS. VIRGINIA-CAROLINA CHEMICAL CORPORATION, Richmond, Va.
Filed November 29, 1927. Serial No. 258,202. PUBLISHED FEBRUARY 7, 1928. Class 10.

240,900. A WEEKLY PUBLICATION COMPOSED OF ADVERTISEMENTS OF MERCHANDISE AND PROFESSIONAL SERVICES. EMERSON PUBLISHING CO., INC., Burbank, Calif.
Filed November 30, 1927. Serial No. 258,214. PUBLISHED FEBRUARY 7, 1928. Class 38.

240,901. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. ALFRED H. SMITH CO., doing business as Kerkoff, New York, N. Y.
Filed November 30, 1927. Serial No. 258,239. PUBLISHED JANUARY 31, 1928. Class 6.

240,902. SUGAR-BAG CLOTH PIECE GOODS FOR COVERING BALES OF GINNED COTTON. MENTE & Co. INC., New Orleans, La.
Filed January 12, 1927. Serial No. 242,734. PUBLISHED JANUARY 31, 1928. Class 42.

240,903. GARMENT AND LAUNDRY PRESSING MACHINES. THE PROSPERITY COMPANY INC., Syracuse, N. Y.
Filed December 30, 1926. Serial No. 242,205. PUBLISHED JANUARY 31, 1928. Class 24.

240,904. FIG CONFECTIONS; NUTS, CANDIED, SALTED, AND IN THEIR NATURAL STATE; JELLIES, JAMS, FRUIT PRESERVES; RELISHES COMPOSED OF CHOPPED PICKLES, VEGETABLES, AND SPICES; CANNED FRUITS, CANNED VEGETABLES; BAKERY GOODS—NAMELY, BREAD, ROLLS, CAKES, DOUGHNUTS, COOKIES; AND SALAD DRESSING. WILLIAM PRENTISS Jr., Long Beach, Calif.
Filed May 22, 1925. Serial No. 214,747. PUBLISHED JANUARY 31, 1928. Class 46.

240,905. CANNED VEGETABLES, CANNED FRUITS, CANNED FISH, PRESERVED FRUITS, COFFEE, TEA, SPICES, TOMATO CATSUP, AND VINEGAR. RYLEY-WILSON GROCER CO., Kansas City, Mo.
Filed June 21, 1924. Serial No. 198,967. PUBLISHED OCTOBER 5, 1926. Class 46.

240,906. INSECTICIDE. JAMES W. SHEPHERD, doing business as Dead-Go Manufacturing Co., Auburndale, Fla.
Filed December 17, 1926. Serial No. 241,641. PUBLISHED JANUARY 31, 1928. Class 6.

240,907. MECHANICAL REFRIGERATING UNITS. UNIVERSAL COOLER CORPORATION, Detroit, Mich.
Filed September 23, 1926. Serial No. 237,635. PUBLISHED JANUARY 31, 1928. Class 31.

240,908. COMPLEXION POWDERS AND BATH POWDERS. TOKALON CHEMICAL CORPORATION, New York, N. Y.
Filed August 14, 1926. Serial No. 235,983. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,909. WOODEN RECEPTACLES—NAMELY, BOX SHOOKS, GUM VENEER SHOOKS, LOCK-CORNER BOXES, WIRE-BOUND BOX SHOOKS. THE RICHARDS SHOOK CORPORATION, INC., New York, N. Y.
Filed July 31, 1926. Serial No. 235,426. PUBLISHED FEBRUARY 7, 1928. Class 2.

240,910. WOOLEN JERSEY IN THE PIECE. CHOPAK TEXTILE CO. INC., New York, N. Y.
Filed July 21, 1926. Serial No. 234,821. PUBLISHED JANUARY 31, 1928. Class 42.

240,911. PERIODICALS ISSUED FROM TIME TO TIME AND CONTAINING RECIPES, MENUS, ETIQUETTE, AND ENTERTAINING. CANADA DRY GINGER ALE, INCORPORATED, New York, N. Y.
Filed June 1, 1926. Serial No. 232,548. PUBLISHED JANUARY 31, 1928. Class 38.

240,912. GASOLINE AND OIL TANK FILL BOXES, STRAINERS, AIR-VENTING DEVICES, AND COUPLINGS AND FINDINGS FOR THE INSTALLATION THEREOF, ALSO VALVES AND NOZZLES. HOLTSON MANUFACTURING CORPORATION, Baltimore, Md.
Filed January 16, 1926. Serial No. 226,002. PUBLISHED JANUARY 31, 1928. Class 13.

240,913. WRAPPING PAPER AND PAPER NAPKINS. ALGONQUIN PAPER COMPANY, Huntington Mills, Pa.
Filed December 24, 1925. Serial No. 225,100. PUBLISHED JANUARY 31, 1928. Class 37.

240,914. SUGAR-COATED ALMONDS. FREDERICK E. MOHR, Hendersonville, N. C.
Filed December 12, 1925. Serial No. 224,613. PUBLISHED JANUARY 31, 1928. Class 46.

240,915. PRINTED BLANK FORMS. GILMAN FANFOLD CORPORATION, LTD., Niagara Falls, N. Y.
Filed August 1, 1927. Serial No. 252,835. PUBLISHED JANUARY 24, 1928. Class 37.

240,916. ELECTRIC IRONING MACHINES USED FOR LAUNDRY PURPOSES. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,740. PUBLISHED JANUARY 31, 1928. Class 24.

240,917. ELECTRIC IRONING MACHINES USED FOR LAUNDRY PURPOSES. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,738. PUBLISHED JANUARY 31, 1928. Class 24.

240,918. ELECTRIC IRONING MACHINES USED FOR LAUNDRY PURPOSES. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,739. PUBLISHED JANUARY 31, 1928. Class 24.

240,919. TWISTED-WIRE CABLE. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,748. PUBLISHED JANUARY 31, 1928. Class 7.

240,920. TWISTED-WIRE CABLE. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,747. PUBLISHED JANUARY 31, 1928. Class 7.

240,921. TWISTED-WIRE CABLE. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,746. PUBLISHED JANUARY 31, 1928. Class 7.

240,922. SALAD DRESSING. MRS. W. K. STURROCK, Livingston, Calif.
Filed July 5, 1927. Serial No. 251,469. PUBLISHED JANUARY 31, 1928. Class 46.

240,923. MEDICINE FOR POULTRY. OSCAR P. LUSE, Los Angeles, Calif.
Filed June 27, 1927. Serial No. 251,193. PUBLISHED FEBRUARY 7, 1928. Class 6.

240,924. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed June 22, 1927. Serial No. 250,919. PUBLISHED JANUARY 31, 1928. Class 42.

240,925. SPEAKING TUBES. CALIFORNIA CAP COMPANY, Oakland, Calif.
Filed June 8, 1927. Serial No. 250,160. PUBLISHED JANUARY 31, 1928. Class 13.

240,926. OXYACETYLENE WELDING AND CUTTING TORCHES AND EQUIPMENT AND SOLDERING EQUIPMENT, PREHEATING AND GASOLENE TORCHES, RADIATOR TORCHES, ACETYLENE STOVES, BRAZING TORCHES, CARBON-BURNING TORCHES, LEAD-BURNING TORCHES, TORCH LIGHTERS, AND STATIONARY AND PORTABLE ACETYLENE GENERATORS. SMITH WELDING EQUIPMENT CORPORATION, Minneapolis, Minn.
Filed June 6, 1927. Serial No. 250,102. PUBLISHED JANUARY 31, 1928. Class 34.

240,927. VALVES, TANK CONNECTIONS, WATER SEALS, REGULATOR AND GENERATOR CLAMPS, HOSE CLAMPS, HOSE CONNECTIONS, REGULATOR AND CYLINDER MANIFOLDS, HOSE UNIONS, AIR, OXYGEN, ACETYLENE, HYDROGEN, AND OTHER GAS PRESSURE REGULATORS. SMITH WELDING EQUIPMENT CORPORATION, Minneapolis, Minn.
Filed June 6, 1927. Serial No. 250,101. PUBLISHED JANUARY 31, 1928. Class 13.

240,928. SOAP—NAMELY, HAND SOAP. HUBERT A. SPERRY, doing business as Sunny Jim Company, Los Angeles, Calif.
Filed May 20, 1927. Serial No. 249,302. PUBLISHED JANUARY 31, 1928. Class 4.

240,929. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed April 7, 1927. Serial No. 247,080. PUBLISHED JANUARY 31, 1928. Class 42.

240,930. HAIR NETS MADE OF HUMAN HAIR. SEIDNER & HITZIGRATH, INC., New York, N. Y.
Filed July 7, 1925. Serial No. 216,997. PUBLISHED JANUARY 31, 1928. Class 42.

240,931. GARDEN RAKES. THE CRONK & CARRIER MFG. CO., Montour Falls, N. Y.
Filed November 16, 1925. Serial No. 223,373. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,932. MECHANICAL PAINTING EQUIPMENT AND ACCESSORIES—NAMELY, SPRAY GUNS, ENGINES, COMPRESSORS, REGULATORS, AND CONNECTING ADAPTERS. W. N. MATTHEWS CORPORATION, St. Louis, Mo.
Filed April 9, 1927. Serial No. 247,195. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,933. OFFICE FURNITURE CONSISTING OF DESKS, CHAIRS, SETTEES, TABLES, FILE CABINETS, INDEX CABINETS, TYPEWRITER TABLES, TYPEWRITER DESKS, AND WOODEN DESK TRAYS. MCLEOD FURNITURE CO., Laurel, Miss.
Filed October 29, 1927. Serial No. 256,786. PUBLISHED FEBRUARY 7, 1928. Class 32.

240,934. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND EXTRACTS, CONCENTRATES, AND SYRUPS FOR MAKING THE SAME. NUGRAPE COMPANY OF AMERICA, Atlanta, Ga.
Filed October 24, 1927. Serial No. 256,535. PUBLISHED FEBRUARY 7, 1928. Class 45.

240,935. MACHINE OR APPARATUS MADE FOR THE PURPOSE OF RECLAIMING LUBRICATING OIL. THE HILLIARD CORPORATION, Elmira, N. Y.
Filed October 19, 1927. Serial No. 256,295. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,936. FRUIT SYRUP IN THE NATURE OF SOFT DRINKS OR IN THE NATURE OF INGREDIENTS FOR USE IN MAKING SOFT DRINKS. RICHARD FRANK, doing business as Richard Frank & Co., New York, N. Y.
Filed October 12, 1927. Serial No. 255,978. PUBLISHED JANUARY 31, 1928. Class 45.

240,937. CARBONATED BEVERAGES INCLUDING SARSAPARILLA, SODA WATERS OF ALL FLAVORS, ROOT BEER, AND BIRCH BEER. NEW YORK BOTTLING CO. INC., New York, N. Y.
Filed October 5, 1927. Serial No. 255,672. PUBLISHED FEBRUARY 7, 1928. Class 45.

240,938. CARBONATED BEVERAGES INCLUDING GINGER ALE, SODA WATERS OF ALL FLAVORS, ROOT BEER, AND BIRCH BEER. NEW YORK BOTTLING CO. INC., New York, N. Y.
Filed October 5, 1927. Serial No. 255,671. PUBLISHED FEBRUARY 7, 1928. Class 45.

240,939. WARNING SIGNALS OF THE TYPE EMBODYING A FORCIBLY-VIBRATED DIAPHRAGM. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed October 1, 1927. Serial No. 255,541. PUBLISHED JANUARY 31, 1928. Class 23.

240,940. HAT STRETCHING AND BLOCKING MACHINES AND HAT BLOCKS THEREFOR. GEORGE MARGOLIN, New York, N. Y., assignor to Electric Stretch-O-Block Co., Inc., New York, N. Y.
Filed September 2, 1927. Serial No. 254,332. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,941. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS—VIZ, GINGER ALE. THE ORANGE CRUSH BOTTLING CO., Spencer, N. C.
Filed August 29, 1927. Serial No. 254,092. PUBLISHED FEBRUARY 7, 1928. Class 45.

240,942. DRAG SCRAPERS, PLOWS, AND ROAD GRADERS. THE FIRMAN L. CARSWELL MFG. CO., Kansas City, Kans.
Filed August 20, 1927. Serial No. 253,737. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,943. PORTABLE AND STATIONARY GRAVEL-SCREENING MACHINES AND CONVEYORS. SIMPLICITY ENGINEERING COMPANY, Durand, Mich.
Filed July 21, 1927. Serial No. 252,400. PUBLISHED JANUARY 31, 1928. Class 23.

240,944. SOLDERING IRONS, LINEMEN'S TOOLS AND MATERIALS, ETC. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,744. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,945. AMMETERS, CURRENT METERS, VOLTAMMETERS, AND VOLTMETERS. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,732. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,946. AMMETERS, CURRENT METERS, VOLTAMMETERS, AND VOLTMETERS. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,731. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,947. AMMETERS, CURRENT METERS, VOLTAMMETERS, AND VOLTMETERS. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,730. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,948. SPEEDOMETERS. WILLIAM E. DRIVER, doing business as Philadelphia Speedometer Service Company, Philadelphia, Pa.
Filed June 20, 1927. Serial No. 250,793. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,949. METAL DRILLING MACHINES, METAL TAPPING MACHINES, AND COMBINED METAL DRILLING AND TAPPING MACHINES. THE NATIONAL AUTOMATIC TOOL COMPANY, Richmond, Ind.
Filed October 29, 1927. Serial No. 256,789. PUBLISHED JANUARY 17, 1928. Class 23.

240,950. SPEEDOMETERS. WILLIAM E. DRIVER, doing business as Philadelphia Speedometer Service Company, Philadelphia, Pa.
Filed June 20, 1927. Serial No. 250,702. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,951. LINEN PIECE GOODS AND TABLE AND BED LINENS. M. E. BLATT CO., Atlantic City, N. J.
Filed March 21, 1927. Serial No. 246,071. PUBLISHED FEBRUARY 7, 1928. Class 42.

240,952. ROUND-THREAD SHEETS AND PILLOWCASES. M. E. BLATT CO., Atlantic City, N. J.
Filed March 21, 1927. Serial No. 246,069. PUBLISHED JANUARY 31, 1928. Class 42.

240,953. CIGARETTES. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed December 10, 1927. Serial No. 258,750. PUBLISHED FEBRUARY 7, 1928. Class 17.

240,954. AUTOMOBILE AND FURNITURE UPHOLSTERY CONSTRUCTION MADE OF WIRE SPRINGS AND WIRE SPRINGS AND BURLAP, WIRE SPRINGS AND SHEETING AND PILLOW AND CUSHION SPRING CONSTRUCTION. NATIONAL SPRING & WIRE CO., Grand Rapids, Mich.
Filed December 10, 1927. Serial No. 258,763. PUBLISHED FEBRUARY 7, 1928. Class 32.

240,955. MEASURING PUMPS. THE NATIONAL RECORDING PUMP COMPANY, Dayton, Ohio.
Filed December 12, 1927. Serial No. 258,826. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,956. PLUG, TWIST, AND SMOKING TOBACCO. TAYLOR BROTHERS, INCORPORATED, Winston-Salem, N. C.
Filed December 15, 1927. Serial No. 258,966. PUBLISHED FEBRUARY 7, 1928. Class 17.

240,957. PNEUMATIC RUBBER TIRES, INCLUDING TIRE CASINGS AND INNER TUBES THEREFOR. CORDUROY TILE COMPANY, Grand Rapids, Mich.
Filed December 16, 1927. Serial No. 258,996. PUBLISHED FEBRUARY 7, 1928. Class 35.

240,958. MACHETES AND AXES. THE COLLINS COMPANY, Collinsville, Conn.
Filed December 21, 1927. Serial No. 259,200. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,959. PISTON RINGS. RAMSEY ACCESSORIES MANUFACTURING CORPORATION, St. Louis, Mo.
Filed December 17, 1927. Serial No. 259,074. PUBLISHED FEBRUARY 7, 1928. Class 35.

240,960. MOVING PICTURES. PARAMOUNT FAMOUS LASKY CORPORATION, New York, N. Y.
Filed December 17, 1927. Serial No. 259,070. PUBLISHED FEBRUARY 7, 1928. Class 26.

240,961. PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,725. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,962. PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,724. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,963. PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,723. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,964. PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,722. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,965. MIDDLE-BREAKER PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,720. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,966. MIDDLE-BREAKER PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,719. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,967. PLOWS AND PARTS THEREOF. BRINLY-HARDY COMPANY, Louisville, Ky.
Filed December 10, 1927. Serial No. 258,718. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,968. A MINERAL WATER. SASQUA HILLS BEVERAGE COMPANY, Norwalk, Conn.
Filed December 7, 1927. Serial No. 258,593. PUBLISHED JANUARY 31, 1928. Class 45.

240,969. SAFETY RAZORS AND SAFETY-RAZOR BLADES. TREET SAFETY RAZOR CORPORATION, Newark, N. J.
Filed December 3, 1927. Serial No. 258,435. PUBLISHED JANUARY 31, 1928. Class 23.

240,970. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS—VIZ, GINGER ALE. A. NOE & SON, Sharpsburg, Pa.
Filed December 2, 1927. Serial No. 258,349. PUBLISHED FEBRUARY 7, 1928. Class 45.

240,971. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. JOHN LASKO & SON, Boundbrook, N. J.
Filed December 2, 1927. Serial No. 258,338. PUBLISHED JANUARY 31, 1928. Class 45.

240,972. TYPEWRITER STANDS OR TABLES. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed December 2, 1927. Serial No. 258,315. PUBLISHED JANUARY 31, 1928. Class 32.

240,973. MACHINES FOR REMOVING GREASE, DIRT, PAINT, VARNISH, OR OTHER DELETERIOUS ACCUMULATIONS FROM THE SURFACE OF ANY ARTICLE OR STRUCTURE, BY MEANS OF A HOT ELASTIC-FLUID SPRAY. TRIDEX EQUIPMENT CO., INC., Dallas, Tex.
Filed December 1, 1927. Serial No. 258,303. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,974. DRILL BITS, DRILL SHARPENERS, DRILL RETAINERS, ETC. GARDNER-DENVER COMPANY, Denver, Colo.
Filed November 29, 1927. Serial No. 258,177. PUBLISHED FEBRUARY 7, 1928. Class 23.

240,975. TRACTORS. VAUGHAN MOTOR WORKS, INC., Portland, Oreg.
Filed November 23, 1927. Serial No. 258,004. PUBLISHED JANUARY 31, 1928. Class 23.

240,976. SHOE MACHINERY, PARTICULARLY SHOE LASTS AND LASTING DEVICES. THE PROGRESSIVE MACHINERY COMPANY, Minneapolis, Minn.
Filed November 19, 1927. Serial No. 257,811. PUBLISHED JANUARY 31, 1928. Class 23.

240,977. PNEUMATIC INNER TUBES. AUGUST C. BERINO, Jr., doing business as Texa Tire & Rubber Company, Houston, Tex.
Filed November 18, 1927. Serial No. 257,754. PUBLISHED JANUARY 31, 1928. Class 35.

240,978. AUDIBLE SIRENS, ALARMS, AND SIGNALS. LESTER H. MILES, Los Angeles, Calif.
Filed November 7, 1927. Serial No. 257,183. PUBLISHED JANUARY 31, 1928. Class 23.

240,979. PNEUMATIC TOOLS. THE CLEVELAND PNEUMATIC TOOL COMPANY, Cleveland, Ohio.
Filed November 5, 1927. Serial No. 257,095. PUBLISHED JANUARY 31, 1928. Class 23.

240,980. A HYDRAULIC LIFTING JACK. STANDARD LIFT COMPANY, INC., Memphis, Tenn.
Filed November 1, 1927. Serial No. 256,890. PUBLISHED JANUARY 31, 1928. Class 23.

240,981. ASBESTOS-CEMENT WALL BOARDS AND SHEATHING. ASBESTILE (SOCIÉTÉ ANONYME), Brussels and Schoonaerde, Belgium.
Filed April 23, 1927. Serial No. 247,882. PUBLISHED JANUARY 17, 1928. Class 12.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

240,982. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOCIÉTÉ ANONYME DES ÉTABLISSEMENTS REPUSSEAU & CIE., Levallois-Perret, France. Filed June 28, 1926. Serial No. 233,848.

SILENTBLOC

Particular description of goods.—Pivotal Joints or Members for Mechanical Purposes.
Claims use since Feb. 10, 1926.

240,983. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GAST MANUFACTURING CORPORATION, Bridgman, Mich. Filed Dec. 6, 1926. Serial No. 241,048.

Gast
COMPRESSED AIR SEPARATOR

Particular description of goods.—Device for Separating Oil and Water from Compressed Air.
Claims use since Nov. 6, 1926.

240,984. (CLASS 32. FURNITURE AND UPHOLSTERY.) RAYMOND PORCH SHADE CO., Janesville, Wis. Filed Jan. 31, 1927. Serial No. 243,625.

MULTITONE

Particular description of goods.—Porch Shades.
Claims use since on or about Jan. 22, 1927.

240,985. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WEST COAST KALSOMINE CO., West Berkeley, Calif. Filed Feb. 10, 1927. Serial No. 244,198.

Old English Tint

Particular description of goods.—Kalsomine in Dry Form.
Claims use since Jan. 1, 1926.

240,986. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN ALUMINUM WARE COMPANY, Newark, N. J. Filed Feb. 24, 1927. Serial No. 244,810.

"The Better Ware"

Particular description of goods.—Aluminum Cooking Utensils.
Claims use since Jan. 10, 1927.

240,987. (CLASS 12. CONSTRUCTION MATERIALS.) JOSEPH MAYONE, INC., Catskkill, N. Y. Filed Mar. 7, 1927. Serial No. 245,361.

MAYONE

Particular description of goods.—Building Brick.
Claims use since Feb. 1, 1927.

240,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DUBOREL CORPORATION, Jersey City, N. J. Filed Jan. 17, 1928. Serial No. 260,218.

Pyorrhea Paste (DUNLOP)

Particular description of goods.—Medicinal Paste for Use in the Treatment of the Gums.
Claims use since Mar. 1, 1926.

240,989. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. WILSON, Montell, Tex. Filed Jan. 24, 1928. Serial No. 260,609.

WILSON'S

Particular description of goods.—Medicinal Preparations for the Destruction of Screw Worms and the Healing of Sores and Cuts on Animals.
Claims use since June 1, 1926.

240,990. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) J. SWEDLIN, INC., doing business as Gund Manufacturing Co., New York, N. Y. Filed Feb. 8, 1928. Serial No. 261,404.

Gund Manufacturing Co.

Particular description of goods.—Stuffed Toys.
Claims use since July 1925.

240,991. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) SHEET METAL PRODUCTS CO., Minneapolis, Minn. Filed Mar. 14, 1927. Serial No. 245,756.

TWIN CITY

Particular description of goods.—Coal and Oil Steam and Hot-Water Heating Plants.
Claims use since Mar. 1, 1927.

240,992. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL GEGENHEIMER, doing business as Carlton Distributing Co., Newark, N. J. Filed Apr. 12, 1927. Serial No. 247,317.

CARLTON

Particular description of goods.—Rice, Tomato Catsup, and Food-Flavoring Extracts.
Claims use since January, 1927.

240,993. (CLASS 37. PAPER AND STATIONERY.) SCHMIDT LITHOGRAPH COMPANY, San Francisco, Calif. Filed Apr. 18, 1927. Serial No. 247,640.

Kushion

Particular description of goods.—Fruit Pads—Namely, Sections of Corrugated Paper Placed Above, Below, and Between Layers of Fruit to Prevent Bruising.
Claims use since Mar. 1, 1926.

240,994. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLOMON'S DRUG STORES AND MONTFORD PHARMACY, doing business as Simm's Chemical Co., Baltimore, Md. Filed June 2, 1927. Serial No. 249,933.

SIMM'S

Particular description of goods.—Liniments for External Use as a Counterirritant in the Treatment of Sprains, Muscular Rheumatism, Sciatica, Lumbago, Pains in the Back or Chest, Frostbite, Stiff or Swollen Joints, Contractions of the Muscles, Bruises Where the Skin is Unbroken, and Such Other Disorders as Respond to Externally-Applied Counterirritants, Diuretics, and General Tonics.
Claims use since Feb. 29, 1927.

240,995. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH S. CUTRONA, doing business as Gold Seal Specialty Co., Buffalo, N. Y. Filed Aug. 19, 1927. Serial No. 253,696.

Natur-Glos

Particular description of goods.—Hairdressing and Tonic.
Claims use since Mar. 3, 1927.

240,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSEPINE CO-OPERATIVE SWEET POTATO CURING COMPANY, INC., Rosepine, La. Filed Oct. 1, 1927. Serial No. 255,533.

ROSEPINE

Particular description of goods.—Fresh Sweet Potatoes.
Claims use since Mar. 24, 1926.

240,997. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JOHN ADAMS BRUCE, Tampa, Fla. Filed Nov. 30, 1927. Serial No. 258,207.

Bruce's Juices

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since July 6, 1926.

240,998. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE SWINEHART TIRE AND RUBBER COMPANY, Akron, Ohio. Filed Dec. 23, 1927. Serial No. 259,310.

THEY WEAR AND WEAR AND WEAR

Particular description of goods.—Automobile Tires, Inner Tubes, and Tire and Tube Repair Materials—Namely, Boots, Patches, Plugs, Shoes, Reliners, and Portable Repair Kits.
Claims use since 1919.

240,999. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HANS SATTLER, Sheboygan, Wis. Filed Jan. 9, 1928. Serial No. 259,879.

The Sattler Recorder

Particular description of goods.—Recorders of the Vibratory Type Wherein Vibration of Moving Vehicles is Recorded by a Graph Upon a Driven Chart.
Claims use since May 28, 1921.

241,000. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NAVIE CHEMICAL CO., San Francisco, Calif. Filed Jan. 23, 1928. Serial No. 260,522.

CASTORMILK

Particular description of goods.—Castor-Oil Emulsion.
Claims use since Mar. 1, 1927.

241,001. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHARLES D. SCHMIDT, New York, N. Y. Filed Feb. 8, 1928. Serial No. 261,393.

SCHMIDT

Particular description of goods.—Brake Lining.
Claims use since July 1, 1923.

241,002. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TRANSOGRAM CO. INC., Brooklyn, N. Y. Filed Feb. 10, 1928. Serial No. 261,537.

GOLD MEDAL

Particular description of goods.—Toys, Games and Novelties—Namely, Toy Garden Sets, Toy Sewing Cards, Toy Art-Embroidery Outfits, Toy Coloring Outfits, Toy Stencil, Paper-Cutting, and Coloring Outfits, Toy Needlework Sets, Toy Aluminum Tea Sets, Toy Aluminum Coffee Perc. Sets, Toy Mother Goose Painting Outfits, Toy Painting Outfits, Toy Krayon Sets, Toy Crayon Outfits, Toy Bubble Flakes, Toy Cut-Out Map of U. S., Toy Chemical Magic Sets, Toy Chemical Sets, and Puzzle Games, Toy Magnetic Fishponds, Toy Fishing Games, Toy Transfer Pictures, Toy Pool Tables, Toy Sewing Tins, Toy Sewing Baskets, Toy Traveling Cases, Toy Trunks, Toy Soap Toys, Toy Cut-Out Houses, Toy Drawing Sets, Toy Sand Molds, Toy Telephones, Toy Miniature Hatboxes, Toy Hatboxes, Toy Picture Books, Paper Dolls, Toy Surprise Packages, Toy Sand Shovels, Cut-Out Picture Puzzles, Toy Houses.
Claims use since 1915.

241,003. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CALIFORNIA BOTTLING WORKS, Los Angeles, Calif. Filed Feb. 21, 1928. Serial No. 262,018.

CALIFORNIA DRY

PALE GINGER ALE

Particular description of goods.—Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since on or about Dec. 1, 1926.

241,004. (CLASS 11. INKS AND INKING MATERIALS.) THE SMITH PREMIER TYPEWRITER COMPANY, Syracuse and New York, N. Y. Filed Feb. 21, 1928. Serial No. 262,041.

COMMERCIAL

Particular description of goods.—Carbon Paper.
Claims use since 1902.

241,005. (CLASS 12. CONSTRUCTION MATERIALS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 14, 1928. Serial No. 260,155.

Channeldrain

Particular description of goods.—Zinc-Coated Roofing.
Claims use since Mar. 5, 1921.

241,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RAYMOND S. MINTON, doing business as Nu Fruit Products Co., Los Angeles, Calif. Filed Jan. 11, 1928. Serial No. 259,064.

NU-FRUIT

Particular description of goods.—A Fruit Cake Consisting of the Dried Meats of Nuts, Dates, Figs, Raisins, and Prunes.
Claims use since Dec. 30, 1926.

241,007. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Oct. 10, 1927. Serial No. 255,843.

White as Snow *Soft as Down*

Particular description of goods.—Toilet Paper, Paper Towels, Paper Napkins, Paper Doilies, Paper Tablecloths, and Tissue Paper.
Claims use since Jan. 10, 1927.

241,008. (CLASS 12. CONSTRUCTION MATERIALS.) JANE ELIZABETH [illegible] Filed July 13, 1927. Serial No. 252,259.

WITHDRAWN

COLUMBIA SAFETY SASH

Particular description of goods.—Window Sashes and Window Frames.
Claims use since Sept. 8, 1924.

241,009. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK CHARLES TARPLEY, doing business as Serra Products Co., Los Angeles, Calif. Filed July 11, 1927. Serial No. 251,874.

STA-ON

Particular description of goods.—Automobile Top Dressing.
Claims use since Feb. 26, 1927.

241,010. (CLASS 12. CONSTRUCTION MATERIALS.) THE BROCKWAY CLAY COMPANY, Brockway, Pa. Filed June 16, 1927. Serial No. 250,596.

BROCKWAY

Particular description of goods.—Vitrified Sewer Pipe, Wall Coping, and Flue Lining.
Claims use since Mar. 1, 1927.

241,011. (CLASS 11. INKS AND INKING MATERIALS.) CARDINET CHEMICAL COMPANY, Los Angeles, Calif. Filed June 3, 1927. Serial No. 249,946.

CARDINET'S

Particular description of goods.—Ink—Namely, Stenciling, and Marking Ink.
Claims use since Feb. 23, 1927.

241,012. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA AVOCADO GROWERS EXCHANGE, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 247,357.

FINO

Particular description of goods.—Fresh Avocados.
Claims use since Jan. 28, 1927.

241,013. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA AVOCADO GROWERS EXCHANGE, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 247,356.

BUENO

Particular description of goods.—Fresh Avocados.
Claims use since Jan. 28, 1927.

241,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIERRA MADRE FRUIT CO., Los Angeles and Casa Blanca, Calif. Filed Mar. 7, 1927. Serial No. 245,377.

Kellogg's

Particular description of goods.—Fresh Citrus and Deciduous Fruits, Fresh Vegetables, Fresh Cantaloupes, and Fresh Grapes.
Claims use since Feb. 5, 1927.

241,015. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MANETOR THERMO-PAC, INCORPORATED, Philadelphia, Pa. Filed Jan. 3, 1927. Serial No. 242,305.

THERMO-PAC

Particular description of goods.—Bandages, Compresses, and Packs for Medical or Therapeutical Purposes.
Claims use since Dec. 1, 1926.

241,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORKDIPT CHOCOLATES CO., Boston, Mass. Filed Oct. 13, 1926. Serial No. 238,548.

GREENLAND DAINTIES

Particular description of goods.—Candy.
Claims use since June 8, 1926.

241,017. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Aug. 26, 1926. Serial No. 236,469.

Carlton

Particular description of goods.—Candy and Candy Bars.
Claims use since May 1, 1926.

TRADE-MARK REGISTRATIONS RENEWED

31,276. WROUGHT-STEEL PULLEYS. Registered February 15, 1898. THE AMERICAN PULLEY COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 15, 1928.

31,312. BAKING POWDER. Registered February 22, 1898. SPRAGUE, WARNER & COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed February 22, 1928.

31,316. COFFEE AND COFFEE SUBSTITUTES. Registered February 22, 1898. SPRAGUE, WARNER & COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed February 22, 1928.

31,412. AUTOMATIC PIANO PLAYERS. Registered March 8, 1898. THE AEOLIAN COMPANY, Meriden, Conn., and New York, N. Y. Renewed March 8, 1928, to The Aeolian Company, New York, N. Y., a Corporation of Connecticut.

31,702. CARPET SWEEPERS. Registered June 14, 1898. BISSELL CARPET SWEEPER CO. Renewed June 14, 1928, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

31,715. A TONIC ALTERATIVE COMPOUND. Registered June 21, 1898. SHARP & DOHME, Baltimore, Md.; New York, N. Y.; and Chicago, Ill. Renewed June 21, 1928, to Sharp & Dohme, Baltimore, Md., a Corporation of New Jersey, assignee.

31,839. TOYS, DOLLS, AND GAMES. Registered August 2, 1898. The firm of F. A. O. Schwarz. Renewed August 2, 1928, to F. A. O. Schwarz, New York, N. Y., a Corporation of New York, successor.

31,906. MURAL DECORATIONS. Registered August 30, 1898. BENJAMIN MOORE & CO., Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed August 30, 1928.

60,504. PAINTS AND VARNISHES. Registered February 12, 1907. BILLINGS, KING & Co., New York, N. Y., and Boston, Mass. Renewed February 12, 1927, to The Billings-Chapin Co., Cleveland, Ohio, a Corporation of Ohio, successor.

65,641. CERTAIN MEDICINES. Registered October 15, 1907. JOHN JULIUS MCALLISTER, Milton, Oreg. Renewed October 15, 1927, to Sarah Victoria McAllister, Long Beach, Calif., successor.

66,775. A MONTHLY MAGAZINE. Registered December 24, 1907. THE SYSTEM COMPANY. Renewed December 24, 1927, to A. W. Shaw Company, Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

67,402. TABLE WATERS. Registered February 4, 1908. JACOB RIES. Renewed February 4, 1928, to Jacob Ries Bottling Works, Inc., Shakopee, Minn., a Corporation of Minnesota, successor.

67,726. CURED MEATS AND SAUSAGE. Registered February 18, 1908. KINGAN AND COMPANY, LIMITED, Belfast, Ireland; Indianapolis, Ind.; Baltimore, Md.; and Richmond, Va. Renewed February 18, 1928, to Kingan & Co. Incorporated, Indianapolis, Ind., a Corporation of New Jersey, assignee.

67,853. CERTAIN COMPRESSES. Registered February 25, 1908. THE PHILADELPHIA DRYING MACHINERY COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 25, 1928.

67,854. MACHINERY FOR DRYING, COOLING, ORDERING, OR TREATING TOBACCO. Registered February 25, 1908. THE PHILADELPHIA DRYING MACHINERY COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 25, 1928.

67,855. CERTAIN MACHINERY. Registered February 25, 1908. THE PHILADELPHIA DRYING MACHINERY COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 25, 1928.

67,874. CUTLERY IN GENERAL AND OTHER HAND TOOLS HAVING A CUTTING EDGE. Registered February 25, 1908. SAMUEL OSBORN & CO. LIMITED, as assignee of Saml. Osborn & Co. Renewed February 25, 1928, to Samuel Osborn & Co. Limited, Sheffield, England, a Corporation of Great Britain, assignee.

67,875. STEEL AND IRON. Registered February 25, 1908. SAMUEL OSBORN & CO. LIMITED, as assignee of Saml. Osborn & Co. Renewed February 25, 1928, to Samuel Osborn & Co. Limited, Sheffield, England, a Corporation of Great Britain, assignee.

67,877. PASTE FOR DESTROYING RATS, MICE, AND ROACHES. Registered February 25, 1908. AARON WALTER ROSEMAN, Philadelphia, Pa. Renewed February 25, 1928, to Aaron Walter Roseman, West Chester, Pa.

68,108. CERTAIN MATTRESSES, PILLOWS, LOUNGES, AND DAVENPORTS. Registered March 10, 1908. THE J. C. HIRSCHMAN COMPANY, Indianapolis, Ind., a Corporation of Indiana. Renewed March 10, 1928.

68,113. A NITROOXIDIZING AGENT. Registered March 10, 1908. NITROX CHEMICAL COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed March 10, 1928.

68,531. PRESERVED FISH. Registered April 14, 1908. AKTIEBOLAGET SVERIGES FÖRENADE KONSERVFABRIKER, Gothenburg, Sweden. Renewed April 14, 1928, to Aktiebolaget Sveriges Förenade Konservfabriker, Goteborg, Sweden.

68,649. SAUSAGE, LARD, DRIED BEEF, HAM, AND BACON. Registered April 21, 1908. WILLIAM J. JONES, doing business as Tri-Mor Sausage Company, North Olmsted and Cleveland, Ohio. Renewed April 21, 1928.

68,676. MEDICATED COTTON WOOL. Registered April 21, 1908. SHARP & DOHME, Baltimore, Md., a Corporation of New Jersey. Renewed April 21, 1928.

68,680. A MAGAZINE. Registered April 21, 1908. RICHARD D. WYCKOFF. Renewed April 21, 1928, to The Ticker Publishing Company, New York, N. Y., a Corporation of New York, succesor.

68,731. CERTAIN TOOLS. Registered April 28, 1908. PETER STUBS LIMITED, Warrington and Rotherham, England, a Joint-Stock Company of Great Britain. Renewed April 28, 1928.

68,732. CERTAIN TOOLS. Registered April 28, 1908. PETER STUBS LIMITED, Warrington and Rotherham, England, a Joint-Stock Company of Great Britain. Renewed April 28, 1928.

69,003. FLUTED SPOON BAITS. Registered May 12, 1908. MARIANA E. SKINNER, sole executrix of G. M. Skinner, deceased. Renewed May 12, 1928, to G. M. Skinner, Inc., Clayton, N. Y., a Corporation of New York, successor.

69,021. LEATHER BELTING AND LACING FOR BELTING. Registered May 12, 1908. BAY STATE BELTING COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed May 12, 1928.

69,077. CURED, SALTED, AND CANNED MEATS AND SAUSAGE. Registered May 19, 1908. KINGAN AND COMPANY, LIMITED, Belfast, Ireland; Indianapolis, Ind.; Baltimore, Md.; Philadelphia, Pa.; and Richmond, Va. Renewed May 19, 1928, to Kingan & Co. Incorporated, Indianapolis, Ind., a Corporation of New Jersey, assignee.

69,091. PACKAGES OF TOILET PAPER. Registered May 19, 1908. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y., a Corporation of New York. Renewed May 19, 1928.

69,092. EXTRACT OF MALT AND HOPS. Registered May 19, 1908. ANHEUSER-BUSCH BREWING ASSOCIATION. Renewed May 19, 1928, to Anheuser-Busch, Incorporated, St. Louis, Mo., a Corporation of Missouri, assignee.

69,099. PERIODICALS. Registered May 19, 1908. LA HACIENDA COMPANY, Buffalo, N. Y. Renewed May 19, 1928, to La Hacienda Company, New York, N. Y., a Corporation of New York.

69,187. RAILWAY-CAR CASTINGS. Registered May 26, 1908. THE NATIONAL MALLEABLE CASTINGS COMPANY. Renewed May 26, 1928, to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

69,305. LEATHER BELTING. Registered June 2, 1908. THE GRATON AND KNIGHT MANUFACTURING COMPANY. Renewed June 2, 1928, to Graton & Knight Company, Worcester, Mass., a Corporation of Massachusetts, assignee.

69,567. INHALANTS PUT UP IN CAPSULES. Registered June 23, 1908. SHARP & DOHME, Baltimore, Md., a Corporation of New Jersey. Renewed June 23, 1928.

69,615. CERTAIN DRYING MACHINERY. Registered June 23, 1908. THE PHILADELPHIA DRYING MACHINERY COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed June 23, 1928.

69,738. A CERTAIN MEDICINAL PREPARATION. Registered June 30, 1908. SHARP & DOHME, Baltimore, Md., a Corporation of New Jersey. Renewed June 30, 1928.

69,946. TOOTH PASTE. Registered July 21, 1908. KLEWE & CO. INC. Renewed July 21, 1928, to The Kolynos Company, New Haven, Conn., a Corporation of Connecticut, assignee.

70,001. UNSWEETENED CONDENSED MILK. Registered July 21, 1908. NESTLÉ AND ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland, and London, England. Renewed July 21, 1928, to Nestle's Food Company, Inc., New York, N. Y., a Corporation of New York, assignee.

70,205. RESISTANCE WIRE. Registered August 11, 1908. DRIVER-HARRIS WIRE COMPANY. Renewed August 11, 1928, to Driver-Harris Company, Harrison, N. J., a Corporation of New Jersey, assignee.

70,266. TAPIOCA. Registered August 18, 1908. PARRISH BROTHERS, INC., Baltimore, Md., a Corporation of Maryland. Renewed August 18, 1928.

70,268. STOCK FOOD FOR ANIMALS. Registered August 18, 1908. THE QUAKER OATS COMPANY, Chicago, Ill.; Cedar Rapids, Iowa; and Akron, Ohio. Renewed August 18, 1928, to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey.

70,375. TRANSOM LIFTERS. Registered August 25, 1908. THE PAYSON MANUFACTURING COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed August 25, 1928.

70,401. A LIQUID REMEDY FOR CERTAIN DISEASES. Registered August 25, 1908. THE OLEPHEN CHEMICAL COMPANY, Wamego, Kans. Renewed August 25, 1928.

LABELS

REGISTERED APRIL 10, 1928.

33,795.—*Title:* MOUNTAIN GINGER ALE. NON ALCOHOLIC. For Ginger Ale. JOS. F. BENEDECK, Glenwood Springs, Colo. Published October 1, 1927.

33,796.—*Title:* PARCEL POST BUTTER. For Butter. BRUDER CREAMERIES, Cleveland, Ohio. Published March 5, 1928.

33,797.—*Title:* ELINE'S ORIENTAL SWEETS. For Candy. ELINE'S INCORPORATED, Milwaukee, Wis. Published January 3, 1927.

33,798.—*Title:* HEIDE'S QUALITY CANDIES 10—A—3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,799.—*Title:* HEIDE'S QUALITY CANDIES 10—B—3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,800.—*Title:* HEIDE'S QUALITY CANDIES 10—C—3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,801.—*Title:* HEIDE'S QUALITY CANDIES 10—D—3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,802.—*Title:* HEIDE'S QUALITY CANDIES 10—E—3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,803.—*Title:* HEIDE'S QUALITY CANDIES 10—F—3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,804.—*Title:* QUALITY SHOES THAT FIT. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 28, 1927.

33,805.—*Title:* PARIS STYLES AT POPULAR PRICES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 29, 1927.

33,806.—*Title:* QUALITY SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 29, 1927.

33,807.—*Title:* THE RIGHT SHOES ON TIME. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 12, 1927.

33,808.—*Title:* THE HOUSE OF REPUTATION. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 19, 1928.

33,809.—*Title:* WE SHOE THE WHOLE FAMILY. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 28, 1927.

33,810.—*Title:* RENOWNED SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 30, 1927.

33,811.—*Title:* THALHIMER BROS. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 8, 1927.

33,812.—*Title:* SHOES FOR THE WHOLE FAMILY. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 13, 1927.

33,813.—*Title:* FEMININE FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 16, 1927.

33,814.—*Title:* BLOCK'S. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 22, 1927.

33,815.—*Title:* SURE FIT SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 19, 1927.

33,816.—*Title:* HIGH GRADE SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 23, 1927.

33,817.—*Title:* FASHION WEAR FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 30, 1927.

33,818.—*Title:* CORRECTIVE ARCH BUILT SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 31, 1927.

33,819.—*Title:* WOMEN'S NOVELTY FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 30, 1927.

33,820.—*Title:* QUALITY FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 31, 1927.

33,821.—*Title:* FASHIONABLE FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 6, 1928.

33,822.—*Title:* THE BON-TON. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 9, 1927.

33,823.—*Title:* BOWMAN'S. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 9, 1927.

33,824.—*Title:* KLINE & EPPIHIMER. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 9, 1927.

33,825.—*Title:* GOOD SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 28, 1927.

33,826.—*Title:* SELF-ACTION. For Hand Soap. HOH-HAO MFG. CO., Niagara Falls, N. Y. Published November 1, 1927.

33,827.—*Title:* DEWDROP. For Bread. KALAMAZOO VEGETABLE PARCHMENT CO., doing business as Kal. Veg. Parch. Co. and K V P Co., Kalamazoo, Mich. Published December 21, 1927.

33,828.—*Title:* SKIN-HEALTH. For Soap. A. J. KRANK MFG. CO., St. Paul, Minn. Published December 7, 1927.

33,829.—*Title:* MARDI-GRAS. For Candy. THE FREDERICK W. LIPPS CO. INC., Baltimore, Md. Published February 1, 1928.

33,830.—*Title:* PETER LONG EARS. For Slippers, and More Particularly Those of the Fleece-Lined Type. MONDL MANUFACTURING COMPANY, Oshkosh, Wis. Published December 23, 1927.

33,831.—*Title:* ROXY BRAND. For Cheese. ROYAL IMPORTING CO., New York, N. Y. Published November 12, 1927.

33,832.—*Title:* SERENADER'S CLUB. For Ginger Ale. SERENADER'S CLUB GINGER ALE INC., Kansas City, Mo. Published September 22, 1927.

33,833.—*Title:* FAULKNER'S SPECIAL NO. 20 SOLUBLE TALLOW. For Sizing Compound for Preparation of Cotton Warp Yarns. SOUTHERN DISTRIBUTING COMPANY, East Point and Columbus, Ga. Published December 12, 1927.

33,834.—*Title:* SUNSHINE ILLUMINATORS. For Electric-Light Reflectors. SUNSHINE INCORPORATED, Lynn, Mass. Published February 15, 1928.

33,835.—*Title:* SUPER SERVICE. For Automobile Tubes. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1927.

33,836.—*Title:* WIGG'S WATERLESS CLEANSER WIGGLES THE DIRT. For Waterless Soap. THE WIGGINS CHEMICAL CO., Cincinnati, Ohio. Published May 23, 1927.

33,837.—*Title:* WRIGLEY'S PINK P. K. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

PRINTS

REGISTERED APRIL 10, 1928.

10,768.—*Title:* INTRODUCING MR. B. T. U. For Insulating Material. BANNER ROCK PRODUCTS COMPANY, Alexandria, Ind. Published January 9, 1928.

10,769.—*Title:* PAUSE—AND REFRESH YOURSELF. For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published January 16, 1928.

10,770.—*Title:* REFRESH YOURSELF. For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published January 16, 1928.

10,771.—*Title:* FOOTSAVERS—CORRECT SHOES FOR MEN. For Shoes. COMMONWEALTH SHOE & LEATHER COMPANY, Whitman, Mass. Published October 13, 1927.

10,772.—*Title:* WE PROPOSE—FOR DESSERT—MY-T-FINE. For Dessert Preparations. THE D & C CO. INC., Wilmington, Del., and Brooklyn, N. Y. Published January 24, 1928.

10,773.—*Title:* KNOCK THAT GLARE. For Nonglare Devices for Automobiles. NOX-GLARE SHIELD COMPANY, Greenville, S. C. Published January 20, 1928.

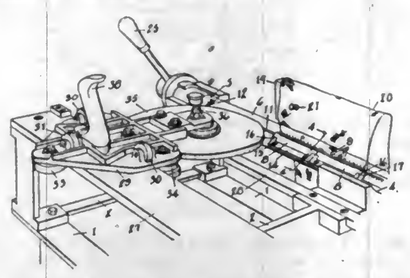
10,774.—*Title:* POST'S BRAN FLAKES. For Cereal Breakfast Foods. POSTUM COMPANY, INCORPORATED, Battle Creek, Mich. Published March 1, 1927.

10,775.—*Title:* TENT-TITE. THE GUARANTEED WATERPROOFING. For Waterproof Liquid. HERBERT J. RIEDEL, doing business as Tent-Tite Co., Milwaukee, Wis. Published January 16, 1928.

REISSUES

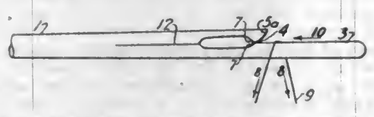
APRIL 10, 1928.

16,925. MACHINE FOR SETTING OR APPLYING BELT FASTENERS AND THE LIKE. JAMES K. DIAMOND, Grand Rapids, Mich., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Filed Apr. 23, 1926. Serial No. 104,221. Original No. 1,563,845, dated Dec. 1, 1925, Serial No. 19,480, filed Mar. 30, 1925. 27 Claims. (Cl. 1—49.4.)



1. In a structure of the class described, the combination of a bed, a shaft-like anvil jaw member rotatably mounted at the rear side of said bed, a fastener holder adapted to support a plurality of fasteners operatively associated with said anvil jaw member, means for giving said anvil jaw member a step by step adjustment, a way disposed at the front of said bed in approximately the horizontal plane of and in parallel relation to said anvil jaw member, a track disposed in a plane below and adjacent to said anvil jaw member, a carriage provided with supporting rollers traveling on said way and track and with inner and outer thrust rollers coacting with the edges of said way, and a cylindrical disk-like closing jaw rotatably mounted on said carriage in supporting engagement with the inner thrust roller.

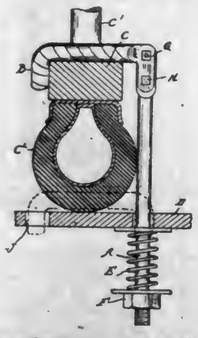
16,926. SEWING NEEDLE. HERMAN I. LIPPARD, Upper Darby, Pa. Filed Apr. 6, 1927. Serial No. 181,577. Original No. 1,619,142, dated Mar. 1, 1927, Serial No. 100,338, filed Apr. 7, 1926. 5 Claims. (Cl. 233—37.)



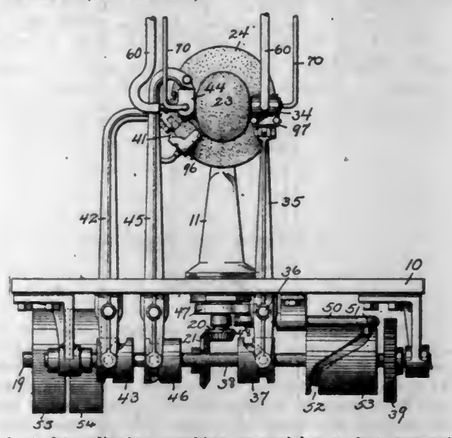
1. A tagging needle having an eye at the head end thereof, a slit at the rear end of said eye, a slit at the front end of said eye extending towards the point or front end of said needle, a beveled edge at the rear end of said eye, the said bevel sloping towards the slit at the rear end, arms formed by the said slits, one of the arms being longer than the other.

16,927. SECURING DEVICE FOR VEHICLES. JOHN H. ROSENCRANS, Detroit, Mich., assignor of one-half to James W. Smith, Detroit, Mich. Filed Jan. 26, 1925. Serial No. 4,974. Original No. 1,495,442, dated May 27, 1924, Serial No. 539,344, filed Feb. 27, 1922. 5 Claims. (Cl. 280—179.)

1. The combination with an article of merchandise, of a support therefor having spaced openings therethrough, a stem extending through one of said openings, a hook carried by said stem, and yieldable means engaging said stem below said support and normally retaining said hook in engagement with said article of merchandise said yieldable means being adapted to cause said hook to engage the other opening in said support when said hook is removed from said support.



16,928. HAT-CLIPPING MACHINE. FERDINAND E. KAUFFMANN, Rahway, N. J., assignor to Doran Brothers, Danbury, Conn., a Copartnership consisting of James F. Doran and John C. Doran. Filed Sept. 20, 1927. Serial No. 220,781. Original No. 1,452,048, dated Apr. 17, 1923, Serial No. 422,205, filed Nov. 6, 1920. 25 Claims. (Cl. 223—30.)

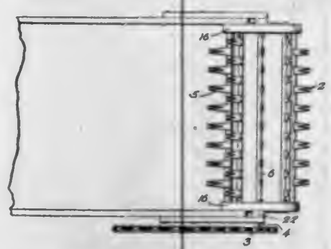


1. A hat clipping machine comprising a hat support including a block to hold a hat with its crown taut and shaped, a clipping device, and means for moving the parts so that the clipping device traverses the entire crown of the hat.

16,929. MANURE SPREADER. EDWARD C. F. SCHAEFER, York, Pa. Filed Feb. 11, 1928. Serial No. 253,749. Original No. 1,646,878, dated Oct. 25, 1927, Serial No. 101,987, filed Apr. 14, 1926. 10 Claims. (Cl. 275—3.)

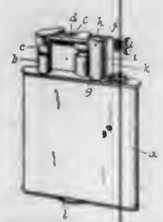
1. In a manure spreader of the class described, an elevating and ejecting rotor, embodying a pair of end heads in the form of disks provided with angularly dis-

posed peripheral flanges, a shaft upon which the heads are keyed, a plurality of bars arranged at circumferentially spaced points and located between the peripheral portions of said heads, said bars being provided at their opposite ends with journals, and said heads being provided with bearings in which said journals are rotated, teeth carried by said bars, crank arms on the ends of said bars, a pair of hollow drum structures including peripheral rims, said flanges being stationary and fitting telescopically into said rims, said crank arms being



located between said heads and drums, said drums being provided with endless eccentric channels, and rollers carried by the ends of said crank arms and movable in said channels, the aforesaid rotor being adapted to be mounted in the body of a manure spreader for forward rotation at the discharge end of said body, the eccentricity of said channel being such that the teeth on the drum as they approach the load from the lower side are rearwardly inclined and gradually assume a radial position as they mount to the top of the drum, from which they gradually assume an inclined position.

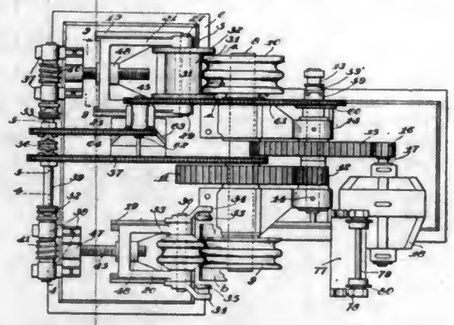
16,930. FLINT LIGHTER. FREDERICK CHARLES WISE and WILLEY GREENWOOD, London, England, assignors to Alfred Dunhill of London, Inc., New York, N. Y., a Corporation of Delaware. Filed June 30, 1927. Serial No. 202,730. Original No. 1,550,859, dated Aug. 25, 1925, Serial No. 23,160, filed Apr. 14, 1925. 3 Claims. (Cl. 67—7.1.)



1. In a flint lighter of the character described, the combination with a wick tube, a hood for covering the end of said tube, and a pivoted lever carrying said hood, of a steel spring bearing against said lever so as to hold the hood either in open or closed position, and a blade of non-corrosive metal superposed on said steel spring so as to cover and conceal the same, substantially as and for the purpose set forth.

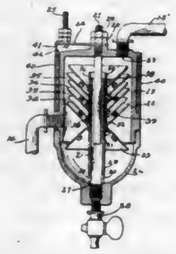
16,931. COMBINATION BAND OR TUBE CORRUGATING AND FLANGING MACHINE. CARL B. PRITCHARD, Scottdale, Pa. Filed May 8, 1925. Serial No. 28,979. Original No. 1,507,424, dated Sept. 2, 1924, Serial No. 673,102, filed Nov. 6, 1923. 10 Claims. (Cl. 153—2.)

1. In a corrugating and flanging machine of the character described, a base, corrugating and flanging driving rolls mounted for rotation upon said base, corrugating and flanging forming rolls also mounted upon said base and adapted for respective cooperation with said driving rolls, means for actuating said driving rolls and simul-



taneously actuated means for controlling the slow movement of said forming rolls in a direction toward said driving rolls, and means for stopping the movement of said forming rolls either jointly or singly.

16,932. CLARIFYING DEVICE FOR LIQUIDS. ALBERT L. RASEY, Milwaukee, Wis. Filed Jan. 30, 1928. Serial No. 250,648. Original application filed June 26, 1922, Serial No. 570,880. Divided and application filed Jan. 7, 1924, Serial No. 684,734. Original No. 1,602,935, dated Oct. 12, 1926. 24 Claims. (Cl. 209—215.)



18. The combination with an internal combustion engine having a circulatory lubrication system and an electric generator, of electromagnetic means operated from said generator associated with said system and adapted wholly to remove magnetically attractable particles from the path of fluid in said system, whereby upon the stopping of the engine and the consequent cessation of the current supply of said generator to the electromagnetic means such particles will not be restored to said system.

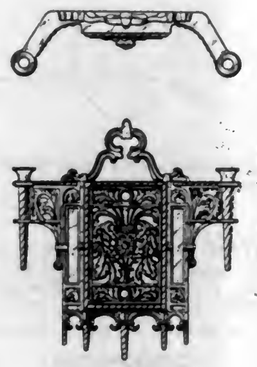
16,933. PROCESS OF MAKING ARSENATES OF MANGANESE AND PRODUCT THEREOF. WELLINGTON LEE TANNER, El Molino, Sonora, Mexico, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 9, 1927. Serial No. 211,844. Original No. 1,591,795, dated July 6, 1926, Serial No. 654,781, filed July 30, 1923. Renewed Nov. 12, 1925. 14 Claims. (Cl. 23—5.)

11. As an insecticide, a product substantially identical with the reaction product obtainable by heating to reacting temperature in the presence of water a mixture of arsenious oxid with a compound of manganese capable of oxidizing arsenious oxid, said reaction product being a complex aggregate containing a plurality of manganese compounds in various hydration stages.

DESIGNS

APRIL 10, 1928.

74,853. WALL-BRACKET LIGHTING FIXTURE. HERMAN ABRAMS, Philadelphia, Pa., assignor to Crescent Brass Mfg. Co., Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1927. Serial No. 24,689. Term of patent 7 years.



The ornamental design for a wall bracket lighting fixture, as shown.

74,854. CANDLE CUP FOR LIGHTING FIXTURES. HERMAN ABRAMS, Philadelphia, Pa., assignor to Crescent Brass Mfg. Company, Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1927. Serial No. 24,690. Term of patent 7 years.



The ornamental design for a candle cup for lighting fixtures, as shown.

74,855. WALL-BRACKET LIGHTING FIXTURE. HERMAN ABRAMS, Philadelphia, Pa., assignor to Crescent Brass Mfg. Co., Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1927. Serial No. 24,691. Term of patent 7 years.



The ornamental design for a wall-bracket lighting fixture, as shown.

74,856. PLATE FOR LIGHTING FIXTURES. HERMAN ABRAMS, Philadelphia, Pa., assignor to Crescent Brass Mfg. Co., Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1927. Serial No. 24,692. Term of patent 7 years.



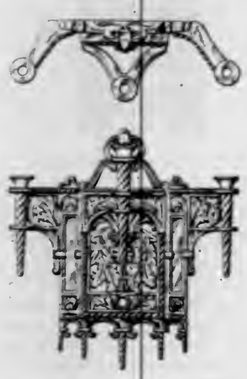
The ornamental design for a plate for lighting fixtures, as shown.

74,857. LOOP FOR LIGHTING FIXTURES. HERMAN ABRAMS, Philadelphia, Pa., assignor to Crescent Brass Mfg. Company, Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1927. Serial No. 24,693. Term of patent 7 years.



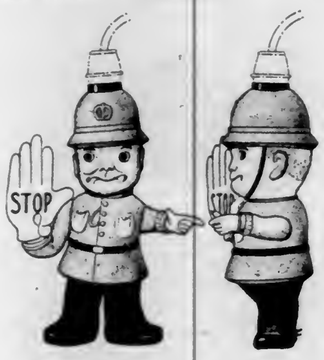
The ornamental design for a loop for lighting fixtures, as shown.

74,858. WALL-BRACKET LIGHTING FIXTURE. HERMAN ABRAMS, Philadelphia, Pa., assignor to Crescent Brass Mfg. Co., Reading, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1927. Serial No. 24,695. Term of patent 7 years.



The ornamental design for a wall bracket lighting fixture, as shown.

74,859. SIGNAL LAMP. IRVING ALEXANDER, New York, N. Y. Filed Dec. 30, 1927. Serial No. 24,704. Term of patent 7 years.



The ornamental design for a signal lamp, as shown.

74,860. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Dec. 17, 1927. Serial No. 24,511. Term of patent 14 years.



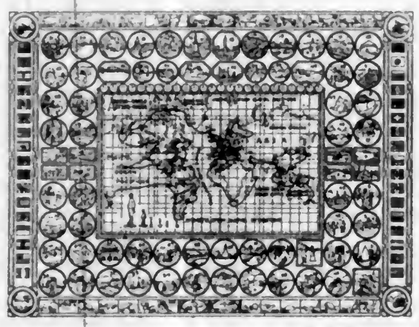
The ornamental design for a spoon or similar article as shown and described.

74,861. KNITTED FABRIC. MILLARD D. BROWN, Philadelphia, Pa., assignor to Continental Mills, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1927. Serial No. 21,288. Term of patent 7 years.



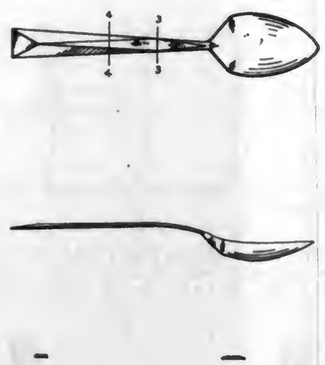
The ornamental design for a knitted fabric, substantially as shown.

74,862. GAME BOARD. JOSEPH CHADILLON, Montreal, Quebec, Canada. Filed Aug. 29, 1927, Serial No. 23,235, and in Canada May 27, 1927. Term of patent 3½ years.



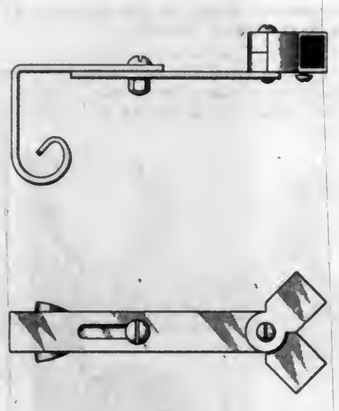
The ornamental design for a game board, as shown, and described.

74,863. SPOON OR SIMILAR ARTICLE. ELWOOD N. CORNELL, Hempstead, N. Y., assignor to The Middletown Silver Company, Middletown, Conn., a Corporation of Connecticut. Filed Jan. 25, 1928. Serial No. 25,023. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown.

74,864. CURTAIN-POLE BRACKET OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,289. Term of patent 3½ years.



The ornamental design for a curtain pole bracket or similar article, substantially as shown.

74,865. PILLOWCASE. JOSEPH DERK, Doylestown, Pa., assignor to The Derk Manufacturing Company, Doylestown, Pa., a Corporation of Pennsylvania. Filed Jan. 26, 1928. Serial No. 25,045. Term of patent 3½ years.



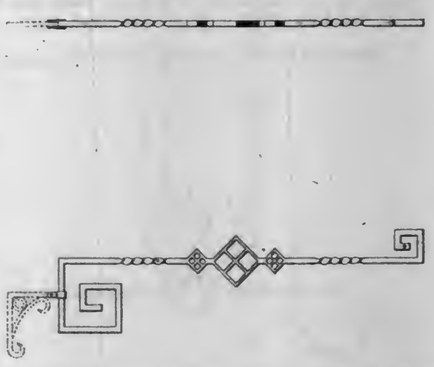
The ornamental design for a pillowcase, as shown.

74,866. HEAD FOR LIGHTING STANDARDS. ANDREW DE VRIES, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1927. Serial No. 23,240. Term of patent 14 years.



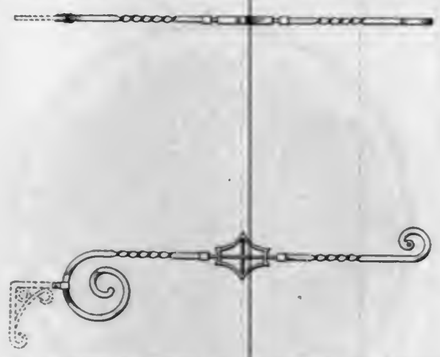
The ornamental design for a head for lighting standards, as shown.

74,867. AWNING ARM. CHARLES H. DIETZ, Chicago, Ill., assignor to United States Tent & Awning Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1928. Serial No. 24,962. Term of patent 7 years.



The ornamental design for an awning arm substantially as shown.

74,868. AWNING ARM. CHARLES H. DIETZ, Chicago, Ill., assignor to United States Tent & Awning Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 23, 1928. Serial No. 24,999. Term of patent 7 years.



The ornamental design for an awning arm substantially as shown.

74,869. AWNING ARM. CHARLES H. DIETZ, Chicago, Ill., assignor to United States Tent & Awning Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1928. Serial No. 25,018. Term of patent 7 years.



The ornamental design for an awning arm substantially as shown.

74,870. AWNING ARM. CHARLES H. DIETZ, Chicago, Ill., assignor to United States Tent & Awning Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1928. Serial No. 25,057. Term of patent 7 years.



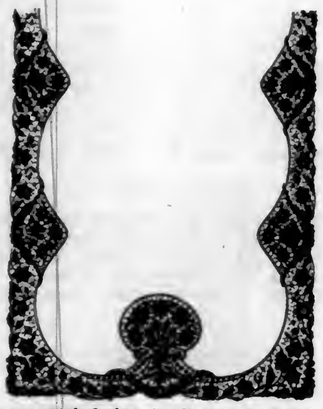
The ornamental design for an awning arm substantially as shown.

74,871. AWNING ARM. CHARLES H. DIETZ, Chicago, Ill., assignor to United States Tent & Awning Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 28, 1928. Serial No. 25,072. Term of patent 7 years.



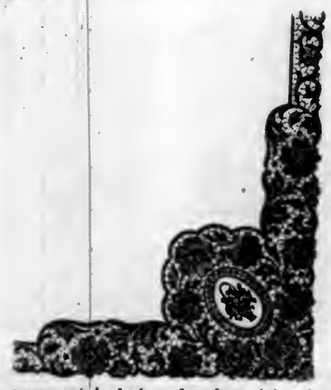
The ornamental design for an awning arm substantially as shown.

74,872. LACE TRIMMING FOR DOILY OR THE LIKE. LAWRENCE DINKELSPIEL, West New York, N. J. Filed Jan. 10, 1928. Serial No. 24,800. Term of patent 3½ years.



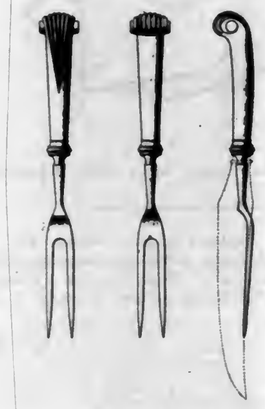
The ornamental design for lace trimming for doily or the like, as shown and deacribed.

74,873. LACE TRIMMING FOR DOILY OR THE LIKE. LAWRENCE DINKELSPIEL, West New York, N. J. Filed Jan. 10, 1928. Serial No. 24,801. Term of patent 3½ years.



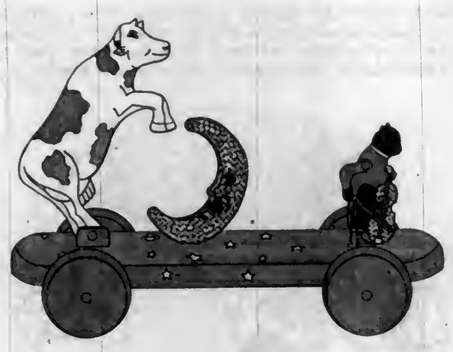
The ornamental design for lace trimming for doily or the like, as shown and described.

74,874. FORK OR SIMILAR ARTICLE. BERNARD A. DOLAN, Brookline, Mass., assignor to Tuttle Silver Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1928. Serial No. 24,830. Term of patent 14 years.



The ornamental design for a fork or similar article, as shown.

74,875. WHEELED TOY. JOSEPH EKSTEIN, New York, N. Y. Filed Nov. 17, 1927. Serial No. 24,196. Term of patent 8½ years.



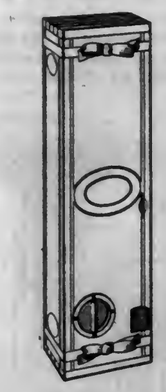
The ornamental design for a wheeled toy as shown.

74,876. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1928. Serial No. 25,102. Term of patent 7 years.



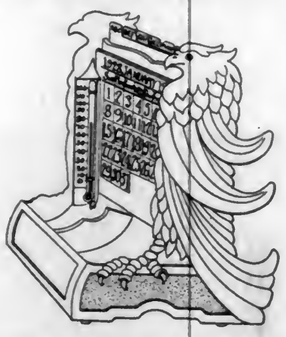
The ornamental design for a textile fabric, substantially as shown.

74,877. VENDING-MACHINE CASING. JOSEPH W. EDWORTHY, Binghamton, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a Corporation of New York. Filed Sept. 21, 1927. Serial No. 23,485. Term of patent 14 years.



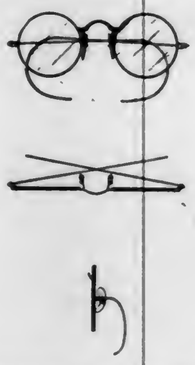
The ornamental design for a vending machine casing as shown.

74,878. DESK ACCESSORY. HERMAN A. FEIGELMAN, Paterson, N. J. Filed Jan. 30, 1928. Serial No. 25,085. Term of patent 14 years.



The ornamental design for a desk accessory, as shown.

74,879. EYEGLASSES. JOSEPH GASPARI, New York, N. Y. Filed Jan. 18, 1928. Serial No. 24,909. Term of patent 7 years.



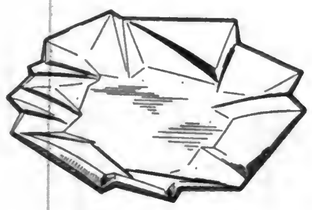
The ornamental design for eyeglasses as shown.

74,880. LAVATORY. JOHN C. GRIFFIS, Los Angeles, Calif., assignor to Pacific Pipe and Supply Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 13, 1928. Serial No. 25,419. Term of patent 14 years.



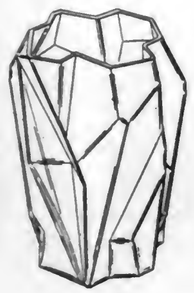
The ornamental design for a lavatory as shown.

74,881. PLATE. REUBEN HALEY, Beaver, Pa., assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa., a Corporation of West Virginia. Filed Feb. 1, 1928. Serial No. 25,126. Term of patent 7 years.



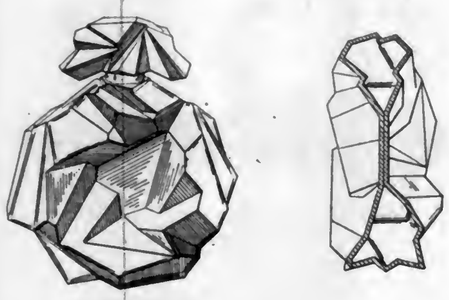
The ornamental design for a plate substantially as shown.

74,882. VASE. REUBEN HALEY, Beaver, Pa., assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa., a Corporation of West Virginia. Filed Feb. 1, 1928. Serial No. 25,127. Term of patent 7 years.



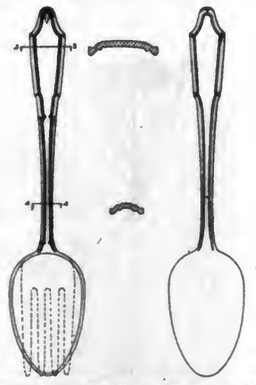
The ornamental design for a vase substantially as shown.

74,883. BOTTLE. REUBEN HALEY, Beaver, Pa., assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa., a Corporation of West Virginia. Filed Feb. 1, 1928. Serial No. 25,128. Term of patent 7 years.



The ornamental design for a bottle substantially as shown.

74,884. SPOON OR SIMILAR ARTICLE. HARRISON HEBBARD, East Orange, N. J., assignor to Dominick & Haff, Inc., Newark, N. J., a Corporation of Delaware. Filed Dec. 12, 1927. Serial No. 24,457. Term of patent 7 years.



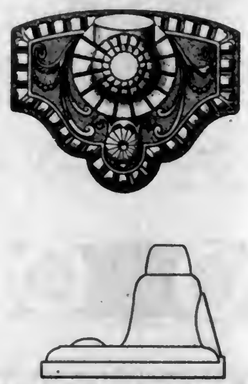
The ornamental design for a spoon or similar article, as shown.

74,885. BRACKET PLATE FOR LIGHTING FIXTURES OR ANALOGOUS ARTICLES. JULIUS HOROWITZ, New York, N. Y., assignor to Eagle Lites, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 24, 1927. Serial No. 23,195. Term of patent 3½ years.



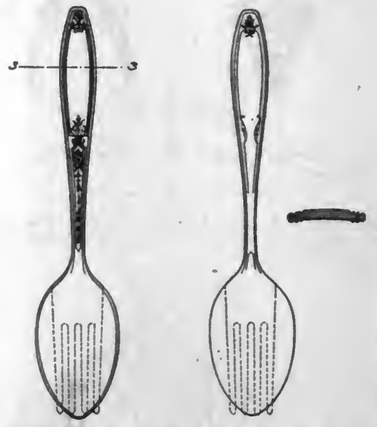
The ornamental design for a bracket plate for lighting fixtures or analogous articles substantially as shown.

74,886. LAMP BASE OR ARTICLE OF SIMILAR NATURE. WILLIAM HURSTER, Richmond Hill, N. Y., assignor to The Ovalite Company, Incorporated, a Corporation of New York. Filed Jan. 28, 1928. Serial No. 25,070. Term of patent 3½ years.



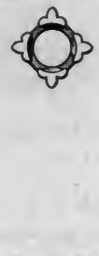
The ornamental design for a lamp base or article of similar nature substantially as shown.

74,887. SPOON OR SIMILAR ARTICLE. SIDNEY V. JAMES, Niagara Falls, N. Y., assignor to Sheets-Rockford Silver Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 25, 1927. Serial No. 20,895. Term of patent 8½ years.



The ornamental design for a spoon or similar article as shown.

74,888. JEWELRY SETTING. FRED C. JOSEPH, New York, N. Y. Filed Oct. 19, 1927. Serial No. 28,789. Term of patent 7 years.



The ornamental design for a jewelry setting, as shown.

74,889. COMBINATION CONTAINER AND PICTURE FRAME. HENRY AUGUST KRETSCHMER, La Grange Park, Ill. Filed Jan. 3, 1928. Serial No. 24,726. Term of patent 14 years.



The ornamental design for a combination container and picture frame, as shown.

74,890. FINGER RING. MAXWELL C. LANG, Indianapolis, Ind. Filed Dec. 30, 1927. Serial No. 24,699. Term of patent 3½ years.



The ornamental design for a finger ring, as shown and described.

74,891. BIRD CAGE. LEWICKI J. LEON, West Chicago, Ill. Filed Dec. 21, 1927. Serial No. 24,568. Term of patent 14 years.



The ornamental design for a bird cage, as shown.

74,892. STAKE RETAINER OR THE LIKE. MARGUERITE E. MOORE, New York, N. Y. Filed June 30, 1927. Serial No. 22,625. Term of patent 7 years.



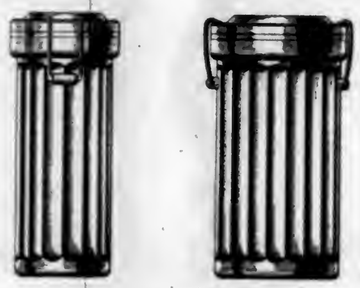
The ornamental design for a stake retainer or the like, as shown and described.

74,893. GOBLET OR SIMILAR ARTICLE. CHARLES O. NORTHWOOD, Dormont, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 16, 1927. Serial No. 24,139. Term of patent 14 years.



The ornamental design for a goblet or similar article substantially as shown and described.

74,894. OVAL JAR. CHARLES FRANKLIN ONTHANK, Newton, Mass. Filed Jan. 24, 1927. Serial No. 20,485. Term of patent 14 years.



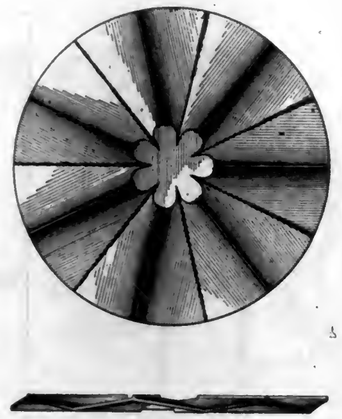
The ornamental design for an oval jar.

74,895. SIGN PLATE. CLARENCE H. ORR, Providence, R. I. Filed July 14, 1925. Serial No. 14,084. Term of patent 3½ years.



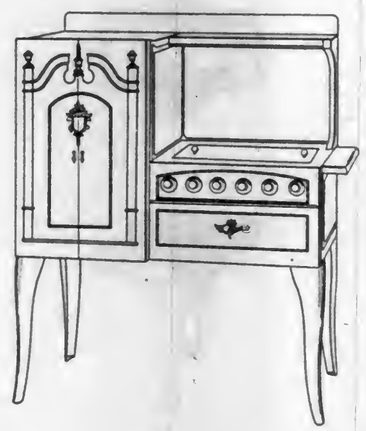
The ornamental design for a sign plate, substantially as shown.

74,896. HOT PLATE. EDMUND R. RAYBURN, Findlay, Ohio. Filed Jan. 31, 1927. Serial No. 20,555. Term of patent 7 years.



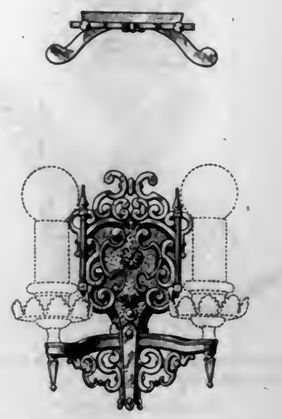
The ornamental design for a hot plate as shown.

74,897. GAS STOVE. ALFRED J. REEDY, Battle Creek, Mich., assignor to A-B Stove Company, Battle Creek, Mich. Filed Jan. 11, 1928. Serial No. 24,813. Term of patent 14 years.



The ornamental design for a gas stove, as shown.

74,898. LIGHTING-FIXTURE WALL BRACKET. THEODORE SHAPIRO, Brooklyn, N. Y., assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 23,810. Term of patent 3½ years.



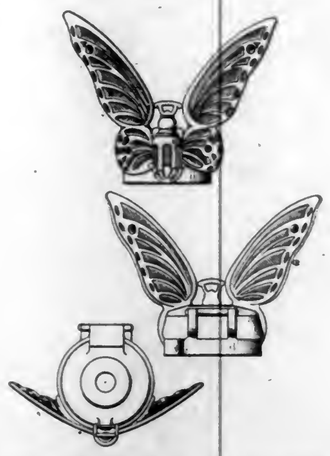
The ornamental design for a lighting fixture wall bracket as shown.

74,899. LINOLEUM FLOOR MAT. ALFRED C. SLOATE, Wynnewood, Pa., and JAMES C. WHYTE, Wenonah, N. J., assignors to Congoleum-Nairn Inc., Philadelphia, Pa., a Corporation of New York. Filed June 22, 1927. Serial No. 22,531. Term of patent 7 years.



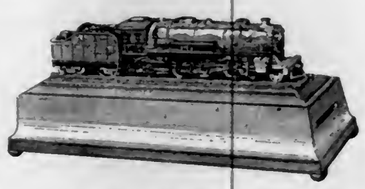
The ornamental design for a linoleum floor mat, substantially as shown.

74,900. AUTOMOBILE RADIATOR ORNAMENT. ALFRED L. SOHM, Chicago, Ill. Filed July 20, 1927. Serial No. 22,815. Term of patent 14 years.



The ornamental design for an automobile radiator ornament, substantially as shown.

74,901. COIN BANK. JOHN H. STAPP, San Francisco, Calif. Filed May 31, 1927. Serial No. 22,244. Term of patent 14 years.



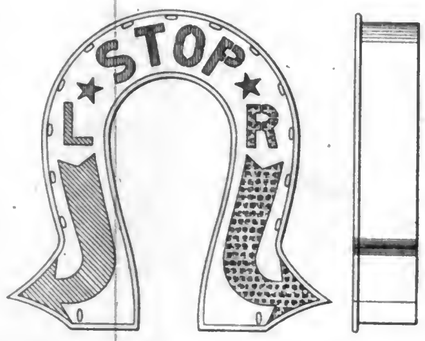
The ornamental design for a coin bank as shown.

74,902. STAND FOR AQUARIUM OR THE LIKE. BERNARD TAUMAN, Chicago, Ill. Filed Dec. 27, 1927. Serial No. 24,663. Term of patent 3½ years.



The ornamental design for a stand for aquarium or the like, as shown.

74,903. AUTOMOBILE SIGNAL. IPE A. VIERSEN, Okmulgee, Okla. Filed Jan. 10, 1928. Serial No. 24,795. Term of patent 14 years.



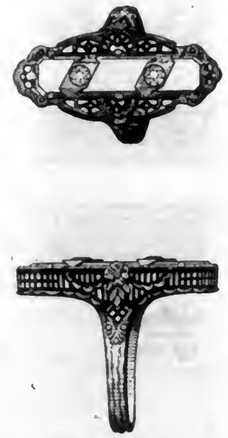
The ornamental design for an automobile signal as shown.

74,904. RING OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH J. WHITE, Providence, R. I., assignor to J. J. White Manufacturing Company, Providence, R. I. Filed Jan. 8, 1927. Serial No. 20,310. Term of patent 3½ years.



The ornamental design for a ring or similar article of manufacture, as shown.

74,905. RING OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH J. WHITE, Providence, R. I., assignor to J. J. White Manufacturing Company, Providence, R. I. Filed Jan. 8, 1927. Serial No. 20,311. Term of patent 3½ years.



The ornamental design for a ring or similar article of manufacture, as shown and described.

74,906. RING OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH J. WHITE, Providence, R. I., assignor to J. J. White Manufacturing Company, Providence, R. I. Filed Jan. 8, 1927. Serial No. 20,312. Term of patent 3½ years.



The ornamental design for a ring or similar article of manufacture, as shown.

74,907. RING OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH J. WHITE, Providence, R. I., assignor to J. J. White Manufacturing Company, Providence, R. I. Filed Jan. 8, 1927. Serial No. 20,314. Term of patent 3½ years.



The ornamental design for a ring or similar article of manufacture, as shown and described.

74,908. RING OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH J. WHITE, Providence, R. I., assignor to J. J. White Manufacturing Company, Providence, R. I. Filed Jan. 8, 1927. Serial No. 20,316. Term of patent 3½ years.



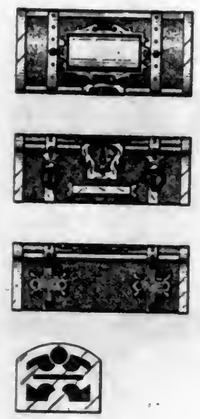
The ornamental design for a ring or similar article of manufacture, as shown and described.

74,909. RING OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH J. WHITE, Providence, R. I., assignor to J. J. White Manufacturing Company, Providence, R. I. Filed Jan. 8, 1927. Serial No. 20,318. Term of patent 3½ years.



The ornamental design for a ring or similar article of manufacture, as shown and described.

74,910. COIN BANK. DAVID H. ZELL, Brooklyn, N. Y. Filed Jan. 27, 1928. Serial No. 25,058. Term of patent 7 years.

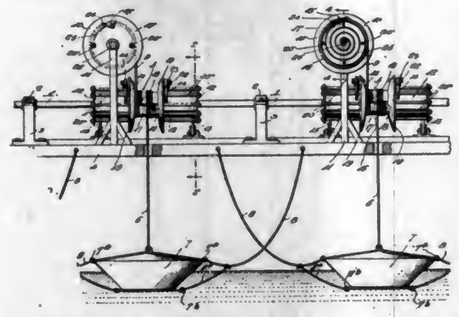


The ornamental design for a coin bank, as shown.

PATENTS

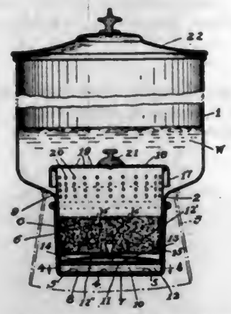
GRANTED APRIL 10, 1928.

1,665,198. WAVE MOTOR. ARTHUR J. ADAMS, Huntington Park, Calif. Filed Aug. 27, 1925. Serial No. 52,900. 2 Claims. (Cl. 253—8.)



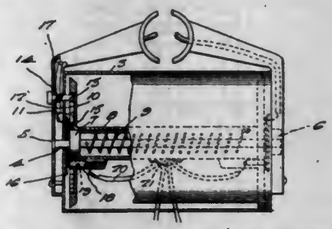
1. In a wave motor, a supporting structure, a drum rotatably mounted on said structure, a cable wound on and depending from said drum for rotating it, a float on the lower end of said cable having a relatively large diameter at its top, a comparatively small diameter at its bottom and an inwardly declined side wall from said top to said bottom, and anchoring cables connected with the supporting structure and extending radially from the float to said structure, said cables having bifurcated lower ends connected with the periphery of the float at the upper and lower edges of said side wall respectively.

1,665,199. APPARATUS FOR INFUSING AND FILTERING COFFEE, TEA, AND THE LIKE. ELMER N. BACHELDER, Portland, Me. Filed June 15, 1927. Serial No. 198,970. 3 Claims. (Cl. 53—3.)



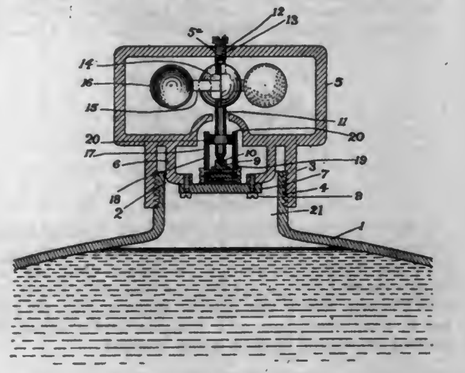
1. In apparatus of the class described, comprising a water container having a perforate bottom end, a coffee receptacle within and closely fitting the wall of said water container and having relatively large perforations in its bottom end, said bottom end being disposed in vertically spaced relation to the bottom end of said water container, a porous filtering element superjacent and completely covering the bottom end of said coffee receptacle, an upwardly-dished disc having contact with the marginal portions only of said filtering element and being provided with relatively small, closely spaced perforations over its entire dished surface, a perforate cover overlying said coffee receptacle, a weight on said cover, and a relatively deep, downwardly extending flange on said cover adapted to slidably engage and enclose the upper, cylindrical portion of said coffee receptacle.

1,665,200. CORD HOLDER FOR VACUUM CLEANERS, LAMPS, AND THE LIKE. HOWARD O. BRIGGS, Minneapolis, Minn. Filed Apr. 9, 1925. Serial No. 21,889. 1 Claim. (Cl. 173—367.)



A take up reel of the class described, including a casing, a reel rotatable in the casing, rings mounted in the casing concentrically in respect to the axis of the reel, and one at each end thereof, a pair of housings on the reel one at each end thereof, spring pressed wipers slidably mounted in the housings to engage the rings, wires engaged with the wipers, and a loop on the central portion of the reel through which the wires pass.

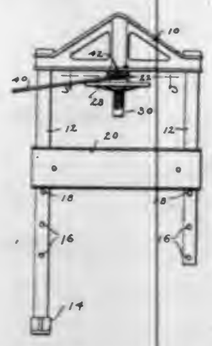
1,665,201. THERMOSTATIC BRAKE. FREDERICK N. CONNET, Providence, R. I., assignor to Builders Iron Foundry, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 4, 1927. Serial No. 159,007. 6 Claims. (Cl. 116—114.)



3. In a vehicle having a system for indicating abnormal conditions in its internal combustion engine provided with a liquid circulation cooling system for the cylinders of the engine, said cooling system including a radiator having an air space at the top thereof and an opening in the upper end thereof, a cap for said radiator opening having a hole therein, a bracket attached to said cap exterior of said radiator having an adjustable bearing point therein directly above said hole, a detachable bracket at-

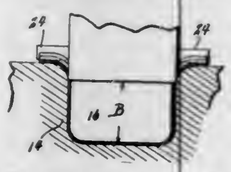
tached to said cap below the top thereof having a bearing point therein directly below said hole, a rotatable shaft mounted on said bearing points and extending through said hole having indicating blades mounted thereon above said cap adapted to cause rotation of said shaft on impingement of air thereon on normal movement of said vehicle, a brake drum mounted on said shaft within said radiator, and thermo-responsive means mounted within said air space at the top of said radiator comprising strips of metal of different selected co-efficients of expansion adapted to contract against said brake drum on excessive overheating of said radiator to stop the rotation of said shaft.

1,665,202. SCREW PRESS. ROBERT CRAIG, Dayton, Ohio. Filed May 10, 1926. Serial No. 107,910. 2 Claims. (Cl. 29—85.)



1. In a screw press, in combination, a vertical screw, a hand wheel threaded on said screw, and a lever; said wheel being provided with a rim and a plurality of openings through the wheel adjacent the rim, said lever being provided with a boss normally extending downwardly through one of said openings; said wheel and lever being so arranged that the weight of the lever tends to maintain said boss in contact with said rim for the purpose described.

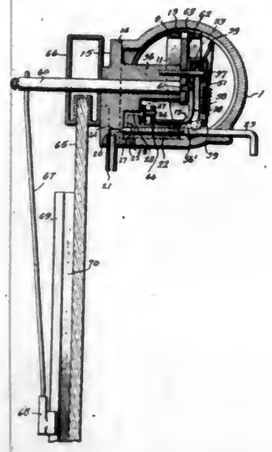
1,665,203. DIE. GEORGE A. DELP, St. Louis, Mo., assignor to Joseph Pavelka, St. Louis, Mo. Filed Feb. 26, 1926. Serial No. 90,818. 4 Claims. (Cl. 113—42.)



1. In a die the combination of a die member having an outwarly curved mouth, a punch member having a marginal shoulder adapted to cooperate with the outwardly curved side wall portions of said die member and fitting snugly within the straight walls of said die member to trim the flanges of a stamped article during the forming movement of said punch member.

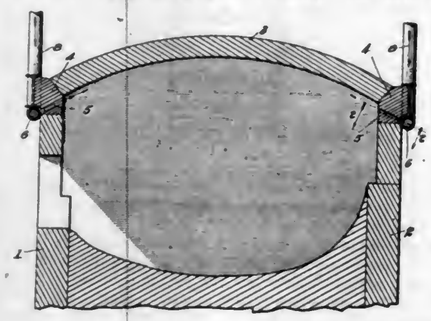
1,665,204. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 29, 1923. Serial No. 671,493. 10 Claims. (Cl. 121—164.)

2. In a windshield cleaner, a cylinder provided with a relatively large opening intermediate its ends, the wall of the cylinder being extended to form flat faces, conduits extending from said opening to the opposite ends of the cylinder and arranged outwardly of said faces, the ends of said conduits being beveled, and a closure plate arranged over said opening, said closure plate being provided with passages aligning with said conduit, and being further provided with beveled portions contacting with the beveled ends of said conduits.



10. In a fluid pressure motor for windshield cleaners, a motor including a casing, a piston operable in the casing, a gear element fixed on said shaft and having an opening therein, said element being operatively connected and driven by the piston for operating the rock shaft, a pivot member secured to said casing and projecting freely through the opening of said element whereby the latter may oscillate uninterrupted by said pivot members, and automatic valve mechanism for operatively admitting fluid pressure to the motor, said valve mechanism including a lever pivoted on said pivot member, said gear element being guidingly interposed between said casing part and said valve mechanism lever, a second pivotally mounted lever, a spring connecting the two levers and movable under tension by one lever to opposite sides of the pivot member for effecting movement of the other lever, and a valve operable by the latter lever, said former lever being operable by and during movement of the piston.

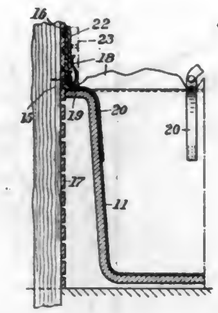
1,665,205. MEANS FOR COOLING BRICKWORK OF FURNACES. ALPHID E. GETZ, Peoria, Ill. Filed Mar. 27, 1926. Serial No. 97,942. 2 Claims. (Cl. 263—44.)



1. A furnace, certain of the walls of which are provided with air ducts in proximity to the roof and inclined towards the same, and means for supplying relatively

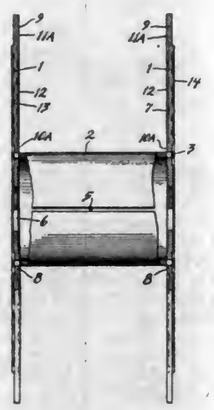
cold air to said air ducts, the latter, due to their inclination, adapted to discharge such air as to cause it to travel interiorly over a part of such walls and roof surface.

1,665,206. PROTECTIVE COVERING FOR BATHTUBS AND METHOD OF UTILIZING THE SAME. ROBERT E. HENRY, Pittsburgh, Pa. Filed Nov. 29, 1926. Serial No. 151,525. 6 Claims. (Cl. 72—18.)



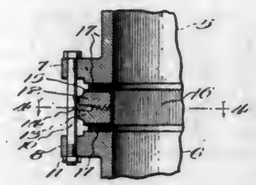
1. The method of tiling-in rimmed bath tubs having flexible liners provided with tape-like extensions, which comprises securing said tapes to the wall against which the tub is to be tiled, exposing the rim at the edge of the cover, and tiling against the rim.

1,665,207. PHOTOGRAPHIC-FILM REEL AND PROCESS OF MANUFACTURING THE SAME. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1927. Serial No. 184,009. 20 Claims. (Cl. 242—71.)



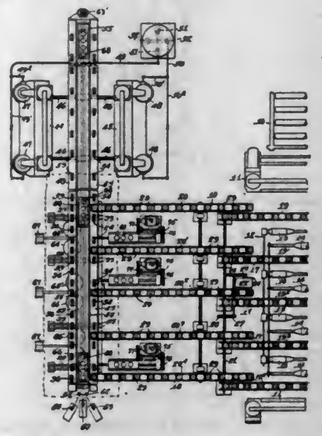
18. As an article of manufacture, a film reel assembled from two flange plates and a spacing hub therebetween, said flange plates having the inside faces of central portions outwardly adjacent the hub and marginal portions thereof disposed inwardly of the inside faces of the portions of the flange plates between said central and marginal portions.

1,665,208. PIPE JOINT. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 15, 1925. Serial No. 37,123. 2 Claims. (Cl. 288—1.)



1. A joint packing adapted for use in connecting lengths of tubing through which a heated medium is passed comprising relatively movable interengaging annular rings, a corrugated annular gasket enclosing portions of the rings, the corrugations in the gasket being adapted to take up movement of the joint.

1,665,209. TRANSFER SYSTEM FOR HEAVY METAL PLATES. CHARLES L. HUSTON, Coatesville, Pa. Filed Feb. 2, 1923. Serial No. 616,563. 52 Claims. (Cl. 164—49.)

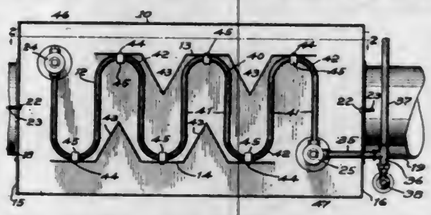


1. The method of handling and shearing a sheet of heavy plate using a conveyor and oppositely facing heavy duty vertical movable shears which consists in centering and aligning the plate in position to be engaged by the conveyor, engaging and holding it by the conveyor at a plurality of points and feeding it between the shears spaced to the desired distance to operate concurrently on both sides of the plate, operating upon the plate concurrently by the shears while the conveyor maintains its hold upon the plate to maintain alignment and successively advancing the plate by the conveyor and operating upon it by the shears.

1,665,210. WATER HEATER. LAWRENCE E. JOHNSON, Melrose, Mass., assignor of one-half to Boston Machine Works Company, Lynn, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1927. Serial No. 174,931. 4 Claims. (Cl. 122—20.)

1. A stack water heater comprising a casing adapted to be interposed between sections of the smoke pipe of a heater, having inlet and outlet openings for connection with said sections, spaced baffle plates within the casing arranged to provide a tortuous passage between them for

the flue gases, said plates being also spaced inwardly from the walls of the casing and constructed and arranged to provide an uninterrupted passage adjacent said



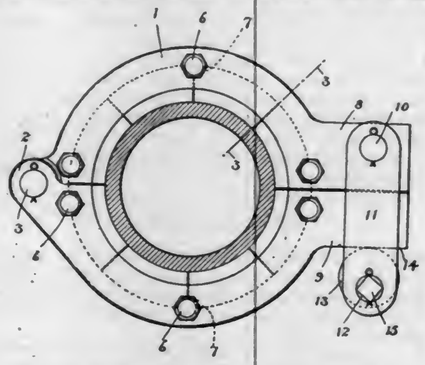
tortuous passage from one of said pipe sections to the other, and a water distributing coil arranged within said tortuous passage and having inlet and outlet terminals accessible from the exterior of the casing.

1,665,211. SOUND-NEUTRALIZING VENTILATOR. AUBREY M. KENNEDY, New York, N. Y. Filed Jan. 20, 1926. Serial No. 82,418. 1 Claim. (Cl. 98—99.)



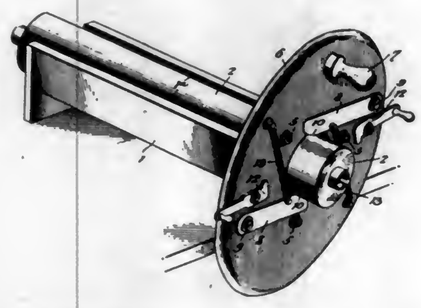
As a new article of manufacture, a device for permitting the passage of air from one point to another whilst neutralizing sound waves accompanying the same, which consists of a casing, an inlet at one face of the casing and an outlet at another face thereof, and a plurality of deflecting walls intermediate the inlet and outlet, each wall having an overhanging curved extension, the curvature being directed toward the inlet, and the deflecting walls being alternately opposed in the curvature of their extensions, as and for the purpose set forth.

1,665,212. PIPE CUTTER. CHARLES H. LA MOTTE, South Porcupine, Ontario, Canada. Filed June 21, 1926. Serial No. 117,420. 5 Claims. (Cl. 81—187.)



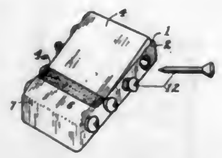
1. A pipe cutter comprising a pipe-encircling member of circular form, means for constricting said member around a pipe, and sharp blades carried by said encircling member adapted upon the constriction of the latter member to present a circumferential edge in rigid contact continuous with the periphery of the pipe.

1,665,213. CUTTING MACHINE. LAWRENCE EDWARD LENTZ, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Apr. 30, 1923. Serial No. 635,662. 3 Claims. (Cl. 164—60.)



1. A cutting machine including a work holding trough, a circular track secured at one end thereof, and a cutting head having a central opening and provided at one side with flanged guide rollers engaging the circular track and, at the opposite side, with spring urged cutting blades pivoted at their outer ends and having their inner ends located in diametrical opposition to the center of the head and formed with terminal cutting edges disposed at an angle with respect to the blades.

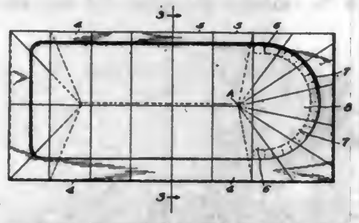
1,665,214. RECEPTACLE FOR GOLF-PLAYERS' ACCESSORIES. EDWARD J. MCGRAW, Saginaw, Mich. Filed Apr. 18, 1927. Serial No. 184,483. 4 Claims. (Cl. 206—38.)



1. A container of the class described comprising a body formed with holes to receive tees, a face of said body provided at one end with a pocket having an outer wall of flexible material, the inner face of said wall provided with a marginal rib thinner at the side edges of said pocket, stop pieces within the pocket adjacent its side walls, the edge walls of said container formed with tee-receiving holes, each hole providing an air space along a tee received therein, the inner end of each hole of substantially rectangular cross section adapted to releasably hold the tapered end of said tee when wedged therein, for the purposes set forth.

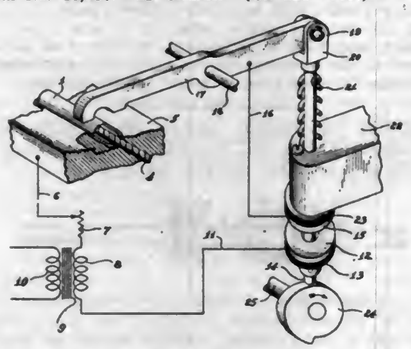
1,665,215. MEANS FOR PROTECTING PORCELAIN AND ENAMELED WARE. THEODOR H. MITTENDORF, Chicago, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a Corporation of Illinois. Filed June 14, 1926. Serial No. 115,728. 2 Claims. (Cl. 4—173.)

1. In a protective covering for porcelain fixtures, the combination of a fixture with a plurality of relatively narrow strips of unsized paper covering parts having curvature in one direction and a plurality of narrow strips of unsized paper of triangular form covering parts



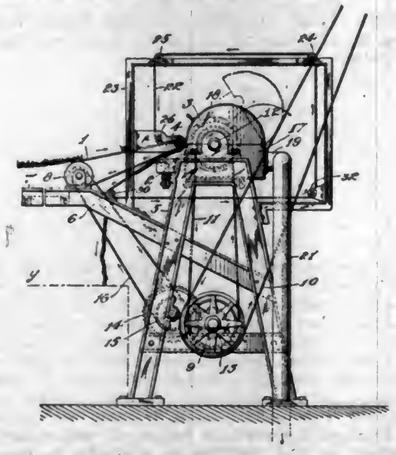
having curvature in more than one direction, and a layer of adhesive soluble in water, securing said strips to said fixture.

1,665,216. METHOD OF MAKING NEEDLE-AND-SUTURE ASSEMBLY. HARRY D. MORTON and MORGAN PARKER, New York, N. Y. Filed July 30, 1925. Serial No. 46,937. 12 Claims. (Cl. 128—339.)



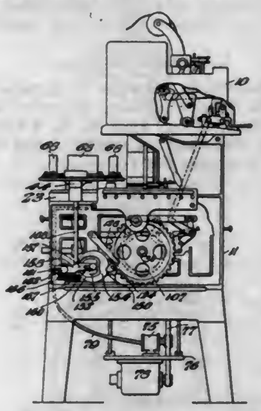
1. The method of attaching a suture to a needle which consists in forming in said needle a recess constricted in diameter near the opening thereof, inserting an end of the suture in said recess and applying heat to the wall of said recess, whereby the inserted portion of said suture is expanded.

1,665,217. FUR-SHEARING MACHINE. MORRIS S. NEWMAN, Middletown, N. Y. Filed Dec. 22, 1924. Serial No. 757,458. 5 Claims. (Cl. 149—26.)



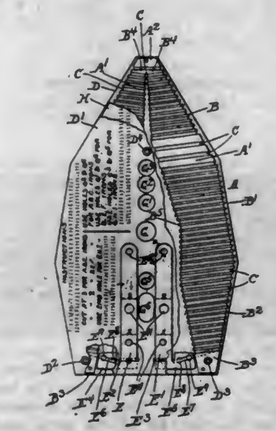
1. In a fur shearing machine, the combination with shearing knives and an endless conveyor having a portion over which a skin is run in downward direction and sharply bent for presentation to said knives, of spaced cords extending longitudinally of said conveyor over said portion and having portions extending backwardly above and forwardly below the same, upper and lower rollers pressing said cords at the outer ends of their said portions against said conveyor at yieldable points of the conveyor, both said rollers engaging a skin as it is sheared and holding the cords against the skin and the skin against the conveyor, and means for driving the said conveyor.

1,665,218. FEEDING MECHANISM FOR TABULATING MACHINES. JAMES POWERS, Los Angeles, Calif., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Original application filed Oct. 16, 1924, Serial No. 743,940. Divided and this application filed May 11, 1925. Serial No. 29,470. 20 Claims. (Cl. 271—44.)



1. In combination, a magazine for holding groups of cards, a feeding means for feeding the respective cards of each group from said magazine, and means associated with said magazine for delaying co-operation of said feeding means with the group next succeeding the group being fed, whereby an interruption of feeding automatically takes place between groups.

1,665,219. HEATING ELEMENT FOR ELECTRIC IRONS. WILLIAM A. RANKIN, Rochester, N. Y. Filed May 19, 1923. Serial No. 640,017. 7 Claims. (Cl. 219—25.)



1. A heating element for electric irons comprising a plurality of flat, resistance coils, and converging sup-

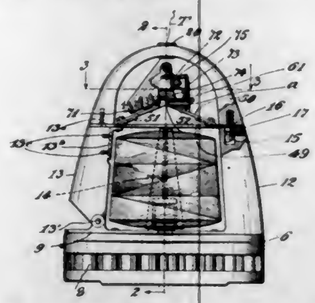
porting elements therefor, a plurality of heat resistant, insulating plates inclosing said coils, contact elements for said coils, said plates being penetrated along the central axis of the heating element by a plurality of circular, substantially tangential apertures.

1,665,220. LUMBER-STAMPING DEVICE. JACOB J. REITMER, Lufkin, Tex. Filed May 8, 1926. Serial No. 107,766. 9 Claims. (Cl. 101—4.)



1. A device for stamping lumber comprising a body, a rod extending through said body, a stamp on the forward end of the body, a cylinder on the rear end of the rod forming a hammer slidable against the end of the body to force the same against an object being stamped, and spring means for maintaining the rod in retracted position relative to the body, substantially as set forth.

1,665,221. SHUTTLE. EDWARD C. RICHARD and HARGRAVES GILL, Westboro, Mass., assignors to Westboro Weaving Company, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1924. Serial No. 734,366. 9 Claims. (Cl. 139—201.)



1. A shuttle having a tensioning device and also a take-up device comprising an arm having a plurality of thread-engaging loops, a shaft on which said arm is mounted, a pinion on said shaft, and a spring actuated sector engaging said pinion.

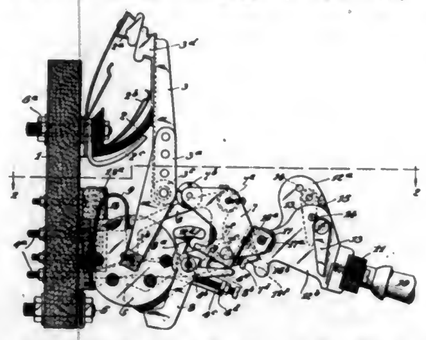
1,665,222. ROOFING ELEMENT AND PROCESS OF MAKING SAME. THOMAS ROBINSON, Babylon, N. Y., assignor to Anaconda Sales Company, a Corporation of Delaware. Filed July 19, 1923. Serial No. 652,563. 4 Claims. (Cl. 154—2.)



1. A roofing element comprising the combination of a base of a hardened plastic material, a layer of granular material embedded into one surface of the base and producing irregularities over that surface, and a preformed coating of a malleable metal adhering directly to the granular layer and conforming to the irregularities, the said coating of metal to extending into the interstices between the particles of the granular coating.

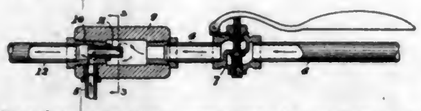
3. In a process of preparing roofing elements of the class described, the steps of partially embedding a layer of crushed slate in the surface of a base formed of a hardened plastic material, placing a preformed layer of copper upon the base, and subjecting the base and the layer to pressure to cause the metal to enter the interstices between the particles of the layer and thus conform to the irregularities of the surface of the base.

1,665,223. CIRCUIT BREAKER. FRANK W. ROLLER, East Orange, N. J., assignor to Roller-Smith Company, a Corporation of New York. Filed Oct. 24, 1924. Serial No. 745,556. 12 Claims. (Cl. 200—107.)



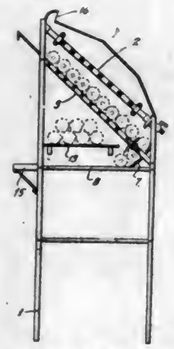
1. A circuit breaker comprising a plurality of separately closable and separately openable poles, a controlling element, and means controlled by said element for closing said poles successively by movement of said element in one direction and for opening said poles by movement of said element in the reverse direction.

1,665,224. SPRAYING APPARATUS. CLARENCE G. SHIELDS, Floreffe, Pa. Filed Apr. 17, 1926. Serial No. 102,676. 1 Claim. (Cl. 299—140.)



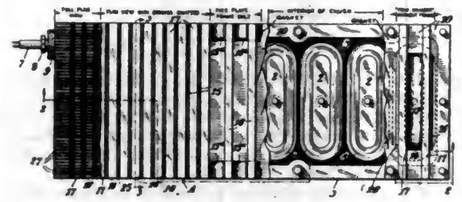
Spraying apparatus comprising a chambered block, an air pressure conduit extending into said block at one end, a spray chamber disposed within the block at the other end and having screw-threaded connection with the wall of the latter-named end, so as to be removable therefrom, a spray pipe communicating with the forward end of said chamber, an air nozzle disposed within said block and extending into the other end of said chamber, and a liquid inlet communicating with the said chamber at a point approximately mid-way of its ends, through openings in the side wall of said block and the adjacent wall of the chamber, the air nozzle being supported by and removable with the said spray chamber.

1,665,225. CORN ROASTER. WENDEL ŠIMEK, Guttenberg, N. J. Filed Dec. 20, 1926. Serial No. 155,816. 4 Claims. (Cl. 53—5.)



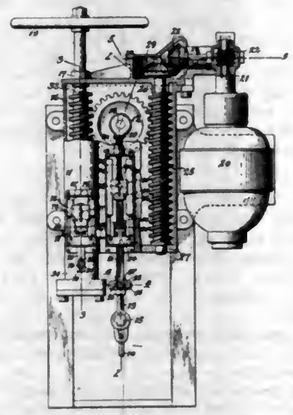
1. In a corn roaster, a source of radiant heat, a stationary inclined platform in proximity to the said source of radiant heat so constructed as to engage the corn and cause it to roll as it gravitates down the platform, and means disposed near the lower end of the platform in the path of the rolling corn and actuated by the weight of the corn coming in contact therewith and thereby given a step by step movement.

1,665,226. MAGNETIC CHUCK. FRANK L. SIMMONS, Woonsocket, R. I., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Jan. 10, 1927. Serial No. 160,267. 17 Claims. (Cl. 175—367.)



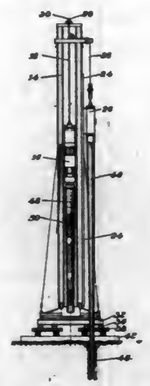
1. A pole member for magnetic chuck face plates comprising a base portion having a plane surface adapted to cooperate with a chuck core; a pair of separated edgewise positioned bar-like pole pieces extending upwardly from said portion, the upper edges of said pole pieces being formed into surfaces adapted to form pole faces in the work face of a face plate; and laterally projecting means to form an interlock with material molded about the pole member.

1,665,227. ELECTRIC BRAKE-OPERATING MECHANISM. CHARLES E. B. SMITH, Buffalo, N. Y., assignor, by mesne assignments, to John H. Weidemiller, Buffalo, N. Y. Filed Nov. 5, 1921, Serial No. 513,179. Renewed Sept. 10, 1927. 13 Claims. (Cl. 188—107.)



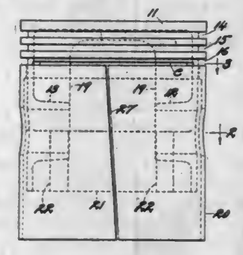
1. An electric brake mechanism comprising an electric motor adapted to be operatively connected with a brake rigging, a main electric circuit which includes said motor and a magnetic switch having an operating coil, a shunt circuit around said motor which includes said operating coil and a hand operated switch, and a shunt circuit around said operating coil and containing a limit switch which is responsive to the pressure of applying the brakes and operates to short circuit said coil and stop the motor when a predetermined brake pressure is reached.

1,665,228. METHOD OF DRIVING COMPOSITE PILES. HERMAN R. SMITH, Douglaston, N. Y., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 30, 1926. Serial No. 98,441. 12 Claims. (Cl. 61—76.)



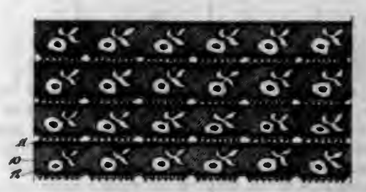
1. In an apparatus for forming and driving a composite pile, in combination, a plurality of hammers and means to align any of said hammers with the pile.

1,665,229. PISTON. GEORGE A. TAYLOR, Boston, Mass. Filed June 17, 1922. Serial No. 569,104. 5 Claims. (Cl. 74—108.)



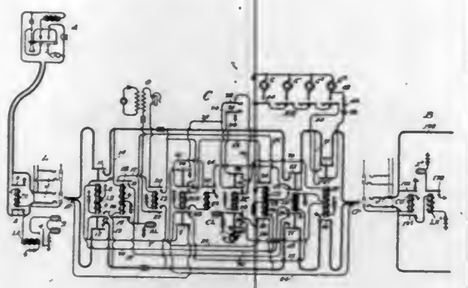
1. A piston having a head, and a flexible rib suspended from the head and supporting a skirt extending upwardly therefrom and spaced from said head.

1,665,230. LACE WEB AND PROCESS OF MAKING THE SAME. JOHN SPALDING, Stamford, Conn., assignor to Albert T. Otto & Sons, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1926. Serial No. 82,185. 11 Claims. (Cl. 96—24.)



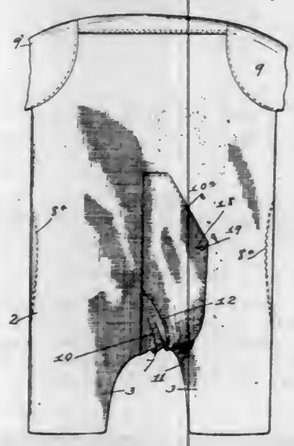
8. A lace web including a plurality of flat lace strips connected together edge to edge by draw strings, the draw strings being formed of cellulose acetate.

1,665,231. TELEPHONE SYSTEM. MICHAEL B. STAZAK, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1924. Serial No. 746,458. 14 Claims. (Cl. 179—41.)



1. A telephone system including a calling subscriber's line and a called subscriber's line, a cord circuit and a two-way trunk circuit for connecting said lines, disconnect means for automatically disconnecting said cord circuit from the trunk circuit, recall means in said trunk circuit controlled by the called subscriber, and trunk operator controlled means for releasing said recall means permitting the operation of a signal associated with said trunk circuit to signal the operator associated with said cord circuit.

1,665,232. GARMENT. LILLIAN FORD TRAVER, Sand Lake, N. Y. Filed Oct. 5, 1926. Serial No. 139,649. 3 Claims. (Cl. 2—78.)



1. In combination with a bifurcated garment having a crotch opening extending upwardly to front and rear points substantially above the crotch, a rear edge of said opening running downwardly on a straight line from said rear point, and the continuing front edge running upwardly to said front point, a gusset comprising a main portion extending throughout said opening and secured at said front and rear points, and a triangular supplementary portion adjacent the front extremity of the latter, the intersecting edges of said portions forming a reentrant angle, said last named edges being secured to said rear edge of the garment opening to cause a gathering of the gusset at the crotch, the remaining edge of said supplementary portion being secured to said front edge of the garment opening.

1,665,233. PROCESS FOR MAKING FURFURAL RESINS. JOHN P. TRICKEY, Evanston, and CARL S. MINER, Chicago, Ill., assignors to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed May 26, 1924, Serial No. 715,816. Renewed Feb. 27, 1928. 6 Claims. (Cl. 260—2.)

2. The process of obtaining a resinous substance which comprises treating furfural with a metallic salt that serves as a catalyst for the reaction.

1,665,234. PROCESS FOR MAKING FURFURAL RESINS. JOHN P. TRICKEY, Evanston, and CARL S. MINER, Chicago, Ill., assignors to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed May 26, 1924, Serial No. 715,816. Renewed Feb. 27, 1928. 6 Claims. (Cl. 260—2.)

2. The process of obtaining a resinous substance which comprises treating furfural with a metal that serves as a catalyst for this reaction.

1,665,235. FURFURALCOHOL RESINS. JOHN P. TRICKEY, Evanston, and CARL S. MINER, Chicago, Ill., assignors to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed May 31, 1924. Serial No. 716,951. 7 Claims. (Cl. 260—2.)

1. A resinous substance comprising the final substantially infusible and insoluble reaction product of furfuralcohol alone.

1,665,236. PROCESS FOR OBTAINING FURANE DERIVATIVES. JOHN P. TRICKEY, Evanston, and CARL S. MINER, Chicago, Ill., assignors to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed July 5, 1924, Serial No. 724,428. Renewed Feb. 27, 1928. 14 Claims. (Cl. 260—2.)

1. The process of obtaining furane derivatives which comprises mixing furfural and an alkali in a manner whereby furfuralcohol and a salt of pyromucic acid are produced, and then adding a quantity of an acid sufficient to liberate substantially all of the pyromucic acid and to cause resinification in situ of the alcohol when the mixture is heated.

1,665,237. COMPOUND RESINOUS SUBSTANCE AND PROCESS OF MAKING SAME. JOHN P. TRICKEY, Evanston, and CARL S. MINER, Chicago, Ill., assignors to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 23, 1924, Serial No. 733,762. Renewed Feb. 27, 1928. 19 Claims. (Cl. 260—2.)

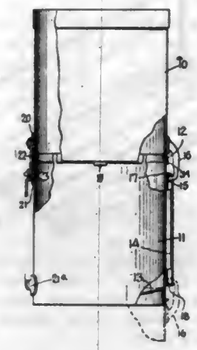
4. The compound resinous reaction product of a mixture of an alcoholic furane derivative and an aldehydic furane derivative.

17. The process of obtaining a compound resin which comprises subjecting a solution of a plurality of furane derivatives to catalysis, said furane derivatives severally and of themselves being capable of producing by themselves dissimilar resinous reaction products.

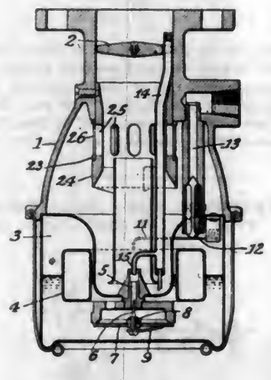
1,665,238. CONTAINER. LOUIS TURAN, Brooklyn, N. Y. Filed Apr. 12, 1926. Serial No. 101,266. 5 Claims. (Cl. 220—4.)

1. A container of the class described comprising two parts of substantially the same dimensions throughout, means for coupling said parts together and permitting of relative movement of the parts one upon the other

whereby a normal top part may be moved into position to assume a bottom part of the complete device, means for securing the separate parts together against displacement in the several positions thereof, one of said parts having a transverse wall and the movable coupling of the several parts being of universal joint construction.



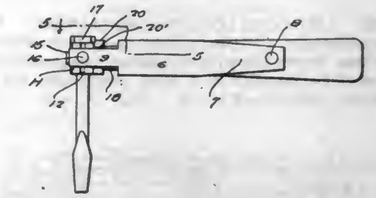
1,665,239. CARBURETOR. CHARLES F. WALLACE, Westfield, N. J., assignor to Wallace & Tiernan Co., Inc., Belleville, N. J., a Corporation of New York. Filed Mar. 15, 1922. Serial No. 543,996. 8 Claims. (Cl. 261—63.)



1. In a carburetor, a throttle, a means for regulating the ratio of fuel and air, comprising, in combination, a cylinder connected with the vacuum space above the throttle, a piston therein, two springs of different tension adapted to be successively compressed by the piston, and an air damper controlled by said piston for varying the proportion of air in the charges according to the vacuum which controls the position of said piston.

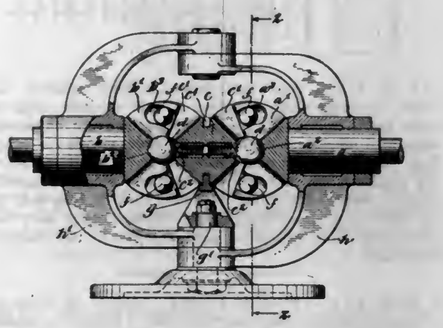
1,665,240. SCREW DRIVER. WILLIAM D. WEAVER, Hillsville, Pa. Filed Dec. 23, 1926. Serial No. 156,634. 2 Claims. (Cl. 145—71.)

1. A tool of the class described including a handle having a tubular extension terminating in a pair of spaced parallel arms, a tool shank having a cylindrical head at one end, said head being formed with an annular groove intermediate its ends and longitudinally extending grooves forming teeth and a tongue extending from the extremity thereof, a frame rotatable in the annular groove, means for pivoting the frame between the arms, a spring pressed plunger in the tubular extension and



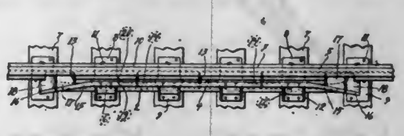
formed with a head having a groove to receive the tongue and a ratchet tooth for association with the teeth of the head of the shank.

1,665,241. UNIVERSAL JOINT. CARL W. WEISS, Brooklyn, N. Y. Filed Feb. 18, 1927. Serial No. 169,152. 4 Claims. (Cl. 64—91.)



1. A universal joint having two main members capable of relative angular displacement, an intermediate member also capable of relative angular displacement, the said several members having coacting portions with their proximate faces formed with non-concentric grooves with their longitudinal axes intersecting at an angle, a relatively movable body received partly in each groove of each pair and through which force is transmitted from one member to another, and means to support the intermediate member in operative relation with the two main members with freedom for angular displacement.

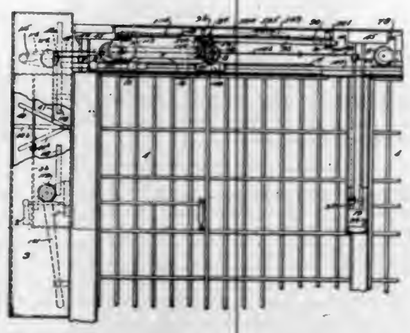
1,665,242. TRACK GUARD RAIL. JAY V. WESCOTT, Chicago, Ill., assignor to Du-Wel Steel Products Co., Chicago, Ill., a Corporation of Illinois. Filed July 29, 1926. Serial No. 125,653. 8 Claims. (Cl. 238—19.)



1. In a track guard rail, in combination, a body portion of angle cross section, one leg of said angle section forming a base and the other leg extending upwardly from the base, said base having longitudinally spaced portions downwardly offset from the intervening portions of the base for engagement with respective ties of a track structure and extended laterally to underlie a traffic rail of the track structure, said downwardly

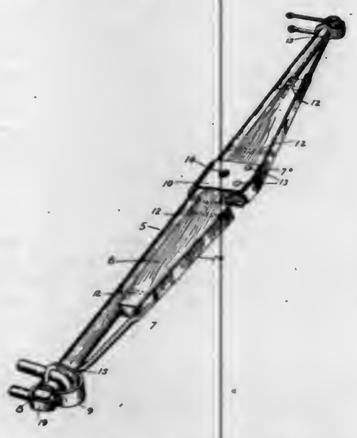
offset portions being widened at the outer edges of said intervening portions and outwardly beyond the same and said intervening portions merging with said widened portions.

1,665,243. JAIL-DOOR-LOCKING MECHANISM. JOHN T. WHITEHOUSE, Cleveland, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1926. Serial No. 114,722. 8 Claims. (Cl. 189—7.)



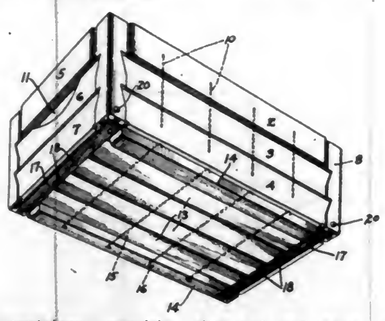
1. In a jail door mechanism, a door slidable on a track, a reciprocable member, a bolt movable with said door and adapted for separate movement to engagement with said member for sliding said door, means for controlling the engagement of said bolt with said member in all positions of said door, a pair of detents adapted to engage members movable with said door to lock said door in fully open or closed position thereof, said door being releasable from either of said detents by movement of said bolt.

1,665,244. WHIFFLETREE. JAMES E. WILLIAMS, Denver, Colo. Filed May 10, 1926. Serial No. 108,069. 3 Claims. (Cl. 278—93.)



1. A whiffle tree comprising a hollow bar apertured adjacent its ends, a brace-block engaging the bar, a truss-rod engaging the brace-block and extending through the apertures and the ends of the bar, the bar, the block and the truss-rod being fastened together and the block having a central opening, nuts on the ends of the truss-rod, and U-shaped guard-pieces secured by the nuts and having alined openings to receive the end portions of the bar and the rod, the outer legs of the guard-pieces being extended and bent over the respective nuts.

1,665,245. CRATE. CHARLES A. WOOLSEY, Minneapolis, Minn. Filed Jan. 20, 1925. Serial No. 5,501. 10 Claims. (Cl. 217—36.)



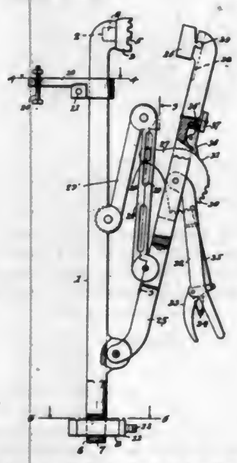
1. A container comprising side and end walls, rails having seats for the ends of the bottom of the container, and means extending across said container and mounted in the side walls thereof outside the end walls and supporting said rails.

1,665,246. ELECTRICAL CONNECTION AND METHOD OF MAKING THE SAME. HARVEY L. YOUNG, Akron, Ohio, assignor to John R. Gammeter, Akron, Ohio. Filed Mar. 9, 1925. Serial No. 13,936. 10 Claims. (Cl. 173—259.)



1. A member of an electrical connection comprising an insulated wire having the end portion thereof bared, the insulation being a soft-rubber sheath on the wire, and a binding fixed on the sheath near the end thereof, leaving a portion adapted to be enlarged by longitudinal compression between the extremity of the sheath and the binding.

1,665,247. LEVERAGE VISE. HUGH YOUNG, Mirando City, Tex. Filed Mar. 30, 1927. Serial No. 179,611. 8 Claims. (Cl. 81—25.)



1. A vise comprising a standard, an arm pivoted thereto, links pivotally connected together at their inner ends

and pivotally connected at their outer ends with the standard and the arm respectively, and a lever mechanism mounted upon the arm and operatively engaging the links to swing the same with relation to each other.

1,665,248. QUAD BLOCK FOR SLUG-CASTING MACHINES. ALFRED ARCHER, Caldwell, N. J., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Oct. 6, 1926. Serial No. 139,791. 8 Claims. (Cl. 199—66.)

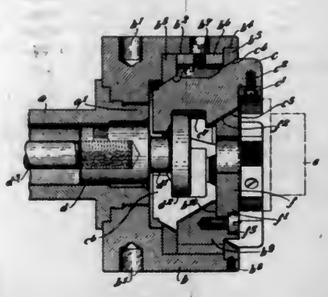


1. A quad block for producing a ruled form, comprising a series of independent matrix sections, a series of independent blank spacing sections, and a binding strip for holding the sections together as a unit.

1,665,249. DRY SEPARATING TABLE. RAY W. ARMS, Chicago, Ill., assignor to Roberts and Shaefer Company, Chicago, Ill., a Corporation of Illinois. Filed May 1, 1924. Serial No. 710,219. 2 Claims. (Cl. 209—467.)

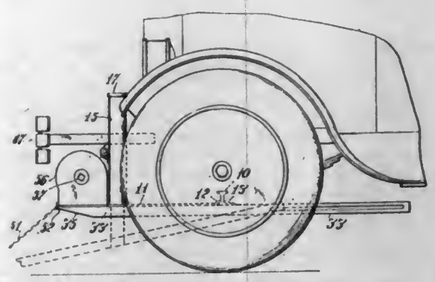
1. In an air cleaning table, a material supporting deck, having an irregularly shaped air pervious surface, means for feeding a continuous supply of fragmentary material thereto, and means for vibrating the deck to feed such material thereacross in a continuous flowing sheet, means for feeding a blast of air upwardly through the deck and the bed of material thereon, comprising an air supply pipe located and terminating below the deck, a fixed, rigid funnel leading from the discharge end of the pipe upwardly toward the under side of the deck and expanding gradually from general conformity with the supply pipe to accurate conformity with the size and shape of the pervious surface of the deck in a plane immediately below the deck, a bellows joining the extreme upper end of the funnel and the pervious portion of the deck, the body of the bellows being substantially parallel at all points with the path of air flow from the funnel end to the deck.

1,665,250. SPRING COLLET CHUCK. EARL F. ATKINS, Plainfield, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 10, 1927. Serial No. 190,329. 7 Claims. (Cl. 279—58.)



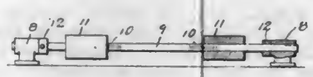
2. A collet chuck comprising a shell, a jaw movably carried to the shell, means to move the jaw axially with respect to the shell, removable cam rings on the interior of the shell, a spacer ring therebetween, and co-operating cam surfaces on the exterior of the jaw for moving the jaw into engagement with the work in its axial movement.

1,665,251. SAFETY FENDER. HELMUTH BRUSCH, Chicago, Ill. Filed May 28, 1927. Serial No. 195,010. 5 Claims. (Cl. 293—25.)



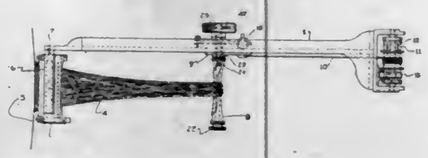
1. In a device of the class described a strip of fabric, a roller arranged at the front end of the automobile, and extending crosswise thereof said roller being rotatably supported the fabric being attached with one of its edges to said roller and adapted to be rolled up on said roller, a rod fastened to the front edge of the fabric, a pair of sliding members supported by the front axle of the automobile, said rod being fastened to the forward end of said sliding members and means for imparting to said sliding members a forward and downward movement.

1,665,252. MISALIGNMENT INDICATOR FOR WHEELS. HOMER A. BUCKERT, St. Louis, and EARL K. HALL, University City, Mo. Filed June 1, 1926. Serial No. 112,842. 6 Claims. (Cl. 33—203.)



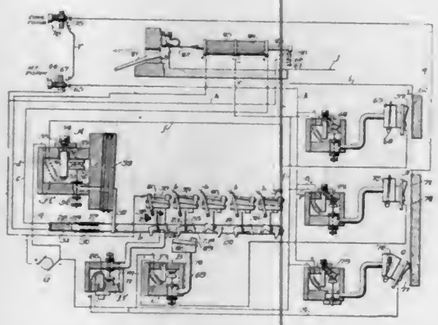
1. A misalignment indicator comprising a shaft, a rotatable cylindrical member mounted thereon, said member adapted to have movement in the direction of its axis of rotation on said shaft imparted thereto by the thrust of a misaligned wheel.

1,665,253. PERMANENT-WAVE APPARATUS. AMBROSE L. BURLESON, Berkeley, and NICHOLAS P. SAMANTAS, San Francisco, Calif. Filed July 20, 1927. Serial No. 207,247. 18 Claims. (Cl. 132—36.)



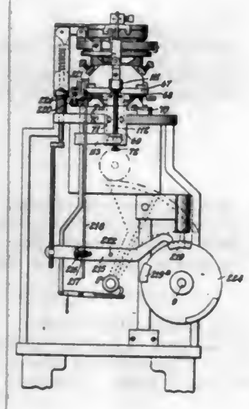
1. Hair waving apparatus comprising a device adapted to clamp a strand of hair adjacent the scalp, a member upon which the hair is adapted to be wound, and means for tensioning the hair strand between said device and said member while winding the hair upon the member.

1,665,254. ELECTROPNEUMATIC COMBINATION STOP ACTION FOR ORGANS. GEORGE H. CHAPMAN, Chicago, Ill. Filed June 13, 1927. Serial No. 198,355. 12 Claims. (Cl. 84—345.)



2. In a combination stop action for organs, the combination of a group of endwise movable trace-bars, selective means for moving said trace-bars, a pair of conductors on, and extending lengthwise of, each of said trace-bars, switch-jacks pivoted on said trace-bar adapted when tilted, to make contact with one or the other of said conductors, "on" and "off" magnets for the stop-keys having their windings respectively wired to said conductors, switch-jack setters disposed crosswise of said trace-bars, selective means for actuating said setters, and selective means for opening and closing electric circuits through transverse rows of switch-jacks.

1,665,255. CIRCULAR-KNITTING MACHINE. HAMILTON LEE DAVIS, Martinsburg, W. Va., assignor to The Interwoven Mills, Inc., New Brunswick, N. J., a Corporation of New Jersey. Filed Sept. 30, 1925. Serial No. 59,470. 9 Claims. (Cl. 66—54.)



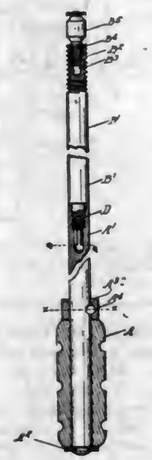
9. In a circular stocking knitting machine, the combination with vertically movable secondary knitting cams, means for elevating the cams and adjustable means for arresting the descent of the cams to determine the size of the stitch drawn thereby, of mechanism for positively drawing down said cams at a predetermined point in the cycle of the operation of the machine into contact with said arresting means, and means included in said mechanism for yieldingly accommodating the adjustment of said arresting means.

1,665,256. COMBINATION HOLDER AND GUARD FOR TOOLS. FREDERICK GOERTZ and WILLIAM C. ROTHE, Newark, N. J., assignors to August Goertz & Co., a Corporation of New Jersey. Filed Dec. 27, 1924. Serial No. 758,402. 2 Claims. (Cl. 30—9.)



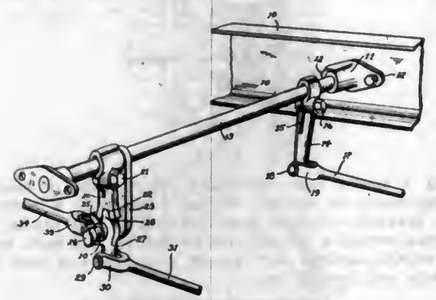
1. The herein-described tool, comprising a flat main body formed with longitudinally extending marginal walls and guide flanges extending laterally inward from said walls, an inclined transverse member between the outer ends of said flanges, said member inclining toward said underlying main body to provide at the free end portion of the latter a wedge-shaped opening, a blade movably disposed intermediate said main body and its guide flanges and between said marginal walls, said blade being adapted to be outwardly projected through said wedge-shaped opening, and a clamping slide longitudinally movable in said main body to cooperate with said blade and said inclined transverse member for maintaining the blade fixed in desired longitudinal projection from said wedge-shaped opening.

1,665,257. GUN-CLEANING ROD. CHARLES W. DAKE, Chicago, Ill. Filed Jan. 29, 1927. Serial No. 164,399. 1 Claim. (Cl. 42—91.)



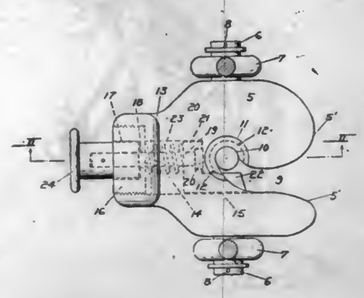
A cleaning tool for fire arms and the like comprising a rod, a handle in which the rod is mounted for rotation, the end of the rod removed from the handle being cylindrical, a thread formed in the extreme forward end of the cylindrical portion of the rod and extending clear to the extreme end thereof, the outside diameter of the thread and of the cylindrical portion of the rod being the same and means associated with the handle whereby the rod may be given a positive rotation to screw the threaded end thereof out of engagement with a patch in the barrel.

1,665,258. BRAKE EQUALIZER. HENRY FORD, Dearborn, Mich. Filed Oct. 14, 1926. Serial No. 141,548. 12 Claims. (Cl. 188—204.)



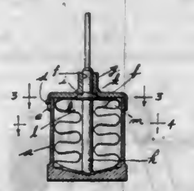
1. In an equalizing device, a frame, a rock shaft journalled thereon, a pair of operating members mounted on said frame, a pair of arms fixed to said rock shaft means for operatively connecting one of said operating members to one of said arms, an operated member, an arm pivotally mounted on said shaft, means for operatively connecting said operated member with the pivoted arm, a second arm pivotally mounted on said first pivoted arm, and means for operatively connecting the second pivoted arm with the second fixed arm and the second operating member whereby pressure from the operated member may be transmitted substantially equally to the operating members and said members may be moved unequal distances by said pressure.

1,665,259. SUCKER-ROD ELEVATOR. EDGAR E. GREVE, Bellevue, Pa. Filed Jan. 29, 1924. Serial No. 689,266. 10 Claims. (Cl. 294—91.)



7. A sucker rod elevator having a vertical rod receiving opening, and a vertical outwardly extending leading-in slot communicating with the vertical opening in non-radial relation thereto.

1,665,260. MIXING APPARATUS. ALBERT P. GRUNN, Chicago, Ill. Filed Mar. 15, 1927. Serial No. 175,498. 1 Claim. (Cl. 259—107.)

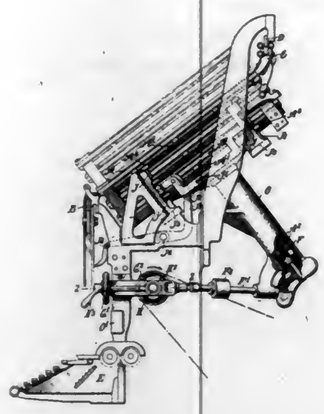


In a device of the class described, a cylindrical vessel open at one end, a cover for said open end, means for detachably securing the cover to the vessel, the cover being provided with a central bearing aperture, a rotary spatula comprising a shaft and radial blades projecting therefrom, said shaft extending through and projecting beyond said bearing aperture and having thereon an annular shoulder of greater diameter than the aperture and adapted to bear against the inner side of the cover thereby restraining the spatula against outward movement but permitting the spatula and cover to be separated, blades on opposite sides of said shaft being oppositely inclined whereby rotation of said spatula in one direction forces said shoulder against the inner side of said cover thereby sealing said vessel during rotation of said spatula.

1,665,261. TYPOGRAPHICAL MACHINE. ALFRED W. F. GUEST, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed May 7, 1927. Serial No. 189,509. 11 Claims. (Cl. 199—45.)

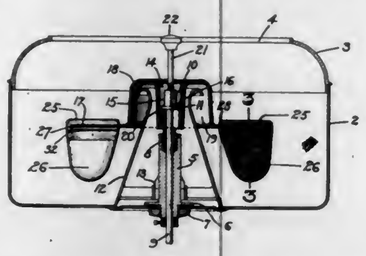
1. In a linotype machine, the combination with a plurality of magazines, a shift frame wherein the magazines are mounted and a screw for raising and lowering the shift frame to bring a selected magazine into operation position, of means for rotating the screw comprising the

intermediate shaft, the assembler drive shaft, a lay shaft geared to the screw, and intermediate reversible gear mechanism for connecting the lay shaft directly with the



intermediate shaft or with the assembler drive shaft, whereby the screw may be rotated in one direction or the other, as desired.

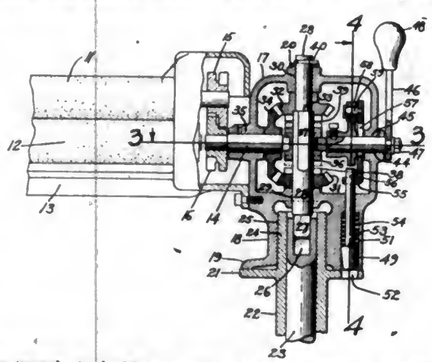
1,665,262. WASHING MACHINE. HERMAN C. HIRSCHY, Duluth, Minn., assignor to The Hirschy Company, Duluth, Minn., a Corporation of Minnesota. Filed Sept. 15, 1924. Serial No. 737,832. 5 Claims. (Cl. 259—128.)



1. A washing machine agitator comprising a disc having a plurality of radial slots, and blades having grooves to receive the edges of said slots at the sides and inner ends thereof, the side grooves of said blades extending only partially across the same and forming shoulders or stops against which said disc at the outer edges of said slots is seated and concealed.

1,665,263. WRINGER-CONTROL MECHANISM. HERMAN C. HIRSCHY, Duluth, and RALPH C. HITCHCOCK, Minneapolis, Minn., assignors to The Hirschy Company, Duluth, Minn., a Corporation of Minnesota. Filed Apr. 17, 1925. Serial No. 23,905. 13 Claims. (Cl. 68—32.)

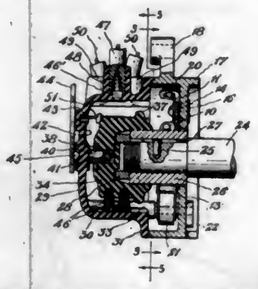
1. A wringer adapted for adjustment to different working positions and having a roll-driving mechanism including a control-clutch, a locking member for holding said wringer in adjusted positions, a rock-shaft for operating the clutch and having a cam thereon, means for normally holding said locking member in its locking position, means connected with the locking member and adapted to be actuated by the movement of the cam for moving said locking member to unlocking position when said shaft is rotated to disengage the clutch, said connecting means being further adapted for entrainment by the locking member toward the cam as said locking member travels to locking position, and said connecting member being engageable with the cam to limit shaft rotation.



1,665,264. SILICA GELS AND PROCESS OF MAKING THE SAME. HARRY N. HOLMES and JOHN A. ANDERSON, Oberlin, Ohio. Filed Aug. 10, 1923. Serial No. 656,716. 7 Claims. (Cl. 23—182.)

1. The process of preparing hard silica gel with great porosity, comprising mixing a soluble silicate solution with a solution of a metallic salt to form hydrated silica, a soluble salt, and an insoluble metallic oxide, drying in a manner to produce and preserve in a rigid structure and without material shrinkage the usual ultra-microscopic pores, adding an acid to convert the insoluble metallic oxide into a soluble metallic salt, and washing out soluble metallic and other salts, thereby producing additional pores and increasing the total porosity.

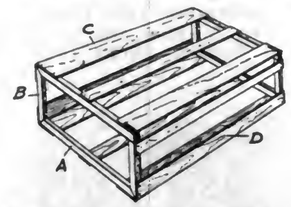
1,665,265. IGNITION TIMER AND DISTRIBUTOR. HARRY L. HOSTERMAN, Akron, Ohio, assignor to John R. Gammeter, Akron, Ohio. Filed Aug. 15, 1924. Serial No. 732,187. 4 Claims. (Cl. 200—30.)



3. A breaker arm construction for the primary circuit interrupters of ignition devices comprising, a casing, an inwardly-extending stud mounted in said casing, a spring-controlled breaker arm pivoted on said stud, and a suitably-mounted boss axially overlying said stud to retain said breaker arm.

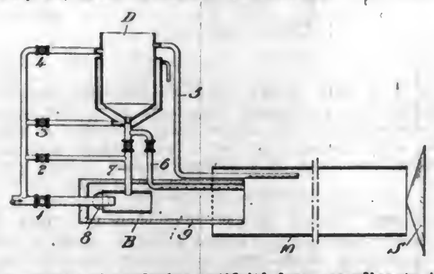
1,665,266. COLLAPSIBLE CRATE. THOMAS S. HUSTON, Denver, Colo. Filed Jan. 19, 1925. Serial No. 3,391. 2 Claims. (Cl. 217—43.)

1. An open ended folding crate composed of only four sections connected by pliable straps, the sections being of uniform width and each composed of parallel side strips connected by widely spaced slats, the pliable straps being held between the slats adjacent the ends of the sections and the side strips, said straps being adapted to furnish a hinged connection for the sections and pliable straps held between the last slat and the side strips at the free end of one of the end sections, said last mentioned straps lapping over and being fastened to the outside of the end slat of the other end



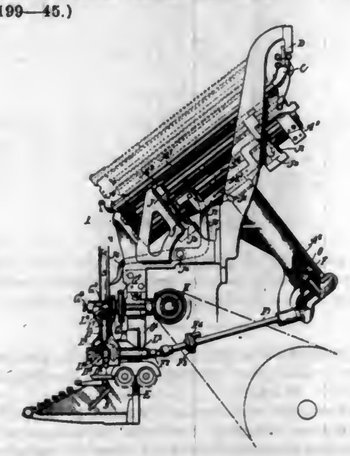
section when the crate is in its folded condition, the sections being relatively arranged so that they can be placed in alignment in one plane for shipping or storage, or placed at right angles to each other to form a crate of rectangular form.

1,665,267. PROCESS OF PRODUCING ARTIFICIAL FOGS. AXEL VIDAR JERNBERG, Tidaholm, Sweden. Filed July 14, 1925. Serial No. 43,655, and in Sweden July 22, 1924. 1 Claim. (Cl. 252—1.)



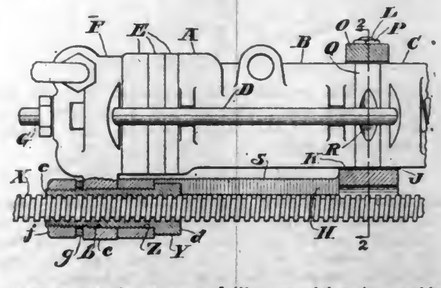
A process of producing artificial fogs according to the smoke syringe method, which comprises introducing melted phosphorus, repeatedly effecting a fine division of the phosphorus by the application of fluid pressure, and thereafter delivering the finely divided material to the open air.

1,665,268. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Dec. 16, 1926. Serial No. 155,122. 10 Claims. (Cl. 199—45.)



1. In a linotype machine, the combination with a plurality of magazines, a shift frame wherein the magazines are mounted, and a screw for raising and lowering the shift frame to bring a selected magazine into operative position, of means for rotating the screw comprising the intermediate shaft, a shift driven thereby, a lay shaft geared to the screw, and intermediate reversible gear mechanism for connecting the lay shaft with said driven shaft, whereby the screw may be rotated in one direction or the other as desired.

1,665,269. MOUNTING FOR ROCK DRILLS. EARL B. LEAR, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 25, 1927. Serial No. 201,426. 1 Claim. (Cl. 255—45.)



A mounting for a rock drill, comprising in combination with a cylinder and back head, side bolts for securing the back head to the cylinder, a lug on the back head having an aperture, a carriage, a bearing on the carriage to receive the cylinder, a clamping plate, bolts in the bearing and the clamping plate for securing the cylinder to the carriage, said bolts extending between the cylinder and the side bolts, ribs on the carriage for slidably engaging a rock drill shell, said carriage having an aperture registering with the aperture in the lug, a feed screw, a feed nut in the apertures in threaded engagement with the feed scre wfor moving the carriage longitudinally of the feed screw, and a nut on the feed nut for clamping the rearward end of the carriage to the lug.

1,665,270. FLY SWATTER. JOHN A. LUBBERS, Clinton, Iowa, assignor to Lubbers & Bell Manufacturing Co., Clinton, Iowa, a Corporation of Iowa. Filed Mar. 14, 1927. Serial No. 175,107. 7 Claims. (Cl. 43—137.)

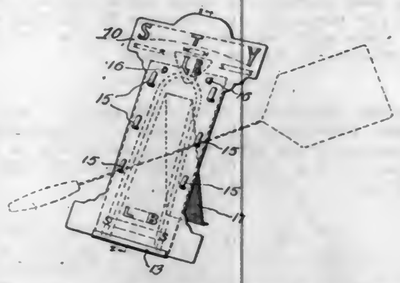


1. In a fly swatter, a relatively heavy-wire handle base having diverging sides, a wire netting having its lower edges folded laterally over said sides, a flat metal reinforcing strip interwoven with said netting to support opposite surfaces thereof beyond said base, said strip having an offset portion disposed adjacent said base, and wire clips extending through said netting and interlocking with said offset portion of said reinforcing strip to anchor the same to said base.

1,665,271. DISPLAY STAND. JOHN A. LUBBERS, Clinton, Iowa, assignor to Lubbers & Bell Manufacturing Company, Clinton, Iowa, a Corporation of Iowa. Filed May 11, 1927. Serial No. 190,494. 1 Claim. (Cl. 211—156.)

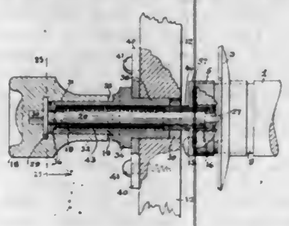
In a display stand, the combination of a sheet metal easel member having its lower supporting edge bent upwardly to form a groove, and provided with one or

more projections on its front face, and a stiff board of fibrous material or the like having one or more apertures therethrough and adapted to be detachably mounted on said easel member, with its lower edge fitting in



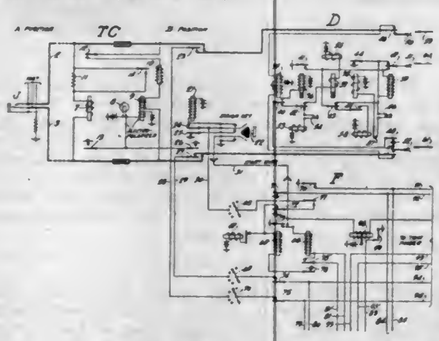
said groove and its apertures registering with the projections on said easel, whereby said projections extend beyond the face of said board to form rigid supports for advertised articles.

1,665,272. DETACHABLE SCROLL SUPPORT. LEWIS E. MYERS, Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and Harold H. Rockwell as trustees. Filed Apr. 16, 1926. Serial No. 102,595. 5 Claims. (Cl. 242—68.)



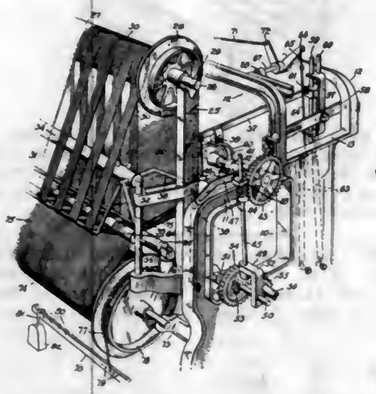
2. In unitary scroll rollers, a spring barrel, a knob rotatable and slidable on the barrel, a stem from the knob passing through the barrel and projecting therefrom, a spring on the stem, and means on the stem for limiting the sliding movement of the knob.

1,665,273. MULTIOFFICE TELEPHONE SYSTEM. MARTIN L. NELSON, Park Ridge, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 18, 1924, Serial No. 686,946. Renewed Aug. 20, 1927. 21 Claims. (Cl. 179—27.)



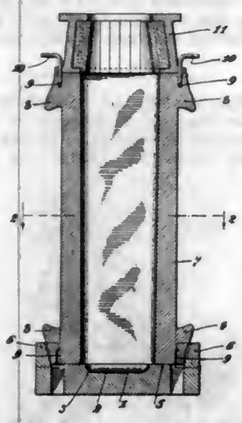
1. In a telephone system, a plurality of trunk lines, a plurality of sending mechanisms, a set of number keys, a signal individual to said keys, operator controlled automatic means for connecting said key set with an idle sender and for connecting said sender with a calling trunk line, and means responsive only to the completion of both operations for operating said signal.

1,665,274. ATTACHMENT FOR LOOMS. CHARLES EUGENE NEISLER, Jr., Kings Mountain, N. C. Filed Aug. 9, 1923. Serial No. 656,615. 20 Claims. (Cl. 139—25.)



1. In a loom of the character described, the combination with a top slack warp beam, of a slacking bar to receive sets of ends of the warp alternately on opposite sides thereof, and means co-operating with said slacking bar to let off a positive amount of slack yarn.

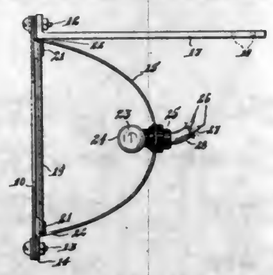
1,665,275. INGOT MOLD AND STOOL. JOHN H. PERRY, Sharon, Pa., assignor to Valley Mould & Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed Jan. 18, 1926. Serial No. 81,884. 8 Claims. (Cl. 22—139.)



1. As an article of manufacture, an ingot mold comprising an integral body portion with the matrix thereof having a taper not to exceed one and one half percent.

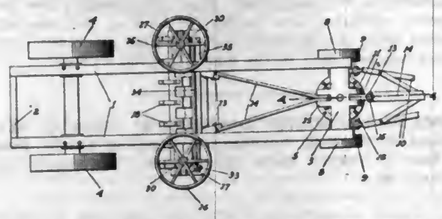
1,665,276. LICENSE-PLATE LAMP. BRYAN B. PFEIFER, Chicago, Ill. Filed Jan. 26, 1927. Serial No. 163,645. 3 Claims. (Cl. 40—133.)

1. The combination of a license plate lamp, the inside thereof forming an elongated parabolic reflector, a stenciled license plate mounted thereon; a sheet of opalescent glass mounted behind said stenciled plate; a source of light mounted in said lamp at the focus of said reflector for reflecting light through said glass and the openings in said plate; a flange on said lamp having a portion thereof punched out and bent back to hold backwardly on said glass; portions punched out of said reflector and bent down to hold forwardly on said glass; means for



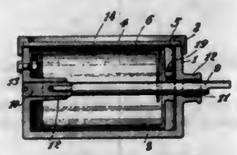
securing said license plate to said flange; a lens plate mounted at one end of said reflector and having a lens therein; a source of light mounted behind said lens; means for securing one end of said lens plate to said flange; means on the other end of said lens plate engaging under said license plate for securing said lens plate in position.

1,665,277. ROAD SCARIFIER. DANIEL V. RAMAZZOTTI, Sutter Creek, Calif., assignor to The Knight Company, Sutter Creek, Calif., a Corporation. Filed Sept. 21, 1926. Serial No. 136,779. 2 Claims. (Cl. 262—8.)



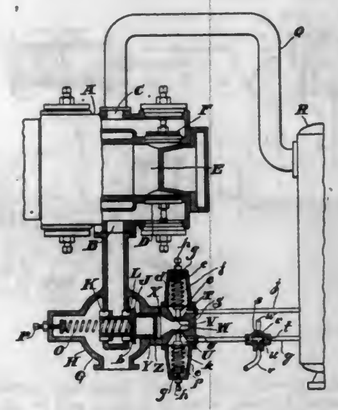
1. A scarifier including a frame, wheels supporting the frame, a bolster mounted at the front end of the frame, a tooth-supporting block extending transversely of and under the frame rearwardly of the bolster, arms projecting from the block and pivoted onto the bolster, means for moving the block vertically, a transversely extending brace member pivoted at one end onto the block adjacent one end thereof and extending thence toward the opposite end of the block, and means for pivoting the opposite end of said brace member in connection with the frame.

1,665,278. OPTICAL SPEEDOMETER. GEORGE RAMSEY, Brooklyn, N. Y. Filed Aug. 23, 1922. Serial No. 583,764. 15 Claims. (Cl. 116—57.)



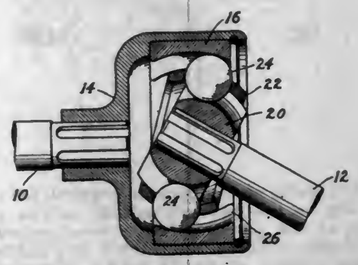
13. A speedometer comprising a rotating member of a violet-green color, said member being provided with windows of progressive lengths arranged in bands with the windows in each band being substantially the same length, an orange-red bar arranged relatively to said member to be viewed through the said windows when the member is rotated and characters in white on said orange-red bar.

1,665,279. MULTIPRESSURE REGULATOR. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 19, 1927. Serial No. 220,361. 2 Claims. (Cl. 230—25.)



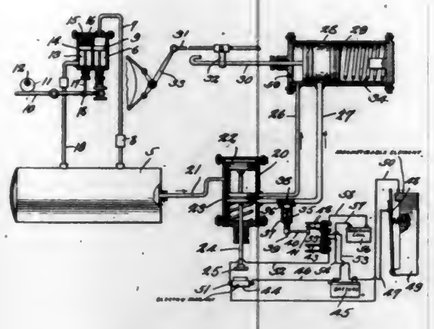
1. In a multi-pressure regulator, the combination of a compressor cylinder having an inlet opening and a discharge opening, a receiver tank connected to the discharge opening, an intake unloading valve controlling the inlet opening, a casing interposed between the intake unloader and the receiver tank having a pair of valve chambers, valves controlling communication between the chambers and the unloader valve, diaphragms connected to the valves exposed to receiver pressure, and springs acting on the diaphragms tending to hold the valve closed, one of said springs being adapted to yield to a lower receiver pressure than the other spring for admitting pressure fluid to the unloader valve for closing said unloader valve and thus cut off the intake supply to the compressor cylinder.

1,665,280. UNIVERSAL JOINT. ALFRED H. RZEPPA, Detroit, Mich. Filed Apr. 2, 1927. Serial No. 180,359. 10 Claims. (Cl. 64—91.)



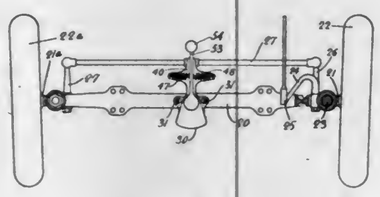
1. In combination with a pair of shafts, an independent universal connection unit for such shafts comprising an outer ball race member and an inner ball race member, said members provided with registering curved ball receiving grooves, a ball cage between said members, balls carried by said cage within the grooves of said race members to lock said members to rotate together, a socket on one shaft receivable over said universal connection unit and means to lock the outer ball race member thereto to rotate therewith, and a part on the other shaft engageable within the inner race member to lock it to rotate therewith.

1,665,281. SAFETY AUTO CONTROL. CHARLES E. SHEARON, JOHN D. ALEXANDER, and LESLIE M. PEARCEY, Hattiesburg, Miss. Filed Sept. 13, 1926. Serial No. 135,268. 9 Claims. (Cl. 246—194.)



1. A safety device for railway crossings including a switch member between rails of a track and in the path of travel of the wheels of a train passing over the rails, a magnet positioned in a road surface crossing the railway and in circuit with the switch, a brake operating mechanism carried by a motor vehicle passing over the road surface, and said brake operating mechanism including a magnet and fluid pressure controlled means actuated by the action of the magnet for applying the brakes of the motor vehicle.

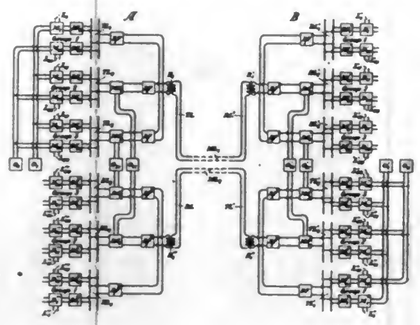
1,665,282. STEERING MECHANISM. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,586. 5 Claims. (Cl. 280—90.)



1. In a device of the character described, the combination with an axle having a spindle, carrying a wheel, pivoted at each end thereof; of steering mechanism for said wheels; a dashpot filled with a fluid and including a piston member, one end of which is connected to the steering mechanism, said piston having a port which permits the flow of fluid from one side of the piston to the other; a valve controlling said port and a weighted arm on the valve elastically connected to the piston member.

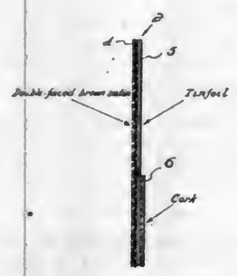
1,665,283. SIGNALING SYSTEM. FRED J. SINGER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 2, 1927. Serial No. 180,521. 6 Claims. (Cl. 179—15.)

1. In a system in which signals are to be transmitted substantially free from the distortion introduced by transformers, loading coils, and the like, the combination of a plurality of sources of low frequency signals, a plurality of low frequency oscillators each of a different odd harmonic of a fundamental frequency, one corresponding to each low frequency signaling source, a plurality of high frequency oscillators each of a different even



harmonic of the same fundamental frequency, one corresponding to each low frequency signaling source, means for beating the signals of each low frequency signaling source with the oscillations of a corresponding low frequency oscillator, and means for beating the resultant waves with the oscillations of the high frequency oscillator corresponding to the same signaling source.

1,665,284. ACOUSTIC DIAPHRAGM. JOHN Q. STYE and RICHARD H. COFFREN, Washington, D. C. Filed Dec. 16, 1926. Serial No. 155,220. 3 Claims. (Cl. 181—32.)

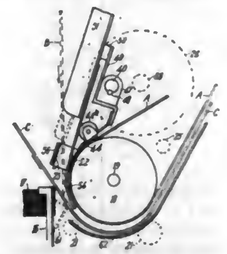


1. A laminted diaphragm for sound reproducers comprising at least three layers, one layer of textile fabric, one of metallic foil, and one of sound dampening material, and adhesive securing said layers together.

1,665,285. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 3, 1924. Serial No. 717,463. 39 Claims. (Cl. 197—158.)

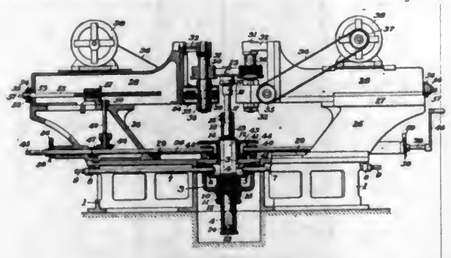
1. In a typewriting machine, the combination of a carriage, a ribbon-carrier mounted upon the carriage and

movable thereon to shift a pair of superposed inking ribbons to and away from the printing position, and means



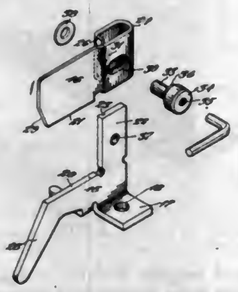
automatically operative during the movement of said carrier in one direction to effect a relative separation of the two ribbons.

1,665,286. METHOD AND MACHINE FOR FINISHING CIRCULAR CASTINGS. WILLIAM Y. STROH and GEORGE W. KLAGES, Pittsburgh, Pa., assignors to Catherine Strayer, Pittsburgh, Pa. Filed Aug. 30, 1921. Serial No. 496,805. 22 Claims. (Cl. 80—5.)



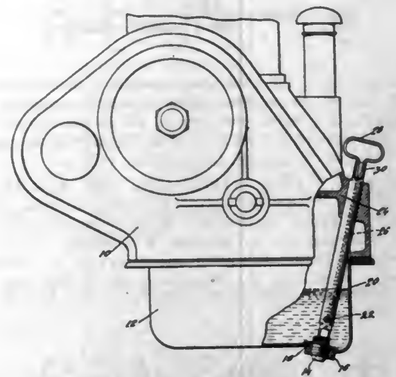
20. A machine for finishing circular castings, comprising a bed plate, a casting support, a plurality of casting finishing elements adjustably carried by said bed plate for circumferential adjustment thereon relative to a casting on said support, means for simultaneously and independently adjusting said finishing elements toward or away from the casting on said support, means for changing the angular position of said elements, and means for rotating said elements, substantially as described.

1,665,287. SLUB CATCHER OR YARN CLEANER. ERNEST R. SWANSON, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1927. Serial No. 176,702. 12 Claims. (Cl. 28—71.)



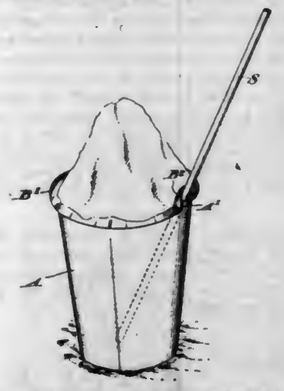
1. In a device of the type specified, the combination of a pair of blades arranged with their edges in opposite spaced relation to provide an opening therebetween through which the yarn draws, means for adjusting the relative position of said blades to vary the width of the opening, and resilient means integral with one blade and engaging the other blade to frictionally resist the adjustment between the blades.

1,665,288. HYDROCARBON ENGINE. PAUL B. TAYLOR, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 11, 1924. Serial No. 737,153. 11 Claims. (Cl. 184—1.5.)



1. An engine having a crankcase, a drainplug threaded in the crankcase, a tubular sleeve secured to said plug, and an oil gage in the sleeve, the sleeve and gage having interengaging portions of non-circular cross-section, so that the gage may be used when in the sleeve to unscrew the plug.

1,665,289. MEANS FOR SERVING FOOD AND DRINK. MARVIN S. WEAVER, Aberdeen, N. C. Filed May 26, 1925. Serial No. 33,013. 4 Claims. (Cl. 65—13.)

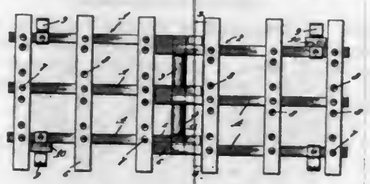


1. A structure comprising two members, one being a cup and the other being a dish shaped to extend into the upper part of the cup and to seat loosely on the rim of the cup and having all of its lip higher than the lip of the cup and one of said members having a lip fold whereby an orifice is formed between the cup and the dish for the insertion of a straw.

1,665,290. POULTRY ROOST. IRA CLAY WHITE, Brownsville, Ark. Filed June 7, 1923. Serial No. 643,989. 1 Claim. (Cl. 119—22.)

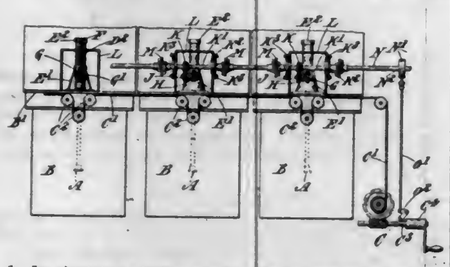
In a roost, a pair of sections, each of the sections including longitudinally extended outer bars and inner bars arranged in spaced relation with each other, spaced cross

bars having their ends extended beyond the outer longitudinal bars to provide supports for the roost, hangers on the roost, the first mentioned bars having aligning openings, a pintle extending through the aligning openings to



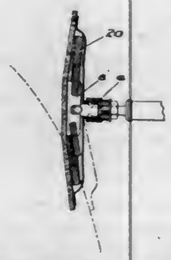
removably connect the sections, removable members extending through the pintles adjacent to the outer longitudinal bars to restrict movement of the sections over the pintle, and said cross bars having openings defining cups.

1,665,291. OPERATING GEAR OF ELECTRIC SWITCHES. ARCHIBALD ALLAN, North Shields, and HENRY WILLIAM CLOTHIER, Wallsend-on-Tyne, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Jan. 21, 1926, Serial No. 82,880, and in Great Britain Mar. 20, 1925. 3 Claims. (Cl. 200—150.)



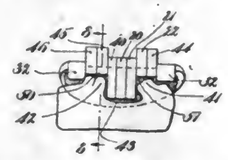
1. In electric switchgear of the kind in which the main switch is removable from the rest of the switchgear, the combination of a main switch contact-operating member, a pinion operatively connected to said member and removable with the main switch, a driving pinion adapted to mesh with the first pinion, a shaft for said driving pinion, a frame or support which does not move when the main switch is removed, bearings for said shaft in said support, means for adjusting said bearings to secure proper engagement between said two pinions, and means for rotating said shaft to open and close the main switch.

1,665,292. BUFFER. HAZEN S. ANDERSON, Rochester, and JESSE B. BROWN, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 27, 1925. Serial No. 71,712. 4 Claims. (Cl. 51—195.)



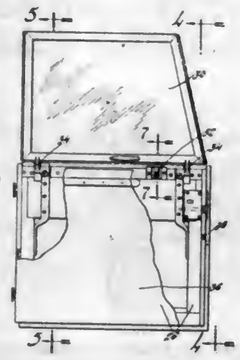
1. In a buffer of the class described, holder, a buffing pad and a plurality of coiled springs radially arranged secured at their inner ends to the holder and carried at their outer ends by the outer portion on the pad.

1,665,293. SECTIONAL IMPRESSION TRAY. DAVID BARATT, Roxbury, Mass. Filed Mar. 9, 1925. Serial No. 14,214. 6 Claims. (Cl. 32—6.)



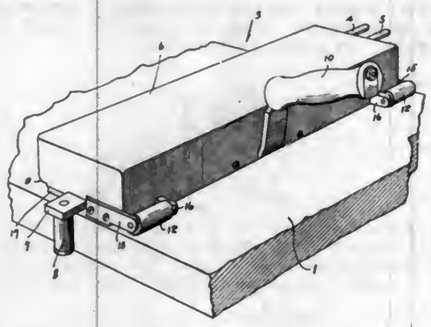
1. A sectional impression tray, comprising two interlocking sides, and a plurality of medial ridge forming plates carried between said sides, said plates being movable into and out of operative position.

1,665,294. CONVERTIBLE BODY. ROSCOE BERINGER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 1, 1924. Serial No. 753,248. 4 Claims. (Cl. 296—45.)



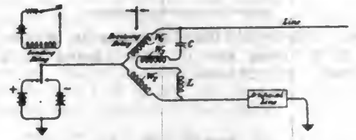
1. A vehicle door having a panel hinged to its upper edge, a cover for the panel in its lower position, a latch for the door, and an operating handle for the latch arranged to hold the cover closed when in its operative position and movable to a position permitting opening of the cover.

1,665,295. FLATIRON. ELLIOTT D. CAMPBELL, San Francisco, Calif. Filed July 7, 1926. Serial No. 121,017. 2 Claims. (Cl. 68—9.)



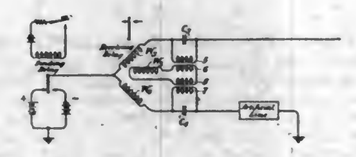
1. A flat iron provided with rollers adjacent its trailing edge, said iron being substantially co-extensive in length with the width of the ironing board on which it is used and provided at its ends with guide rollers extending downwardly, the distance between said rollers being slightly greater than the width of the ironing board.

1,665,296. GROUNDED DUPLEX TELEGRAPH SYSTEM. SAMUEL I. CORY, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 26, 1926. Serial No. 118,753. 3 Claims. (Cl. 178—58.)



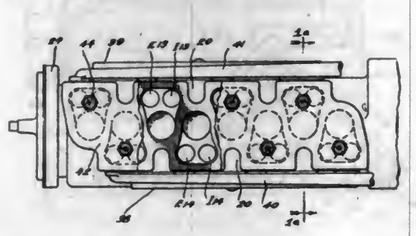
1. In a grounded duplex telegraph system, a sending relay, a receiving relay, a line, an artificial line, and a shunt path therebetween including an inductance and a capacity, said receiving relay including an operating winding and an additional winding in series with the inductance and capacity of the shunt path, said inductance and said capacity being of such values that the shunt forms a tuned circuit resonant to interfering alternating currents in the line and the effect on incoming and outgoing signals is slight, the interfering current in the operating winding of the receiving relay being substantially neutralized by the flow of the interfering current in the additional winding.

1,665,297. GROUNDED DUPLEX TELEGRAPH SYSTEM. SAMUEL I. CORY, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 26, 1926. Serial No. 118,754. 4 Claims. (Cl. 178—58.)



1. In a duplex telegraph repeater system, a line, an artificial line, a sending relay, a receiving relay, a transformer arrangement associated with the line and the artificial line, tuned circuit in the line anti-resonant at the frequencies of interfering currents, and a tuned circuit in the artificial line anti-resonant at said frequencies, each of said tuned circuits including as one of its elements one winding of said transformer arrangement.

1,665,298. ENGINE. HENRY M. CRANE, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 31, 1926. Serial No. 126,189. 7 Claims. (Cl. 123—59.)



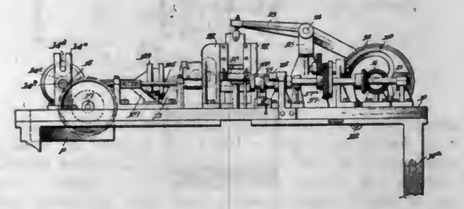
1. An engine comprising L-head cylinders arranged side by side, the valve ports of adjacent cylinders being disposed on opposite sides of the cylinder axes.

1,665,299. PALLET AND METHOD OF MAKING THE SAME. CHARLES B. CUSHWA, Youngstown, Ohio, assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio, a Corporation of Ohio. Filed Jan. 10, 1925. Serial No. 1,537. 13 Claims. (Cl. 34—17.)



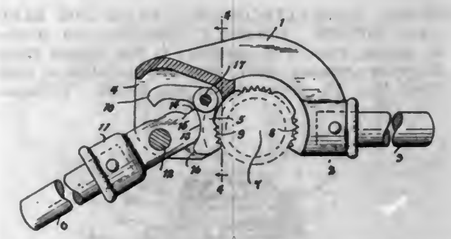
1. As an article of manufacture, a pallet comprising a body portion having a continuously extending downwardly projecting peripheral reinforcing means formed thereon, and secondary reinforcing means extending longitudinally a substantial part of the length of at least one side of the body portion and formed by rolling the first mentioned means inwardly and upwardly so that the upper inner edge thereof abuts the body portion, said upper inner edge being welded to said body portion, substantially as described.

1,665,300. FIRECRACKER MACHINE. JOSEF B. DECKER, Elkton, Md. Filed June 21, 1927. Serial No. 200,467. 20 Claims. (Cl. 86—20.)



1. A machine for making firecrackers of the type having a bag of explosive material arranged in a tube, comprising a magazine for receiving a bag of explosive material, means for holding a tube adjacent one end of the magazine, and means for forcing the bag from the magazine into the tube.

1,665,301. PASSING OR BACK-UP TONGS. BENJAMIN P. HOFFMAN, Tulsa, Okla., assignor to The Pierce Development Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Dec. 18, 1926. Serial No. 155,618. 3 Claims. (Cl. 81—78.)



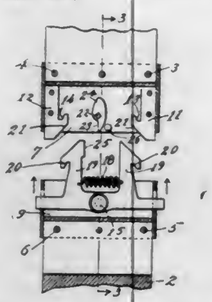
1. A tool of the character specified comprising a frame having a work receiving recess and a slot at one side of said recess, a jaw pivoted at one end within the slot and having a projection at its outer end, an arm projecting from the pivotal end of the jaw, and a lever pivoted within said slot and operating between the jaw and the arm projecting therefrom, and having a projection to coact with the arm and a recess adjacent said projection to receive the projection at the outer end of the jaw and automatically lock the jaw when projected into the work-receiving recess to the limit of its throw.

1,665,302. MULTIPLANE TRACTION DEVICE. ALPHEUS E. HOLCOMB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis. Filed Dec. 19, 1921. Serial No. 523,530. 2 Claims. (Cl. 305—9.)



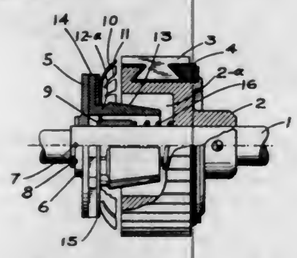
1. In endless traction structure of the class described, the combination of a main frame, axles on the main frame, a traction unit detachably mounted on the axles, an axle carried by the traction unit detachably connected to the main frame, and a driving connection between the traction unit and frame associated with the last-named axle.

1,665,303. FASTENER. WILLIAM N. HUNTER, Blanchester, Ohio. Filed Feb. 13, 1925. Serial No. 8,887. 2 Claims. (Cl. 292—31.)



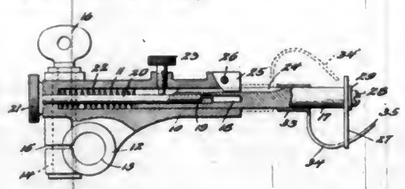
1. In a fastener of the character specified comprising two casing members, one member provided with a pair of permanently fixed hooks spaced apart and facing each other, and the other member provided with a corresponding pair of L-shaped latches pivoted together, with one arm of the L-shaped latches provided with hooked ends turned in opposite directions to be inserted between the fixed hooks and the other arm projecting from the sides of the casing and a spring to hold the hooked end of the latches separated, the interengaging hooks being beveled to draw the two casing members together upon engagement.

1,665,304. SHORT-CIRCUITING DEVICE FOR ELECTRIC MOTORS. HERBERT L. JOHNSTON and MILTON K. AKERS, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio. Filed Mar. 23, 1925. Serial No. 17,522. 3 Claims. (Cl. 172—279.)



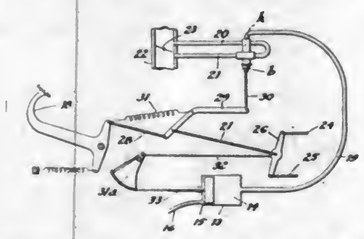
1. In combination with an armature shaft, a commutator having bars, a sleeve on the shaft, a short circuiting disk on the sleeve, spring means to hold the disk away from short circuiting position, centrifugal means and a relatively fixed member on the shaft, between which and the short circuiting device the centrifugal means acts, said member being adjustable along the shaft, said adjustment comprising a pin in the shaft and a hub having a series of opposed notches to engage the pin, said notches having varying depth.

1,665,305. DROP GUIDE. WILLIAM M. KELLY, Westfield, N. J. Filed Apr. 15, 1927. Serial No. 184,119. 7 Claims. (Cl. 271—60.)



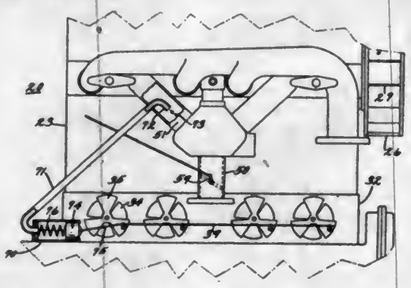
1. In combination with a front stop having a stem, a top guide slidably and rotatably mounted on said stem, and adapted to be moved from its operative position below the stem, to an inoperative position above the stem.

1,665,306. BRAKE MECHANISM OPERATED BY SUCTION. WILLIAM OSCAR KENNINGTON, London, England. Filed Nov. 8, 1926, Serial No. 147,130, and in Great Britain Nov. 13, 1925. 5 Claims. (Cl. 192—3.)



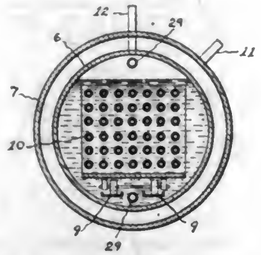
2. Suction control mechanism wherein two valves are provided in the induction pipe, the space between said valves constituting the controlled space and one of said valves serving as the engine throttle valve during ordinary running of the engine.

1,665,307. COOLING SYSTEM FOR INTERNAL COMBUSTION ENGINES. CHARLES F. KETTERING, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 2, 1923. Serial No. 629,337. 4 Claims. (Cl. 123—171.)



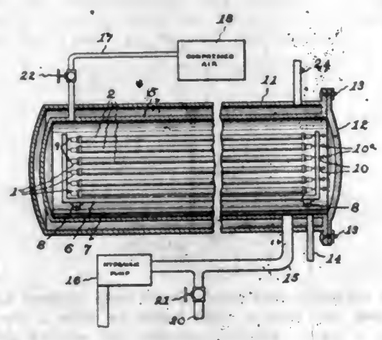
1. In a multiple cylinder air cooled internal combustion engine and in combination with the cylinders thereof, a casing enclosing said cylinders, and a fan for producing a flow of air past said cylinders; a plurality of separate and independent ports leading into said casing; a plurality of dampers cooperating with said ports and adapted to control the flow of air into said casing; a cylinder; a suction pipe leading from said cylinder and opening into the engine intake conduit; a piston operating in said cylinder, and operatively connected with all of said dampers; and a spring acting to hold said dampers in normally closed positions; one port and one damper being associated with each engine cylinder, to thereby control several separate streams of air flowing through said ports and into said casing adjacent the several cylinders of the engine.

1,665,308. PROCESS OF VULCANIZING RUBBER TUBES AND RUBBER TUBE PRODUCED THEREBY. LAURITS A. LAURSEN, Eau Claire, Wis., assignor of one-fourth to Pearl Fisher Laursen, Akron, Ohio. Filed Mar. 14, 1923. Serial No. 624,977. 13 Claims. (Cl. 18—53.)



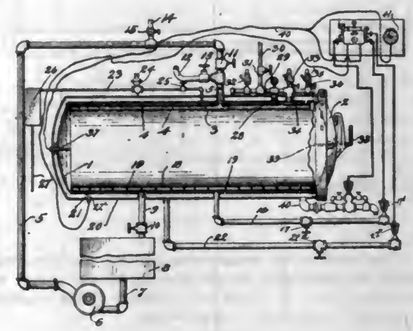
1. The method of vulcanizing rubber tubes for vehicle tires, which consists in placing the tubes to be vulcanized upon poles or mandrels, sealing the open ends of the tubes to the mandrels, and vulcanizing the tubes while upon the mandrels and in the absence of external confining means solely by direct contact with water or a similar liquid heated to the desired temperature for vulcanization.

1,665,309. PROCESS OF VULCANIZING RUBBER. LAURITS A. LAURSEN, Eau Claire, Wis., assignor of one-fourth to Pearl Fisher Laursen, Akron, Ohio. Filed Dec. 28, 1923. Serial No. 683,096. 14 Claims. (Cl. 18—53.)



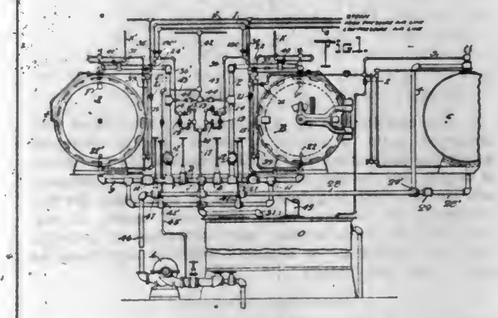
2. The process of vulcanizing rubber articles which consists in placing an uncured rubber article on a core, softening the uncured rubber by heat less than required to cure it, submerging it in a liquid at a temperature too low for vulcanization, subjecting the liquid to sufficient pressure to force the rubber into an intimate contact with the core and expel or compress any unconfined air to prevent the formation of blemishes, and then vulcanizing the article at the proper temperature.

1,665,310. PROCESS AND APPARATUS FOR VULCANIZING RUBBER ARTICLES. LAURITS A. LAURSEN, Eau Claire, Wis., assignor of one-fourth to Pearl Fisher Laursen, Akron, Ohio. Filed Sept. 27, 1924. Serial No. 740,308. 31 Claims. (Cl. 18—53.)



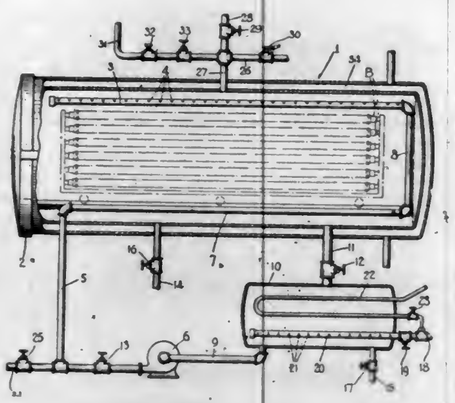
7. The method of vulcanizing rubber articles, which consists in placing the articles to be vulcanized in a suitable receptacle, admitting steam into said receptacle while vented to the atmosphere to soften the articles, then admitting into the receptacle while closed to the amosphere water or an equivalent liquid to submerge the articles, and then heating the water sufficiently to raise it to the desired vulcanizing temperature.

1,665,311. VULCANIZING METHOD AND APPARATUS FOR RUBBER ARTICLES. LAURITS A. LAURSEN, Eau Claire, Wis., assignor of one-fourth to Pearl Fisher Laursen, Akron, Ohio. Filed Jan. 16, 1925. Serial No. 2,904. 28 Claims. (Cl. 18—53.)



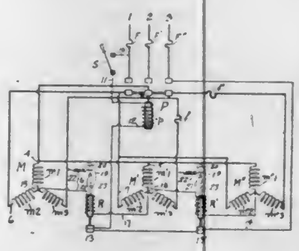
1. The method of curing rubber articles which consists in placing the articles in a closed chamber, introducing water heated to vulcanizing temperature into said chamber by causing it to be sprayed down upon said rubber articles, and heating the water to curing temperature.

1,665,312. METHOD OF AND APPARATUS FOR VULCANIZING RUBBER ARTICLES. LAURITS A. LAURSEN, Akron, Ohio, assignor of one-fourth to Pearl Fisher Laursen, Akron, Ohio. Filed Apr. 29, 1926. Serial No. 105,867. 27 Claims. (Cl. 18—53.)



1. The method of vulcanizing rubber articles, which consists in subjecting the articles to be vulcanized to a continuous spray of water or a similar liquid heated to the desired vulcanizing temperature.

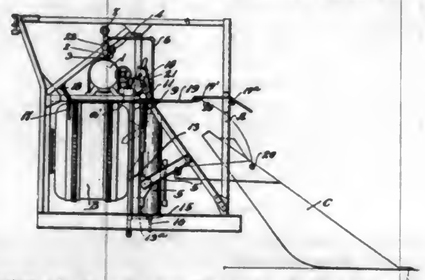
1,665,313. PROTECTIVE DEVICE FOR THREE-PHASE ALTERNATING-CURRENT UNITS. JACOB D. LEWIS, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 27, 1923. Serial No. 634,931. 4 Claims. (Cl. 175—294.)



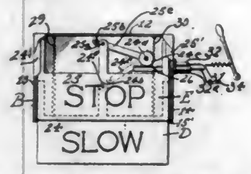
1. The combination of a plurality of three phase star connected units, a source of power supply, switching means for connecting the units in parallel to the source of supply, means responsive to a difference of potential between the neutral points of two of said units for disconnecting all of said units from said source of supply, and means for causing such difference of potential upon the occurrence of balanced overload conditions on one of said two units.

1,665,314. WATER-INTRODUCING MEANS FOR CONCRETE MIXERS. ERICH H. LICHTENBERG and GEORGE EVANS WEAN, Milwaukee, Wis., assignors to Koehring Company, Milwaukee, Wis. Filed May 26, 1925. Serial No. 33,068. 22 Claims. (Cl. 83—73.)

1. In combination, a concrete mixer, comprising a mixing drum, a water tank for supplying water to said drum, a water line to supply water under pressure to said tank, the said mixing machine including a loading means for charging solid aggregates into the drum, and means operated by the last mentioned means for compressing air to act upon the water in the water tank for forcing the water from said tank into the mixing drum.

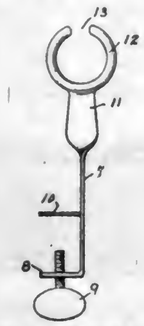


1,665,315. VEHICLE SIGNAL. ALEXANDER J. MASSEY, Los Angeles, Calif. Filed May 26, 1922. Serial No. 563,760. 8 Claims. (Cl. 116—44.)



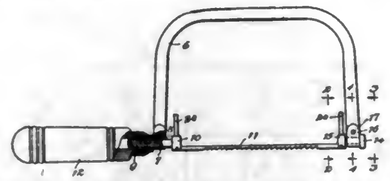
1. A vehicle turning signal comprising a casing having an indicating portion extending from side to side thereof and representng the shank of an arrow, a normally obscured index member mounted for reciprocation in said casing to project the same at the right or left hand side thereof and an arrow head pointing to the left and adapted to form with said shank an arrow pointing toward the left when projected at the left hand side of said casing and displaying an arrow head pointing to the right and adapted to form with said shank an arrow pointing toward the right when projected at the right hand side of said casing, and means for controlling the movements of said member.

1,665,316. ELECTRIC-IRON CORD CONTROL. BLANCHE E. MATTHEWS, Los Angeles, Calif. Filed Feb. 8, 1927. Serial No. 166,711. 2 Claims. (Cl. 248—30.5.)



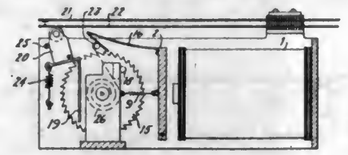
1. A bracket formed from a single strip of metal having its lower end bent a right angle to form a lip and having a portion partially severed, the severed portion being bent to extend parallel to said lip at a distance above the same, and its other end formed into a ring open at its upper end; and a securing screw passing through said first lip in screwthreaded engagement therewith and at right angles thereto.

1,665,317. COPING SAW. FRANK P. MAXSON, Chicago, Ill. Filed Dec. 6, 1924. Serial No. 754,283. 1 Claim. (Cl. 145—33.)



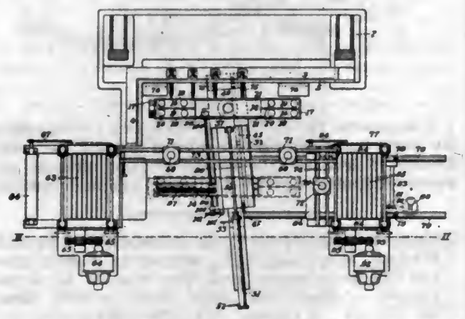
In combination in a coping saw, a U-shaped frame, a cylindrical securing member provided at each end with an enlarged permanent head, a resilient strap snapped over the securing member between said heads and secured to one end of the frame, the inner head of said member being adapted for reception of a cooperating securing element at one end of a saw blade, and means at the other end of the frame adapted for cooperation with a securing element at the other end of the saw blade.

1,665,318. ELECTROMAGNETIC DEVICE. EDWARD D. MEAD, Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 18, 1925. Serial No. 37,956. 2 Claims. (Cl. 200—97.)



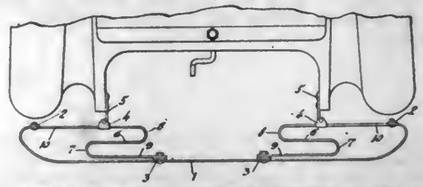
2. A relay for controlling a circuit during successive time intervals comprising an armature, an electromagnet for controlling said armature, a contact arm operated by said armature upon the energization of said electromagnet, an inertia wheel operated by said armature upon the denergization of said electromagnet and upon the restoration of said armature, means for assuring the complete restoration of said armature, unvarying means for assuring the restoration of said inertia wheel during a desired interval of time, a circuit normally closed, and means for intermittently opening and closing said circuit during successive identical time intervals by the operation of said armature in combination with said contact arm and inertia wheel.

1,665,319. SHEARING METAL SHEETS. GEORGE E. MIRFIELD, Youngstown, Ohio. Filed Jan. 10, 1925. Serial No. 1,563. 14 Claims. (Cl. 164—48.)



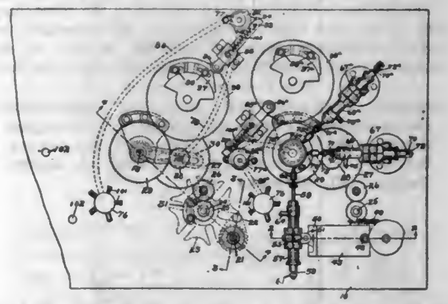
1. Shearing mechanism for metal sheets, comprising a shear adapted to simultaneously shear two edges of a pack or sheet, a support for holding the pack or sheet while being sheared, and means for turning the support into different operative positions whereby to first present two edges of the pack or sheet to the shear and then the other two edges, substantially as described.

1,665,320. BUMPER. FRANK N. NUTT, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Oct. 21, 1926. Serial No. 143,190. 6 Claims. (Cl. 293—55.)



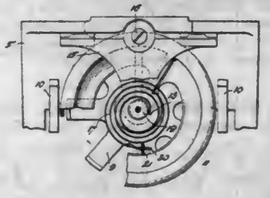
1. A vehicle bumper including an ogee curved brace bar, one leg of which is longer than the other leg, and an impact bar carried by the brace bar and attached to the respective legs, the relation of the attachments being reversible to accommodate various vehicle frame widths.

1,665,321. DECORATING APPARATUS. ALVAH C. PARKER, Toledo, Ohio, assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 25, 1926. Serial No. 97,255. 3 Claims. (Cl. 33—21.)



1. In apparatus of the character described, a bracket having a slideway therein, a slide mounted for reciprocation in said slideway, said slide having a slideway therein at right angles to the first said slideway, a carrier mounted for reciprocation in the second said slideway, and stylus points carried by said carrier, shafts mounted parallel with said slideways, gears connecting said shafts for rotation, and a cam on each of said shafts, the cams being in position to operate the slide and carrier respectively.

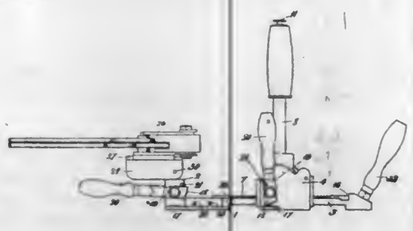
1,665,322. TEMPERATURE-COMPENSATING SPRING. JOSHUA PATRICK, Detroit, Mich. Filed Oct. 10, 1921. Serial No. 506,771. 5 Claims. (Cl. 264—13.)



1. In an indicating instrument the indications of which are subject to error due to envirohing temperature, the

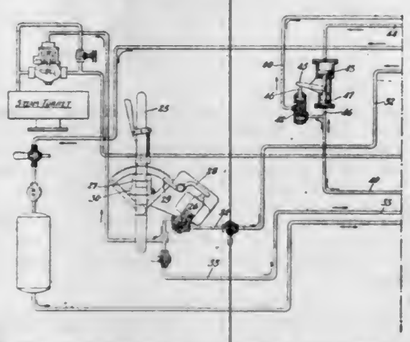
readings being progressively lower as the temperature increases, a biasing spring the elasticity of which becomes less as temperature increases to such an extent as to afford compensation for the said error.

1,665,323. APPARATUS FOR TENSIONING AND SEALING METAL BANDS AROUND PACKING CASES AND OTHER PACKAGES. ARTHUR CHARLES PAYNE, London, England, assignor to Packers' Supply Company Limited, London, England, a Company of Great Britain and Ireland. Filed Feb. 17, 1926, Serial No. 88,945, and in Great Britain Apr. 9, 1925. 9 Claims. (Cl. 81—9.1.)



1. Apparatus for tensioning and sealing metal bands around packages comprising a base member, a fixed band clamp thereon, a second band clamp slidable on said base, means for causing said slidable clamp to be fed towards said fixed clamp, guiding means for maintaining the ends of the band in correct lateral position for sealing and of such a height as to allow of the projecting edges of the sealing strip being wrapped around the overlapping ends of the band before the operation of deformation and sealing mechanism mounted adjacent to one of said clamps so as to enable it to be moved down on to the band.

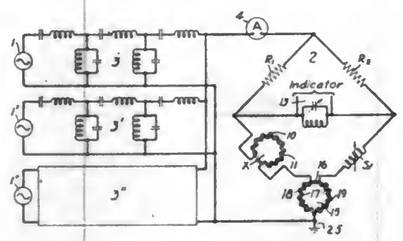
1,665,324. LOCOMOTIVE BOOSTER APPARATUS. FRANK RICHARD PETERS, New York, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed June 6, 1925. Serial No. 35,398. 9 Claims. (Cl. 105—48.)



1. The combination of a normally inoperative, locomotive booster motor; a controlling system for causing and stopping operation of said motor; and a supplementary means under the control of said system which automatically prevents attempted operation by said system in the event of disorder therein.

1,665,325. ELECTRICAL NETWORK AND ITS OPERATION. EUGENE PETERSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1926. Serial No. 95,810. 12 Claims. (Cl. 175—183.)

1. An electrical circuit comprising impedance whose value varies in response to current variations therethrough, closed paths terminating at said impedance, a source of electro-motive force connected to said circuit for causing current variations and consequently impedance variations in said impedance, and impedance in series with said first impedance with respect to said paths, for substantially preventing any flow of current tending to occur due to said impedance changes.

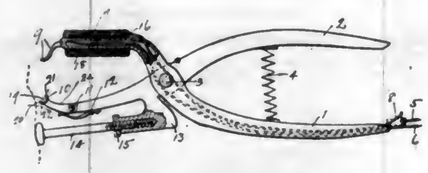


1,665,326. WEATHER STRIP. CHARLES E. REYBURN, Peru, Ind. Filed Mar. 22, 1927. Serial No. 177,371. 2 Claims. (Cl. 20—69.)



1. A weatherstrip comprising a resilient element, consisting of a single length of wire bent to provide spaced coils for disposition in longitudinal alinement, the terminals of which are extended in opposite directions and in the same plane, and a packing enclosing the element.

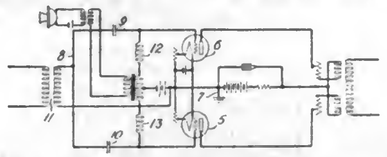
1,665,327. CURLING INSTRUMENT. THOMAS T. RISINGER, Compton, Calif. Filed July 31, 1926. Serial No. 126,232. 9 Claims. (Cl. 132—32.)



1. Apparatus for curling hair including a compression bar, and a compression socket, pivoted together, the radial distance of each from the pivot point being different, and means to cause said radial distances to approach equality.

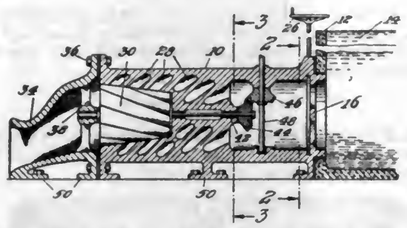
1,665,328. CARRIER-WAVE TRANSMISSION. HUGO R. SCHMITT, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 12, 1923. Serial No. 638,461. 6 Claims. (Cl. 179—171.)

1. The method of efficiently modulating two waves wherein is used an electronic valve modulator having a grounded cathode and a control electrode, which comprises impressing one of said waves on the cathode and control electrode, and independently and directly applying the other wave to said cathode and control electrode,



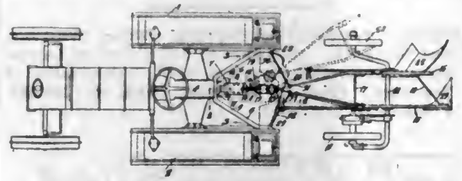
whereby any shunting to ground of either wave at a point anterior to said control electrode cannot affect the potential impressed thereon.

1,665,329. WATER TURBINE. ARNE STORBACKA, Vancouver, British Columbia, Canada. Filed Mar. 18, 1925. Serial No. 16,294. 1 Claim. (Cl. 253—157.)



In a fluid turbine, the combination of a casing, a frusto-conical rotor in the casing, a plurality of blades integral with the rotor and spirally arranged thereon, and means for conveying and directing fluid to the rotor, said means including passages spirally arranged in the casing, together with means for regulating the flow of water through said passages, said means comprising an apertured disk integral with one end of the casing, and a co-operating rotatable similarly apertured disk adjacent thereto.

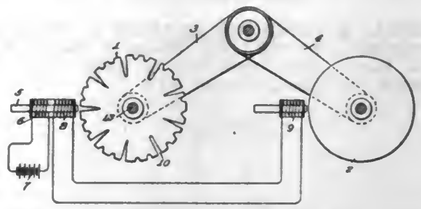
1,665,330. LATERAL-SWING CONTROL FOR TRACTOR-DRAWN PLOWS. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 1, 1923. Serial No. 665,898. 5 Claims. (Cl. 280—33.12.)



1. The combination with a tractor, of a plow pivotally connected therewith for vertical and horizontal movement and free to swing vertically, a member secured to the tractor having diverging portions extending rearwardly toward the tractor and secured thereto, and a chain attached to the rear of said portions respectively and extending in slack condition to the plow frame and attachable thereto rearward of the horizontal pivot thereof.

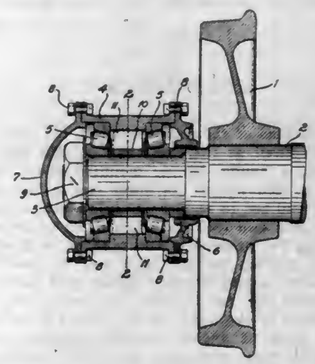
1,665,331. PRODUCING AND REPRODUCING SOUND RECORDS. ELIHU THOMSON, Swampscott, Mass., assignor of one-half to John A. McManus, Lynn, Mass. Filed Oct. 29, 1924. Serial No. 746,606. 9 Claims. (Cl. 179—100.2.)

1. The method of recording or originating sound, consisting in impressing an electrically conducting surface with a plurality of incisions of varying depth and contour to correspond accurately to its fundamental and principal harmonics, then revolving the incised surface at a speed to induce electric waves corresponding in pitch to the sound to effect faithful reproduction in electric



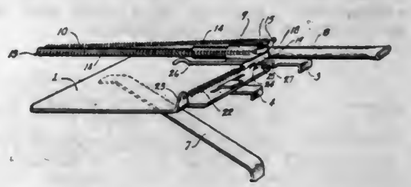
currents of the wave-form of the sound, and recording said waves by magnetic induction on a companion surface of hard steel driven coordinately with it, whereby a true impression of the originated sound may be permanently preserved.

1,665,332. AXLE CONSTRUCTION. HENRY H. TIMKEN, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed July 16, 1926. Serial No. 122,746. 3 Claims. (Cl. 308—173.)



1. A car axle construction comprising an axle, a housing therefor and a roller bearing interposed between said housing and said axle, said housing having an annular portion of steel or iron surrounding said axle and normally slightly spaced therefrom, whereby, in the event of failure of said roller bearing, said annular portion engages said axle to prevent rotation thereof.

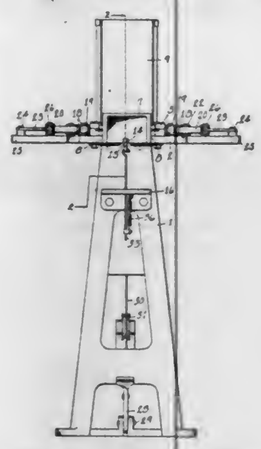
1,665,333. AUTOMATIC LIGHTER FOR STOVES. GEORGE M. TODD, Snoqualmie, Wash. Filed Mar. 30, 1927. Serial No. 179,562. 4 Claims. (Cl. 44—36.)



1. A device of the character described comprising a support, a tube on the support, a match holder movable in the tube, a match striker in the tube adapted to be engaged by matches in the holder and whereby said matches will be struck incidental to its withdrawal from the tube, means for normally retaining the striker in the

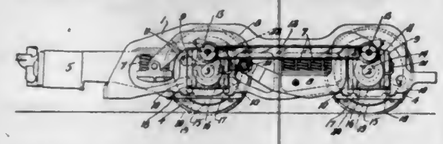
tube, means for releasing it from the said retaining means and means for actuating the match holder as the striker is removed from the tube to cause the matches to be projected from the tube.

1,665,334. MACHINE FOR APPLYING HANDLES TO BASKETS AND THE LIKE. ERNEST M. VERSAW, Benton Harbor, Mich. Filed Sept. 10, 1925. Serial No. 55,535. 12 Claims. (Cl. 140—93.)



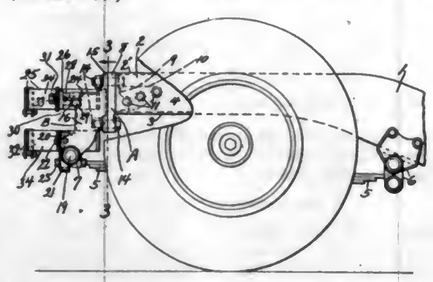
1. In a machine of the class described, the combination of a bed, an anvil at the front end of said bed having lateral faces, a handle hopper mounted above said bed and having a feed slot at its lower end, a feed plunger mounted on said bed to reciprocate below said hopper and adapted to close said feed slot when in its projected position, a spring for projecting said plunger, a handle stop mounted to project through said bed to position the handles relative to the anvil, a basket rest mounted below said anvil for facilitating the positioning of the baskets relative to the anvil, prong setting jaws comprising spaced pairs of angled link-like members pivotally mounted in coacting relation to the anvil, clinching jaws pivotally mounted between the swinging ends of said prong setting jaw members, supporting links pivotally connected to the outer ends of said clinching jaws, actuating links connecting said clinching jaws with said feed plunger, an actuating lever connected to said feed plunger, and a lost motion operating connection for said actuating lever to said stop whereby the setting members are actuated prior to the retracting of the stop.

1,665,335. BOOSTER MOTOR-TRUCK CONSTRUCTION. HARRY S. VINCENT, Ridgewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Filed July 9, 1926. Serial No. 121,332. 5 Claims. (Cl. 105—26.)



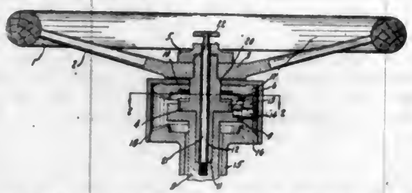
1. In truck construction the combination of an axle, a wheel, a crank at the end of the axle, a journal box between the wheel and the crank, and a lubricating cellar in the box removable outwardly below the crank when the latter is in its upper position.

1,665,336. MOTOR VEHICLE BUMPER AND MOUNTING THEREFOR. HUBERT WALKER, Royal Oak, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Filed June 25, 1927. Serial No. 201,352. 15 Claims. (Cl. 293—55.)



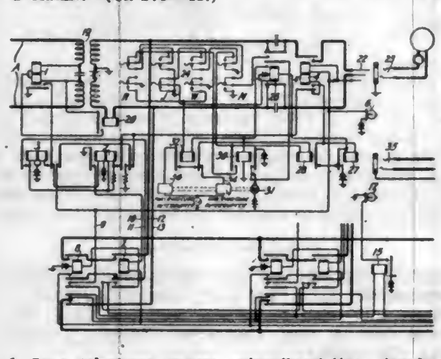
2. A motor vehicle bumper mounting comprising a main bracket secured to the vehicle chassis frame, and an auxiliary bracket rigidly secured to said main bracket and depending therefrom.

1,665,337. STEERING WHEEL. ARTHUR L. WARMINGTON, Oakland, Calif. Filed Apr. 27, 1927. Serial No. 186,929. 3 Claims. (Cl. 74—79.)



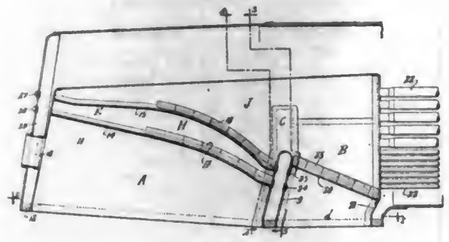
1. A steering device comprising a steering wheel, a clutch attached thereto, a steering column having means thereon to be engaged by said clutch, a gear attached to the stationary member of the steering device, radially protruding pinions, rotatably secured to the column, and meshing with said gear, a floating gear to mesh with said pinions and to be supported thereon, and means to alternately engage said clutch with said column and said floating gear.

1,665,338. TELEPHONE SYSTEM. WILEY WHITNEY, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1926. Serial No. 142,557. 4 Claims. (Cl. 179—41.)



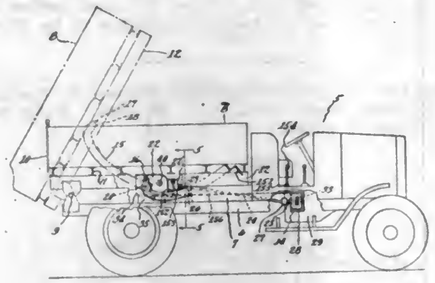
1. In a telephone system, subscribers' lines, trunks of different character arranged to transmit a signal during the connection of a subscriber's line thereto, and a listening circuit including a marginally responsive device for differentiating between said different character trunks, means coacting with said device when the listening circuit is connected to a trunk of a certain character to prevent the transmission of a signal by said trunk, and means coacting with said device when the listening circuit is connected to a trunk of a different character to prevent the transmission of a signal by said second mentioned trunk.

1,665,339. BOILER FIRE BOX. JAMES T. ANTHONY, East Orange, N. J., assignor to American Arch Company, a Corporation of Delaware. Filed Dec. 26, 1922. Serial No. 608,807. 5 Claims. (Cl. 122—64.)



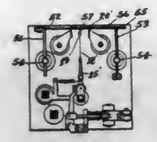
1. A locomotive fire-box having a transverse water leg occluding its lower forward portion behind the throat with passage thereover for the products of combustion, a circulation tube extending rearward from the inside wall of said water leg, a plug in the outside wall of said water leg opposite the end of said tube, and a floor extending forwardly from said water leg above said plug to the throat.

1,665,340. AUTO TRUCK MECHANICAL DUMP HOIST. WILLIAM N. BIRNEY, Willoughby, Ohio, assignor of one-half to Michael H. McKenna, Cleveland, Ohio. Filed Sept. 18, 1926. Serial No. 136,839. 2 Claims. (Cl. 298—21.)



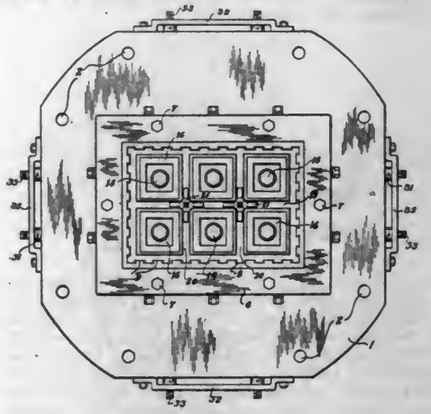
2. The combination of a tilting vehicle body and frame, racks and pinions for tilting the body, a gear for driving the pinions, a clutch controlling the gear, and a gear and the pinions, a clutch controlling the gear, and a gear and clutch box mounted together on the frame, between the racks, the gear including a shaft projecting through opposie sides of the box and carrying the pinions at its opposite ends, the clutch being provided with a shifting lever including a rock shaft extending through the side of the box and having an arm at its outer end adapted to be engaged by projections on one of the rack bars, and a spring latch engaging the lever to hold it in shifted positions.

1,665,341. THERMOSTAT. VITUS A. BOKER, Minneapolis, Minn. Filed Apr. 2, 1925. Serial No. 20,242. 3 Claims. (Cl. 200—139.)



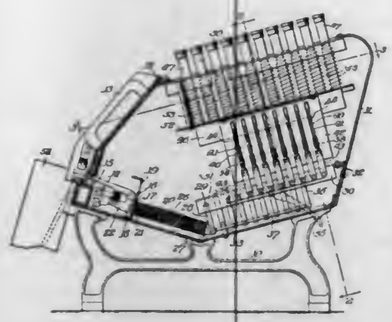
1. In a thermostat, the combination with a frame, of an expansible element carried thereby, a bell crank hinged to said frame and having one end contacting with the free end of said expansible element, resilient means for maintaining contact between said expansible element and said bell crank arm, a link hinged to the opposite end of said bell crank, a second lever hinged to said frame and having one end thereof hinged to the free end of said link, a contact lever arm hinged to said frame, a roller carried by said contact lever arm, the free end of said second named lever contacting with said roller and resilient means for maintaining said roller in contact with said lever arm.

1,665,342. DIE FOR HOLLOW TILE. EMIL E. BORSENBERGER, Waynesburg, Ohio, assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio, a Corporation of Ohio. Filed Jan. 8, 1927. Serial No. 159,916. 9 Claims. (Cl. 25—17.)



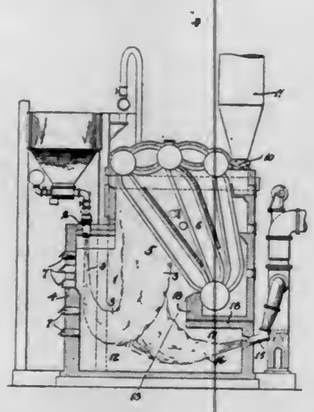
1. A die for making hollow tiles comprising a die block having a central opening, a bridge across said opening upon the inner side of the die block and comprising longitudinal and transverse arms, and spaced cores carried by said bridge and located within said central opening, the legs of said bridge being located directly in line with the spaces between said cores for the purpose of evenly and uniformly distributing the flow of clay through the interior portion of the die.

1,665,343. COIN-PAYING MACHINE. EDWARD J. BRANDT, Watertown, Wis., assignor to Brandt Automatic Cashier Co., Watertown, Wis., a Corporation of Wisconsin. Filed Apr. 18, 1921, Serial No. 462,193. Renewed June 19, 1925. 14 Claims. (Cl. 133—4.)



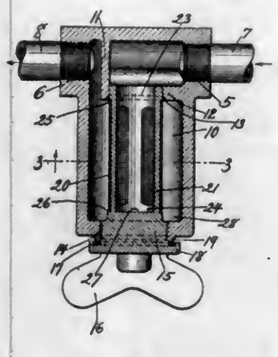
8. A machine of the class described, comprising a plurality of coin receptacles, coin ejecting mechanism associated therewith, a plurality of crank shafts, connections between said crank shafts and said coin ejecting mechanism, a plurality of floating change-combination-forming bars arranged above said crank shafts and connected to the latter for actuating the same, and a plurality of operating plates arranged above said change-combination-forming bars for operating the latter when operating pressure is applied to said plates.

1,665,344. COMBUSTION METHOD AND APPARATUS. VIRGINIUS Z. CARACRISTI, Bronxville, N. Y., assignor to Locomotive Pulverized Fuel Company, a Corporation of Delaware. Filed Dec. 23, 1922. Serial No. 608,626. 3 Claims. (Cl. 110—22.)



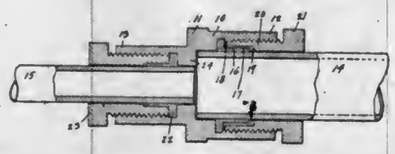
1. The method of burning pulverized fuel in conjunction with other fuel, which comprises directing a pulverized fuel stream downward at one side of a combustion chamber having an outlet in an upper part, to descend therein and then rise to said outlet; introducing air at the same side of said combustion chamber as said pulverized fuel stream, to form a cooling blanket in front of and beneath the descending portion of said stream below the lowest level of air admission as aforesaid, and to aid combustion; and introducing another fuel stream, to form a cooling blanket beneath and behind the ascending portion of the pulverized fuel stream, and to join in the combustion of the latter.

1,665,345. FILTER. ROBERT CLADE, Newark, N. J., and HENRY B. ENSION, St. Louis, Mo., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 13, 1926. Serial No. 128,944. 3 Claims. (Cl. 210—165.)



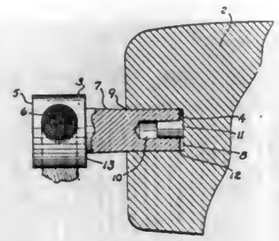
1. In a filter comprising a casing having a partitioned upper end defining an inlet chamber and an outlet passage, said inlet chamber being provided with an apertured base portion, a filtering tube in said casing and consisting of a solid plug for closing the open end of said casing, said plug having a reduced inner end extending into the casing and defining with the casing a sediment receiving portion therebetween, an open frame carried by said reduced end and terminating at its upper end in a retaining flange positioned within the apertured base of the inlet chamber, and a filtering medium secured around the outside of said frame and extending from the upper surface of the reduced end of the plug to the flanged end of said frame, the upper surface of the reduced inner end forming the bottom of the filtering tube.

1,665,346. PIPE CONNECTION. HARRY W. CLARKE, Longview, Wash. Filed June 28, 1926. Serial No. 118,949. 2 Claims. (Cl. 285—122.)



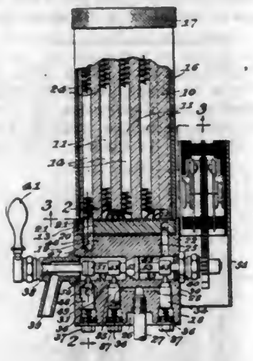
1. A pipe connection having, in combination, a body member provided with a threaded recess through which a pipe can be passed; a lead cylindrical sleeve adapted to be slipped over said pipe into said recess; a cylindrical compression sleeve having its outer end inturned behind said lead sleeve and its inner end out-turned toward the threads in said recess; and a gland adapted to loosely receive said pipe and to be threaded into said recess, said gland having a counterbore formed therein whose inner end engages the inturned edge of said compression sleeve and whose outer end engages the out-turned edge of said sleeve in a manner to flow the metal in said lead sleeve between said pipe and its surrounding connection and between said pipe and the threads of said body member.

1,665,347. RAIL BOND. EDWARD M. DEEMS, Forest Hills, N. Y. Filed Oct. 15, 1925. Serial No. 62,528. 2 Claims. (Cl. 173—280.)



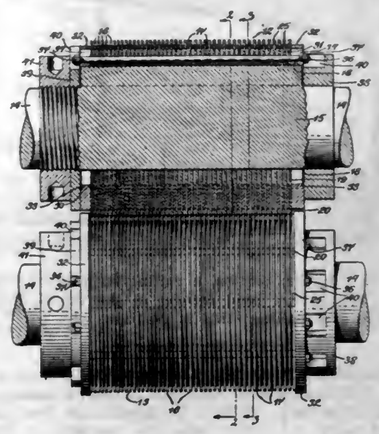
1. In a plug for a railbond for railway rails, in combination; a shank formed with an orifice in one end; a rift-pin entered in the orifice and tinning metal holding the rift-pin in place and preventing entrance of foreign matter in the orifice when the plug is in transit and also serving as a lubricant as the pin is driven into the rail.

1,665,348. ELECTRICAL WATER HEATER. HANS E. DINESON, Bridgeport, Conn., assignor, by mesne assignments, to Maurice Scholman, Bridgeport, Conn. Filed June 11, 1926. Serial No. 115,181. 4 Claims. (Cl. 219—39.)



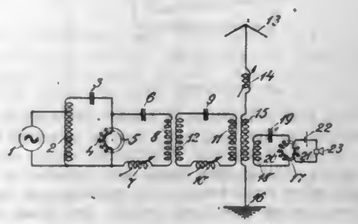
1. An electric water heater comprising a member having a tortuous water passage, a resistance device in said passage, means to control the flow of water from said passage, means to control the flow of water under pressure to said passage, and mechanism for actuating both of said means to simultaneously cut off the flow of water to and from said passage.

1,665,349. SLITTING ROLL OF MACHINES FOR FORMING EXPANDED METAL. HARVEY M. GERSMAN, Buffalo, and WILLIAM H. KLOCKE, New York, N. Y., assignors to Kalman Steel Company, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 19, 1926. Serial No. 96,024. 14 Claims. (Cl. 164—6.6.)



2. A slitting roll for use in metal expanding machines having cutting rings, each consisting of cutting elements mounted for radial adjustment and of reciprocal wedge form.

1,665,350. MODULATION SYSTEM. FELIX GERTH, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed June 28, 1927, Serial No. 202,057, and in Germany July 5, 1926. 2 Claims. (Cl. 179—171.)

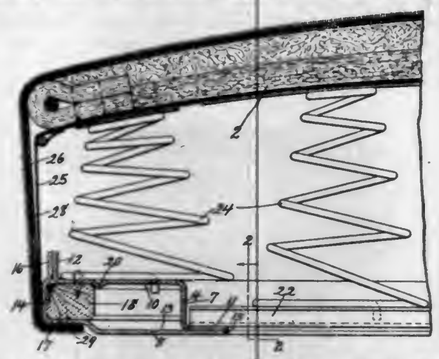


1. A radio transmission system of the character described comprising in combination a circuit carrying a fundamental frequency, an iron-cored high-frequency transformer for raising said fundamental frequency to a useful higher operating frequency, a load or antenna circuit being in operative relation with the transformer output circuit and an auxiliary resonant circuit being in coupling relationship with a circuit carrying high-frequency currents and containing an iron-cored auxiliary magnetized choke device for modulating the high frequency currents in accordance with signals to be transmitted.

1,665,351. SEAT FRAME. FREDERICK H. GIBBS, Brooklyn, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 2, 1926. Serial No. 126,681. 6 Claims. (Cl. 155—180.)

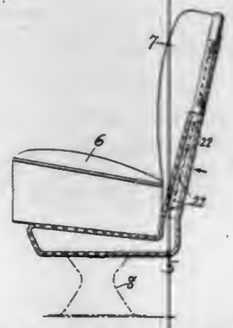
1. In a seat cushion, a hollow frame comprising complemental connected members each having extended

flanges by which said members are connected together, one of said members forming a top portion and one side portion, the other member forming the other side por-



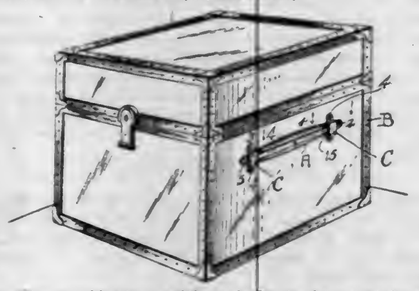
tion and a bottom portion, a nailing strip in said frame, and a longitudinal bead formed in the top portion for retaining said nailing strip in position.

1,665,352. SEAT BACK. FREDERICK H. GIBBS, Brooklyn, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 17, 1926. Serial No. 136,092. 5 Claims. (Cl. 155—195.)



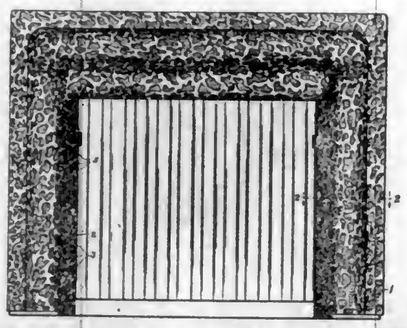
1. A seat back comprising a frame and a sheet metal plate secured thereto, said plate having marginal flanges and an integral horizontal reinforcing brace extending from side to side of the frame and defining a recess above and below said brace, said recesses and said integral brace being positioned within the plane of the frame.

1,665,353. TRUNK HANDLE. MORRIS GREENBERG, Jersey City, N. J. Filed May 10, 1927. Serial No. 190,187. 2 Claims. (Cl. 190—39.)



1. The combination with a body to be carried, of a handle comprising a flexible grip portion having longitudinal slots in its ends, metal reinforcing eyelets in said slots, means including a stud disposed in each of said slots for securing said grip portion to said body so that said grip portion may lie substantially flat against said body or be flexed outwardly therefrom, and a spring strip extending longitudinally of said grip portion and having its ends connected to said eyelets for relative movement.

1,665,354. ORNAMENTED SURFACE AND METHOD OF FORMING THE SAME. RAYMOND J. GREENE, Sebring, Ohio, assignor to The Gem Clay Forming Company, Sebring, Ohio, a Corporation of Ohio. Filed Mar. 29, 1927. Serial No. 179,292. 2 Claims. (Cl. 41—24.)

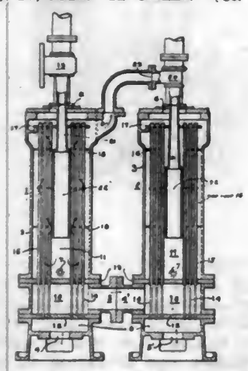


1. The ornamenting process which consists in applying a plastic coating to a surface to be ornamented, forming ribs and valleys in said coating and rolling down the high points of said ribs so that the edges thereof project over the valleys to produce an undercut effect.

1,665,355. METHOD OF PRODUCING ARTICLES FROM RUBBER AND OTHER THERMOPLASTIC SUBSTANCES. AXEL TEODOR GUSTAFSON, Gottenborg, Sweden. Filed Jan. 4, 1926, Serial No. 79,268, and in Sweden Feb. 12, 1925. 2 Claims. (Cl. 18—47.)

1. The method of producing articles in a casting mould or a pressure mould from rubber or other substances which become plastic when heated, consisting in the interposition between the mould and the mass to be moulded of a ready-made foil of cellulose derivatives.

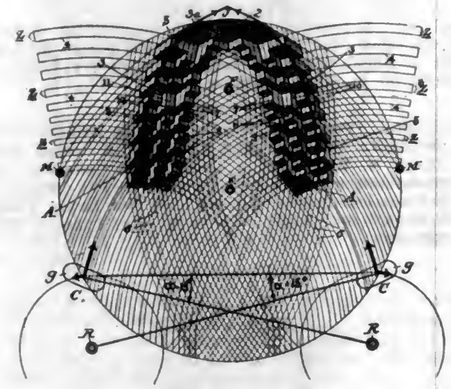
1,665,356. HEATER. HENRY LEWIS GUY, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 18, 1924, Serial No. 726,777, and in Great Britain Aug. 17, 1923. 12 Claims. (Cl. 257—224.)



1. A device of the type described, comprising a shell, a nest of tubes within the shell, said nest being arranged

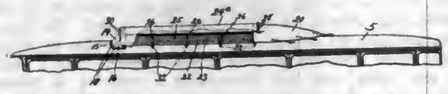
to provide a longitudinally extending space therein, connections for passing circulating media through the tubes, an ejector associated with one end of said nest of tubes, the diffuser of said ejector extending within said space, and a baffle for directing media discharged from the diffuser through said space.

1,665,357. ARTIFICIAL MOLAR TOOTH AND METHOD OF MAKING SAME. ALFRED GYSI, Zurich, Switzerland; Filed Feb. 26, 1926, Serial No. 90,726, and in Germany Mar. 14, 1925. 14 Claims. (Cl. 32—9.)



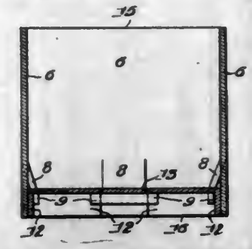
1. The method for the mechanical production of primordial forms of the back teeth to constitute a portion of an artificial denture, which consists in securing to one member of an articulator two rows of cutting knives arranged in a curve corresponding to a natural back tooth row at one side of the jaw and in more or less parallel relation and having cutting edges which slope backward and downward with a gradual lessening obliquity from front to rear, applying plaster to the other member of the articulator, and thereafter causing a relative movement between the knives and the plaster corresponding to the left and to the right side bite movements and to the forward or protrusive movement and backward or retrusive movement and to all possible movements of the articulator corresponding to intermediary masticatory directions so that angular depression and elevations each formed of three planes inclined to each other are cut in and upon the plaster block and which then serve as the primordial form of the masticatory surfaces of the back tooth row.

1,665,358. BAGGAGE RACK FOR MOTOR VEHICLES. ELBERT J. HALL and ARTHUR G. HAWKES, Detroit, Mich., assignors to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 30, 1927. Serial No. 179,577. 19 Claims. (Cl. 224—29.)



17. In a device of the kind described, a baggage rack, a cover for the same, and means for preventing the building up of air pressure beneath the cover whereby the latter is retained in close covering engagement with the rack.

1,665,359. BERRY BOX. FERDINAND G. HAAS, St. Paul, Minn. Filed Feb. 14, 1927. Serial No. 168,028. 5 Claims. (Cl. 229—28.)



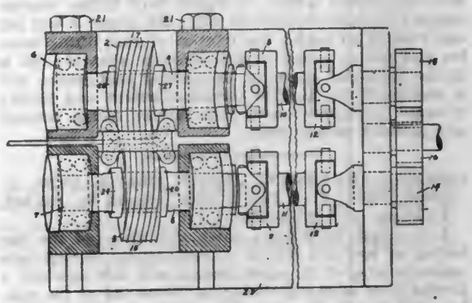
1. In a box formed from foldable sheet material, the combination with four side walls, a rectangular bottom panel fitting within the four walls and having a downwardly projecting flange on each side edge, a tongue secured to a side wall above said bottom panel and projecting downward beneath said bottom panel, said bottom panel being formed with an opening to receive said tongue and means on said tongue beneath said bottom panel to support the same.

1,665,360. REENFORCEMENT FOR WELDED SEAMS. CHARLES GILBERT HAWLEY, Cleveland, Ohio. Filed May 18, 1922, Serial No. 560,671. Renewed Feb. 28, 1928. 8 Claims. (Cl. 189—36.)



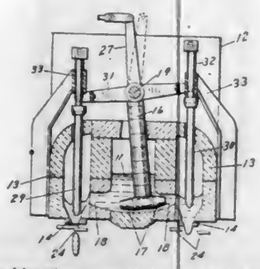
1. In combination with a butt welded seam connecting marginal plate portions, a sinuous bar disposed in flat engagement with parts of said plate portions and crossing and recrossing said seam and being embedded in welding material upon said marginal plate portions and said seam.

1,665,361. MACHINE FOR FORMING BALLS. GEORGE ORVIL HODGE, Bristol, Conn. Filed Feb. 24, 1925. Serial No. 11,171. 11 Claims. (Cl. 80—23.)



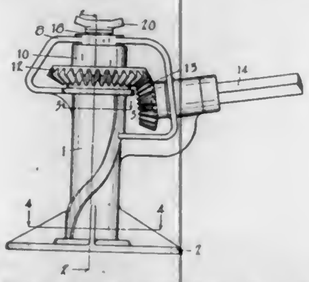
1. A ball forming machine comprising a pair of spirally grooved rolls, means for rotatively driving said rolls, balls serving as means for guiding the work, and ball track and casing structures serving as means for operatively housing said balls.

1,665,362. GLASS FEEDER. VICTOR E. HOFMANN and LEONARD D. SOUBIER, Toledo, Ohio, assignors to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 27, 1924. Serial No. 702,281. 28 Claims. (Cl. 49—55.)



17. In combination, containing means for molten glass having downwardly directed outlets, regulating plugs projecting downward into the glass over said outlets, and means actuated by a pendulum regulator operating within the glass between the said openings for periodically reciprocating said plugs, including connections between the plugs, whereby as each plug is moved downward, the other plug is moved upward.

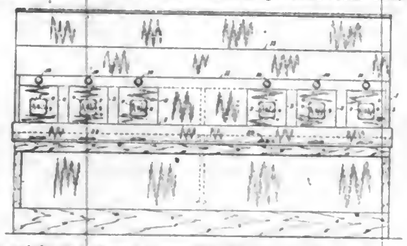
1,665,363. LIFTING JACK. ARTHUR C. HOPKINS, Niles, Mich., assignor to National Standard Company, Niles, Mich. Filed Mar. 26, 1927. Serial No. 178,588. 3 Claims. (Cl. 254—102.)



3. In a lifting jack, the combination of a standard having a longitudinal bore with an internal spiral groove therein, a nut rotatably mounted on said standard and provided with a gear, a driving gear mounted on said standard coacting wtih said gear on said nut, a tubular lifting member disposed in said standard and externally threaded to coact with said nut, a yieldingly supported pin disposed radially in said lifting member and coacting with said spiral groove to rotate said lifting member during its longitudinal travel under the action of said nut and yielding to permit the rotation of said lifting member and nut as a unit in one direction when the pin is in the horizontal planes of the ends of said groove, and a second lifting member disposed within and having threaded engagement with said tubular lifting member and provided with a head.

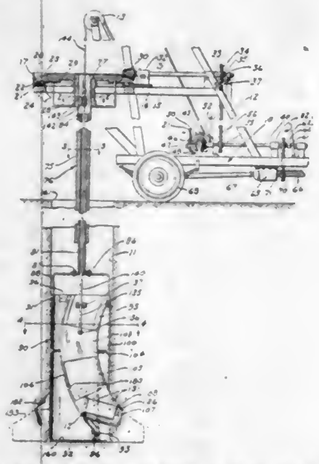
1,665,364. AMUSEMENT DEVICE. MILO E. HUTH, Alliance, Ohio. Filed June 2, 1927. Serial No. 195,977. 3 Claims. (Cl. 273—102.)

1. A target including a sheet of rubber and the like having an aperture therein, a substantially vertical tube communicating at its upper portion with said aperture, a pivoted plate normally closing the lower end of the tube, a contact arm fixed upon said pivoted plate, an electrically operated signal associated with the target, a second pivoted contact arm adjacent to the first named contact arm, means for normally holding the second contact arm against movement, a circuit connected to the signal, said circuit being broken and connected to both pivoted contact arms, whereby a projectile entering the tube through said aperture will fall upon the pivoted plate and tilt the same to move the first named pivoted arm into con-



tact with the second pivoted arm to close the circuit to the signal, and means for tilting the second pivoted arm to permit the pivoted plate to swing downward to release the projectile therefrom.

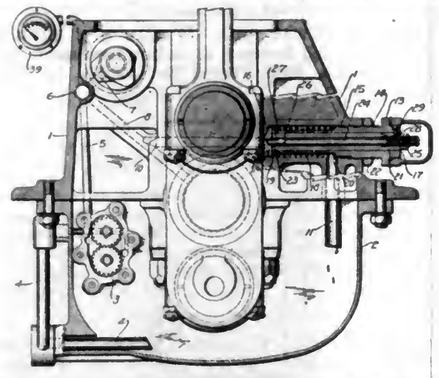
1,665,365. APPARATUS FOR FORMING MOLDS FOR COLUMNS WITH BASES. FRANCIS H. HUNT and FRANK N. ROPP, Los Angeles, Calif., assignors, by mesne assignments, to Raymond Concrete Pile Company, Los Angeles, Calif., a Corporation of New Jersey. Filed Apr. 26, 1926. Serial No. 104,582. 22 Claims. (Cl. 255—21.)



1. In an apparatus for forming a mold for a column with a base, means for removing material surrounding the extreme lower portion of said mold in order to form an enlarged base portion for the mold, said removing means including a cutting device and a receptacle for receiving material direct from said cutting device.

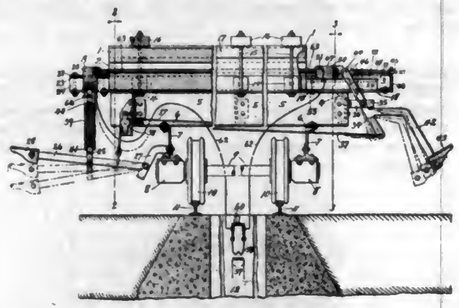
1,665,366. LUBRICATION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. FERDINAND JEHLE, Cleveland Heights, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 26, 1926. Serial No. 104,649. 5 Claims. (Cl. 184—6.)

5. In a mechanism for regulating the pressure in the lubricating system of an automotive engine, the combination with an engine crank case, of a source of lubricant under pressure, a plug screw-threaded into a wall of the crank case and comprising a cylinder, a piston reciprocable therein, said crank case wall having a lubricant conduit through a portion thereof and comprising a portion leading from the said source to a face of the piston, and a portion leading from the cylinder lateral wall at an intermediate portion thereof, said piston being spring-pressed toward a position to restrict flow of fluid under pressure from the said first portion to the said second portion of the lubricant conduit, and being responsive to the effect of lubricant pressure exerted against its said face to decrease the restrictive effect exerted upon such lubricant flow, said plug having a duct for fluid flow



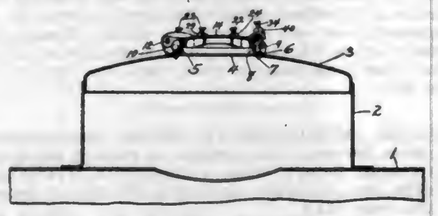
extending from its inner end to the said conduit second portion, said duct adapted to by-pass a portion of the lubricant flow, the resistance to fluid flow through the said duct being at all times independent of the movements of the piston.

1,665,367. ELECTRIC HEATER. WILLIAM S. JOHNSON and JOHN W. SHEFFER, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 25, 1921. Serial No. 455,598. 22 Claims. (Cl. 219—11.)



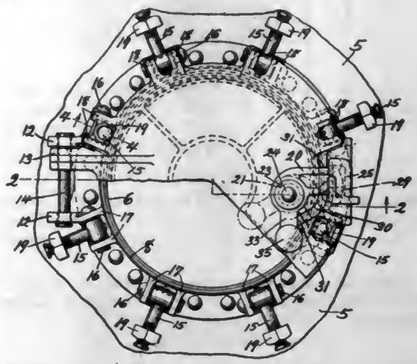
22. In an apparatus of the class described, a heater provided with a heating chamber, relatively movable work contacting electrodes located outside of and beyond the opposite ends of said chamber, and means for operating said electrodes to move the same to engage them with or disengage them from the work.

1,665,368. TANK-CAR-DOME CLOSURE. ROBERT W. JOY, Brooklyn, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 8, 1925. Serial No. 49,048. 19 Claims. (Cl. 220—55.)



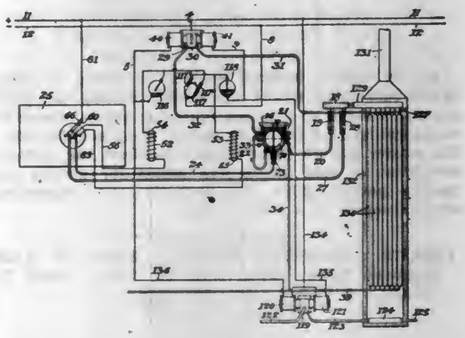
1. In combination, a tank closure, and fastenings normally holding said closure in closed position and necessitating the raising of the cover to a predetermined partly open position before they can be disengaged from the closure to allow complete removal of the latter.

1,665,369. CAR-TANK CLOSURE. ROBERT W. JOY, Brooklyn, N. Y., and VICTOR WILLOUGHBY, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 4, 1926. Serial No. 133,638. 9 Claims. (Cl. 220—55.)



1. The combination with a tank opening cover of the character described, of restraining means movably mounted on the cover for limiting the rise thereof, and co-operating engaging means on the tank, said restraining means being releasable only when the cover is partly raised.

1,665,370. REFRIGERATING APPARATUS. FREDERICK G. KEYES, Cambridge, Mass., assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 4, 1923. Serial No. 678,538. 9 Claims. (Cl. 62—118.)

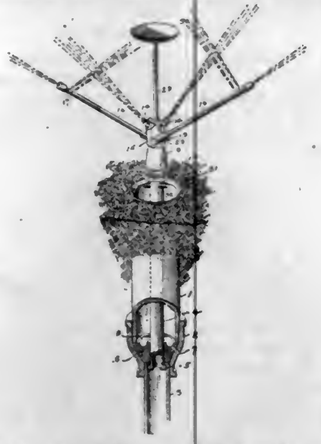


1. In a refrigerating apparatus, a still comprising an outer casing, inner casings, a cooling coil in each of said inner casings, a manifold, a delivery pipe from said manifold to each of said inner casings, and a heat source in said outer casing.

1,665,371. SPRINKLER. JOHN H. KEYS, Dayton, Ohio, assignor to The Dayton Irrigation Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 7, 1922. Serial No. 580,257. 18 Claims. (Cl. 299—61.)

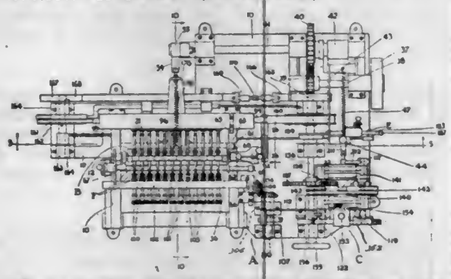
1. In a disappearing sprinkler, a vertically movable nozzle, fluid pressure means for raising and lowering

the nozzle, yielding jet propulsion arms for the nozzle, an enclosure for said nozzle when lowered into which



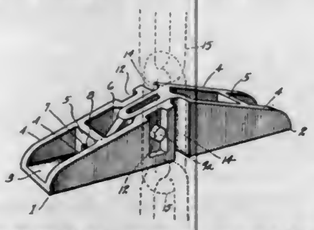
the arms are yieldingly retracted, and a closure lid fixedly attached to the nozzle for up and down movement therewith.

1,665,372. ENGINE-TURNING MACHINE. FRANK J. KRISTOPEK and WALTER F. BENSON, St. Paul, Minn., assignors to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Mar. 24, 1923. Serial No. 627,337. 43 Claims. (Cl. 90—24.3.)



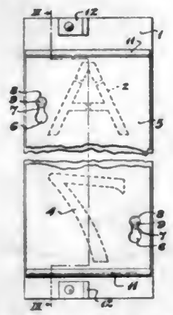
42. An engine turning machine including, a pencil barrel supporting means, means for rotating the pencil barrels, a series of diamond engraving points, means for reciprocating said engraving points along said barrels, a flat master pattern plate adapted to direct the operating movement of said points and means for moving said master pattern plate longitudinally and transversely simultaneously in a single plane.

1,665,373. CONVEYER FLIGHT. FRANK H. LAMB, Hoquiam, Wash. Filed Aug. 30, 1926. Serial No. 132,504. 3 Claims. (Cl. 198—176.)



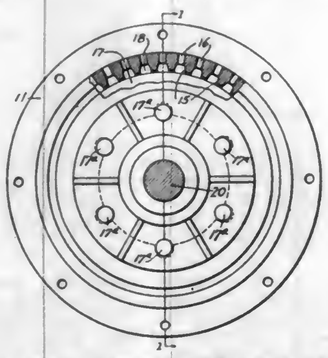
1. A conveyer flight comprising opposite end sections; one having spaced side flanges and a connecting web toward its outer end provided with an opening, the other end section having a continuing shank at its inner end removably fitted between the said spaced side flanges of the first section with its end fitted in said web opening and a removable locking bolt extended through the said flanges and shank near the base of the latter.

1,665,374. RAILWAY SIGN. WILLIAM H. B. LAVARACK, Pine Bush, and BEVERLY A. LUNDY, Larchmont, N. Y. Filed Apr. 6, 1926. Serial No. 100,011. 1 Claim. (Cl. 40—135.)



In a sign, in combination; a plate formed with cut-away portions extending through the plate in the form of letter or figure characters, fastening means extending rearwardly from the plate, headed lugs projecting from the rear face of the plate, and a backing plate having a light-reflecting surface and provided with slots having enlarged portions to receive said headed lugs to thereby removably hold the plates together, said backing plate having rearwardly projecting flange portions forming handholds for positioning it upon the front plate or removing it therefrom.

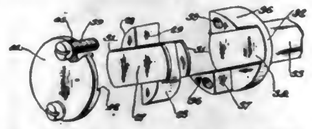
1,665,375. METHOD OF PRODUCING CLUTCH DRUMS. HAROLD S. MACCHESNEY, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 6, 1927. Serial No. 189,293. 4 Claims. (Cl. 29—159.)



1. The method of forming clutch drums, consisting of casting a cylindrical blank with spaced grooves in its peripheral face, and subsequently cutting through the blank from its interior into all of such grooves to provide spaced longitudinal teeth upon the interior of the blank.

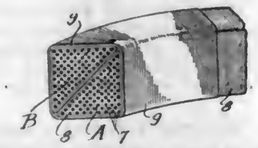
1,665,376. MOTOR-VEHICLE BRAKE. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 21, 1924. Serial No. 687,460. 9 Claims. (Cl. 188—194.)

1. In a motor vehicle brake mechanism having a brake drum and a pair of pivoted shoes adapted to be moved apart into contact with the drum, the combination of a slotted member having projecting portions with oppositely disposed faces forming abutments, an actuating shaft integral with the head, a cap member secured to the head having a slot parallel to and spaced from the slot in the head member, and a two lobed



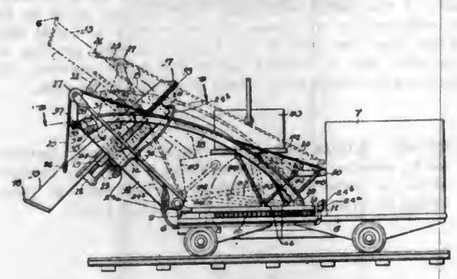
cam slidably mounted in the head member to actuate the shoes and adapted to be turned by the head member, said cam having spaced parallel wings adapted to co-operate with the slots and oppositely disposed shoulders engaging the abutments to limit the sliding travel of the cam in the head.

1,665,377. PACKING. GEORGE F. MURPHY, Philadelphia, Pa. Filed Mar. 4, 1927. Serial No. 172,846. 5 Claims. (Cl. 154—45.5.)



1. A substantially rectangular flexible packing having a core composed of two bundles of wire, each bundle being triangular, and a covering for holding the triangular bundles together.

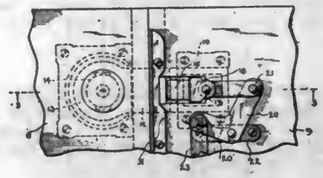
1,665,378. POWER SHOVEL. ERNEST E. PETERSON, Carson Lake, Minn. Filed Oct. 17, 1924. Serial No. 744,146. 11 Claims. (Cl. 214—90.)



1. In a power shovel adapted for tunneling in restricted space, a turn table, a boom extending obliquely from said table and pivoted upon a horizontal axis thereon, a scoop and a chute communicating with said scoop, pivoted on said boom, a substantial distance above said table, said scoop being adapted to project upward above the upper end of said boom to operate upon the roof of a tunnel, means for extending and retracting said scoop and chute on said boom, means for tilting said chute on said boom and a receptacle arranged to receive excavated material directly from said chute, when said scoop is elevated.

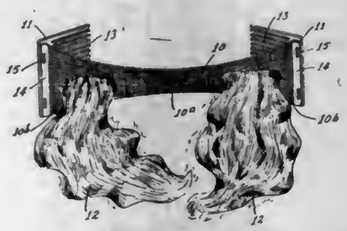
1,665,379. TRUNK LOCK. JULIUS RITTER, Jr., and MARTIN RASMUSSEN, Racine, Wis., assignors to Hartmann Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 6, 1925. Serial No. 67,312. 5 Claims. (Cl. 70—115.)

1. In a trunk lock, a pair of spaced securing mechanisms, one of which is provided with a pivoted hasp portion, a slidable member moved by the hasp portion, a bell crank lever connected to the slidable member, the other of the securing mechanisms having a hook member and a latch member for receiving the hook mem-



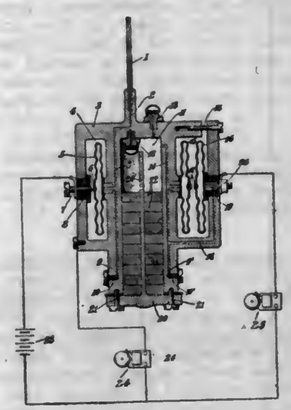
ber, and a bar member pivotally connected to the bell crank lever and rigidly connected to the latch member for moving said latch member into locking engagement with the hook member.

1,665,380. WOMAN'S HEADDRESS. LOUIS RUFFIO, New York, N. Y. Filed Apr. 11, 1925. Serial No. 22,290. 5 Claims. (Cl. 132—53.)



1. A head-dress comprising a two part elastic body portion adapted to pass partially about the head of the wearer, means interposed between the said body parts for adjusting the normal length of the body portion, tufts of hair secured to each elastic part and attaching means carried by the free end of each part for insertion on the head of a wearer.

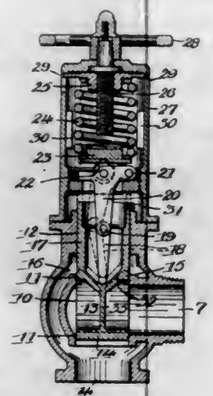
1,665,381. AUTOMATIC FIRE ALARM. JOSEPH SIDDALL, Arlington, and WILLIAM HENRY SIDDALL, Kearny, N. J., assignors to New Jersey Fire Alarm Company, a Corporation of New Jersey. Filed Nov. 10, 1921. Serial No. 514,168. 19 Claims. (Cl. 177—355.)



18. A pressure fire alarm system comprising tubing located through the area to be protected, a pressure chamber of materially greater capacity per unit of length

than said tubing, said tubing being in communication with said pressure chamber through a restricted orifice, a signal and fluid operated signal control means communicating with said chamber through another orifice, said means being subject to the pressure in said chamber and responsive to increase of pressure therein to operate said signal, said system having a vent to atmosphere.

1,665,382. RELIEF MECHANISM FOR PUMPS. LEONIDAS P. STOREY, St. Paul, Minn., assignor of one-half to Waterous Fire Engine Works, a Corporation of Minnesota. Filed Apr. 24, 1926. Serial No. 104,315. 3 Claims. (Cl. 137—53.)

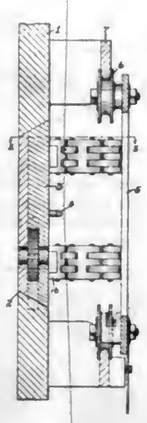


1. The combination in relief mechanism for a pump, of a fluid delivery conduit, a relief valve having inlet and outlet openings, said inlet opening communicating with the delivery conduit of said pump, a closure in said valve, a spring arranged to normally maintain said closure in closed position and adapted to permit opening of said valve when a predetermined pressure is applied in said delivery conduit, a lever and a toggle finger pivotally joined, end to end, and interposed between said spring and closure to transmit movement of said closure to said spring, and a laterally projecting portion of said lever having a pivotal support in the valve, said spring being arranged to normally maintain said finger in alignment with a portion of said lever and said lever and finger being arranged to be thrown out of alignment one with the other to thereby increase the leverage of said closure on said spring when said spring is deflected.

1,665,383. FLOOR FILLER WITH PYROXYLIN BASE. ARNOLD M. TAYLOR and FRANK A. BUOTE, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 29, 1925. Serial No. 5,620. 6 Claims. (Cl. 134—79.)

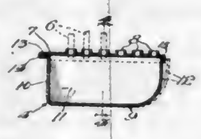
3. A filling composition for use in preparing porous wooden surfaces for the reception of pyroxylin finishing coatings, which comprises a pyroxylin base, a solvent for the same, a diluent and a soft, non-crystalline starch, and wherein the solvent and diluents are so adjusted that on drying, the lacquer solids are precipitated in a fine state of division and envelop and bind the starch particles in the pores of the wood.

1,665,384. DOOR MOUNTING. CHARLES O. VIERS and LOVELL D. SHELDON, Toledo, Ohio. Filed June 28, 1926. Serial No. 117,956. 1 Claim. (Cl. 16—179.)



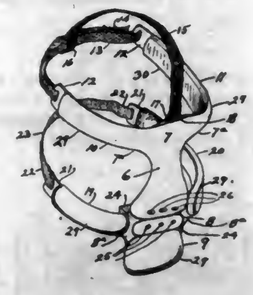
A hinge for connecting a door to a support spaced from and parallel to the door opening for movement of the door in a plane parallel to the plane of the door opening and the support, composed of a pair of oppositely disposed plates, one of which is formed to be connected to the outer face of a side of the door and to extend beyond the said side of the door, and the other of which plates is formed to be secured to the inner face of the adjacent side of the support and to project beyond said side of the support and toward the first named plate, and links pivotally connecting the said projecting inner ends of the plates, said links being formed so as to lie in substantially the plane of and between the said side of the door and that of the support in open position of the door, and to extend across the space between the door and its support in closed position of the door.

1,665,385. RADIATOR. WILLIAM G. WALLACE, Detroit, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed Sept. 8, 1924. Serial No. 736,394. 4 Claims. (Cl. 257—125.)



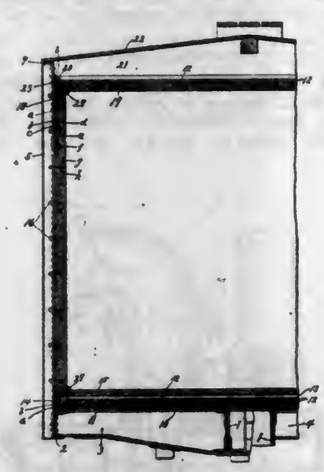
1. A tank for use in a motor vehicle radiator core, having a convex front, said tank comprising a body and a tube sheet covering therefor, both being stamped from sheet metal, said tank body and tube sheet having their front edges curved to conform to the curvature of the convex front of the core, said tank body and tube sheet having interlocking flanges on their rear edges, said tube sheet having a flange on its curved front edge to overlap the curved front wall of the tank body on the outside thereof, the front wall of the tank body being sprung back of said tube sheet flange to engage the same for holding the parts together on being assembled.

1,665,386. FACE GUARD OR MASK. IRVING G. WALMER and JOHN A. SAWYER, Albany, N. Y. Filed Feb. 21, 1924. Serial No. 694,883. 3 Claims. (Cl. 2—9.)



1. In a face guard having a continuous sheet metal frame, portions to said frame including forehead, nose, temple and jaw guard portions, said temple and said jaw portions being of strip formation, forming horns, projecting independently, rearward, having a clear unobstructed space between said jaw portions and said temple portions, thruout their length, means for holding said horns to the head of the wearer, and other means for supporting said frame from the top of the head of the wearer.

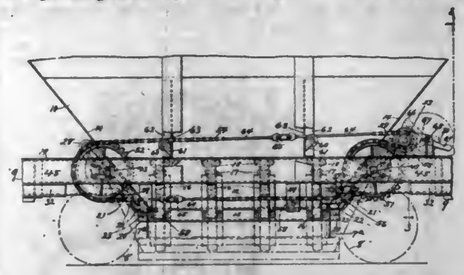
1,665,387. REFRIGERATOR CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 21, 1923. Serial No. 640,411. 25 Claims. (Cl. 105—423.)



1. In a refrigerator car, posts and a laminated outer heat insulating wall formed of a plurality of fabricated cellular sheets carried by said posts, the laminations adjacent transversely of the wall contacting with each other.

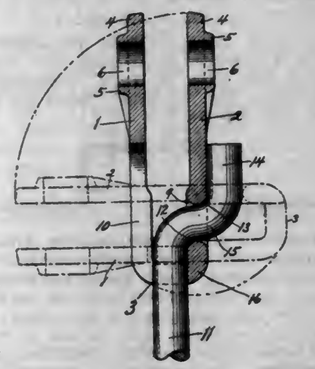
1,665,388. HOPPER CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 20, 1923. Serial No. 652,733. 25 Claims. (Cl. 105—250.)

1. A hopper car having a single discharge opening, a pair of drop doors closing said opening and hinged longitudinally of the car, crank shafts mounted at opposite ends of the discharge opening and connected to the doors, an operating shaft, sprockets on said crank and operating



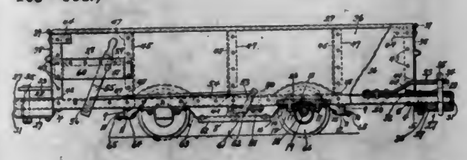
shafts, a continuous chain power transmission connecting all of said sprockets and loose connections between said crank shafts and their respective sprockets.

1,665,389. BRAKE-ROD JAW. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 23, 1923. Serial No. 670,294. 9 Claims. (Cl. 287—20.5.)



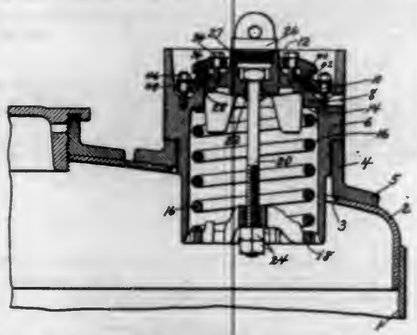
1. In combination, a brake rod jaw comprising a unitary open-ended U shaped member with an opening in one leg to receive the end of a brake rod and a slot in the other leg to permit insertion of the brake rod in the opening of the first leg; and a brake rod with a rigid offset extremity parallel to the body of the rod and engaged in the opening of the first leg, but leaving the space between the legs free to accommodate the member to which the jaw is to be connected in service.

1,665,390. MINE CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 11, 1925. Serial No. 29,462. 18 Claims. (Cl. 105—364.)



1. In a mine car, side sille forming the car side walls, end angles and ties connecting said sills, a floor carried by said end angles and ties, end walls connecting said side walls and having bottom flanges lapping and being connected with said floor.

1,665,391. SAFETY VALVE. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1925. Serial No. 32,095. 15 Claims. (Cl. 137—53.)



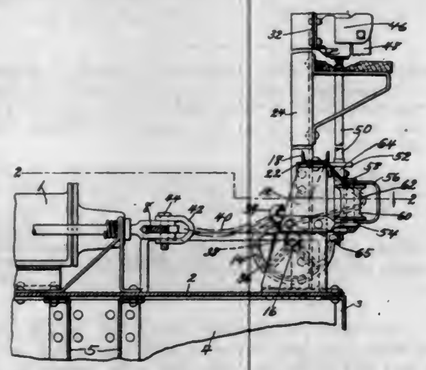
13. In a safety valve, a casing having a valve seat, a valve yieldingly held to said seat, and a frangible seal secured to said casing and said valve on the side of the valve normally free from pressure, said seal being broken by said valve upon opening thereof to permit release of excess fluid under pressure.

1,665,392. CAR ROOF. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 17, 1925. Serial No. 56,991. 3 Claims. (Cl. 108—54.)



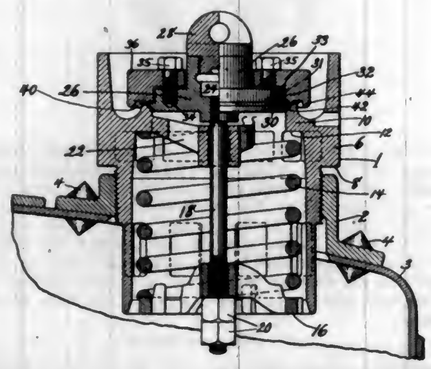
1. In a roof for railway cars, inverted carlines having a web portion, sides and outwardly extending flanges, a plate resting upon one of said flanges and extending over the adjacent side and said web with the end thereof extended beyond said web, a second plate resting upon the other flange and extending along the side of the web adjacent said other flange, the ends of said two plates being seamed with the seam folded to lie substantially parallel with one side of said carlines.

1,665,393. BRAKE MECHANISM. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 18, 1925. Serial No. 76,197. 4 Claims. (Cl. 254—149.)



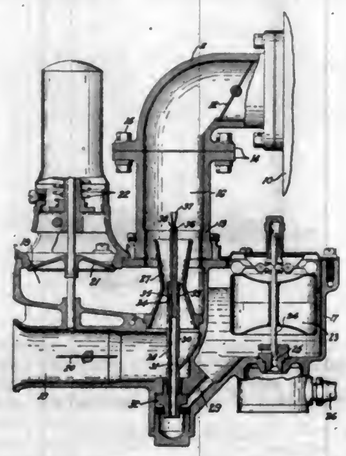
1. In a car brake mechanism having a brake lever, a power multiplying device, a power transmitting connection between the brake lever and the power multiplying device, a brake staff mounted out-of-line with said device, a second power transmitting connection between said device and staff, a brake staff step, and direction changing means for said second power transmitting connection carried by said brake staff step.

1,665,394. SAFETY VALVE. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1927. Serial No. 165,150. 13 Claims. (Cl. 137—53.)



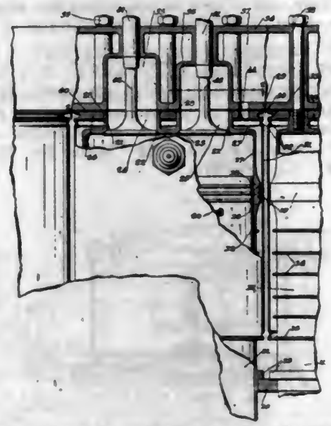
1. In a safety valve, a casing, a valve portion normally cooperating with said casing to effect a closure and a gasket cooperating with said valve portion and casing to prevent leakage, said gasket being replaceable while the valve portion is in its closing position for retaining pressure.

1,665,395. CARBURETOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 11, 1921. Serial No. 483,994. 10 Claims. (Cl. 261—41.)



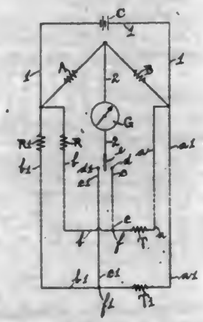
4. A carburetor comprising a float chamber, a mixture tube adjacent thereto, and a fuel nozzle connected to the float chamber and having a well with its only outlet means opening into the mixture tube slightly above the liquid level and having a second opening somewhat above the top of the well and in the main air-stream.

1,665,396. INTERNAL-COMBUSTION ENGINE. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 7, 1923. Serial No. 679,065. 14 Claims. (Cl. 123—173.)



1. In an internal combustion engine, the combination of a cylinder, having upwardly extending bosses forming the cylinder ports, a plate welded to said bosses and extending substantially parallel to the top of the cylinder and beyond the cylinder barrel, a water jacket casing secured to the periphery of said plate and extending downwardly parallel to the wall of the cylinder and secured thereto near its lower end, and a valve supporting element secured to the cylinder above said plate and having a water jacket in communication with the water jacket of the cylinder.

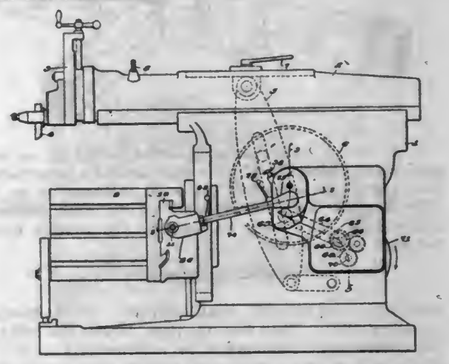
1,665,397. ELECTRICAL MEASURING APPARATUS. FELIX WUNSCH, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 9, 1923. Serial No. 637,711. 14 Claims. (Cl. 73—32.)



1. A Wheatstone bridge comprising ratio arms, a plurality of third and fourth arm paths permanently connected with said ratio arms, and conjugate conductors, there being an unknown resistance in each third arm path, and switching mechanism in one of said conjugate conductors for connecting it with any third and fourth arm junction.

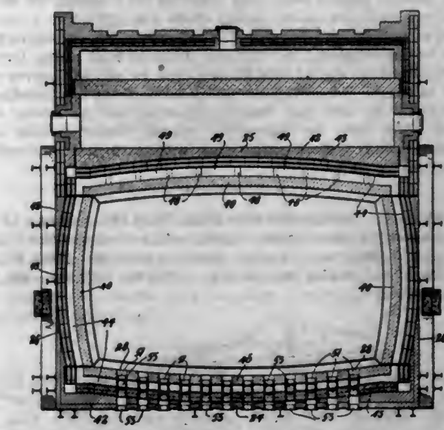
1,665,398. SHAPING MACHINE HAVING CONSTANT POWER TRAVERSE. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Mar. 13, 1926. Serial No. 94,451. 18 Claims. (Cl. 90—39.)

1. A shaper combining a table; a table propelling-transmission therefor; a feed transmission adapted to impart intermittent motion to said table-transmission in a given direction; a quick-traverse transmission adapted to impart continuous motion to said table transmission; and a shift-mechanism arranged only so to connect said quick-traverse transmission that it will drive said table in a direction opposite to that previously imparted by said feed-transmission.



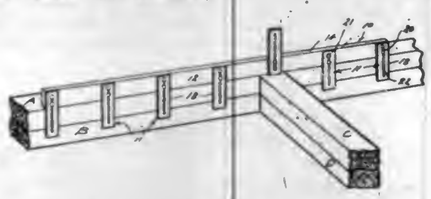
14. A shaper combining a body-casting; a ram; a unidirectional bull-gear; a cross-rail; a table; a transmission-system leading to said table and comprising a common shaft from the side of said body-casting adjacent said bull-gear to said cross-rail; a bull-gear transmission; a master-clutch therefor; an intermittent-motion transmission driven synchronously with said bull-gear and comprising a feed-stroke regulator located adjacent said bull-gear; a fast-motion transmission driven continuously independently of said master-clutch; a second clutch adjacent said bull-gear for causing either of said two transmissions to convey motion to said common shaft; means for normally maintaining said second clutch in operative relation with said intermittent motion transmission but enabling it manually to be held in operative relation with said continuous motion transmission; and a single motion-reverser located at the cross-rail for simultaneously reversing the directional effects on the table of both of said transmissions.

1,665,399. PULVERIZED-FUEL-BURNING FURNACE. JOHN ANDERSON, Milwaukee, Wis., assignor to Combustion Engineering Corporation, a Corporation of New York. Filed May 13, 1921. Serial No. 469,131. 12 Claims. (Cl. 110—28.)



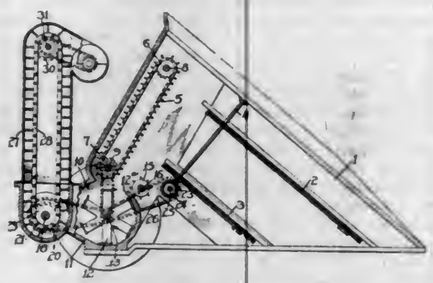
1. A quadrangular pulverized fuel combustion chamber with substantially isolated refractory walls flat-curved horizontally for strength and stability.

1,665,400. MARKING TOOL. FREDWILL BITTNER, Los Angeles, Calif. Filed Feb. 3, 1927. Serial No. 165,560. 2 Claims. (Cl. 33—174.)



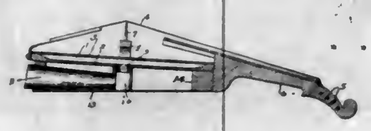
1. A tool of the character described including, an elongate body, a plurality of arms each having a longitudinal slot, and means mounting the arms transversely on the body to slide freely transversely of the body including guides fixed transversely on the body and slidably fitting the slots in the arms.

1,665,401. ENSILAGE HARVESTER. FRED BLECKE, Luckey, Ohio. Filed Dec. 11, 1926. Serial No. 154,162. 3 Claims. (Cl. 146—118.)



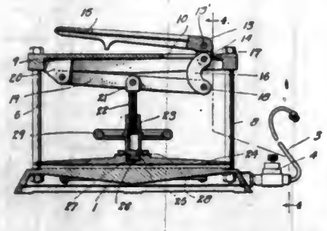
3. In an ensilage harvester, a casing having a chamber extending transversely thereof, a shaft extending through said chamber, wheels mounted on the ends of said shaft, a rotary cutter on said shaft, means for feeding ensilage to said chamber, a housing connected to said casing in rear thereof and having an interior in free communication with said chamber and so arranged that said rotary cutter expels the cut ensilage from the chamber directly into the housing, said housing being of slightly greater length than said chamber and having its discharge end spaced outwardly from the chamber, a conveyor within said housing for delivering the cut ensilage to one side thereof, a vertically disposed tube rising from the discharge end of said housing and an endless conveyor in said tube for elevating the material from the housing, whereby in case the endless conveyor should break, it will drop into the outwardly spaced discharge end of the housing without interfering with said first conveyor and rotary cutter.

1,665,402. HORN-RESONATOR VIOLIN. GLENN D. BOTHWELL, Springport, Mich., assignor of one-third to Guy J. Bothwell, London, Ontario, Canada. Filed Feb. 26, 1923. Serial No. 621,272. 1 Claim. (Cl. 84—296.)



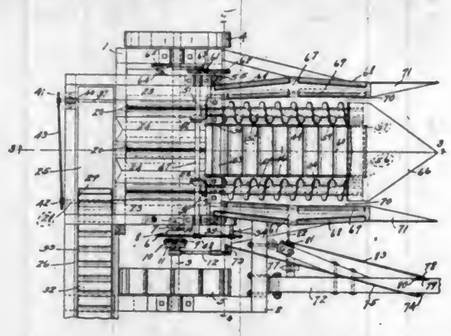
A horn resonator violin comprising a body having one surface thereof, formed with a depression extending to the marginal regions of said surface, a diaphragm member mounted upon said marginal portions, and extending across said depression, a bridge member extending across said diaphragm and secured terminally to opposite marginal portions of said body, strings supported upon said bridge member intermediately and terminally connected to said body, and a horn in communication with the depression of said body substantially centrally of said depression.

1,665,403. DRYING PRESS. ARTHUR W. CAPE, Kansas City, Mo., assignor, by mesne assignments, to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 20, 1925. Serial No. 24,691. 4 Claims. (Cl. 100—67.)



1. A drying press comprising a base providing a fixed platen, vertical rods on the base, a bar connecting the rods, a movable platen guided by the rods, an elbow lever pivoted to the bar and having an arm extending above the bar, a lever pivoted at one end to a part beneath the bar, a crescent shaped link connecting the first lever to the second, a screw nonrotatably carried by the second lever and a rotatable sleeve carried by the movable platen and having threaded connection with the screw.

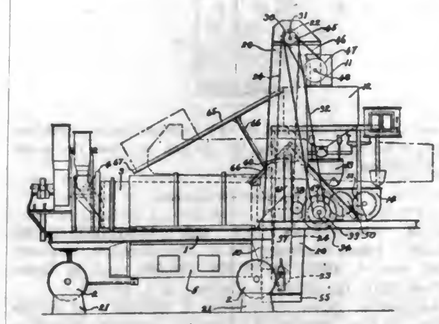
1,665,404. CORN-SHUCKING MACHINE. JOHN F. CRABILL, La Harpe, Ill. Filed June 13, 1924. Serial No. 719,731. 1 Claim. (Cl. 56—110.)



In a corn harvesting machine embodying a wheel borne chassis and drafting means therefor, the combination of a spaced and parallel pair of upwardly and rearwardly inclined snapping rolls journaled in the chassis, a plurality of horizontally arranged pairs of husking rolls journaled in the chassis immediately back of and under the elevated rear ends of the said snapping rolls and in parallelism with the extended vertical planes passing down through the said snapping rolls, V-shaped corn guides mounted over the junctures of the several pairs of shucking rolls, a perforated shuck handling plate oscillatably mounted below the said husking rolls, a sloping kernel catching bottom arranged below the said shuck handling plate, an elevator shoe arranged transversely at the rear of the chassis and adapted to catch the ears of shucked corn from the husking rolls and the kernels from the sloping bottom, means for catching and elevating

the ears of unhusked corn from the snapping rolls over onto the husking rolls, means for supporting the upper free ends of corn stalks with their ears of corn to the action of the machine, and means for driving the several working elements of the machine.

1,665,405. PORTABLE ASPHALT-MIXING PLANT. FREDERICK H. CUMMER, Los Angeles, Calif. Filed Feb. 27, 1926. Serial No. 91,097. 9 Claims. (Cl. 94—43.)

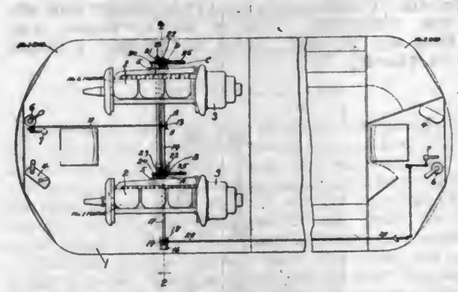


1. A portable mixing plant for road material, comprising a main frame, an elevator unit including elevating mechanism and a supporting frame therefor, said elevator unit being pivotally mounted at approximately its own center of gravity upon said main frame, whereby it may be swung about its pivot either to a substantially vertical operative position or to a substantially horizontal inoperative position without disassembling said unit.

1,665,406. METHOD OF RECOVERING ALUMINUM CHLORIDE FROM SLUDGE. PAUL DANCKWARDT, La Junta, Colo. Filed Apr. 23, 1927. Serial No. 186,054. 10 Claims. (Cl. 23—96.)

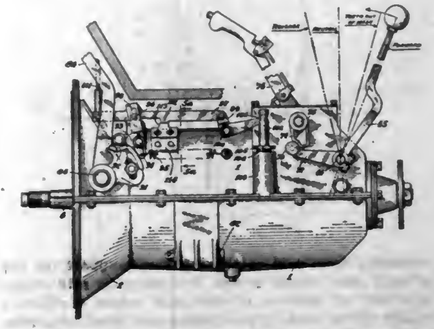
1. The process of producing aluminum chloride, which consists in injecting "sludge", a compound of aluminum chloride and hydrocarbon, and a gas into a body of molten metal, and condensing the aluminum chloride.

1,665,407. THROTTLE CONTROL FOR CARBURETORS. FREDERICK E. DAYES, Brooklyn, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 17, 1925. Serial No. 56,981. 27 Claims. (Cl. 180—77.)



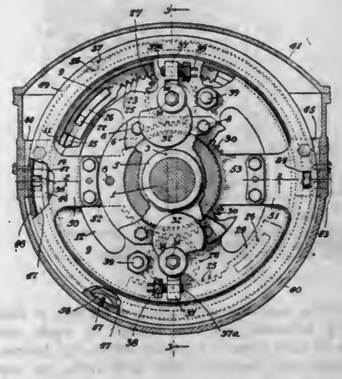
1. In combination, a plurality of carburetors, a plurality of cams adapted to operate each of said carburetors, and a plurality of devices each adapted to operate one cam associated with each carburetor, said devices operating the cams to effect operation of the carburetors in different orders from different points.

1,665,408. VARIABLE-SPEED POWER TRANSMISSION. ALEXANDER DOW, New York, N. Y., assignor to Dow Transmission Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1925. Serial No. 61,509. 14 Claims. (Cl. 74—34.)



1. In a transmission of the character described, the combination with driving and driven shafts of variable change speed gearing for interconnecting them, with means responsive to a reversal of driving relations between the said shafts for controlling and varying its transmission ratio, and selective means for controlling and varying the operation of said ratio-controlling means and thereby varying the order and number of transmission ratios in the operation of the transmission.

1,665,409. CLUTCH MECHANISM. ALEXANDER DOW, New York, N. Y., assignor to Dow Transmission Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1925. Serial No. 74,804. 15 Claims. (Cl. 192—105.)

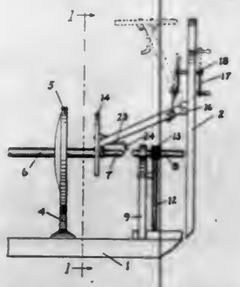


15. In a clutch mechanism, the combination of driving and driven members; centrifugal clutch means for interconnecting and releasing them; and means carried by one of the members for initially actuating said clutch means, to connect or release said members, according to the direction of rotation.

1,665,410. PROJECTION APPARATUS. CECIL M. FOX, Toledo, Ohio, assignor to The Rollaway Motor Company, a Corporation of Ohio. Filed Feb. 14, 1927. Serial No. 167,889. 5 Claims. (Cl. 176—51.)

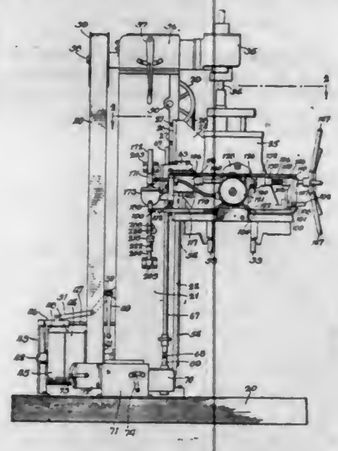
1. In a projection apparatus, a reflector, a pair of electrodes having their arc-producing ends in front of said reflector, a shield interposed between said reflector and

the arc-producing ends of the electrodes for preventing particles of the electrodes from injuring the reflector while the arc is being struck, an arm fixed to and extend-



ing outwardly from said shield, a pivotal support for the end of said arm, crank means for swinging said shield into and out of position of use, and means carried by said shield for accurately positioning said electrodes relative to the reflector.

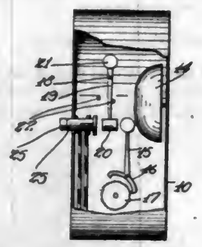
1,665,411. DRILLING MACHINE. ROBERT M. GALLOWAY and PAUL C. BURTON, Richmond, Ind., assignors to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed Sept. 7, 1923. Serial No. 661,447. 30 Claims. (Cl. 77—32.)



1. A drilling machine combining a frame; a drill-head translatably mounted on the frame; a rack arranged lengthwise of said frame; a pinion rotatably journaled in said drill-head and meshing with said rack; an eccentric motor mounted on said head; an operative connection between said motor and said pinion whereby the former may rotate the latter to effect rapid traverse of the drill head; a motor controlling switch carried by said drill-head; manual means to actuate said switch to cause said motor rapidly to traverse said head; and automatic means controlled by the movement of said head to actuate said switch to discontinue the rotation of said motor and thereby the movement of said head.

1,665,412. COMBINED ALARM CLOCK AND LAMP. FREDERICK J. T. HALL, Akron, Ohio. Filed Feb. 24, 1925. Serial No. 170,640. 2 Claims. (Cl. 161—22.)

1. In a combined clock and lamp, an alarm mechanism including a hammer, a lamp and circuit therefor, a switch positioned adjacent the hammer and adapted for operation through movement of said hammer, and a swinging member suspended between the switch and hammer

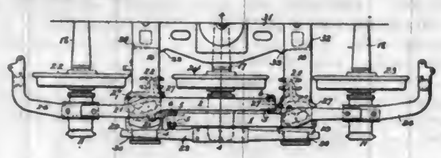


and having a head engaged by the hammer upon actuation thereof, said head engaging the switch to close the same upon actuation by the hammer.

1,665,413. MANUFACTURE OF STRENGTHENED GLASS. PERCY HERBERT HEAD, Attenborough, England. Filed Apr. 4, 1927, Serial No. 180,992, and in Great Britain Mar. 15, 1926. 7 Claims. (Cl. 49—81.)

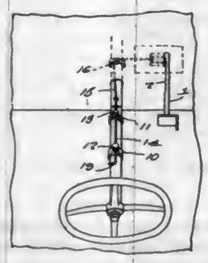
6. Laminated glass, comprising a plurality of sheets of glass having interposed between adjacent sheets a celluloid strengthening sheet, a cementing material for uniting said celluloid sheet to the glass shets, and a combined solvent and cromatic stabilizing mixture comprising industrial spirit, amyl acetate, and tetrachlorethane.

1,665,414. SIX-WHEEL CAR-TRUCK CONSTRUCTION. GEORGE T. JOHNSON, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Feb. 10, 1927. Serial No. 167,279. 9 Claims. (Cl. 105—195.)



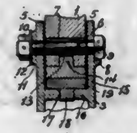
1. A car truck comprising side frames, two transverse bolsters mounted in the side frames, and a longitudinal bolster mounted within the transverse bolsters and having a key connection at its end portions therewith.

1,665,415. PARKING-BRAKE ATTACHMENT FOR MOTOR VEHICLES. MICHAEL KEHOE, Tucson, Ariz. Filed May 19, 1927. Serial No. 192,729. 4 Claims. (Cl. 74—89.)



1. In combination, a foot brake pedal provided with a series of ratchet teeth, a spring pressed pawl slidably mounted on the under side of an automobile floor board and adapted for engagement with the ratchet teeth to hold the foot brake pedal in a brake applying position, means for releasing the pawl from a remote point, and additional means for locking the pawl in an inoperative position.

1,665,416. SIX-WHEEL CAR-TRUCK CONSTRUCTION. JACOB C. LARSEN and CLAUDE L. ORR, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Feb. 10, 1927. Serial No. 167,316. 9 Claims. (Cl. 105—195.)



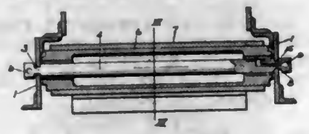
1. A six wheel truck in which each side frame comprises two end members flexibly connected respectively with ends of a central equalizing member, and wear means interposed in the flexible connections between said end and flexible members.

1,665,417. CAR-TRUCK CONSTRUCTION. JACOB C. LARSEN, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Feb. 10, 1927. Serial No. 167,317. 6 Claims. (Cl. 105—195.)



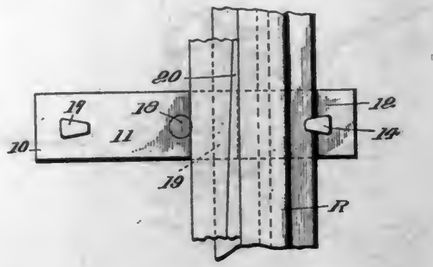
1. In a car truck structure, the combination with relatively movable members, of a flanged wear plate on one of said members, a wear plate mounted on the other member, a swinging link extending from one of said members and through the wear plates and the other member, and a bolt passing through the flanges of the flanged wear plate, through the member to which it is applied and through the upper portion of said link.

1,665,418. ROLLER SUPPORT. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Mar. 15, 1922, Serial No. 543,984. Divided and this application filed June 8, 1923. Serial No. 644,170. 6 Claims. (Cl. 308—12.)



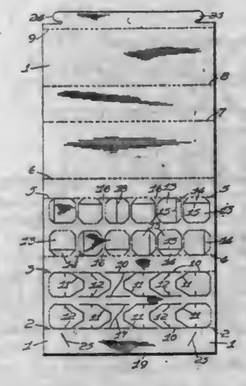
1. In a machine of the class described, the combination with side plates each having a circular aperture, and a slot of a width materially less than the diameter of said apertures extending therefrom, a cylindrical shaft the diameter of which is only slightly less than the diameter of said apertures whereby said shaft can be moved longitudinally through said apertures for removal or insertion, notches in said shaft positioned and arranged to permit lateral movement of said shaft into said slots and to engage the edges thereof to prevent either longitudinal or rotary movement of said shaft relative to said plates, a pulley journaled on said shaft, and a belt engaging said pulley, the tension of the belt acting to hold said shaft in said slots as and for the purpose set forth.

1,665,419. MINE AND RAILWAY TIE PLATE. JOHN THOMAS MORRIS, Glen Morrison, W. Va. Filed June 15, 1927. Serial No. 199,010. 2 Claims. (Cl. 246—453.)



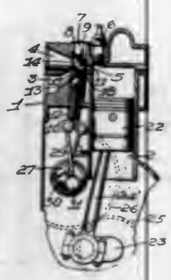
1. A railway tie plate comprising a body member of metal having an integral bent over portion overlapping the body portion and presenting a smooth, uninterrupted surface upon which a switch point may slide, said overlapping portion being of shorter length than the said body portion so that the free extremity of the bent over portion is spaced from the adjacent free end of the body portion to provide a rail supporting area, the said free extremity of said bent over portion being positioned to engage an adjacent flange of a rail resting upon said rail supporting area, the overlapped portions of the tie plate being provided with registering spike receiving holes, said rail supporting area also having a spike receiving hole so positioned that a spike driven therethrough will cooperate with said bent over portion to retain the rail in place.

1,665,420. EGG HOLDER. EDWARD ELLSWORTH PINKERTON, Chicago, Ill., assignor to Mary A. Pinkerton, Chicago, Ill. Filed Mar. 21, 1927. Serial No. 177,109. 3 Claims. (Cl. 229—29.)



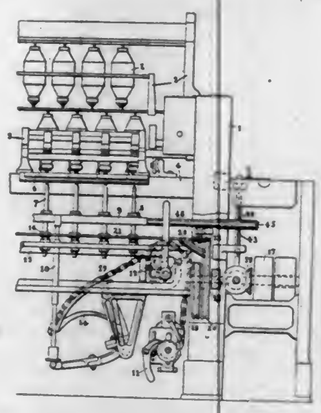
1. An egg holder, comprising an upper sheet having slits arranged to form tongues therein, said tongues having slits extending inwardly from the edges thereof, a bottom, a central sheet disposed between the bottom and the upper sheet and having slits to form tongues, integral brace members carried by said central sheet adjacent to the bases of said tongues, the tongues of the central sheet being in registration with the tongues of the upper sheet and the slits of the tongues in the upper sheet being arranged to receive said brace members when said slitted tongues are forced downwardly by the insertion of eggs in the openings left by the tongues.

1,665,421. INTERNAL-COMBUSTION ENGINE. GARLAND H. ROOSE, Chicago, Ill. Filed Jan. 28, 1927. Serial No. 164,283. 2 Claims. (Cl. 123—188.)



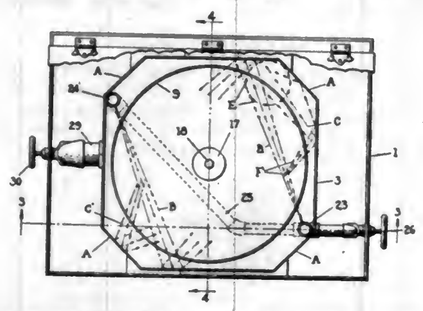
1. In a device of the type described, a cylinder having an opening therein, an intake port, an exhaust port, an outer reciprocating valve having an intake opening and an exhaust opening therein, an inner reciprocating valve having a passageway therethrough, a valve guide having a single passageway therethrough and positioned in alignment with the opening in said cylinder, and means for actuating said outer reciprocating valve for bringing said intake opening into and out of alignment with said intake port and passageway in said valve guide and for bringing said exhaust opening into and out of alignment with said exhaust port and the passageway in said valve guide, said means being adapted to move said inner valve for bringing the passageway therein into and out of communication with the opening in said cylinder and the opening in said valve guide.

1,665,422. DEVICE RELATING TO RING SPINNING AND TWISTING FRAMES. RUDOLF SETZER, Munich-Trudering, Germany. Filed May 2, 1927, Serial No. 188,272, and in Germany Apr. 1, 1927. 4 Claims. (Cl. 118—47.)



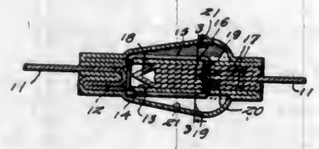
1. In a spinning and twisting frame a plurality of spindles arranged in a row and having a friction roller to drive them by means of an endless belt arranged to travel tangentially on one side and return on the other, means for driving the said belt continuously at a suitable speed and keeping it under tension, in combination with spring-actuated, yielding and alternately arranged tension rolls, the upper and lower flanges of the said tension rolls overlapping the whorves of the spindles and thus simultaneously limiting the lift of the spindles.

1,665,423. DISHWASHER. PRENTICE E. SKELTON, Indianapolis, Ind. Filed Feb. 28, 1927. Serial No. 171,561. 5 Claims. (Cl. 141—0.)



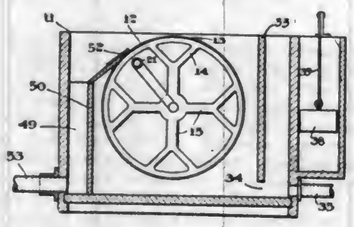
1. In dish washing machine, a revolvably mounted basket, said basket having perforated walls; vertical water conveying pipes adjacent the outer walls of said basket; said pipes having nozzle openings therein, the nozzle openings in one pipe being at different altitudes or in staggered relation with the nozzle openings of the other pipe, said nozzle openings being positioned for causing streams of water therefrom to strike the walls of said basket in a manner to set up rotation of the basket; and means for controlling the water passing thru said pipes.

1,665,424. CAR SEAL. FREDERICK STRAHM, Lawrence, Kans. Filed Jan. 15, 1927. Serial No. 161,899. 2 Claims. (Cl. 292—324.)



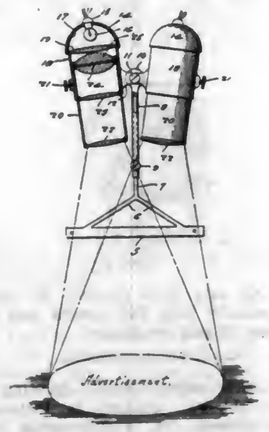
1. A car seal including a casing having one end open and its other end provided with a plurality of folds, a ribbon having one end secured within said folds and having its other end provided with a transverse opening and arranged to be inserted into the open end of the casing, and a yoke held within the folded end of the casing and having the outer ends of its arms arranged to be spread apart by the apertured end of the ribbon and to subsequently snap into said opening.

1,665,425. METHOD AND APPARATUS FOR REGULATING THE CONSISTENCY OF PULP STOCK AND THE LIKE. CHARLES R. VAN DE CARR, Jr., Quebec, Quebec, Canada. Filed Jan. 10, 1927. Serial No. 160,249. 10 Claims. (Cl. 92—46.)



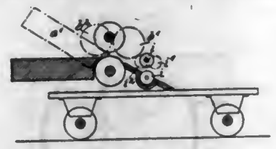
1. A method of regulating the consistency of stock in a system, which consists in passing a relatively small quantity of the stock from the system into a vat, screening the stock as it passes through the vat, allowing the deposit on the screen to regulate the level of the fluid in the vat and utilizing the differences in the levels of the fluid in the vat to regulate the supply of fluid to the system.

1,665,426. ADVERTISING LIGHT. HANS PETER VERDICH, Ellendale, N. Dak. Filed Mar. 12, 1927. Serial No. 174,933. 1 Claim. (Cl. 88—24.)



A device of the class described comprising a concavo-convex casing, a socket for a lamp in the casing, a reflector in the casing, a lens in the casing, said casing merging into a tubular member, said reflector and lens being arranged to direct rays from the lamp to the tubular member, a second tubular member threaded in the first tubular member, means for locking the second tubular member in different adjusted positions in relation to the first tubular member, a transparent panel in the second tubular member at the inner end thereof, a pair of plano-convex glasses one to each side of the panel with their plano sides against the panel, a lens in the intermediate portion of the second tubular member, and a lens in the outer end of the second tubular member.

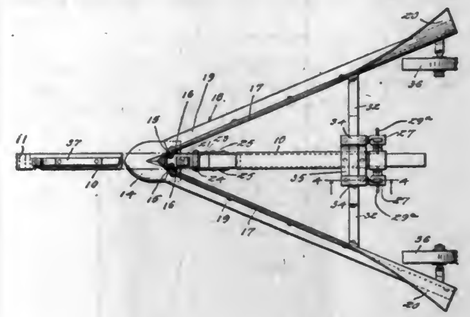
1,665,427. MANUFACTURE OF RAW PLATE GLASS ON MULTIROLLER GLASS-ROLLING MACHINES. LAMBERT VON REIS, Herzogenrath, Germany, assignor to Maatschappij tot Beheer en Exploitatie van Octrooien, Amsterdam, Netherlands. Filed Nov. 5, 1926, Serial No. 146,406, and in Germany Dec. 30, 1925. 4 Claims. (Cl. 49—33.)



1. A multi-roller glass rolling machine for manufacturing raw plate glass, comprising a tiltable receiver for the molten glass mass to be rolled out, a tiltable rolling mechanism, and adjustable chutes and guide rollers for guiding the rolled glass plates to conveying means.

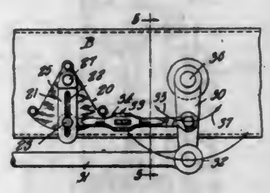
4. The combination in a glass plate roll machine of a receiver for molten glas, a pair of sheet forming rolls with a pass between them, adapted to receive glass from the receiver, and to make it into sheet form, the receiver and the forming rolls being independently movable about a common axis.

1,665,428. DITCHER. CARL WAGNER, Fort Morgan, Colo. Filed Mar. 26, 1927. Serial No. 178,738. 5 Claims. (Cl. 37—98.)



1. In a ditcher, a beam, a support extending downwardly from the beam adjacent the forward end thereof, a share secured to the lower end of the support, rearwardly diverging mold boards pivoted to the support, means connecting the rear ends of the mold boards with the beam whereby said mold boards may be secured in adjusted angular relation thereto, a second beam having its forward end pivotally connected to the lower end of the support at the rear thereof, a shoe upon the lower face of said beam at the free end thereof and means connecting the free end of the last named beam with the first named beam for vertically adjusting said free end.

1,665,429. SWITCH MECHANISM. WILLIAM S. ANDERSON, Atlanta, Ga. Filed Oct. 26, 1923. Serial No. 670,986. 1 Claim. (Cl. 200—59.)



A switch mechanism of the class described including a casing, contact members arranged in the casing, a switch arm carrying a switch blade operating within the casing, said switch arm having a right angled end portion extended through the casing, a shaft on which the arm is secured, an arm mounted on the shaft, a control lever having an elongated opening formed therein, spaced lugs on the control lever and engaging on opposite sides of the right angled end portion of the switch arm, an operating rod having one end fitted in the elongated opening, and means for moving the operating rod to operate the switch blade over the contacts of the casing.

1,665,430. FLOOR JOINTING OR TIGHTENING DEVICE. FREDERICK WILLIAM ARZT, Homestead, Fla. Filed Feb. 11, 1927. Serial No. 167,482. 2 Claims. (Cl. 254—17.)

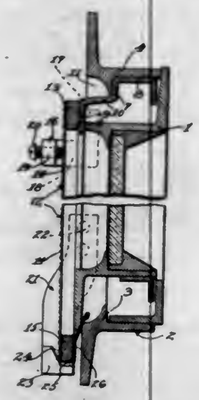
2. A floor jointing device comprising a body of inverted U-shape equipped on its upright portions with means to take hold of a beam, a lever pivotally connected adjacent to its lower end to one upright portion of the body and having its upper portion spaced from the adjacent side of the body, and plates disposed at opposite

sides of the lever and connected thereto and extended laterally from the lever; the said plates being extended laterally beyond both sides of the lever, and the plates



being secured on the lever through the medium of bolts disposed at opposite sides of the lever and extended through the plates and equipped with heads and nuts.

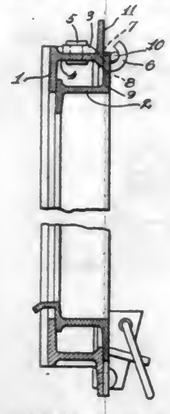
1,665,431. WINDOW. GUSTAF IVAR BARCLAY, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1927. Serial No. 158,744. 5 Claims. (Cl. 189—69.)



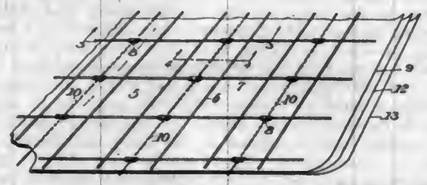
1. A screen attachable to a window having a frame, and means for detachably securing said screen to the frame, including means adjustably engageable with one end of said screen to laterally force the same toward the frame, and means engageable with the other end of said screen for automatically forcing said screen laterally toward the frame.

1,665,432. WINDOW. GUSTAF IVAR BARCLAY, Detroit, Mich., assignor to Detroit, Steel Products Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 7, 1927. Serial No. 166,517. 2 Claims. (Cl. 189—69.)

1. In a window, the combination with a sash having a head bar formed with an elongated slot adjacent the inner edge thereof, of a swinging ventilator having a head bar with an inner transverse flange formed with an elongated slot in alignment with the slot aforesaid, a member pivotally mounted upon the head bar of the sash having a hook at the end thereof extending through the said slots, the upper edge of the slot in said ventilator head bar being turned inwardly forming a pintle for said hook operable to automatically move said ventilator head bar toward said sash head bar upon closing of said ventilator.

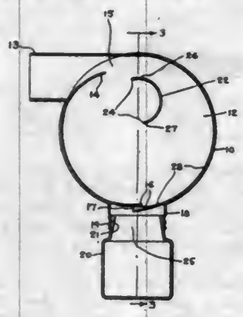


1,665,433. FABRIC STRUCTURE. EDWARD L. BENEDICT, Pittsburgh, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1926. Serial No. 128,943. 7 Claims. (Cl. 72—120.)



7. Fabric structure composed of wires, a main backing sheet, attaching members extending from points rearwardly of said sheet and connected to said wires, for holding the sheet in place, a supplemental backing sheet, and means for securing said supplemental sheet in position against the rear sides of the main backing sheet and the attaching members.

1,665,434. AIR CLEANER FOR CARBURETORS. ASHLEY C. BENNETT, Minneapolis, Minn. Filed June 17, 1925. Serial No. 37,766. 5 Claims. (Cl. 183—82.)



1. An air cleaner comprising a cylindrical casing member adapted to be positioned with its axis horizontal and having its ends closed, an air inlet arranged tangentially

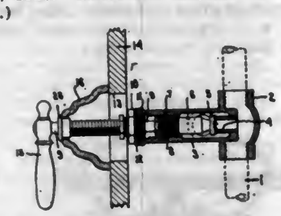
with relation to the cylinder wall, a dust-discharge passage at the lower portion of the cylinder wall, and an air outlet pipe extending through one of the end walls of the cylinder, said outlet pipe extending across the cylinder and having a portion of its wall removed toward the side of the cylindrical casing through which said air inlet passes.

1,665,435. NONFERROUS CASTING. RALPH L. BINNEY, Toledo, Ohio, assignor to The Binney Castings Company, Toledo, Ohio, a Corporation of Ohio. Filed July 6, 1925. Serial No. 41,821. 4 Claims. (Cl. 75—1.)



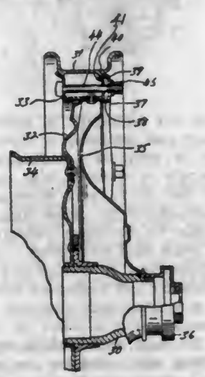
1. A refractory alloy of approximately one part manganese, two parts zinc, eighteen parts copper, and one-third part of aluminum.

1,665,436. VALVE CONSTRUCTION. LEON BLOCH, Cleveland, Ohio, assignor to The Republic Brass Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 30, 1926. Serial No. 151,699. 5 Claims. (Cl. 251—50.)



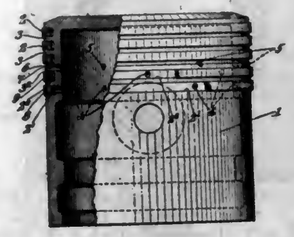
1. In a valve structure, the combination of a valve casing having an extension, a valve in said casing, a stem for operating said valve, said stem being disposed in said extension an auxiliary stem non-rotatably secured within said first-named stem, and means for varying the relative longitudinal positions of said first-named stem and said auxiliary stem.

1,665,437. VEHICLE WHEEL. WILLIAM N. BOOTH, Detroit, Mich. Filed Mar. 16, 1925. Serial No. 15,946. 5 Claims. (Cl. 301—22.)



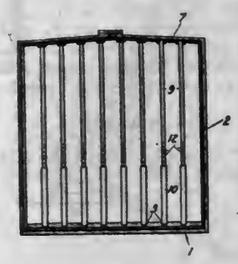
1. In a vehicle wheel, the combination with a wheel body and a demountable rim mounted upon said wheel body, of a ring for securing said rim upon said wheel body, said ring having a wavy profile and being transversely split intermediate the crests of adjacent waves and means for adjusting said ring toward said wheel body, including members engaging said ring at the crests of the waves.

1,665,438. PISTON CONSTRUCTION. WILLIAM C. BROWER, Gloversville, N. Y. Filed Nov. 18, 1925. Serial No. 69,742. 2 Claims. (Cl. 74—108.)



1. In combination, a piston head having a plurality of piston ring grooves formed therein with a plurality of annular walls or ribs located between said grooves, the lowermost of said grooves being provided with a plurality of holes or apertures extending from the bottom of said groove through the wall of the piston and opening into the hollow interior thereof, one of the walls or ribs above said last-mentioned groove being provided with a plurality of openings therethrough leading from the outer face thereof to the interior of the hollow piston so as to afford means of communication between the cylinder and the crank-case, said wall or rib having a reduced portion and the openings extending through both the reduced portion and the main portion of this rib or wall.

1,665,439. ADJUSTABLE BLOCKING FOR CARS. WILLIAM J. BROWN, Savanna, Ill. Filed July 6, 1925. Serial No. 41,689. 3 Claims. (Cl. 105—369.)

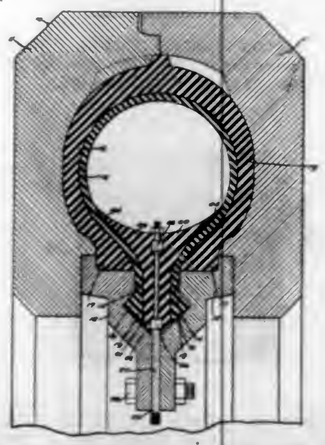


1. In a car having a floor and ceiling, each provided with a plurality of openings, the openings in the floor and ceiling being arranged opposite each other in pairs, a plurality of posts adapted to cooperate with the floor and ceiling openings, said posts being adapted to enter said openings and being retained therein and each post being adapted to be moved individually and independently of all other posts from one pair of openings to any other pair of openings.

1,665,440. VULCANIZATION. WILLIAM A. BRUBAKER, Akron, Ohio. Filed Feb. 28, 1927. Serial No. 171,440. 18 Claims. (Cl. 18—45.)

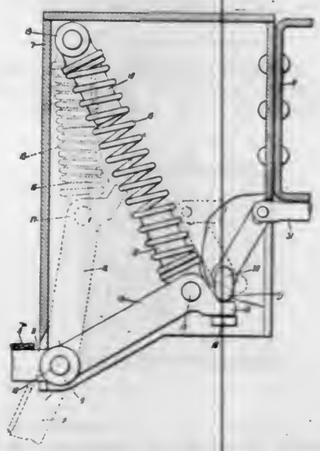
1. A tire vulcanizing mold comprising: a pair of mold sides spaced from each other at the base of the tire cavity to provide spaced opposed faces one on one of said sides

and the other on the other of said sides, but contoured to define otherwise at least the base portion of said cavity; a flexible flap adapted to be disposed within a tire within



said mold with its edges overlapping said faces; and a compressible bull ring interposed between said faces effective to seal said edges tightly to itself.

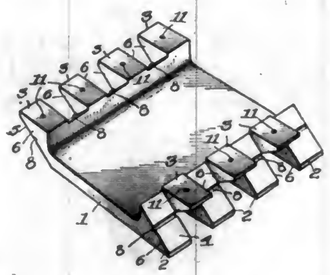
1,665,441. AUTOMOBILE. HELMUTH BRUSCH, Chicago, Ill. Filed Aug. 16, 1926. Serial No. 129,304. 3 Claims. (Cl. 280—166.)



1. On an automobile a running board, a plurality of bell crank levers supporting said board and pivotally mounted on said automobile, a shaft rotatably mounted on said automobile, eccentric portions on said shaft as means for securing the bell cranks in supporting position and for releasing the same.

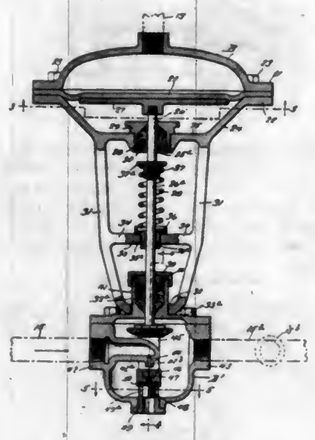
1,665,442. BUILDING BLOCK. LEON JAY CAMPBELL, Buchanan, Mich. Filed June 20, 1925. Serial No. 38,419. 6 Claims. (Cl. 72—38.)

1. A building wall composed of an upright rear structure and a plurality of blocks laid in substantially parallel rows in front of said structure, said blocks having a plurality of oppositely inclined front and rear projections at the opposite ends thereof, the projections at each end of the block having their inclined surfaces in planes intersecting between the ends of the projections and with the rear projections alternating with the front ones, said



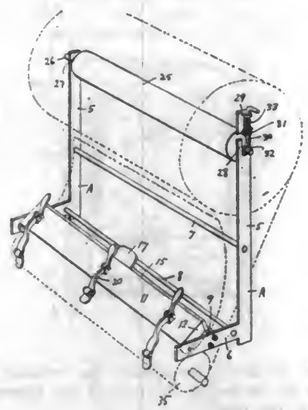
rear projections of each block having holes extending therethrough from front to rear and covered at their outer ends by the overlapping front projections of the adjacent blocks, and fastening members inserted through said holes for securing each block at its opposite ends to said rear structure.

1,665,443. OIL-BURNING SYSTEM. JOHN W. CANNON, Providence, R. I. Filed Jan. 30, 1928. Serial No. 250,517. 8 Claims. (Cl. 158—73.)



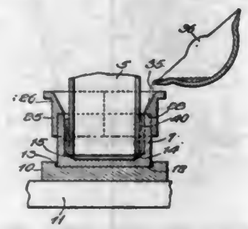
1. In a system for supplying a mixture of oil and steam to a burner and including a generator for steam to which water is supplied; a diaphragm valve for controlling the supply of water to said generator through the pressure of the oil in said system, the said diaphragm valve comprising an upper diaphragm chamber having a connection for oil under pressure, a diaphragm in said chamber below said connection, a valve stem connected to said diaphragm, a water-valve chamber below the diaphragm chamber and having an inlet for the water supplied to the generator and provided with an outlet connection for such water, a valve in the water-valve chamber carried by said stem and controlling the supply of water from said chamber to the said outlet connection, and a lower diaphragm chamber beneath the diaphragm and above the water-valve chamber and closed except for a substantially leak-proof opening for said valve stem.

1,665,444. PAPER FEED AND CUTTING MECHANISM. SAMUEL E. CHAPMAN, Ontario, Oreg. Filed May 9, 1927. Serial No. 190,123. 8 Claims. (Cl. 197—133.)



1. A device of the class described comprising a pair of L-shaped side members each including a vertical long arm and a horizontal short arm, a roller journalled between the upper extremities of the long arms, a rockable member mounted between the ends of the short arms, a cutter mounted on the rockable member, a stationary cutter mounted between the short arms, and a spring between the rockable member and the stationary cutter for normally holding the other cutter spaced therefrom, fingers rockably mounted on the rockable member for engaging the platen of a typewriter or the like.

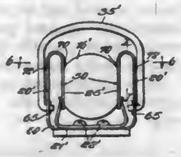
1,665,445. FUSE. NICHOLAS J. CONRAD, Chicago, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Aug. 14, 1924. Serial No. 731,954. 9 Claims. (Cl. 22—202.)



5. The method of sealing a metal ferrule upon a glass container which comprises clamping the container centered within the ferrule, heating the ferrule to expand it, pouring a sealing substance in molten condition between the ferrule and container and quenching the ferrule to cool it while the sealing substance is molten.

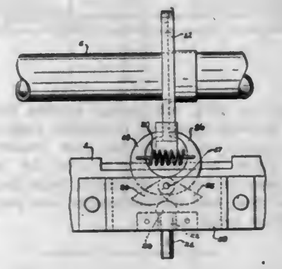
1,665,446. FUSE CLIP. NICHOLAS J. CONRAD, Wilmette, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed May 25, 1926. Serial No. 82,741. 21 Claims. (Cl. 200—134.)

1. In a clip of the class described, the combination of a pair of spring jaws adapted to receive a device for mounting therein, said jaws being held in close contact with the device by their inherent resiliency, and a swingably mounted bail adapted to be swung into position em-



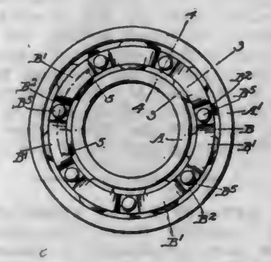
bracing said jaws to press same upon the device and having a portion lying in the path of removal of the device when in jaw embracing position.

1,665,447. LOOM TUBE FRAME AND SPOOL. JOSEPH A. COYLE and WELLESLEY B. COOPER, Amsterdam, N. Y., assignors to Stephen Sanford & Sons, Inc., Amsterdam, N. Y., a Corporation of New York. Filed June 23, 1927. Serial No. 200,957. 14 Claims. (Cl. 139—10.)



1. The combination with a tube frame, of a yarn spool supported at opposite ends on the tube frame, and cooperating means, part of which is on the spool intermediate the ends of the latter, and part of which is suitably arranged to cooperate with the spool part for holding the spool against sagging between its ends relatively to the frame when the latter is in wiping in position.

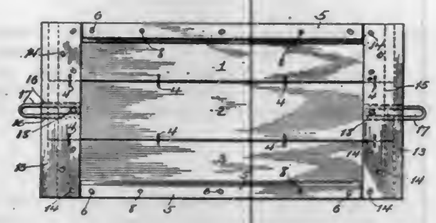
1,665,448. BALL BEARING. CHARLES W. DAKE, Chicago, Ill. Filed Apr. 5, 1926. Serial No. 99,779. 6 Claims. (Cl. 308—201.)



1. A ball bearing comprising inner and outer races, balls interposed between them, a plurality of separate curved segmental solid spacer blocks, one between each

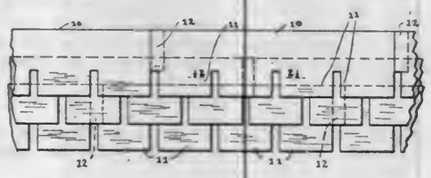
adjacent pair of balls, said blocks having curved end surfaces to engage and conform to the surface of the ball, retainer rings one on each side of the group of balls, the rings being laterally displaced to bring them into engagement with spacer blocks at points intermediate thereof, and being spread out to bring them into engagement with diametrically opposed points on the balls, the rings when spread being parallel throughout a portion of their length, the balls being free to move longitudinally between the retainer rings as far as the rings are concerned without changing the relation between the ball and the ring.

1,665,449. WOODEN BOAT OR DRAG. HARRY A. DRAKE, West Nyack, N. Y. Filed Dec. 17, 1925. Serial No. 76,049. 2 Claims. (Cl. 280—19.)



1. A boat or drag comprising wooden floor members, transverse wooden beams at respective ends of said floor members, wooden pins securing said transverse wooden beams in place, a draft pin carried by each of said wooden transverse beams, and draft links disposed loosely between the floor and the end beams and engaged around the respective draft pins.

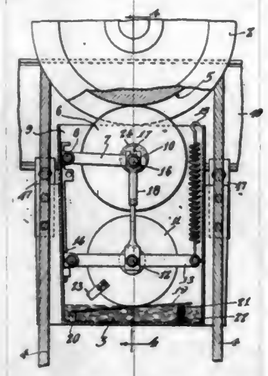
1,665,450. COMPOSITION SHINGLE. HARVEY A. GARBER, Milwaukee, Wis. Filed Oct. 12, 1922. Serial No. 594,100. 2 Claims. (Cl. 108—8.)



1. A composition strip shingle comprising a substantially rectangular strip one edge of which is provided with a plurality of spaced notches, and the ends of which are each provided with a lip portion of reduced thickness, one of said lip portions being flush with one surface of the strip and of a width substantially equal to that of said notches, and the other of said lip portions being flush with the other surface of the strip and of a width greater than that of said notches.

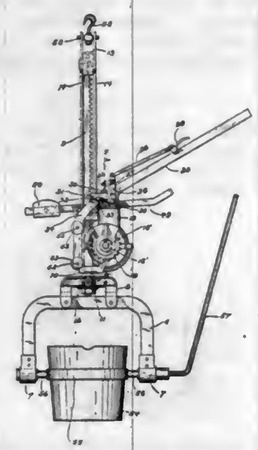
1,665,451. APPARATUS FOR LUBRICATING WIRE CABLES. LEROY G. GATES, Bakersfield, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Feb. 9, 1926. Serial No. 87,037. 18 Claims. (Cl. 184—15.)

1. In apparatus for lubricating a wire rope passing around a drum or sheave, with runs hanging from its opposite sides, the combination of a lubricant holder, transfer mechanism located between the runs of the rope, and means for periodically moving the transfer



mechanism to effect periodically the transfer of lubricant from the holder to the face of the sheave between the runs of the rope.

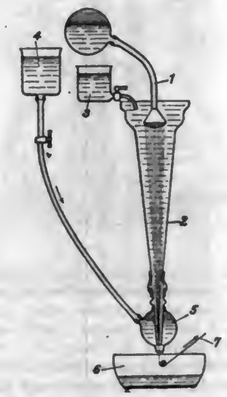
1,665,452. POURING AND LIFTING DEVICE. MAX W. GOLDBERG, Port Washington, Wis., assignor to Modern Pouring Device Co., Port Washington, Wis., a Corporation of Wisconsin. Filed Sept. 7, 1926. Serial No. 133,986. 8 Claims. (Cl. 22—82.)



1. In a pouring and lifting device, the combination of load carrying mechanism, a rack bar to which the load carrying mechanism is connected, a shaft, a ratchet wheel mounted fast on the shaft, a toothed wheel also mounted fast on the shaft and engaging the rack bar, another ratchet wheel mounted fast on the shaft, sleeves loosely surrounding the shaft, one of said sleeves formed with an extension provided with a recess, and the other of said sleeves formed with a brake drum, a spring-actuated rod extending into the recess of the extension of the first referred to sleeve, the inner end of said rod provided with a pawl normally engaging the teeth of the ratchet wheel with which it cooperates, a finger turnably mounted, but non vertically movable on the rod, a pin with which said finger is adapted to be swung into engagement whereby the pawl is held out of engagement with this ratchet wheel, a spring-pressed pawl extending

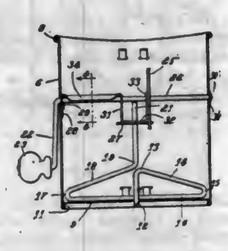
laterally from the side of the brake drum and engaging the ratchet wheel with which it cooperates, the periphery of the brake drum surrounding this ratchet wheel and the pawl, an upright arm, a pin upon which said upright arm is movably mounted, a weighted lever fulcrumed on the upright arm, and a brake band surrounding the periphery of the brake drum and having one end fast, and its opposite end secured to the upright arm.

1,665,453. PROCESS OF PRODUCING ARTIFICIAL-SILK FILAMENTS BY DRAWING. KURT GRUNERT, Turin, Italy. Filed Oct. 4, 1926, Serial No. 139,509, and in Germany Oct. 8, 1925. 2 Claims. (Cl. 18—54.)



1. The herein described process of producing artificial silk filaments, especially from cuprammonium cellulose solutions, by drawing, which consists in causing the solution, on leaving a spinneret, to enter a spinning funnel with a precipitating liquid, the spinning funnel having an open top, keeping the precipitating liquid and threads under atmospheric pressure therein, and regulating the outlet velocity of the precepitating liquid by the counteraction of a second liquid meeting the first liquid at the point, where it comes from the funnel whereupon both liquids jointly flow into a basin and the filament is taken off.

1,665,454. FLOUR SIFTER. ADAM GSCHWINDT, Rockford, Ill., assignor to Roseland Can & Wire Goods Co., Rockford, Ill., a Corporation of Illinois. Filed May 29, 1925. Serial No. 33,668. 6 Claims. (Cl. 209—358.)



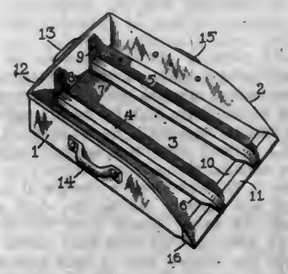
1. A sifter of the character described comprising, in combination, a container having a sieve, an agitator for the sieve having an upper end equipped with a toothed wheel, a shaft passing diametrically through the container above the agitator and having a hand crank at one end outside of the container and a toothed wheel inside of the container meshing with said toothed wheel on the agitator, and a bracket formed of a strip of sheet metal secured at one end to the container wall and bent to extend inwardly along the crank shaft and thence downwardly to provide bearing support for the upper end of the agitator and thence upwardly and having a bearing on the crank shaft.

1,665,455. HUMIDIFYING DEVICE. DANIEL HANDELAN, Minneapolis, Minn. Filed May 26, 1925, Serial No. 32,936. Renewed Feb. 12, 1927. 6 Claims. (Cl. 261—116.)



6. A humidifying device comprising a vertically extending case having upper and lower register openings, register supports mounted in proximity to said register openings, registers movably carried by said supports whereby the interior of said vertical case may be exposed, a water supply pipe extending into the upper end of said case, a nozzle in said water pipe within said case and a regulating cock for said nozzle opposite one of said register openings.

1,665,456. ICE TRAY. ANDREW HANSSON, Brooklyn, N. Y. Filed Apr. 19, 1927. Serial No. 184,910. 8 Claims. (Cl. 220—1.)



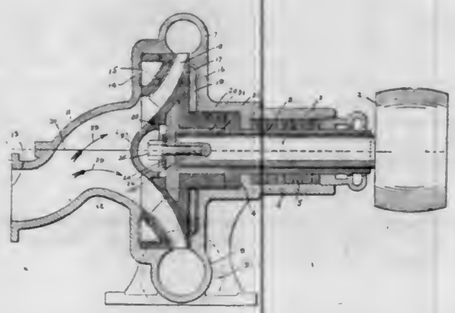
1. A tray comprising a bottom member having a pair of sides and a back secured thereto, a raised lip upon the edge of said bottom, secured thereto by an intermediate inclined portion, and a handle upon said back.

1,665,457. ROTARY DISK DRILL. HALL H. HOLDAWAY, Sawtelle, Calif. Filed Aug. 26, 1925. Serial No. 52,534. 3 Claims. (Cl. 255—71.)



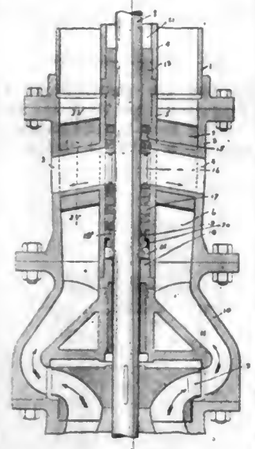
1. A rotary disk drill having a shank with a downwardly extending fork with an integral threaded pin on its inner face, a disk cutter, a washer between the disk cutter and the inner face of the fork and constituting a bearing for the cutter, a collar received on the threaded pin having means for retaining the washer on the fork and having means for retaining the cutter on the washer, said collar having a plurality of spaced circumferentially disposed sockets on its inner face, a locking-plate with means for securing the same at the inner end of the pin, said locking-plate having a finger to co-operate with one of said sockets to lock the collar in place, said finger being offset from the axis of the plate whereby the locking-plate may be attached in a reversed position to co-operate with a socket in a different angular position.

1,665,458. ACID PUMP. ALADAR HOLLANDER, Berkeley, Calif., assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif., a Corporation of California. Filed May 3, 1926. Serial No. 106,340. 1 Claim. (Cl. 103—114.)



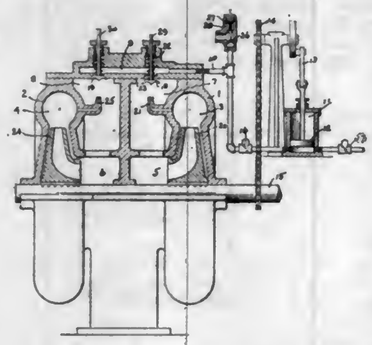
In an acid pump, a casing parted on an axial plane into an upper and a lower section, a suction nozzle and a discharge nozzle integral with said lower section, a hub member of relatively high tensile strength and means fixing said hub to said shaft, an impeller of acid resisting material formed over and integral with said hub member, an opening through the impeller to enable said fixing means to be introduced, a closure of acid resisting material for said opening sealing the shaft and the hub member and the fixing means from the impeller compartment, an acid resisting ring fixed inside said casing and adjacent the suction side of said impeller, an acid resisting sleeve surrounding said shaft and having an end collar effecting closure against said impeller and forming a running joint against said casing, packing carried in said casing and within which the sleeve and shaft are adapted to rotate.

1,665,459. PUMP-PACKING MEANS. ALADAR HOLLANDER, Berkeley, and WALTER L. FORWARD, Oakland, Calif., assignors to Byron Jackson Pump Mfg. Co., Berkeley, Calif., a Corporation of California. Filed May 3, 1926. Serial No. 106,342. 4 Claims. (Cl. 103—102.)



1. Means for maintaining the lubrication of fluid pumps having impeller shaft and bearing means, and comprising a tubular shield surrounding and spaced from said shaft, said bearing means positioned between said shield and said shaft, a discharge duct from said shield adapted to discharge excess fluid or excess lubricant from the space between the shaft and the shield, packing means between the duct and the bearing means and other packing means between the duct and the impeller means, said first named packing means adapted to restrain the escape of lubricant through the duct and said other packing means adapted to restrain the escape of pressure fluid through the duct, and a piston adapted to automatically compress both packings simultaneously and actuated by discharge pressure of said pump, and a spacing cage between said packing and said other packing.

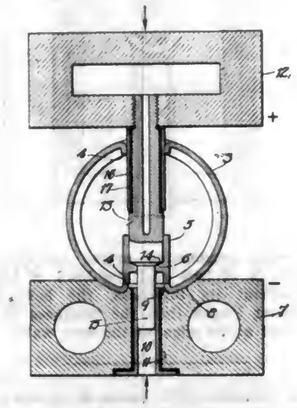
1,665,460. PRIMING MEANS. ALADAR HOLLANDER, Berkeley, and WALTER L. FORWARD, Oakland, Calif., assignors to Byron Jackson Pump Mfg. Co., Berkeley, Calif., a Corporation of California. Filed July 16, 1927. Serial No. 206,252. 18 Claims. (Cl. 103—113.)



1. Priming means comprising a vacuum chamber, suction means, an air valve and port between said chamber and said means, a pressure compartment and a rotor

between said chamber and said compartment, a nozzle adapted to discharge a pressure jet from said compartment against said air valve and tending to actuate said valve to close said port when pressure has been established in said compartment by said rotor.

1,665,461. WELDING TUBES TO PLATES OR CYLINDERS. HENRY S. HOLMES, New York, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed Mar. 27, 1926. Serial No. 97,867. 13 Claims. (Cl. 219—4.)



8. In the welding of a pipe to the inside of a cylinder the method which consists in providing a projection on the inside of the pipe and pressing the latter against the cylinder by pressure applied to said projection.

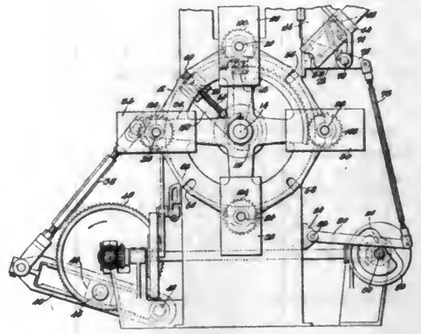
1,665,462. PILING. MARSHALL HOWARD, Lincoln, Nebr., assignor to Woods Brothers Construction Co., Lincoln, Nebr., a Corporation of Nebraska. Filed Apr. 2, 1926. Serial No. 99,104. 7 Claims. (Cl. 61—59.)



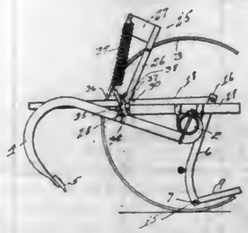
1. Sheet piling comprising a series of pile elements having guiding means comprising a tongue and groove in each of said elements whereby an element may be driven adjacent to and in alinement with an adjacent driven element, and means to aid said guiding action, said latter means having an inclined member cooperating with an eye in the adjacent driven element to hold the adjacent elements together.

1,665,463. DRIVING MECHANISM. STANLEY R. HOWARD, East Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Massachusetts. Filed Jan. 5, 1927. Serial No. 159,099. 6 Claims. (Cl. 93—54.)

1. The combination with a supporting member, having an article holding device rotatably mounted therein, of mechanism for intermittently revolving the supporting member and for rotating the article holding device, including an oscillatory element, connections between the oscillatory element and supporting member, and connection between the oscillatory element and the article holding device.



1,665,464. WEEDER. CLAUDE L. KEY, Milton, Oreg. Filed June 4, 1925. Serial No. 34,840. 6 Claims. (Cl. 97—169.)



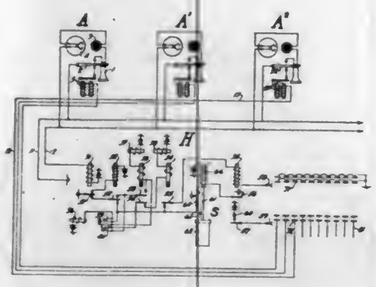
1. In a weeder, a rockably supported beam rigidly carrying goosenecks, and a blade rigidly attached to said goosenecks, uprights rigidly attached to and rockable with said beam, a draft means pivotally attached to the uprights to rock the latter in a clockwise or anticlockwise direction, a trailer pivotally attached to said upright and provided with means to adjustably control the anticlockwise movement of said uprights, a cleaning hammer pivotally attached to said goosenecks to strike said blade, and means to automatically operate said hammer.

6. The combination with a weeder, having a blade and having a dumping means, comprising means to raise the blade out of the ground, of a cleaning means comprising a hammer pivotally attached to said weeder and operable by the movement of said blade.

1,665,465. PREPARATION FOR CLEANING METAL PREPARATORY TO PAINTING. JAMES D. KLINGER and CLETE L. BOYLE, Detroit, Mich. Filed Dec. 26, 1925. Serial No. 77,879. 2 Claims. (Cl. 148—6.)

2. A preparation for cleaning metal for painting, comprising an admixture of a dilute rust attacking and removing acid, and ethyl methyl ketone in substantially the portions herein set forth.

1,665,466 AUTOMATIC TELEPHONE SYSTEM. DONALD R. MIDDLETON, Detroit, Mich., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 24, 1923. Serial No. 659,066. 10 Claims. (Cl. 179—84.)

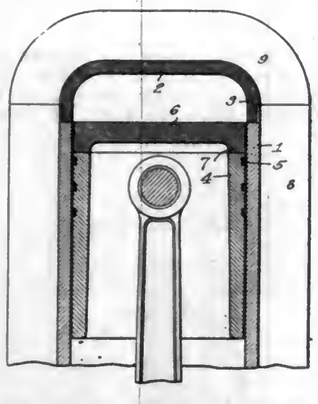


2. In a telephone system, the combination with a common talking line provided with a plurality of subscribers' stations, of an automatic switch, a plurality of individual signalling conductors extending to said stations, respectively, and automatic means controlled over said lines for connecting said switch to any one of said signalling conductors to signal the station individual to that conductor.

1,665,467. STAMPING DEVICE. DAVID B. MILLER, Greenfield, Mass. Filed Oct. 26, 1926. Serial No. 144,265. 11 Claims. (Cl. 101—19.)

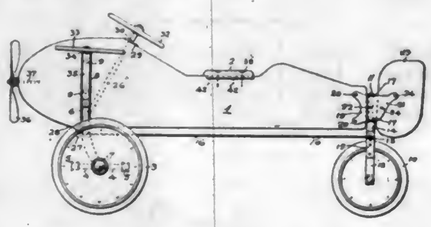
1. In a stamping device, the combination with a stamp member having characters formed thereon, a hammer, means for moving the hammer against the said member comprising a rotatable and an eccentrically mounted disk, a latch carried by the disk for engaging the hammer for elevating the hammer, means for actuating the eccentric disk, and means for releasing the hammer supporting latch at a predetermined point in the travel of the disk, a spring for retracting the hammer when released for moving it against the member having characters, the spring operating to retain the hammer normally out of contact with the stamp member, whereby the flap of a carton may be insered between the hammer and the characters on the stamp member.

1,665,468. INTERNAL-COMBUSTION ENGINE. THOMAS E. MURRAY, Jr., New York, N. Y. Filed Apr. 5, 1922. Serial No. 549,877. 3 Claims. (Cl. 123—193.)



1. An internal combustion engine cylinder the side wall of which is of iron and the head of which is of copper throughout its thickness, the head having a flange of greater length than the thickness of the head and butt-welded at its edge to the side wall.

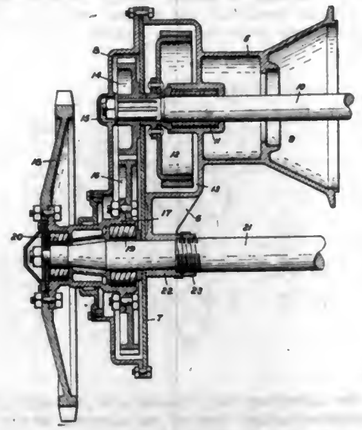
1,665,469. WHEELED TOY. LEWIS E. MYERS and ARTIE C. CARLSON, Valparaiso, Ind., and CARL S. BATES, Chicago, Ill., assignors, by mesne assignments, to The Northern Trust Company and Harold H. Rockwell as trustees. Filed Dec. 21, 1925. Serial No. 76,597. 3 Claims. (Cl. 208—42.)



1. As an article of manufacture, a body simulating a desired object, a crank shaft beneath the body at its front end, suitable separate unitary supports from the body to opposite ends of the crank shaft, a rigidly connected wheel and a free wheel on the crank shaft, a trailing steering wheel pivotally attached to the rear end of the body, an adjustable seat located on the body between the front and rear end, a steerng rod and attached wheel positioned in the body forward of the seat, and a link connecting the steering rod and the steering wheel respectively on opposite sides of the body.

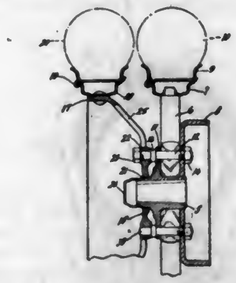
1,665,470. REAR-END ASSEMBLY FOR POWER-DRIVEN VEHICLES. EMIL F. NORELIUS, Davenport, Iowa. Filed Nov. 6, 1925. Serial No. 67,418. 7 Claims. (Cl. 180—9.1.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

7. In a vehicle, a rear assembly embodying axle housings adapted to be secured one to each side of a central housing, said housings formed at their outer ends with extending portions, a final drive casing formed by the end piece of each housing, counter-shafts within the housings, a pinion fixed on each shaft and disposed in the final drive casing, a gear wheel in said casing meshing with the pinion, a through shaft exterior of the axle housings but passing through their extending portions



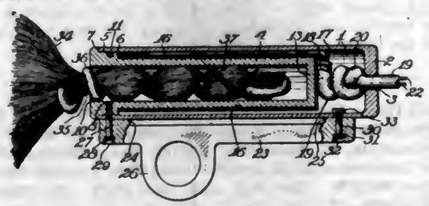
for supporting said gear wheels, and wheels supported by said through shaft exteriorly of the casing and mounted to be rotated with the gear-wheels.

1,665,471. VEHICLE WHEEL. NELS L. OLSON, Highland Park, Mich., assignor to Swedish Crucible Steel Company, a Corporation of Michigan. Filed Feb. 16, 1927. Serial No. 168,506. 4 Claims. (Cl. 301—36.)



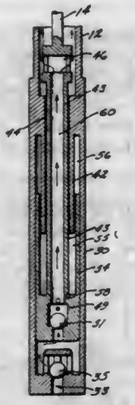
2. A device of the class described comprising a wheel having a hub portion, a plurality of bolts engaged in the hub portion having heads intermediate their ends engaging the hub and an auxiliary wheel secured on said bolts bearing against and separated from the first wheel by said heads; said auxiliary wheel having an apertured central portion engaged over the hub.

1,665,472. ELECTRICAL HAIR CURLER. AUGUST H. OPPERMAN, Indianapolis, Ind. Filed Apr. 25, 1925. Serial No. 25,952. 2 Claims. (Cl. 219—24.)



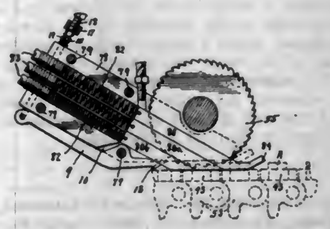
2. In an electrical heater, the combination of a tubular non-electrical casing, a tubular core in the casing secured to and supported solely at one end by one end of the casing, the core being composed of lava and having a head in the opposite inner end thereof and an open outer end, an electrical heater coil directly on the exterior of the core, an electrical conductor connected with the coil and extending through the opposite end of the casing, a handle provided with a base bar having two foot portions arranged on the outside of the casing adjacent to its ends respectively, and screws in the foot portions respectively and securing them to the casing, one of the screws being connected to the core and the other having a nut thereon at the inside of the casing.

1,665,473. PRESSURE-PACKED PUMP. EDGAR W. PATTERSON, Los Angeles, Calif. Filed Mar. 21, 1927. Serial No. 177,000. 3 Claims. (Cl. 103—179.)



1. In a reciprocating pump of the class described, the combination of: a barrel; a standing valve adapted to prevent a downward movement of fluid through an opening at the lower end of said barrel; a plunger fitting tightly in said barrel and forming a pressure-tight joinder therewith; a working valve adapted to prevent a downward movement of fluid through a fluid course formed through said plunger; and walls forming a pressure chamber which decreases in volume on the up stroke of the pump, said chamber being at all times in communication with the space above said working valve through an opening so constricted as to allow pressure in excess of the tubing pressure to be built up in said pressure chamber on the up stroke of the pump.

1,665,474. BURR CUTTER. CHARLES E. PELLOW, Detroit, Mich. Filed Mar. 14, 1927. Serial No. 175,252. 4 Claims. (Cl. 10—72.)



2. In a machine for cutting grooves in metal parts in which the work is carried along in engagement with cutters to permit the cutters to cut grooves across the

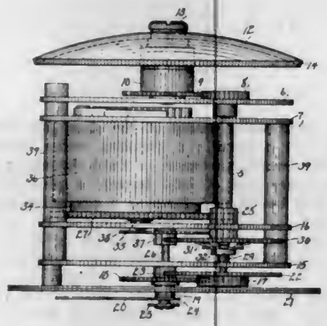
work, a burr cutter pivotally mounted in alinement with and in the rear of the groove cutter and comprising an inclined head adapted to slide along the groove cut in the work, said head having a cutting edge adapted to cut the burr at the exit end of such groove, and means to press said head against the work comprising a yoke engaging the cutter and a spring to tension the cutter.

1,665,475. SCREEN. FRANCIS J. PLYM, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a Corporation of Michigan. Filed Jan. 26, 1926. Serial No. 83,849. 3 Claims. (Cl. 156—14.)



1. A screen construction comprising an integral frame composed of a single sheet of metal bent upon itself to form a flat back and side portions, said side portions being parallel throughout their length, the end of one side provided with a rolled dull edge and the end of the other side provided with a lateral projection for clamping the screen between said edge and projection.

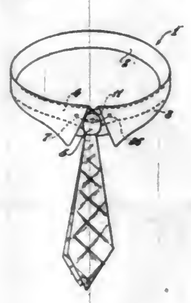
1,665,476. CLOCK WITH ROTARY OPERATING MEMBERS. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn., a Corporation. Filed June 20, 1925. Serial No. 38,423. 1 Claim. (Cl. 58—125.)



A clock, having a main-spring, a main-wheel driven thereby, a second arbor, a first pinion, a first wheel secured thereto and rotating therewith upon the said second arbor, friction means for yieldingly coupling the said first pinion and first wheel with the said second arbor, a center pinion driven by the said first wheel, a stationary dial, hour and minute hands therefor, a dial-train for driving the said hour and minute hands and including a minute-hand drive-wheel and an hour-hand drive-wheel rigidly mounted on the forward end of the said second arbor, a rotary operating-member located at the rear of the clock, and a train connecting the rear end of the said second arbor with the said operating-member, whereby the hour and minute hands of the stationary dial and the said operating-member are driven synchronously by the said second arbor.

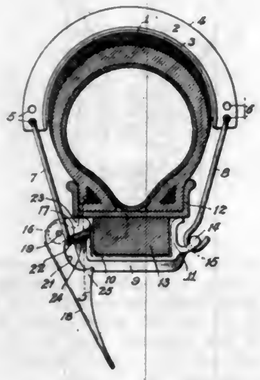
1,665,477. TIE HOLDER. RALPH H. RIDGEWAY, Springfield, Mass. Filed Sept. 30, 1927. Serial No. 223,072. 2 Claims. (Cl. 24—50.)

1. In combination, a member which is formed with an inclined inner surface and having an opening at one end, a spring actuated plunger member within said member formed with recesses to receive spherical balls, a reduced tubular portion on the plunger member to provide a shoulder part, a spring bearing against the shoulder part at one end, a washer loosely mounted on the reduced tubular extension and against which the other end of the spring bears, a knob located on the tubular



member for operating the plunger, a clutch pin located in the tubular member and in the opening of the first mentioned member, a plurality of clutch devices in the plunger member, and movably against the clutch pin by action of the spring, a tie engaging hook attached to the clutch pin member and a hook attached to the first mentioned member.

1,665,478. TRACTION DEVICE. SAMUEL G. SCHOLZ, Hutchinson, Kans. Filed Oct. 18, 1923. Serial No. 669,198. 6 Claims. (Cl. 152—14.)

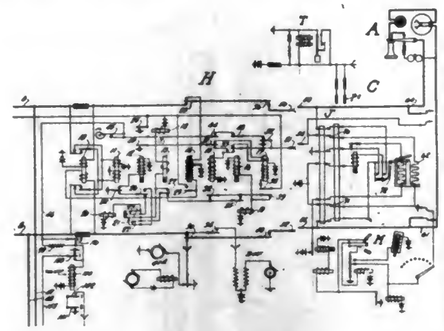


2. A traction device comprising a member adapted to be clamped to the tire of a wheel and clamping means for detachably holding the member in place, said clamping means comprising a bracket on the wheel, the bracket being formed with a lateral boss, a lever connected to the bracket and frictionally engaging the boss for holding the lever in ultimately moved position.

1,665,479. INTERCEPTING-TRUNK SYSTEM. MICHAEL SCHWARTZ, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 9, 1924, Serial No. 691,679. Renewed Aug. 26, 1927. 21 Claims. (Cl. 179—27.)

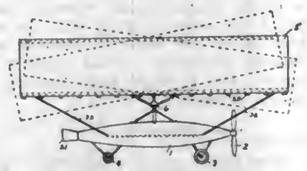
1. In a telephone system, a calling line, called lines, unassigned called lines, other called lines assigned but temporarily out of service, means including automatic

switches for extending a connection to any of said called lines, means responsive when a connection is extended to either of the latter type of called lines for automati-



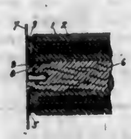
cally trunking the call to an operator's switchboard, and means whereby an operator upon answering is immediately informed of the class of line called.

1,665,480. AIRPLANE. NED M. SLEEPER, Upper Lake, Calif. Filed Apr. 13, 1927. Serial No. 183,494. 13 Claims. (Cl. 244—12.)



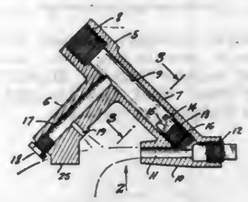
1. An airplane comprising a fuselage, a tubular aerofoil providing the main lifting and sustaining surface of the airplane mounted longitudinally above the fuselage, the mounting including a universal connection whereby the aerofoil may be angularly displaced laterally and vertically with reference to the fuselage.

1,665,481. PHOTOGRAPHIC-FILM CARTRIDGE. BENJAMIN A. SLOCUM, Binghamton, N. Y., assignor to Ansco Photo-Products, Inc., Binghamton, N. Y. Filed Oct. 30, 1925. Serial No. 65,789. 1 Claim. (Cl. 95—9.)



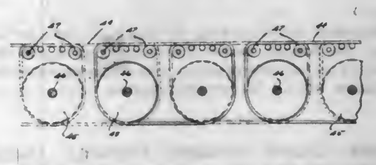
A film cartridge comprising a spool provided with spaced flanges and having interwound strips of sensitized film and protective material thereon, said material being wider than said film, and single longitudinal V grooves adjacent the edges of said material beyond the edges of said film, the outer sloping sides of said grooves terminating at the edges of said protective material and bearing against said flanges.

1,665,482. SPRAY NOZZLE. ROBERT M. STRONG, Los Angeles, Calif. Filed Jan. 12, 1926. Serial No. 80,696. 7 Claims. (Cl. 299—143.)



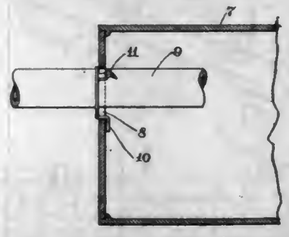
1. A nozzle structure comprising water courses having orifices directing streams of water at an angle to each other and intersecting at a substantial distance beyond the outlets of said orifices, the orifice of one of said streams producing a jet of less cross-sectional area and greater velocity than the other whereby intersecting walls of water are formed.

1,665,483. TRANSPORTATION SYSTEM. HERMAN E. TAYLOR, Detroit, Mich. Filed Dec. 13, 1926. Serial No. 154,559. 7 Claims. (Cl. 104—25.)



1. In a transportation system, a platform comprising a plurality of endless belt-like elements arranged in substantial longitudinal alignment and spaced drums engaged respectively by the adjacent ends of successive elements said drums being of different diameters whereby the speed of successive elements differ.

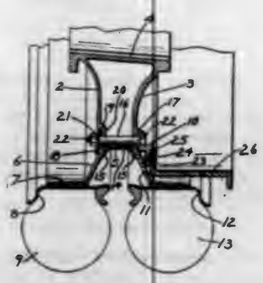
1,665,484. DEVICE FOR APPLICATION TO THE OPENINGS OF OUTLET BOXES AND THE LIKE. RALPH D. THOMPSON, Toledo, Ohio. Filed Oct. 19, 1923. Serial No. 669,482. 1 Claim. (Cl. 247—25.)



A device for application to the opening of an outlet box or the like consisting of a crotched flat sheet metal member, means therein to engage a loom, said crotched member provided at one point of its margin with a rigid tongue integral therewith to lockingly engage the edge of said box opening at one point, and a spring tongue also integral with the flat sheet metal member to engage the edge of said opening at another point, said rigid tongue first engaging the edge of the opening as a ful-

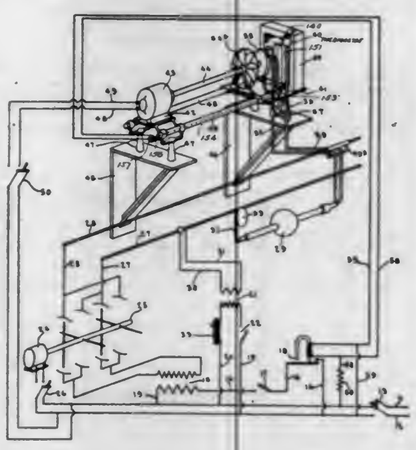
crum whereby said spring tongue may be pressed into locking engagement with the edge of the opening to cooperate with the rigid tongue to retain said crotched member to said opening.

1,665,485. METAL WHEEL. GEORGE WALTHER, Montgomery County, near Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 14, 1924. Serial No. 706,237. 14 Claims. (Cl. 301—9.)



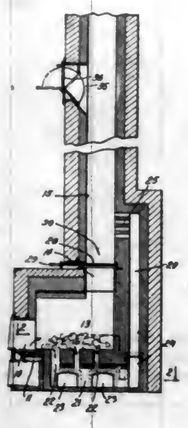
1. A metal wheel having an extended hub portion, a pair of rim flanges, means for securing said rim flanges to said extended hub portion, and a spaced between the rim flanges beyond the securing means.

1,665,486. X-RAY COOLING SYSTEM. JULIUS B. WANTZ, Oak Park, Ill., assignor to Victor X-Ray Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1924. Serial No. 712,496. 2 Claims. (Cl. 250—34.)



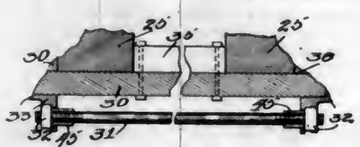
1. In combination, an electrical circuit for supplying power, means for shutting off such power, a secondary circuit for energizing an X-ray tube, a water-cooled tube, and a cooling system for said tube comprising a pump, radiator, fan, and thermostat, said thermostat being adapted to terminate the flow of current in said first mentioned circuit by actuating said shutting off means.

1,665,487. INCINERATOR. MONTROSS WASHBURN, Ossining, N. Y., assignor to Washburn & Granger, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,032. 5 Claims. (Cl. 110—18.)



1. An incinerator comprising a grate, a combustion chamber disposed above said grate, a chimney communicating directly with said combustion chamber, means for closing the direct communication between the chimney and chamber, a flue communicating with the combustion chamber from below and with the chimney above said chamber, thereby providing a down draft in the combustion chamber, and a refuse chute opening communicating with said chimney.

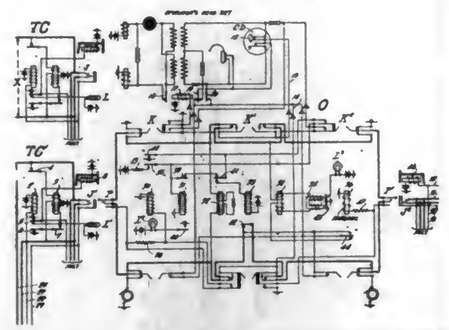
1,665,488. WELL-DRILLING DERRICK. DALLAS D. WERTZBERGER, Tulsa, Okla. Filed July 19, 1924. Serial No. 727,033. 1 Claim. (Cl. 20—0.5.)



Diagonal bracing for derrick legs comprising anchoring brackets secured to said legs and having apertures, nuts having integral bushings formed thereon and extending through said apertures, diagonal rods having right and left handed threads engaging said nuts, and lugs on the brackets engaging said nuts to prevent rotation thereof.

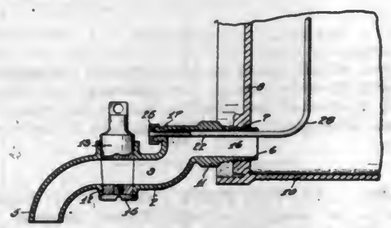
1,665,489. TELEPHONE SYSTEM. JOHN WICKE, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 25, 1922, Serial No. 584,214. Renewed Dec. 8, 1927. 38 Claims. (Cl. 1.79—27.)

1. In a telephone system, a trunk terminating in a jack, a line relay for said trunk, a cord circuit, a plug associated therewith and adapted to be inserted into said jack, a circuit for said relay including a conductor of said trunk, contacts of said jack, contacts of said plug, and a conductor of said cord circuit, series in a pair of normally open contacts in said trunk conductor, a manually operable key associated with said cord circuit for changing the current flow over the sleeve conductor of



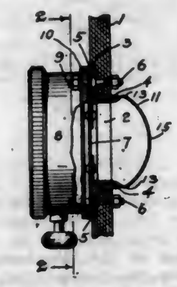
said plug, and means responsive to the actuation of said key and the resulting current change for closing said contacts.

1,665,490. COMBINATION FAUCET AND VENT. HENRY AEBLI, Enright, Oreg. Filed May 17, 1926, Serial No. 109,527. Renewed Feb. 6, 1928. 1 Claim. (Cl. 221,—28.)



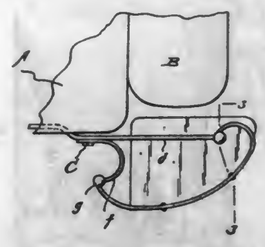
In combination with a faucet of the class described having a body provided with an exteriorly screw-threaded nipple formed with a bore therethrough and a chamfered outer end leading to said bore, a vent-tube extending through said bore and formed with a flanged end engaging said chamfered end of said nipple, said tube extending inwardly and upwardly, and an apertured gland-nut screw-threaded on said nipple and securing said vent-tube in operative position.

1,665,491. CLOCK MOUNTING. WILLIAM D. CLARK, Washington, D. C. Filed May 6, 1927. Serial No. 189,447. 9 Claims. (Cl. 224—4.)



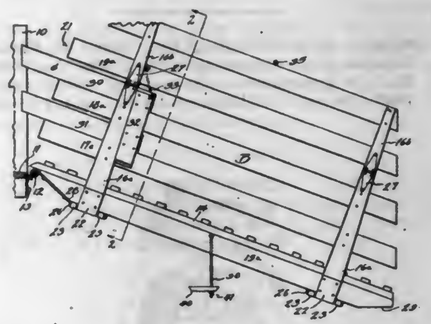
4. In a quick detachable clock mounting, the combination of a clock casing, a rectangular spring clip rigidly attached thereto, said spring clip having a plurality of divergent portions and a cylindrical portion, said cylindrical portion having a maximum arc greater than the maximum distance between the divergent portions in a plane parallel with the face of the clock, a rectangular keeper plate engageable with said spring clip and means for mounting the keeper plate upon a support.

1,665,492. FENDER-GUARD PLATE. RALPH HAMILTON DANE, Portland, Me. Filed July 13, 1927. Serial No. 205,416. 1 Claim. (Cl. 293—55.)



In an automobile and in combination, a rear fender, a horizontally disposed bumper spaced in rear of said fender and having spaced rear and forward portions, and a horizontally disposed plate arranged below and against the rear and forward portions of the bumper and connected to the rear portion and extending forwardly of the forward portion of the bumper and to a point in close proximity to the fender.

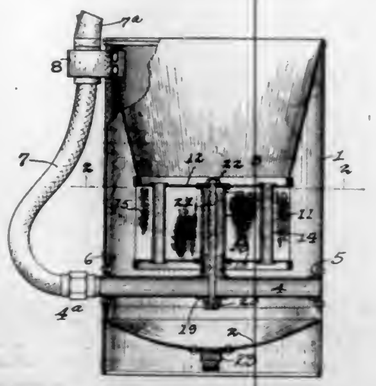
1,665,493. LOADING CHUTE. FRANK DE ROOS, Springfield, S. Dak. Filed Mar. 26, 1926. Serial No. 97,585. 3 Claims. (Cl. 296—61.)



1. In combination with a vehicle having a bottom, a combined loading chute and end gate, of width less than that of the vehicle, said loading chute having a bottom hinged to the rear end of the vehicle so as to swing from a position extending rearwardly and downwardly relative to said vehicle bottom to a substantially vertical position, serving as an end gate for said vehicle, the chute having a fixed side member, the end of which is squared to rest against the bottom of the vehicle when the chute is in its vertical position, an auxiliary sidepiece mounted on said side and slidable relative thereto, from a position extended to fill the gap between the squared end and the vehicle side when the chute is in lowered position, to a position receded rearwardly of the squared end of the chute side when the chute is in vertical posi-

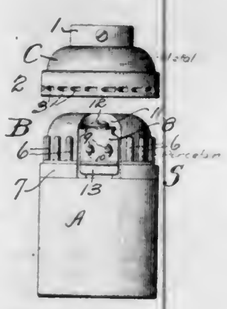
tion, the chute having another side hinged to its bottom and adapted to swing from a position at right angles to the chute bottom to a position extending under and substantially parallel thereto.

1,665,494. STRAINER. WALLACE M. DILLON, Washington, D. C. Filed Oct. 23, 1925. Serial No. 64,319. 3 Claims. (Cl. 210—149.)



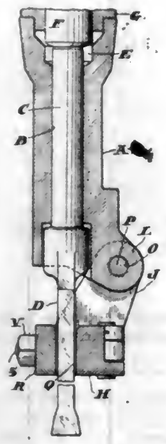
2. In a portable strainer of the character described, in combination a container, a vertically disposed filter screen of drumlike construction having its central outlet communicating with the exterior of the container, and vertical conduits extending through the filter for conducting a fluid therethrough prior to its being filtered by the vertical screen.

1,665,495. ELECTRIC SOCKET. EDGAR H. FREEMAN, Trenton, N. J., assignor to Circle F Mfg. Co., Trenton, N. J., a Corporation of New Jersey. Filed July 10, 1926. Serial No. 121,668. 4 Claims. (Cl. 173—362.)



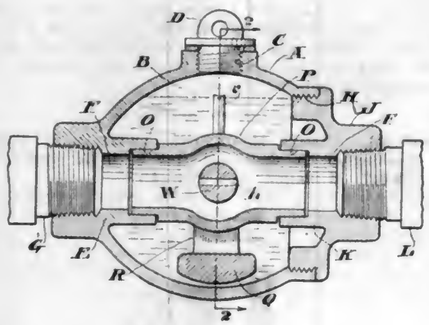
1. An electrical socket including in combination, an interchangeable metal cap and a porcelain body, said body having an integral offset portion, and a resilient metal locking tongue fastened thereto, said integral offset portion and metal locking tongue adapted to detachably interlock with the cap.

1,665,496. GUIDE FOR BROACHING TOOLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 20, 1926. Serial No. 155,982. 3 Claims. (Cl. 121—32.)



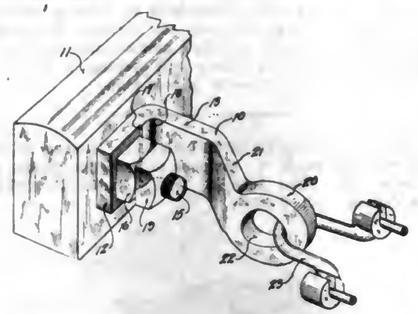
1. In a rock drill, the combination of a front head, a flat rectangular broaching tool extending into the front head, and means pivoted on the front head and extending forwardly thereof to guide the broaching tool for preventing rotation of the broaching tool in the front head, said means being held in retaining position by the broaching tool.

1,665,497. AIR-LINE OILER. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 1, 1927. Serial No. 171,854. 3 Claims. (Cl. 184—55.)



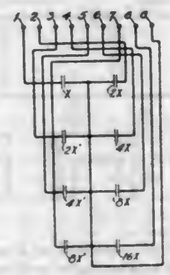
1. An air line oiler comprising a casing forming a reservoir for oil, projections in the casing having passageways for pressure fluid, a tube connecting the passageways, said tube being rotatable in the passageways, and means pivoted on the tube having a passage for conveying oil from the reservoir into the passageway, said means having a weighted portion to constantly maintain the inlet opening of the passage in the lowermost portion of the reservoir.

1,665,498. DEAD-END BRACKET. LEM E. HENDEE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed July 14, 1924. Serial No. 725,954. 1 Claim. (Cl. 248—20.)



A dead end bracket comprising a base portion having an aperture, to receive a threaded attaching member for clamping said base portion against a support and a clevis-supporting portion projecting laterally from one side of said base portion and having an offset terminal clevis-receiving portion, extending in substantially axial alignment with the aperture in the base portion, and a nut threaded on said attaching member and bearing against said base portion, said base portion having a part spaced from said aperture to prevent turning of said nut with respect to the bracket.

1,665,499. SYSTEM OF GROUPING UNITS. ELLERY T. HOCH, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 12, 1926. Serial No. 94,127. 5 Claims. (Cl. 175—41.)



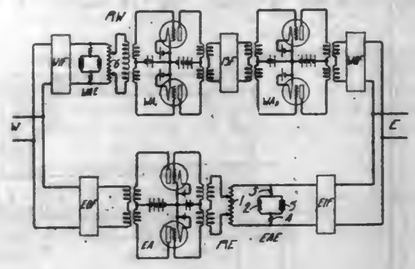
5. Electrical apparatus comprising groups of two electrical units each, each unit having a nominal value from which it may vary an amount not to exceed plus or minus 33⅓%, the nominal value of each successive group, being twice the nominal value of the preceding group, said groups giving progressive steps, the maximum interval between successive steps not exceeding the maximum limit of the values of the units of the smallest valued group.

1,665,500. AIRCRAFT COVERING. ISADORE M. JACOBSOHN, Chicago, Ill., and STARR TRUSCOTT, Birmingham, Ohio. Filed Apr. 11, 1925. Serial No. 22,347. 4 Claims. (Cl. 91—68.)

1. A method of rendering a fabric impermeable to gases and flexible consisting in applying an adhesive agent to said fabric, superimposing thereon a plurality of layers of viscose-rubber latex solution, and passing said coated fabric first through a bath of magnesium sulphate then through a bath of sodium bisulphite, then of clear water, and finally of glycerine, to convert the film of viscose-latex into one of cellulose-rubber and to render the coating insoluble in water and to render it flexible.

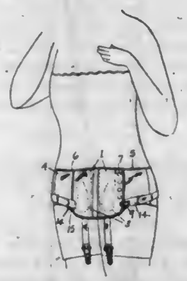
4. A fabric coated with gelatine having a viscose-rubber latex superimposed thereupon and treated with a plasticising agent, whereby the fabric is rendered flexible and impermeable to gases.

1,665,501. AMPLIFYING REPEATER. JACOB S. JAMMER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 22, 1928. Serial No. 640,643. 2 Claims. (Cl. 179—170.)



1. The combination of a transmission line for transmitting in opposite directions a plurality of carrier currents comprised in respective frequency ranges, said line having greater attenuation for waves of higher frequency transmitted in one direction than for waves of lower frequency transmitted in the opposite direction, and a two-way repeater comprising oppositely directed transmission paths, each path including means to select a group of carrier currents, an amplifying means and an equalizer for compensating for the unequal attenuation produced by the line in the waves of the different frequencies comprised in the respective frequency ranges, the amplifying means in the path transmitting the waves of the higher frequencies having a greater amplifying factor than that in the path transmitting the waves of the lower frequencies, each amplifying means having an amplifying factor such that the net gain over the loss introduced by the entire circuit including the line and respective equalizer is substantially the same for each frequency transmitted over the system.

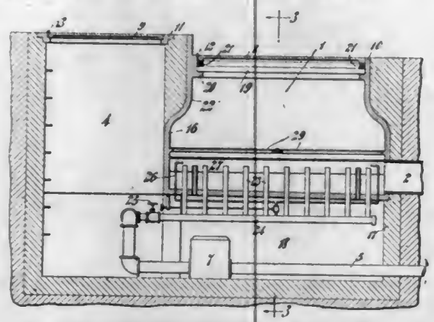
1,665,502. ABDOMINAL SUPPORT. DOUGLAS C. KELLOGG, Jackson, Mich., assignor to Kellogg Corset Company, Jackson, Mich. Filed June 8, 1925. Serial No. 35,826. 1 Claim. (Cl. 2—41.)



An abdominal belt comprising a front section having upwardly tapered bendable metal plates set therein in an outwardly inclined relation to lie over the Poupart's ligaments, said plates being adapted to retain the form into which they are bent under such stresses as they are com-

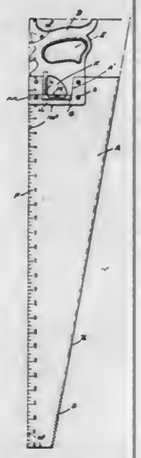
monly subjected to on the wearer, the front section being otherwise without stiffening material, hip sections connected to the side edges of said front section, the connection for one hip section to the front section being detachable, an adjustable lacing connection for the rear edges of said hip sections comprising a plurality of crossed laces, the ends of the laces being connected to tabs provided with buckles, and adjusting straps coacting with said buckles and secured to the front section in opposed relation adjacent the lower edge thereof.

1,665,503. APPARATUS FOR THE REMOVAL OF SNOW. ROSCOE PARKE MCCLAVE and STEPHEN WOOD MCCLAVE, Jr., Cliffside, N. J. Filed May 5, 1925. Serial No. 28,176. 3 Claims. (Cl. 126—343.5.)



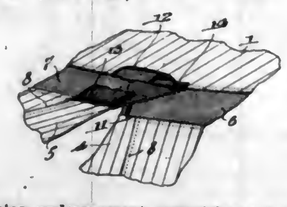
1. In a snow disposal system, a chamber, a melting pot in said chamber, an opening to the surface of the ground from said melting pot, a removable cover for said opening, a grating adjacent said cover in said opening to prevent the insertion of large blocks of ice or packed snow, a screen below said grating to support the snow, means for heating the bottom portion of said melting pot below said screen and means for draining the melting pot.

1,665,504. LEVELING SQUARE. WILLIAM MIDGLEY, Berkeley, Calif. Filed Dec. 21, 1925. Serial No. 76,837. 2 Claims. (Cl. 33—207.)



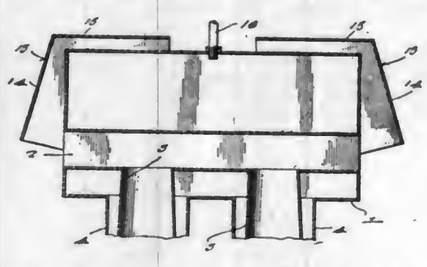
1. A mechanic's tool comprising an elongated thin flat blade tapering in width and provided with a series of graduations of length extending along the side of the blade adjacent a long edge thereof, a gripping handle embracing and secured to the wide end of the blade extending beyond the blade in flush relation with said edge and notched at points continuing said series of graduations beyond the blade and terminating at the end of the series, said blade being notched at its end within the handle and the handle formed with an opening extending transversely through the same and through the notch in the blade, and a pair of bubble glasses mounted at right angles to one another within said opening in the handle and lying within said notch in said blade.

1,665,505. UNION UNDERGARMENT. JOSEPH A. MORTON, Brooklyn, N. Y., assignor to Benjamin Gibbs, Ardmore, Pa. Filed July 23, 1927. Serial No. 207,856. 4 Claims. (Cl. 2—78.)



4. A union undergarment comprising a body, legs, seat flaps, and an elastic belt connected to the body, the legs, and the upper parts of the seat flaps, said belt having elastic overlapping disconnected ends at the back of the garment which extend the seat opening up to the body, and an elastic "snubber" connecting the body and legs of the undergarment where the ends of the elastic belt overlap.

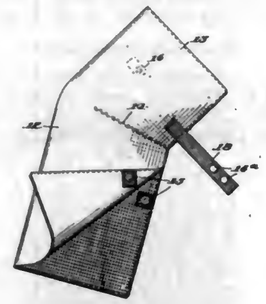
1,665,506. WATER HEATER. WALTER PFEIL and WALTER KOLMEIER, Fredericksburg, Tex. Filed July 29, 1926. Serial No. 125,722. 1 Claim. (Cl. 126—53.)



As a new product of manufacture, a water heater comprising an elongated substantially rectangular tank adapted to rest upon the top of a stove, said tank being provided with a horizontal passage opening through the opposite end walls, shields associated with the discharge ends of the passage, tubes depending from the passage, sleeves depending from the bottom of the tank surrounding the tubes in spaced relation, connecting webs between the bottoms of the tubes and sleeves, a hot water pipe connected with the top of the tank, and cold water supply pipes connected with the sleeves.

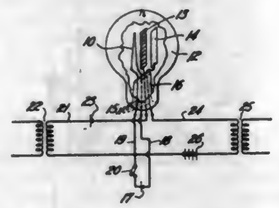
1,665,507. GARMENT. JULIUS POLLAK, Houston, Tex. Filed Feb. 17, 1927. Serial No. 169,087. 1 Claim. (Cl. 2—62.)

A garment shaped to provide a leg portion and also a thigh portion, the latter being adapted to extend some distance above the knee of the wearer so as to protect the leg and practically the entire thigh of the wearer, said thigh portion being bent or inclined relative to said leg portion so that the garment may be comfortably worn when the user is in a sitting position, said garment being closed at its front and normally open at its back throughout its length and being provided with detachable fasteners which are located near the bend



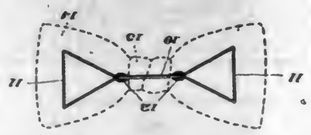
of the garment, leaving the upper and lower ends of the garment open when in use, thus affording free flexure of the knee of the wearer.

1,665,508. ELECTRON-DISCHARGE DEVICE AND CIRCUIT THEREFOR. EARLE E. SCHUMACHER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 22, 1924. Serial No. 745,085. 2 Claims. (Cl. 250—27.)



1. In combination an electron discharge device having a cathode and an anode, an output circuit comprising said cathode, anode and a source of current and a source of heating current for said cathode, said cathode comprising a metal core having a thick shaggy thermionically active coating, means for closing said heating circuit to establish the space current flow between said cathode and anode, and for thereafter opening said heating circuit, the dissipation of energy in the coating by the flow of space current therethrough maintaining the same sufficiently hot to cause it to emit electrons.

1,665,509. BOW-NECKTIE FRAME. WILL F. SMITH, Brooklyn, N. Y. Filed Aug. 10, 1927. Serial No. 211,931. 2 Claims. (Cl. 2—154.)



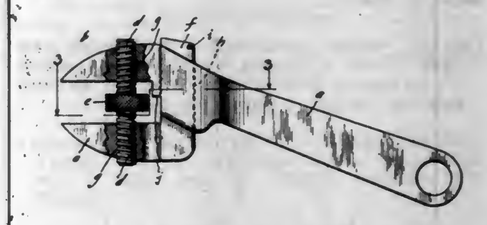
1. A bow tie frame comprising a transverse bar, and wing portions pivoted to the ends of said bar and normally held against movement relative thereto by the friction of the pivots.

1,665,510. CORD GUIDE. ARTHUR S. SPIDEL, Brewster, Ohio, assignor of one-half to E. A. Hamilton, Navarre, Ohio. Filed Oct. 18, 1926. Serial No. 142,314. 5 Claims. (Cl. 173—322.)



1. A cap for a separable attachment plug and the like, and a cord guide member in the cap, the cap having contact blades and base plates therefor, and the cord guide member having faces forming, together with faces of the cap, guideways for snubbing cord wires about the contact blades and directing them over the base plates and for preventing connection of the cords to the base plates without snubbing the cords about the contact blades.

1,665,511. WRENCH. EDWIN E. THOMAS, Portland, Oreg., assignor to John Kiernan, Portland, Oreg. Filed Apr. 28, 1926. Serial No. 105,316. 1 Claim. (Cl. 81—163.)

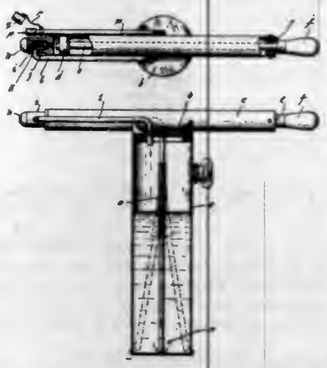


A wrench comprising a stock formed to provide a handle portion and a fixed jaw projecting beyond the handle portion, the handle portion immediately adjacent the jaw being widened and formed in such widened portion with a channel open at the ends and arranged in a plane at right angles to the face of the jaw, a portion of the wall of the channel next to and extending laterally of a jaw being cut away to provide an opening into the channel and to leave a square abutment between said opening and the face of the jaw, a movable jaw having an arm arranged at right angles to the operating face of such jaw and of a size to slidably fit in said channel, said movable jaw at the juncture of the jaw proper and arm being of a size to pass through the channel opening formed in the wall of the channel next the fixed jaw, a rod threaded in the respective jaws, and a nut secured on the rod between the jaws for operating the rod to relatively move the jaws, said nut having a thickness approximating the projection of said abutment beyond the face of the fixed jaw, whereby the jaws may be caused to approach each other to limit permitted by the abutment.

1,665,512. HAND FIRE EXTINGUISHER. EDWIN E. THOMAS, Portland, Oreg., assignor to John Kiernan, Portland, Oreg. Filed Apr. 28, 1926. Serial No. 105,317. 2 Claims. (Cl. 299—96.)

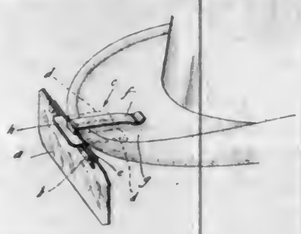
2. A hand fire extinguisher comprising a liquid container, a removable head for closing said container, a pump cylinder carried by the head and arranged at right angles to the axis of said container, said cylinder projecting at its discharge end beyond said head, a plug member closing said discharge of the pump cylinder and having a passage therethrough, an outwardly opening valve in said passage, a head removably engaging the

plug to close the outer end of the passage, a delivery pipe communicating with the passage on the outlet side of the valve and extending longitudinally of and in close proximity to the cyclinder and opening through the head of the container, and a liquid delivery tube having an open



end arranged within the container and extending through the container head, said tube beyond the container head being extended longitudinally of and in close proximity to the cylinder with the discharge end adjacent the valved end of the cylinder.

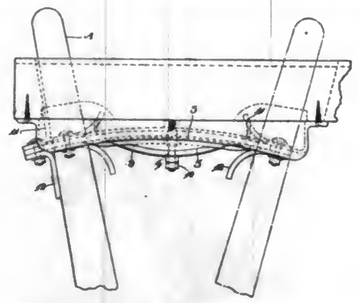
1,665,513. VISOR ATTACHMENT FOR HATS AND CAPS. EDWIN E. THOMAS, Portland, Oreg., assignor to John Kiernan, Portland, Oreg. Filed Apr. 28, 1926. Serial No. 105,318. 1 Claim. (Cl. 2—10.)



A visor attachment for hats and caps, comprising a sheet of transparent material and a frame for removably connecting said sheet to the hat or cap, said frame comprising separate bars of less length and materially less width than that of the sheet, with means for securing the bars on opposite sides of and to the sheet in alignment with the upper edge thereof, the relatively inner bar having rearwardly extending spaced parallel spring arms and the relatively outer bar having a central spring arm extending vertically from the bar and then rearwardly into spaced parallel relation with the first mentioned arms, said relatively outer bar having a forwardly extending section to serve as a finger-hold in applying and removing the attachment, the spring bars cooperating to engage the visor of a hat or cap and the connection between the relatively outer bar and its spring arm providing a space to receive the fordward edge of the visor viding a space to receive the forward edge of the visor to the sheet of transparent material.

1,665,514. BUFFER FOR THE PICKING ARMS IN WEAVING LOOMS. KICHIRO TOYODA, Nagoya, Japan. Filed Aug. 23, 1926. Serial No. 130,908. 2 Claims. (Cl. 139—165.)

1. In combination with the slay of a loom and the picking arm, a buffer comprising seatings secured to the underside of said slay, pressing plates, means connecting said pressing plates to said seatings, a strap having a slot for said picking arm and frictionally held between said seatings and said pressing plates, a spring acting on

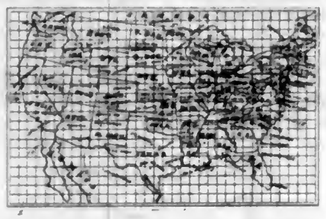


said pressing plates for maintaining said strap in frictional engagement with said seatings and said pressing plates, and oppositely diverging check-tongues provided on said strap at each end of the slot therein.

1,665,515. SINK-HEAD TOP. MAX R. TREMBOUR, Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1926. Serial No. 82,209. 3 Claims. (Cl. 22—147.)

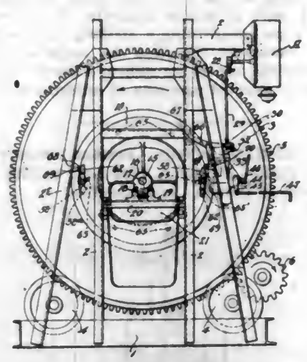
1. A sinkhead top for ingot molds, including a metal frame for resting on the upper edge of the ingot mold, permanent refractory lining for the frame, and a renewable inner lining for the permanent refractory lining.

1,665,516. DRUMMER'S GAME. JULIUS O. TUTTLE and ROY C. TUTTLE, Sioux City, Iowa. Filed Apr. 18, 1927. Serial No. 184,534. 8 Claims. (Cl. 273—134.)



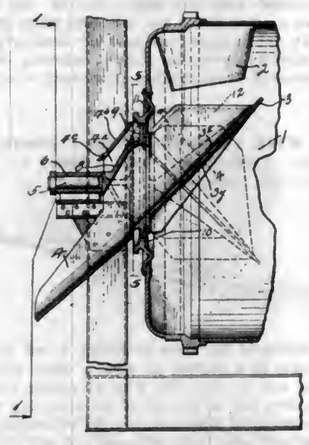
1. In a game, a board comprising a representation of a map, cities indicated upon said map, a few of said cities being distinguished from the other by distinguishing marks, and travel chips for directing a player from one city to another, a few of said travel chips having corresponding distinguished characters and when drawn while the player is at one of the cities having such distinguishing connections serving to double the score which would otherwise be had by the player on that play.

1,665,517. DISCHARGE MECHANISM FOR CONCRETE MIXERS. GEORGE E. WEBB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Mar. 27, 1926. Serial No. 97,962. 44 Claims. (Cl. 83—73.)



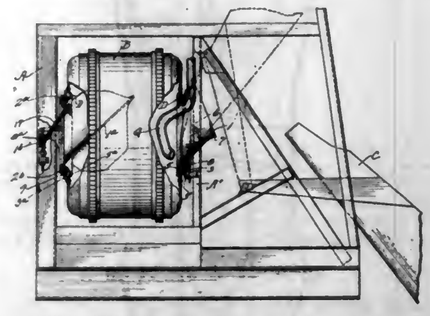
1. In a mixing machine, the combination of a mixing drum, a rotatable discharge chute therefor mounted to move angularly coaxially with the axis of rotation of the drum, and means for operatively connecting the drum with the discharge chute for rotating the chute with the drum.

1,665,518. ROTARY DISCHARGE CHUTE. GEORGE E. WEBB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Mar. 27, 1926 Serial No. 97,963. 36 Claims. (Cl. 83—73.)



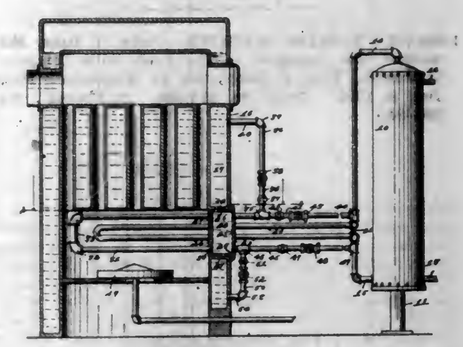
1. In a mixing machine, in combination, a mixing drum provided with a discharge, means within the drum for elevating and dropping materials mixed by the drum, a discharge chute associated with the discharge of the drum and comprising a rotative body provided with means to receive, in the direction of rotation of the body, the impact of the materials elevated by the drum and dropped therein, whereby the turning of the chute is facilitated by said impact action.

1,665,519. CONCRETE-MIXING MACHINE. GEORGE E. WEBB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Sept. 25, 1926. Serial No. 137,665. 25 Claims. (Cl. 83—73.)



1. In concrete mixing apparatus, the combination of a mixing drum having an axial opening, a chute cooperating with and pivotally mounted at the said opening, and sealing means surrounding the chute and extending in contact with the edges of the opening.

1,665,520. WATER-HEATER ATTACHMENT FOR FURNACES. FRANZ J. WOOD, Des Moines, Iowa. Filed Mar. 10, 1924. Serial No. 698,844. 7 Claims. (Cl. 122—20.)

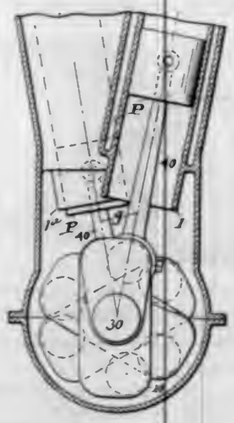


7. In combination, a hot water furnace having a fuel door opening, a hot water supply tank, an auxiliary heating unit designed to fit and be detachably mounted in said door opening, and means for communicating said heating unit with either the water compartment of said furnace or with said supply tank.

1,665,521. INTERNAL-COMBUSTION ENGINE. ERNEST L. WRENTMORE, Warren, Ohio; (Mrs.) Maude V. Wrentmore administratrix of said Ernest L. Wrentmore, deceased. Filed Aug. 25, 1920. Serial No. 405,919. 7 Claims. (Cl. 121—120.)

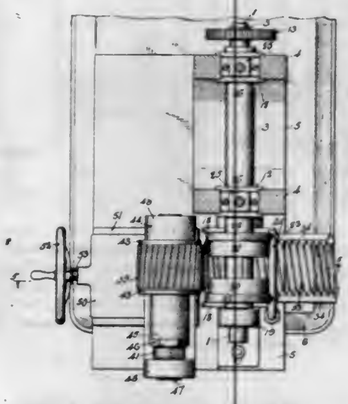
1. In an internal combustion engine having a plurality of cylinders arranged in two relatively inclined rows,—which cylinders are arranged in groups of four of which

the first and fourth cylinder of each group is in one row and the second and third cylinders of said group is in the other row, with a crank shaft having its crank pins disposed in pairs for co-operation with associated pairs of cylinders,—of which one of each pair is in one row and the other is adjacent thereto but in the other row, the crank pins of each pair being disposed one in advance of and one behind the normal plane for said crank pins,



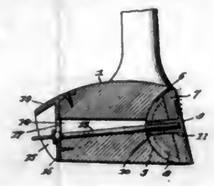
the offsetting of said crank pins from said planes being equal to one-half of the angle between the planes in which the two rows of cylinders lie, the crank pins which are in advance of said normal diametrical planes being connected with the pistons which are in advance of a vertical plane which bisects the angle between the two rows of cylinders, and the other crank pins being connected with the pistons of the cylinders of the other row.

1,665,522. ROLLING MACHINE. JOHN M. BARR, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 8, 1923. Serial No. 679,505. 22 Claims. (Cl. 29—84.)



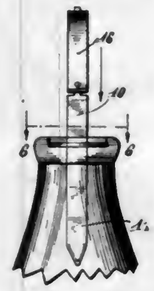
7. A machine for applying to a peripherally slotted rotor core a winding having spaced conductors joined to end rings, comprising a rotatable shaft for the rotor core, a second rotatable shaft, and means carried by the second shaft to engage the conductors and the end rings so as to force the conductors into the slots and bend the end rings.

1,665,523. GOLF CLUB. EDWARD C. BOYCE, New York, N. Y. Filed Jan. 7, 1928. Serial No. 245,123. 12 Claims. (Cl. 273—79.)



1. A golf club of the wood club type, having a head secured to a shaft, a member supported by the head and having a surface constituting a striking face, said member being mounted in the head for angular movement therein to vary the loft of the club, and means for holding said member in selected positions of adjustment.

1,665,524. CAP EXTRACTOR. EDMOND VINCENT BENOIT, Montreal, Quebec, Canada. Filed Apr. 9, 1927. Serial No. 182,435. 2 Claims. (Cl. 65—47.)



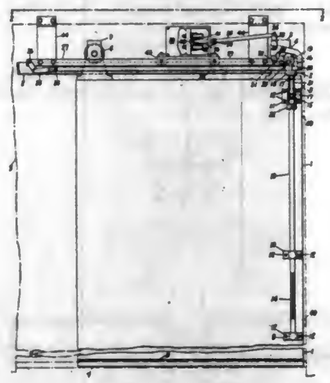
1. A device of the character described comprising a flat body bar tapered at one end having a pair of transverse slots adjacent its opposite end and extending inwardly from the side edges to a point intermediate to the said side edges, a handle formed of a continuous flat strip folded over the upper end of the bar and extending to a point above the bar slots where it is bent outwardly at right angles from said bar thereby providing a pair of laterally projecting flanges, whereby the device will be prevented from further downward movement.

1,665,525. WIRE SPLICER. ALBERT J. BOEHM, Princeton, Minn. Filed June 6, 1927. Serial No. 196,899. 2 Claims. (Cl. 254—81.)



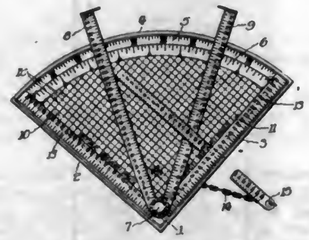
1. In a device of the class described, a rod having one end attachable to a section of wire, a chain attached to the opposite end of said rod, wire attaching means carried by the free end of the chain for attaching the same to another strand of wire, and a rigid extendible member pivotally secured at one end adjacent one end of said rod, said rod having means formed thereon for engaging said member and securing the same in extended position and permitting relative pivotal movement in one direction, and wire attaching means carried at the outer end of the member releasably securing the same against pivotal movement.

1,665,526. ELECTROMECHANICAL INTERLOCK. THOMAS BRADY, East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 2, 1927. Serial No. 172,086. 9 Claims. (Cl. 187—81.)



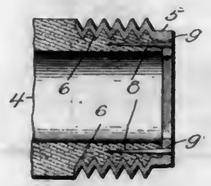
5. An electromechanical interlock for hatchway doors provided with an operating bar comprising, a switch, a stationary rail, a lever pivoted on one end of said rail and operatively connected to said switch, a link pivoted on the other end of said rail, a second link extending parallel to said rail, one end of said second link being connected to said first link and the other end of said second link being connected to said lever, and means connected to the operating bar and arranged, with the door closed, to cooperate with said rail to lock the door and to cooperate with said second link to cause the switch to be held in its closed position.

1,665,527. PELORUS. LEWIS A. BRINKMAN, Chicago, Ill. Filed May 31, 1923. Serial No. 642,700. 5 Claims. (Cl. 33—67.)



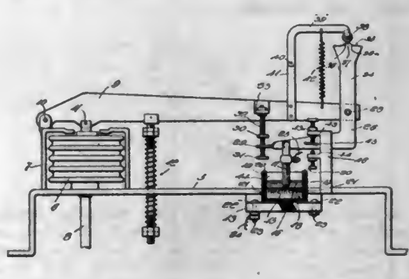
1. In an instrument of the class described, a pair of bearing arms a notched sight plate at the outer end of each arm, common sight post upon which they are pivoted, and an angularly graduated plate, the graduations embracing a quadrant at the center of which is the bearing post and the plate also having rectangular graduations respectively parallel to and in the space between the limiting radii of the quadrant.

1,665,528. ELECTRIC FUSE. HENRY T. BUSSMANN, St. Louis, Mo. Filed Mar. 20, 1922. Serial No. 545,221. 6 Claims. (Cl. 200—132.)



1. In a fuse, a fibre casing, a ring shaped member threaded to the casing, and a holding member to prevent rotational movement of the ring shaped member relative to the casing, said holding member extending longitudinally a relatively short distance into the casing, and being held against displacement by frictional engagement.

1,665,529. QUICK-MAKE AND QUICK-BREAK SWITCH. FORREST LE GRAND BRYANT, Johnson City, N. Y., assignor to Bryant Electric Refrigerator Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 10, 1927. Serial No. 174,258. 12 Claims. (Cl. 200—81.)

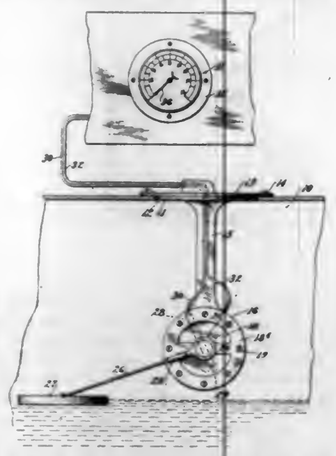


1. A quick make and quick break switch comprising stationary contact means, a member mounted for movement toward or from said contact means, a movable contact for co-action with said stationary contact means, a carrier for said movable contact, means mounting said carrier on said member for movement with respect thereto toward or from said stationary contact means, means for rapidly completing the movement of said carrier in either direction upon movement thereof to a predetermined position with respect to said member, and means for automatically moving said carrier to said predetermined position as the aforesaid member is moved toward or from said stationary contact means.

1,665,530. LIQUID-LEVEL INDICATOR. FREDERICK A. CARMONA and ALFRED M. SANDS, Berkeley, Calif., assignors to Carmona-Sands Corporation, San Francisco, Calif., a Corporation of California. Filed Nov. 15, 1921. Serial No. 515,208. 5 Claims. (Cl. 73—82.)

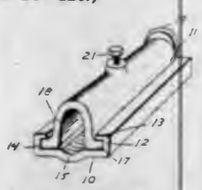
1. In a liquid level indicator for reservoirs, a pressure indicator, an expansion member having a fluid pressure passage extending to the reservoir, and said expansion member and passage containing a fluid, a float mounted to move upwardly and downwardly with the level of the

liquid within the reservoir to vary the pressure in the expansion member, having a fluid pressure passage extending to the reservoir and containing a fluid affected by tem-



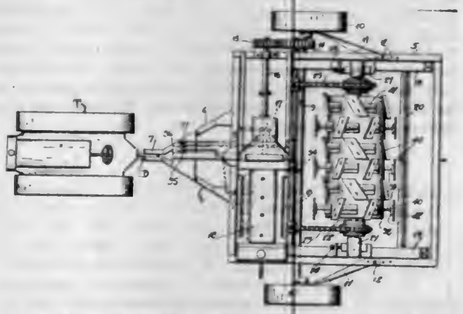
perature changes only, and connected with the said pressure indicator to compensate for temperature variations in the first named expansion member.

1,665,531. CABLE CLAMP. ELMER K. COLE, Winterset, Iowa. Filed June 21, 1926. Serial No. 117,559. 9 Claims. (Cl. 24—126.)



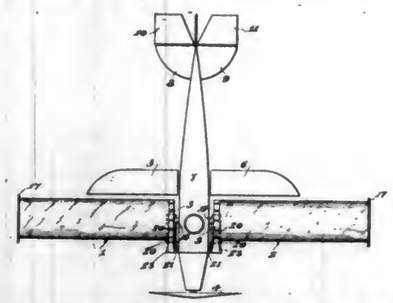
1. A cable clamp comprising two clamping members, one slidably mounted longitudinally with the other, each of said clamping members having its inner face provided with a longitudinal cable receiving groove, each of said grooves being deeper at one end than the other, the deeper end of one groove lying adjacent to the shallow end of the opposite groove.

1,665,532. ROTARY TYPE OF PLOW. ANCEL R. COOK, Sacramento, Calif. Filed Nov. 12, 1926. Serial No. 148,014. 4 Claims. (Cl. 97—46.)



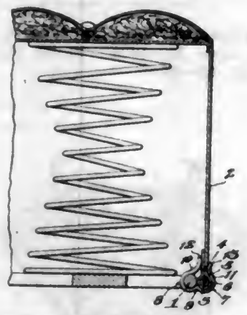
1. A plow including a main wheeled frame having means to hitch the forward end thereof to a tractor or the like, a sub-frame pivoted within the main frame for vertical swinging movement, a rotary plowing implement carried by the sub-frame, means to swing and thereby vertically adjust said sub-frame relative to the main frame, a motor mounted on the main frame, and driving connections between the plowing implement and said motor, said sub-frame embodying rigidly connected side rails of substantially U-shape to provide horizontal intermediate portions and upwardly diverging front and rear legs, the rear legs engaging the inner sides of the main frame to guide the sub-frame in its vertical swinging movements.

1,665,533. AERIAL VESSEL. OVID L. DALLY, Cleveland, Ohio. Filed Oct. 22, 1925. Serial No. 64,175. 7 Claims. (Cl. 244—14.)



1. An aerial vessel comprising a pair of lengthwise aligned revoluble cylindrical sustaining elements to obtain a Magnus effect with the resulting force extending at right angles to the direction of travel of the vessel, and an air driven turbine fixed to the inner end of each of said elements, bodily revolving therewith and having the operating air therefro directed from the propeller of the vessel on the operation thereof.

1,665,534. BORDER-WIRE CONSTRUCTION AND ATTACHING CLIP FOR SAME. FRANK P. D'ARCY, Kalamazoo, Mich. Filed May 18, 1925. Serial No. 31,015. 5 Claims. (Cl. 155—180.)

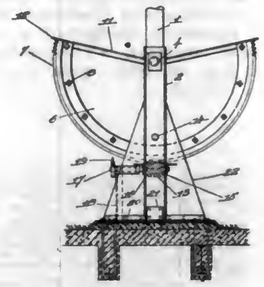


1. In combination, a border wire, fabric having a welt paralleling said border wire, and separate clips securing said border wire and welt together at spaced intervals, said welt having a wire therein with a thick soft cover and which is greatly thinner than the border wire and readily bendable by the fingers.

1,665,535. STAFF AND MOUNTING THEREFOR. WILLIAM A. DAVIS, Malden, Mass., assignor to Babcock-Davis Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1927. Serial No. 234,284. 5 Claims. (Cl. 116—173.)

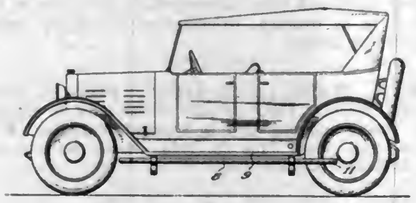
8. A staff and mounting therefor comprising a supporting base plate adapted to be secured to a roof structure, spaced uprights mounted centrally on the base,

radially extending braces to stiffen and preserve the alignment of the uprights, a pole of graduating sizes of steel tubing each size being shrunk onto the next smaller size, trunnions supporting the pole pivotally between the spaced uprights by means of a trunnion bolt journaled at either end in the uprights, a worm sector secured firmly to the base of the pole below the trun-



nions by means of a web sector and angle irons and having its radial center coinciding with the trunnion axis, a worm gear of small pitch meshing with the worm sector and providing unilateral transmission of motion from worm to worm sector for the purpose of moving the worm sector and thereby the pole through an oscillatory path, and means whereby the worm may be operated by a removable operating wrench.

1,665,536. MOTOR-VEHICLE BUMPER. WILLIAM A. DIEAKER, Brooklyn, N. Y. Filed Aug. 17, 1927. Serial No. 213,677. 1 Claim. (Cl. 293—57.)



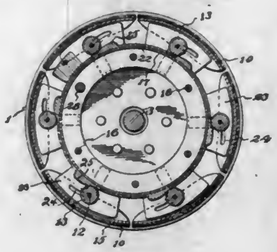
The combination with the side sills of an automobile frame, of a pair of bars secured transversely thereof, resilient loops carried by the outer ends of the bars, and having collars carried thereby, bumper rods engaged in the collars, and rubber buffers carried by the ends of the bars, as and for the purpose set forth.

1,665,537. SKI ATTACHMENT. CLEOPHAS DUMAIS, Limoilou, Quebec, Canada. Filed Mar. 3, 1927. Serial No. 172,447. 2 Claims. (Cl. 208—184.)



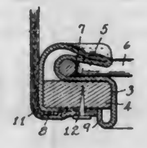
1. A ski attachment comprising an upright wire bracket secured on the intermediate portion of the ski body, a rearwardly extending tongue formed on the bracket and arranged at a downward inclination, a U-shaped spur having its forward portion pivotally connected with the bracket and its rear side portions offset laterally and pointed at the ends to normally engage the ground, the forward portion of the spur being adapted to engage the tongue of the bracket in an elevated position of the spur to limit the upward swinging movement thereof.

1,665,538. VEHICLE BRAKE. RAYMOND G. ELLIS, Snoqualmie, Wash. Filed Mar. 30, 1927. Serial No. 179,555. 6 Claims. (Cl. 188—78.)



1. In a vehicle brake, a plurality of radially movable brake shoes grouped about an axis, and a brake operating ring provided with cam lifts adapted to move the brake shoes outwardly, and other means for moving the brake shoes inwardly consisting of pins and cam slots.

1,665,539. SPRING STRUCTURE. WILLIAM A. FALLS, Detroit, Mich., assignor to L. A. Young Industries, Inc., Detroit, Mich. Filed Mar. 14, 1925. Serial No. 15,603. 2 Claims. (Cl. 155—180.)

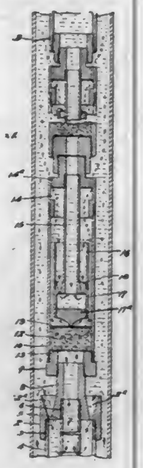


1. The combination in a structure of the class described with a plurality of body springs, of a supporting base therefor comprising a border frame of sheet metal conformed to provide a downwardly facing channel having an inturned flat flange at its front edge and a curved flange at its inner edge providing a bead-like support, the web portion of said strip folded upon itself providing an inwardly facing channel within which the bottom coils of said springs are clamped by the said reversely folded portion thereof, a tacking strip secured within said channel by its said flanges, and an upholstery covering comprising a skirt portion wrapped upon said border frame and tacked to said tacking strip with its edges at the outside of said flange which constitutes a guard therefor and a support for the frame.

1,665,540. GAS EXTRACTOR FOR PUMPS. HENRY M. GREEN, Los Angeles, Calif.; Pacific Southwest Trust & Savings Bank, administrator of said Henry M. Green, deceased, assignor to C. M. O'Leary. Filed July 20, 1925. Serial No. 44,852. 1 Claim. (Cl. 103—220.)

Bubble breaking and gas separating means for a well, including a tubular body having an intake screen in its

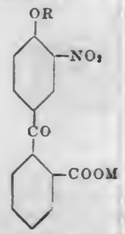
lower end to reduce gas bubbles, a closure on the head of the body having a suction nipple extending down therefrom and having gas escape holes outside of the



nipple, and a liquid trap at the bottom of the nipple having conical inlet ports to express gas from the incoming oil to the nipple.

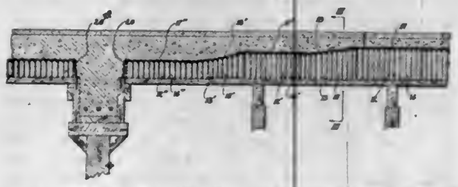
1,665,541. PROCESS OF PREPARING ALKYL ETHERS OF 3'-NITRO 4'-HYDROXY ORTHO-BENZOYL BENZOIC ACID. IVAN GUBELMANN, HENRY J. WEILAND, and OTTO STALLMANN, South Milwaukee, Wis., assignors to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed June 28, 1926. Serial No. 119,246. 9 Claims. (Cl. 260—64.)

7. As a new article of manufacture, alkyl ethers of 3'-nitro 4'-hydroxy-ortho-benzoyl-benzoic acid, having most probably the following formula:



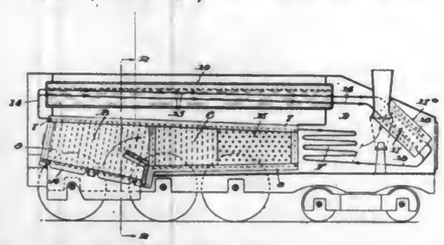
wherein R represents any alkyl group such as methyl, ethyl and the like and M represents a hydrogen or metal atom.

1,665,542. CONCRETE-FLOOR CORE. WALTER S. HALDEMAN, Chicago, Ill., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 10, 1922. Serial No. 535,587. 7 Claims. (Cl. 25—131.5.)



1. A core for concrete floor construction or the like, including a straight section having certain cross-sectional dimensions, another straight section having different cross-sectional dimensions, and an intervening tapered section joining the straight sections, the respective ends of the intervening section corresponding in cross-sectional dimensions to the ends of the adjoining straight sections.

1,665,543. TRAVELING PLANT FOR THE GENERATION OF HIGH-PRESSURE STEAM. OTTO H. HARTMANN, Cassel-Wilhelmshohe, Germany, assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed Sept. 23, 1924. Serial No. 739,255. 7 Claims. (Cl. 122—32.)



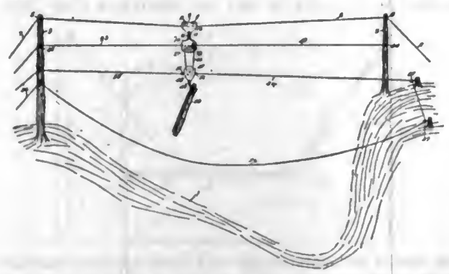
1. A traveling boiler plant for generating high-pressure steam, comprising a fire box, a channel for conveying the combustion gases from said fire box, boiler drums above said fire box and channel, hollow upper collectors forming a protecting wall below said drums to shield them from direct contact with the combustion gases flowing through said fire box and said channel, lower collectors, hollow members connecting the upper collectors with the lower ones, tubes traversing said drums and adapted to transfer heat to the contents thereof, said collectors and connecting members being arranged in groups, each group being connected to one of said tubes, and being disconnectable therefrom to enable it to be removed without interrupting the operation of the plant.

1,665,544. WHEEL-PITCH GAUGE. FRANK R. HARTSOCK, Warsaw, Ind., assignor of one-third to Charles O. Dickey and one-third to Leonard E. Dickey, Warsaw, Ind. Filed June 28, 1926. Serial No. 119,104. 3 Claims. (Cl. 33—203.)



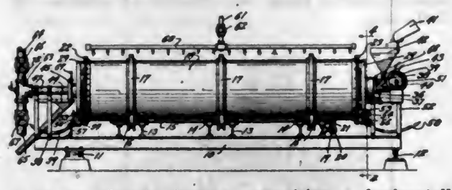
1. In a wheel-pitch gauge, a supporting member embodying a pair of bars and means for slidably connecting said bars for parallel movement, means normally tending to extend them, each bar being provided with an arm near its outer end extending forwardly with respect to said supporting member, a scale-plate at the junction of each arm and its bar, a gauge-lever pivotally mounted on the forward end of each bar and having its forward end turned outwardly for engagement with the wheel felly and having its rear end pointed and adapted to move over the adjacent scale, and a spring at the joint of each gauge-bar with its arm normally tending to swing the forward end of the gauge-bar outwardly, stops being employed to restrict this outward movement of said gauge-bars.

1,665,545. PULLEY BLOCK AND METHOD OF OPERATING PULLEY BLOCKS IN SKY-LINE SYSTEMS. CHARLES T. HASEMAN, Mill City, Oreg. Filed Oct. 21, 1924. Serial No. 744,935. 2 Claims. (Cl. 212—95.)



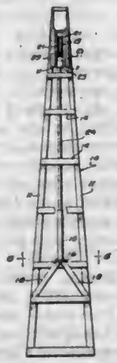
1. In an apparatus of the class described, a block traversable along a cable, said cable being reeved through said block to exert a torsional influence thereupon, and anti-friction means on the block for engaging the cable to resist said torsional influence.

1,665,546. ELECTRIC FURNACE FOR TREATING ORES, SHALES, ETC. FRANCIS E. HATCH, Denver, Colo. Filed Sept. 4, 1926. Serial No. 133,715. 8 Claims. (Cl. 263—16.)



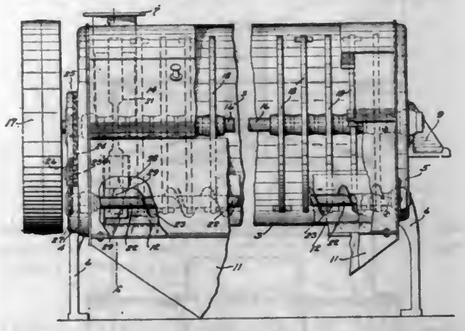
1. In an electric furnace comprising a horizontally disposed drum; a lining of refractory material in said drum; heads adapted to close the extremities of said drum; pipes communicating through said heads and extending throughout said drum through said lining; a collector carried at one extremity of said drum and connected with said pipes; and means for causing a current of air to flow through said pipes and said collector.

1,665,547. ATTACHMENT FOR WELL-DRILLING APPARATUS. CLAYTON E. HAZEL and HARRIS C. MONTGOMERY, Joplin, Mo.; said Montgomery assignor to said Hazel. Filed July 29, 1926. Serial No. 125,803. 2 Claims. (Cl. 189—16.)



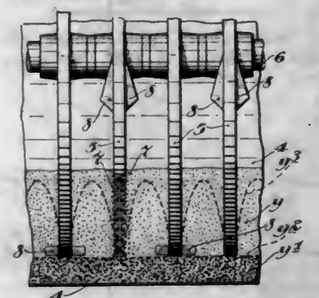
1. The combination with a drilling mast including a pair of uprights, of guide plates carried by said uprights adjacent the upper ends thereof, a frame vertically movable in said guide plates, a sheave carried by said frame, a plunger secured at its upper end to said frame, a cylinder supported by said mast, a plurality of rubber cushion blocks arranged in said cylinder, the lower end of said plunger being arranged to reciprocate in said cylinder and being supported by said blocks.

1,665,548. DISK SEPARATOR. CHARLES C. INGRAHAM, Minneapolis, Minn., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed June 7, 1926. Serial No. 114,094. 10 Claims. (Cl. 209—96.)



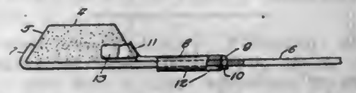
1. In a separator of the kind described, the combination with a container and a plurality of pocketed separating disks working therein, of a repeat trough at one side of said container arranged to receive commingled stock from certain of said disks, a conveyor working in said repeat trough, and means at the delivery end of said repeat trough for delivering the returned stock therefrom directly back into the receiving end of said container.

1,665,549. POCKETED SEPARATING DISK. CHARLES C. INGRAHAM, Minneapolis, Minn., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed June 7, 1926. Serial No. 114,117. 4 Claims. (Cl. 209—96.)



1. As a new article of manufacture, a disk-like separator having a pocketed surface and provided with a laterally projecting agitating lug located close to its periphery and projecting from its pocketed surface.

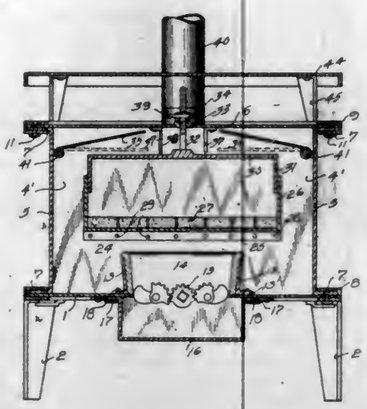
1,665,550. CONTACT HOLDER. JOHN T. JANETTE, Chicago, Ill. Filed Mar. 30, 1925. Serial No. 19,404. 4 Claims. (Cl. 200—166.)



1. In a brush holder, the combination of a metal strip having one end bent at an acute angle, a contact engaging with said strip and having one end beveled to

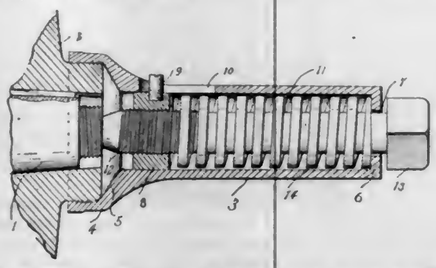
engage with the bent portion of the strip, a clip having a tang at one end passing through a hole in the strip and having its opposite end engaging with the adjacent beveled end of the contact, said clip having integrally formed projections bent under the strip for holding it in adjusted position.

1,665,551. BAKING OVEN. MATTS JOHNSON, Spokane, Wash., assignor of one-fourth to Nels P. Nelson and one-fourth to Oscar Carlson, Spokane, Wash. Filed Mar. 22, 1924. Serial No. 700,991. 1 Claim. (Cl. 107—62.)



The combination in a furnace comprising end, side and top and bottom walls to form a heating chamber, an oven in said chamber and a grate below the oven, spaced plates attached at the under side of the top wall to form a flue located at the longitudinal center of said oven and thereabove and a smoke outlet to said flue, and oppositely disposed, hinged deflector plates at the sides of said spaced plates and adapted to swing to adjusted position between the top of the oven and the top wall of the heating chamber.

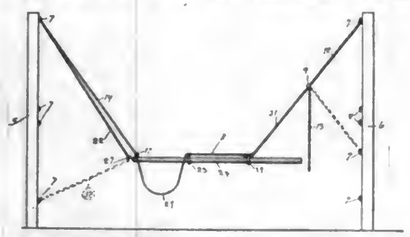
1,665,552. WHEEL PULLER. GEORGE KELL, Louisville, Ohio. Filed Oct. 24, 1927. Serial No. 228,446. 2 Claims. (Cl. 29—85.)



1. A wheel puller comprising a sleeve having a head for engagement with the hub of the wheel, a follower nut slidable in the sleeve, a feed screw engaged in the sleeve and with the nut, and a coil spring encircling the feed screw and engaged with the nut, as and for the purpose set forth.

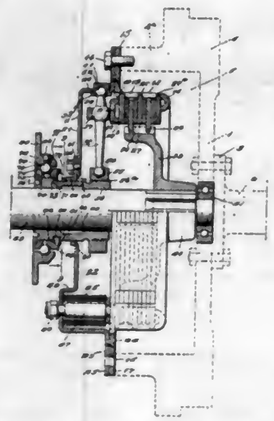
1,665,553. HAMMOCK. PAUL A. KNAPPE, Santa Rosa, Calif. Filed July 17, 1926. Serial No. 123,130. 2 Claims. (Cl. 155—67.)

1. In a hammock of the character described, comprising a fabric strip, cross pieces secured at the ends of said strip, supporting ropes attached to said cross pieces and adapted to be secured to a suitable support, a second fabric strip secured to said first fabric strip in such a manner as to form a pocket, a cross brace removably secured within said pocket, a cross brace secured at the free end of said last mentioned fabric strip, a supporting rope secured to said last mentioned cross brace



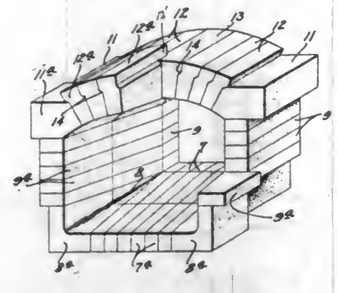
and means for maintaining said cross brace in substantially parallel alignment, said means comprising a pair of spaced members having sliding engagement with said cross braces and hooks secured in the ends of said parallel members, said hooks being adapted to engage said rope secured to said cross brace carried on the free end of said fabric strip.

1,665,554. CLUTCH. GEORGE F. KOLB, Fairfield, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 3, 1923. Serial No. 629,578. 9 Claims. (Cl 192—69.)



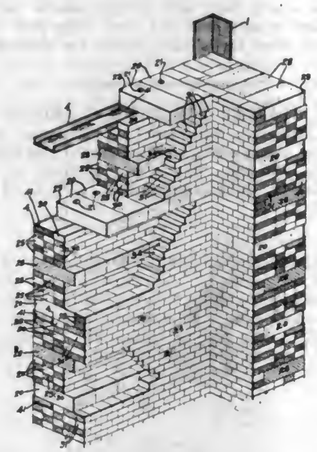
1. A substantially unitary friction clutch adapted for application to various existing motor vehicle flywheels and clutch shafts and comprising a forward housing, one or more annular driving disks therein and having splined engagement therewith, a disk abutment, an annular pressure plate centered by the housing, a rear housing connected to the forward housing, a shifter sleeve centered in relation to the rear housing, a plurality of releasing levers fulcrumed in sockets in the rear housing and having pivotal engagement with the pressure plate, the inward ends of the levers pivotally engaging in sockets carried by an inward portion of the shifter sleeve, means connecting the shifter sleeve to revolve with the rear housing and permitting longitudinal movement, one or more annular driven clutch disks located between said driving disks, a spider having a slidable and irrevoluble connection with the driven disks and also arranged for irrevoluble connection to a clutch shaft or driven shaft, a plurality of direct acting compression springs between the rear housing and the pressure plate, and a spring rod passing through each spring and connected to the pressure plate and passing movably through a hole in the rear housing.

1,665,555. FIRE-TILE DOORFRAME. MICHAEL LIPTAK, Minneapolis, Minn. Filed Apr. 10, 1924. Serial No. 705,533. 8 Claims. (Cl. 110—181.)



1. A door frame, comprising supplemental inner and outer jamb-forming blocks, and supplemental inner and outer arch-forming blocks, said inner arch-forming blocks having terminal extensions resting and slidable upon the outer arch-forming blocks.

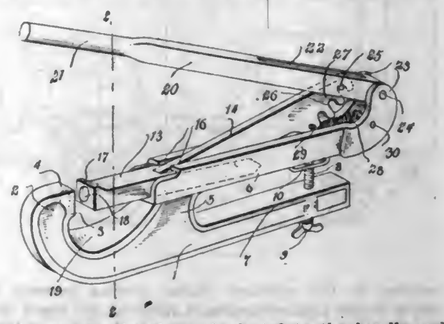
1,665,556. FIRE WALL. MICHAEL LIPTAK, St. Paul, Minn. Filed Oct. 11, 1926. Serial No. 140,888. 16 Claims. (Cl. 72—102.)



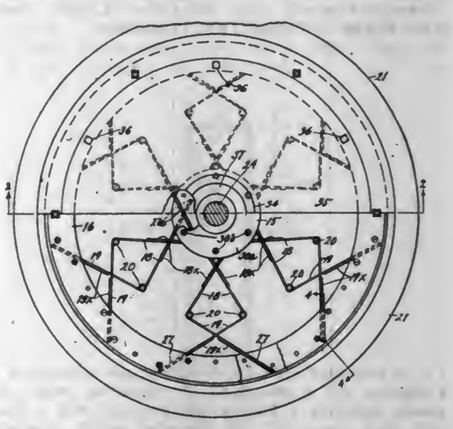
1. A wall having a permanent portion comprising a plurality of superposed channel irons extending lengthwise of the wall, rows of fire bricks laid upon the tops of the irons as headers and projecting at the inner side of the wall to form shelves, bricks filling the space between the headers and irons beneath and above the same, including only stretcher courses at the outer portion, and a replaceable portion comprising bricks laid as headers and supported between the shelf-forming headers and abutting the stretcher courses.

1,665,557. NUTCRACKER. JAMES F. MILLER, Minden, La. Filed Mar. 22, 1927. Serial No. 177,379. 4 Claims. (Cl. 146—16.)

1. A nut cracker comprising an elongated body, a jaw extending upwardly from said body, a post extending upwardly from said body in spaced relation to said jaw, an arm carried by and extending rearwardly from the upper end of said post, said arm being formed with a longitudinally extending pocket opening through the forward end of the arm, the upper surface of the arm being formed with a longitudinally extending slot communicating with said pocket, a plunger slidable into and out of said pocket through the open forward end thereof towards and away from said jaw, a handle pivoted to said arm, and a link pivoted to said plunger and extending upwardly through the slot and pivoted to the handle and adapted to impart reciprocating movement to said plunger when the handle is moved.



1,665,558. SPRING WHEEL. FRED W. MONTGOMERY, North St. Paul, Minn. Filed Jan. 22, 1925. Serial No. 3,968. 4 Claims. (Cl. 152—51.)

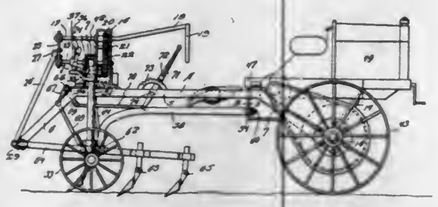


1. In a spring wheel, a hub and a felly, said hub and felly having in their opposite sides a plurality of obliquely disposed grooves, a series of spokes arranged in pairs, each spoke comprising two members disposed at substantially right angles and connected at their inner ends, the outer ends of said members being engaged respectively with the grooves of the hub and felly, flat metal rings secured to the opposite sides of the hub and felly whereby the ends of the spokes are held against lateral movement from the grooves, and centrally apertured discs secured at their outer edges to the opposite sides of the felly, the centrally apertured portions of said discs having a sliding engagement with the plates on the opposite sides of the hub.

1,665,559. CULTIVATOR. THOMAS A. MOORE, Eldon, Iowa. Filed Mar. 5, 1927. Serial No. 173,065. 2 Claims. (Cl. 97—47.)

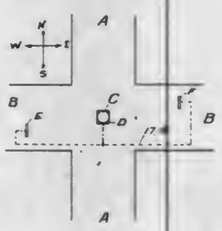
1. A machine of the class described comprising a frame, rear wheels, means mounting the rear wheels on the rear of the frame, front wheels, steering knuckles for

said front wheels, sleeves fixed to said steering knuckles and projecting therefrom vertically, a cross bar having downwardly extending ends at the tops of the sleeves, anti-friction means on the frame engaging said cross bar, an auxiliary frame rising from the first frame, a pair of horizontal shafts journaled in vertical spaced



relation in the auxiliary frame, gearing between the shafts in the auxiliary frame, a roller on the lower shaft ridable on the cross bar, a crank on the lower shaft, a connecting rod engaged with the crank and engaged with the bar, a second crank on the lower shaft, a second connecting rod engaged with the second crank, and with a crank on one of the sleeves, a crank on the other sleeve, and a connecting rod between the two last mentioned cranks.

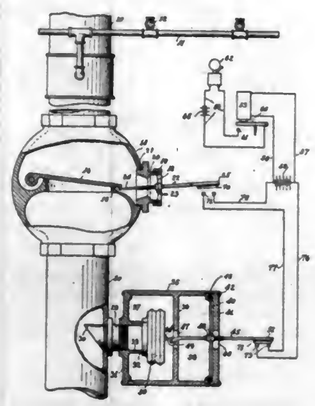
1,665,560. VARIABLE TRAFFIC SIGNAL. ROBERT O. NELSON, Portland, Oreg. Filed May 16, 1925. Serial No. 30,865. 5 Claims. (Cl. 177—337.)



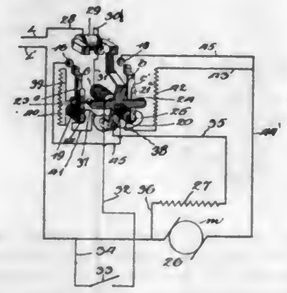
1. A signalling system arranged at the intersection of a highway and a cross road for regulating traffic, said system including a highway lamp circuit and a cross-road lamp circuit, a time controlled switch associated with said circuits for alternately opening and closing the same, said switch being normally idle in an initial position so as to normally retain the highway circuit closed and permit highway traffic to cross the intersection, means actuated by a vehicle approaching the intersection on the cross road for actuating the switch so as to alternately de-energize the highway circuit and energize the cross road circuit to successively signal the right-of-way to the cross road and highway, said means including the time controlled switch and being operative for automatically restoring the switch and the lamp circuits to their initial conditions.

1,665,561. SIGNAL-ALARM DEVICE FOR SPRINKLER SYSTEMS. JAMES G. NOLEN, New York, N. Y., assignor to Robert L. McElroy, Charlottesville, Va. Filed Nov. 11, 1925. Serial No. 68,434. 15 Claims. (Cl. 169—23.)

1. In combination, a conduit; a check valve therein having a valve member and a projecting stem held raised by said member when closed; a pipe passed into said conduit between the valve and the inlet end of the conduit; a casing having a vent communicating with said pipe; a bellows in the casing communicating with the pipe; a projecting lever raised by said bellows when distended; an alarm bell; and electric means including a circuit closed by said stem and lever when both are down at the same time, for bringing about the ringing of said bell.



1,665,562. STARTER FOR ELECTRIC MOTORS. WILLIAM C. O'BRIEN, Baltimore, Md., assignor, by direct and mesne assignments, to Cline Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1924. Serial No. 747,751. 5 Claims. (Cl. 172—288.)

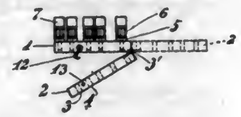


1. In a starter for electric motors, the combination of normally open, main and auxiliary contactors, a normally inoperative spring for closing said auxiliary contactor, a magnet for opposing said spring, and parts mounted on said main contactor for successively closing the circuit of said magnet and placing said spring in operative condition, substantially as described.

1,665,563. FOLDABLE POCKET PIANO KEYBOARD. ALEXANDER RAAB, Evanston, Ill. Filed Mar. 31, 1926. Serial No. 98,772. 5 Claims. (Cl. 84—467.)

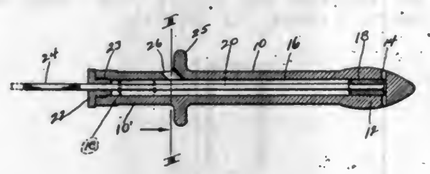
3. In a device of the character described the combination of a pair of hinged sections, the combination of a key

base having a pair of upstanding ears at one end thereof, a key pivotally mounted in said ears, resilient means interposed between said base and the underside of said key



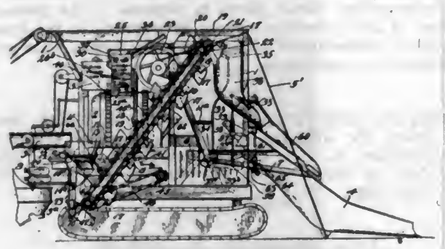
for holding said key in its normal raised position, and means for detachably connecting said base to said sections.

1,665,564. COMBINATION DILATOR AND APPLICATOR APPLIANCE. ALBERT F. REITZ, Kansas City, Mo. Filed Oct. 4, 1926. Serial No. 139,376. 2 Claims. (Cl. 128—234.)



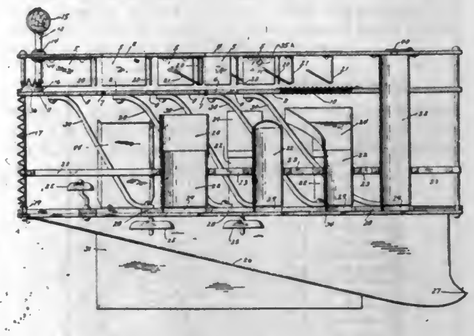
1. A dilator comprising a hollow casing enlarged at one end and provided with openings through said enlarged end, and a plunger within said casing and having an operating rod projecting from the other end of the casing, said casing being formed intermediate its ends with an external annular flange and also having a feed opening rearward of said flange and forward of the retracted position of the plunger.

1,665,565. CEMENT LOADING, CONTROLLING, MEASURING, AND COUNTING APPARATUS FOR CONCRETE MIXERS. JOHN F. ROBB, Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed May 6, 1926. Serial No. 107,237. 52 Claims. (Cl. 83—73.)



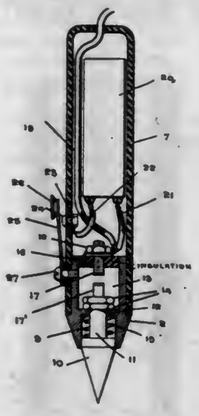
1. In combination, a concrete mixing machine, including aggregate charging means, a cement conveying device therefor, and means to cause operation of the conveying device from the charging means of the mixing machine, and stopping said device when it has conveyed a predetermined amount of material.

1,665,566. COIN-CHANGING MACHINE. WILLIAM HUNTINGTON RUSSELL, New Haven, Conn. Filed Jan. 11, 1928. Serial No. 612,081. 8 Claims. (Cl. 194—80.)



1. A coin changing machine comprising a frame, a plurality of coin carrying plates arranged to receive coins of different values, means to actuate said plates through a coin and means to eject said coin from said plate, said plates being horizontally disposed end to end and movable in said frame against a spring, coin magazines attached to said frame and means selectively connected to the coin carrying plates for ejecting coins of selected denominations from said coin magazines.

1,665,567. IGNITION TESTER. WILMER JENNINGS SLIFER, Easton, Pa. Filed Apr. 8, 1925. Serial No. 21,519. 7 Claims. (Cl. 175—183.)

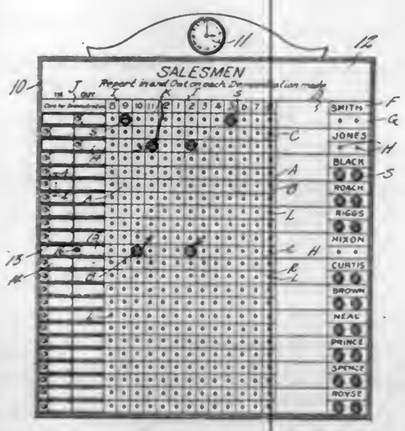


5. An ignition tester comprising a bridging unit for the breaker of an ignition system and having a terminal prod, said prod including a handle, a testing condenser in said handle, and two independently operable circuit closers assembled with said handle, one circuit closer being connected in series with the condenser and bridging unit and the other circuit closer being connected in series with the bridging unit and bridging said condenser.

1,665,568. REPORT BOARD. EDWARD R. SPIEGEL, Dallas, Tex., assignor of one-half to John W. Miller, Dallas, Tex. Filed Sept. 30, 1927. Serial No. 223,176. 6 Claims. (Cl. 116—136.)

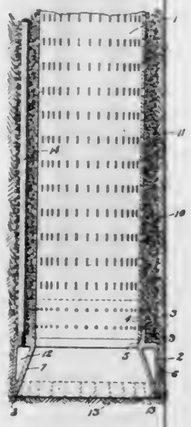
6. A report board comprising a plurality of vertical columns having indications and including transverse

alined spaces formed with receiving recesses, an indicator comprising a plug and head, a key upon the plug entering a seat in the recess to prevent rotation therein, and



a rotatable sleeve surrounding the head and provided with characters adapted to register with the column indications and qualify the same.

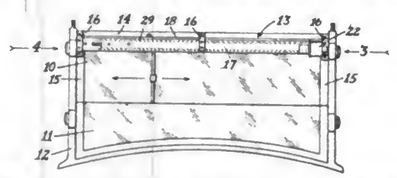
1,665,569. WELL-CASING SHOE. JACOB VON GUNTEN, Massillon, Ohio, assignor to The Ohio Drilling Company, Massillon, Ohio, a Corporation of Ohio. Filed May 31, 1923. Serial No. 642,499. 2 Claims. (Cl. 166—9.)



1. A shoe for well casings provided with a water chamber, ports communicating with the water chamber and extended through the lower edge of the shoe and a pipe connected to the water chamber and extended upward alongside of the casing.

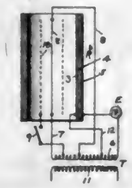
1,665,570. ELECTRIC WINDSHIELD WIPER. LAWRENCE W. WATERS, Los Angeles, Calif. Filed Feb. 19, 1927. Serial No. 169,525. 1 Claim. (Cl. 15—253.)

In windshield wiper mechanism, an elongated stationary horizontal hood of angle iron formation in cross section, said hood having in cross-section an upwardly arched portion and a downwardly arched portion, forming runways, a carriage having a plurality of wheels



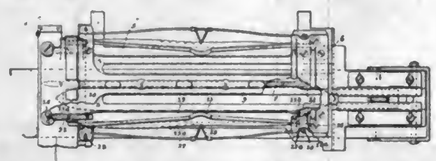
engaging said runways to travel therealong, a windshield wiper element mounted on said carriage, and means for reciprocating said carriage.

1,665,571. ELECTRICAL TRANSLATING APPARATUS. FRANK N. WATERMAN, Summit, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 648,447, filed June 29, 1923. This application filed Oct. 19, 1923. Serial No. 669,578. 2 Claims. (Cl. 250—27.)



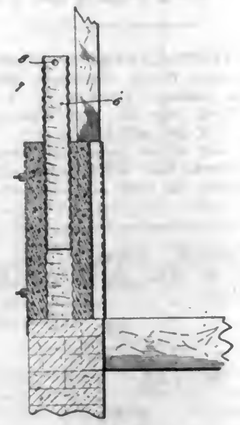
2. In combination, a filament, a primary circuit including a source of current for heating said filament, a plate, a plate circuit including said filament and said plate and a source of current for imparting high velocity to electrons emitted by said filament when the latter is heated by the primary circuit, a grid interposed between said filament and said plate, a grid circuit including said filament and said grid and a source of current for controlling the electron stream flowing from said filament to said plate, a thermo-sensitive substance in contact with said plate and arranged to be heated by bombardment due to electrons flowing from said filament to the plate said substance having the characteristic of varying in electrical resistance in response to variations in its temperature, and a secondary circuit including said thermo-sensitive substance and a source of current whereby the amount of current flowing in the secondary circuit varies in response to the temperature of said substance and so in response to the intensity of bombardment due to electrons flowing from said filament to said plate.

1,665,572. SHUTTLE BOX. WILLIAM S. WELLS, Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 10, 1924. Serial No. 742,768. 2 Claims. (Cl. 139—185.)



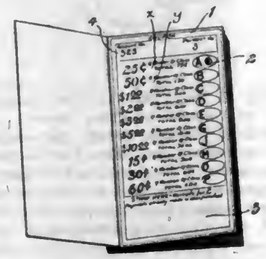
1. A shuttle box having opposite walls between and in wiping contact with which the shuttle moves when in the box, each of said walls having an elongated and substantially straight shuttle-wiped surface extending lengthwise of the shuttle path and which is in permanent substantial parallelism with such surface of the other wall from the entrance end to approximately the other end of the box and one of said walls being elastically yielding from the other and coactive with the latter to grip the shuttle, and the box having at said other end thereof and at both sides of said path stops arranged to be simultaneously engaged by, and thus adapted to check such entering movement of, the shuttle.

1,665,573. CORE FOR HOLLOW-WALL CONSTRUCTION. BRADLEY P. WHEELER, Jr., Buffalo, N. Y. Filed Nov. 20, 1925. Serial No. 70,266. 2 Claims. (Cl. 25—128.)



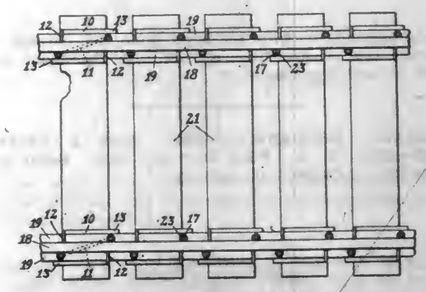
1. A core for concrete construction work, comprising a cylindrical member having broad rounded high pitch threads on its outer face and adapted to be imbedded in concrete and moved upwardly by the rotation therein the concrete.

1,665,574. COUPON BANK DEPOSIT BOOK. WILLIAM H. WILKES, New York, N. Y., assignor to National Advertising Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 31, 1925. Serial No. 6,029. 3 Claims. (Cl. 283—59.)



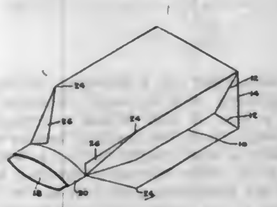
1. A bank deposit book comprising a plurality of detachable coupons, each of said coupons in the book being in superimposed relation with respect to all the other coupons in the book, indicia representing a number of different classes of depositors on said coupons, an indicated space on each coupon corresponding to each indicium thereon, the spaces of the different coupons being in substantially exact superimposed relation whereby all the coupons of the book may be punctured in a single operation in advance of issuance of the book, and said indicia being of such nature as to indicate that all the coupons of the book have been appropriated to a particular class of depositors when superimposed spaces throughout the book have been punctured.

1,665,575. RAIL AND TIE CLAMP. FRANK WILSON, Sr., Los Angeles, Calif., assignor to Annie Wilson Reboul, Los Angeles, Calif. Filed May 3, 1927. Serial No. 188,580. 1 Claim. (Cl. 238—305.)



In combination with rails and ties, a clamp comprising a plate placed between the rail and tie, bracing flanges struck up vertically and in spaced relations to the side edges of said plate and engaging in an edgewise manner with the rail above its base, there being aligning holes through the base flange of the rail and through the side portions of said plate where they project beyond their upstanding flanges, and fastening bolts extending through said aligned holes.

1,665,576. BAG OF PAPER OR OTHER FLEXIBLE MATERIAL. CARL A. WITHAM, Minneapolis, Minn. Filed Nov. 12, 1926. Serial No. 147,915. 2 Claims. (Cl. 229—53.)

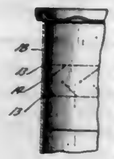


1. A bag of paper or other flexible material having vertical sides manipulated at the upper end of the bag to reduce the cross section thereof, oppositely disposed tongues extending up from said reduced portion, and a straplike piece of material secured around said tongues to produce a single restricted opening.

1,665,577. CONTAINER. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1922. Serial No. 562,898. 1 Claim. (Cl. 220—53.)

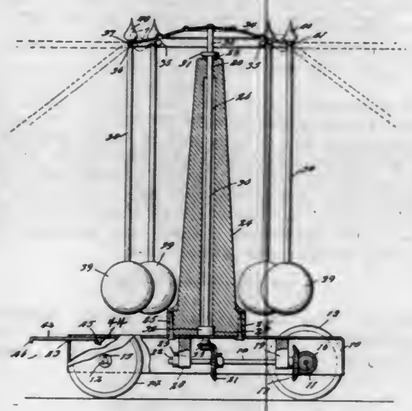
A can comprising a body having a top closure, and provided with internal scoring therebeneath adapted to permit severance of a tearing strip from the can to open it, and a band having its ends connected in a lock

seam and presenting a smooth substantially continuous outer face in contact with the body, said band being arranged circumferentially within the can and in tight



metal-to-metal fit with its inner wall and adapted to protect said scoring from contact with the liquid content of said container.

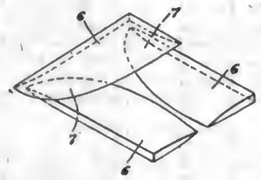
1,665,578. MECHANICAL TOY. JOHN J. BECKER, Brooklyn, N. Y. Filed Dec. 22, 1925. Serial No. 76,952. 7 Claims. (Cl. 46—48.)



7. In a mechanical toy, a traveling carriage, rotatable wheels supporting said carriage, rotatable means actuated by a pair of said wheels including a vertical shaft extending above the carriage, means for supporting said shaft, a disk fixedly secured to the upper end of said shaft to rotate therewith, the disk having incut sections at its periphery, and a series of independent arms pivoted at the upper ends in said sections of the disk, the arms each having an enlarged lower end and also an enlarged upper end, the latter being adapted to engage the disk to limit the outward swing of the arms.

1,665,579. PROCESS OF MAKING HORSESHOE RANDS. OTIS T. CRAFTS, Manchester, N. H., assignor to Crafts Process, Inc., Manchester, N. H., a Corporation of Maine. Filed Jan. 28, 1927. Serial No. 164,208. 1 Claim. (Cl. 36—78.)

That improvement in the art of producing leather rands for use in the manufacture of boot and shoe heels, which consists in assembling a plurality of waste leather sections of varying thickness, each section formed from wedge-like waste material, utilizing such sections with the thicker edge of the wedge-like portion positioned in the outermost edge of the finished rand, overlapping and securing the wedge-like sections together by adhesive independent of separate scarfing or beveling actions on the contacting surfaces of said sections, ap-

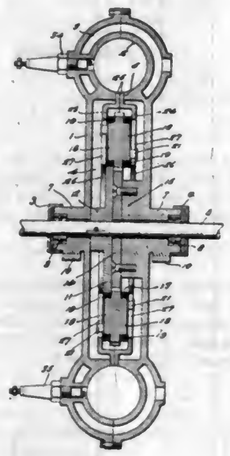


plying pressure thereto, dieing out the united sections into desired horseshoe form, and thereupon subjecting the blank to a cutting action to form a rand-like rim.

1,665,580. MANUFACTURE OF STENCIL SHEETS. ALEX BROOKING DAVIS, Cincinnati, Ohio, assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed May 20, 1926. Serial No. 110,571. 5 Claims. (Cl. 41—38.6.)

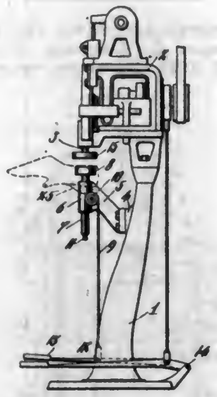
1. A type and stylus impressible stencil sheet consisting of a porous base sheet coated with a homogeneous film including the fatty acid ester of a carbohydrate gum.

1,665,581. MOTOR. HENRY F. DENY, Marydel, Md. Filed Sept. 30, 1925. Serial No. 59,664. 2 Claims. (Cl. 123—11.)



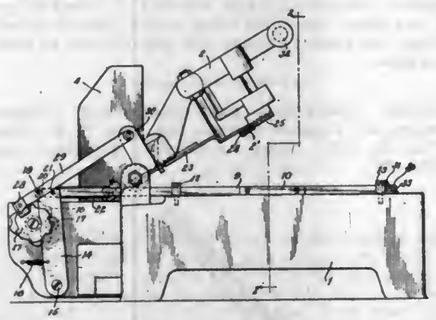
1. A motor of the class described, comprising a casing having an annular chamber therein and an inner chamber, a shaft passing through the casing, a member fastened to the shaft and having holes therein, pinions rotatably mounted in the holes, a stationary gear in the casing meshing with the pinions and around which said pinions travel, each pinion having a crank pin at each side thereof, the pins being arranged at opposite points on the pinion, a pair of saucer shaped plates enclosing the outer periphery of the pinion carrying member, each plate being slotted to receive the crank pins of the pinions and each plate having portions extending into the annular chamber, a set of pistons connected with each plate, one set being alternately arranged with respect to the other set, the chamber having inlet and exhaust ports in its walls which are controlled by the moving pistons and ignition means associated with the chamber.

1,665,582. METHOD OF AND MACHINE FOR ATTACHING COUNTERS TO TURN SHOES. MILTON L. DODGE, Newburyport, Mass. Filed Dec. 10, 1923. Serial No. 679,550. 12 Claims. (Cl. 1—19.)



1. The method which comprises inserting a molded counter within the upper of a turned shoe, seating the counter firmly against the heel portion of the upper, pressing the marginal heel seat portion of the counter against the upper and the marginal heel seat portion of the sole, and while the parts are so held pressed fixing the counter in position.

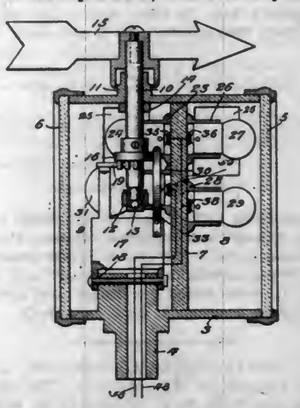
1,665,583. HAND ADDRESSING MACHINE. JOSEPH S. DUNCAN and HENRY E. HUBBARD, Chicago, Ill., assignors, by mesne assignments, to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 26, 1925, Serial No. 52,502. Renewed July 11, 1927. 17 Claims. (Cl. 101—57.)



1. A machine of the class described comprising a platen, a printing device with which said platen is adapted to co-operate, a cut-off plate adapted to cover a portion of said printing device, and means operated by movement of said platen to shift said cut-off plate to uncover different portions of said printing device.

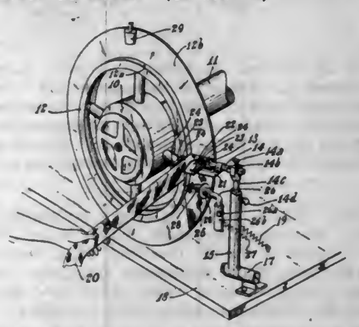
1,665,584. SIGNAL SYSTEM AND DIRECTION INDICATOR FOR AUTOMOBILES. CHARLES F. A. EDDY, New London, Conn. Filed July 20, 1923. Serial No. 652,810. 4 Claims. (Cl. 177—327.)

3. A direction indicator including a casing having a transverse partition therein separating the casing into front and rear compartments, a movable signal mounted on the casing above the top thereof, means for moving said signal, illuminating means within and for illuminating said compartments, each of said compartments having openings in the top thereof, and secondary illuminating



means within the front and rear compartments, connected together and in position to simultaneously shine through the openings.

1,665,585. METHOD AND APPARATUS FOR MAKING LAMINATED ANNULAR ARTICLES. MAX W. ESCH, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 29, 1924, Serial No. 695,990. Renewed Feb. 28, 1928. 14 Claims. (Cl. 154—1.)



1. The method of making a laminated, annular article which comprises winding a strip of sheet material into an annular, laminated structure of a form other than flat, of which the greatest diameter, during the winding, has its termini at one edge of the strip, flattening said structure to a disc-like, annular form with laminations lying substantially in parallel planes, and fixing said structure in such flattened form.

10. Apparatus for making laminated, annular articles, said apparatus comprising a form having a non-cylindrical, annular face, approximately straight in cross-section, and a roller adapted to run longitudinally on said face, following the latter, to press the work thereagainst, means for yieldingly urging said roller towards said face, and means for so guiding a strip of sheet material onto said roller as to cause the strip to pass partly around said roller to the nip of said roller and said form.

1,665,586. AIR-BRAKE VALVE. SAMUEL J. EVANS, Princeton, W. Va. Filed Dec. 20, 1926. Serial No. 155,962. 11 Claims. (Cl. 303—58.)

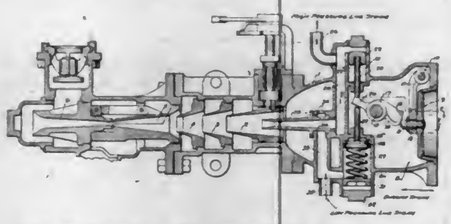
2. A valve comprising a tubular body having inlets at its opposite ends and having a delivery outlet intermediate its ends, said valve having a pair of inwardly

facing valve seats respectively located between said outlet and said inlet, a pair of piston valves slidable in said tubular body between said valve seats and each adapted when in contact with its valve seat to cut off communication between the adjacent inlet and said outlet and



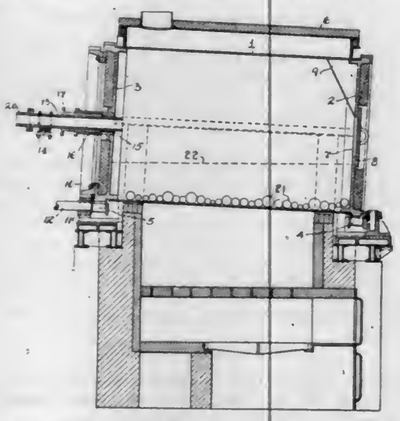
also adapted when at the limit of its stroke away from its seat to permit communication between the adjacent inlet and said outlet, said piston valves being operable in unison by pressure fluid from either of said inlets, and friction latch means tending to retain said piston valves in any adjusted positions in said valve body.

1,665,587. EXHAUST-STEAM INJECTOR. JOSEPH F. GRIFFIN, Teaneck, N. J., assignor to The Superheater Company, New York, N. Y. Filed May 15, 1926. Serial No. 109,304. 12 Claims. (Cl. 103—265.)



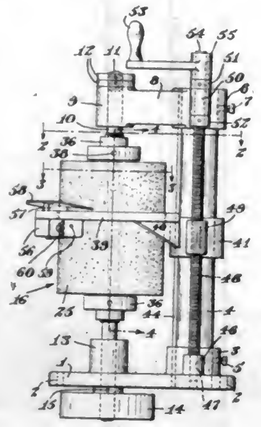
1. In an injector, the combination with an exhaust valve opened by exhaust steam pressure, of a movable element engaging said valve to lock it in closed position, resilient means urging said element to locking position, and means for moving said element out of locking position against the action of said first named means.

1,665,588. METHOD OF MAKING HYDROFLUORIC ACID. WILLIAM J. HARSHAW, Shaker Heights Village, and CHARLES S. PARKE, Cleveland, Ohio, assignors to The Harshaw, Fuller & Goodwin Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 19, 1925. Serial No. 10,261. 4 Claims. (Cl. 23—153.)



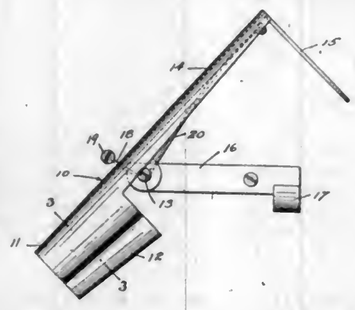
1. A method of making hydrofluoric acid, which includes heating a mixture of a fluoride and an acid capable of reacting therewith to free such hydrofluoric acid, such fluoride being in broken, fragmentary, in contradistinction to ground, form; and removing sulphate coating from the surface of the fluoride fragments to allow further action.

1,665,589. SANDING, SCOURING, AND BUFFING MACHINE. LESLIE L. HARTWELL, Winchester, Mass. Filed June 7, 1927. Serial No. 197,217. 7 Claims. (Cl. 51—98.)



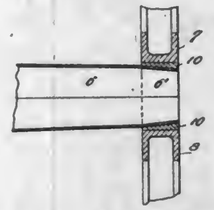
1. A machine of the kind described, comprising a base, a standard mounted on said base and secured thereto, an arm secured to the upper end of said standard, a rotatable shaft mounted in said base and said arm, an abrasive member secured to said shaft for rotation therewith, means to rotate said shaft, a plate located adjacent to said abrasive member, a clamp on said plate slideably fitted around said standard, a threaded boss on said clamp, and a feed screw located adjacent to said column and passing through said boss to raise or lower said plate.

1,665,590. UMBRELLA AND CANE RACK. ISIDORE HIRTZ and VINCENZO OLIVERI, New York, N. Y. Filed July 16, 1926. Serial No. 122,773. 2 Claims. (Cl. 211—63.)



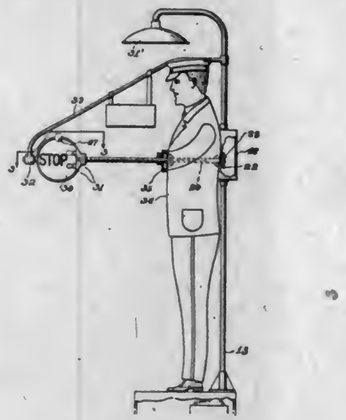
1. A rack comprising a base plate, a barrel pivoted thereto, an extension on the barrel, a guide loop on the extension, and a hook on the plate for engagement with an article when placed in the rack to hold the same against accidental removal.

1,665,591. SAND-DREDGING PIPE AND PROCESS OF MANUFACTURE THEREOF. JOSEPH J. KANE, Galveston, Tex., assignor to Kane Boiler Works, Galveston, Tex. Filed Feb. 10, 1927. Serial No. 167,306. 4 Claims. (Cl. 78—14.)



3. A process of manufacturing pipe sections consisting in placing the smaller end of a tapered pipe section between a pair of female die members having semi-frusto-conical recesses, heating a pair of opposed portions of the smaller end adjacent the centers of the dies and moving the dies towards each other to increase the taper of said smaller end and thicken the heated portions thereof.

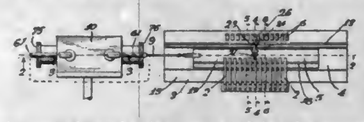
1,665,592. CROSSING SIGNAL. JAMES W. KENNEDY, Canton, Ohio. Filed Aug. 13, 1923. Serial No. 657,049. 1 Claim. (Cl. 177—329.)



In a signaling device for street intersections, a signal, a lamp, means for moving said signal from non-signaling position to signaling position, including a magnet, vehicle operated means for energizing said magnet on the approach of a vehicle, to the intersection, latch means for retaining said signal in signaling position and for energizing said lamp, a magnet for maintaining said latch in operative position, a circuit for said magnet, means including a dash pot actuated by said signal operating means to close the circuit to said last mentioned magnet for delaying the release of said latch for a predetermined time after the operation of said signal.

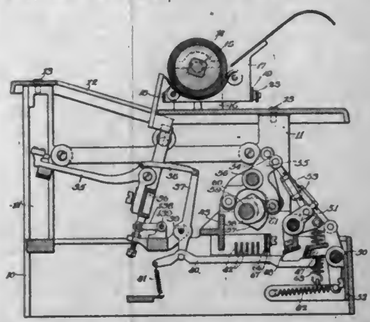
1,665,593. CHROMATIC SCALE AND SOLO-NOTE-SELECTING DEVICE FOR ORGANS AND PIANOS. JOSEPH W. KLEIN, Los Angeles, Calif. Filed Mar. 22, 1926. Serial No. 96,554. 20 Claims. (Cl. 84—337.)

4. A scale running instrument comprising in combination a keyboard, a slide bar, a plurality of connectors electrically connected to the keys, said connectors being electrically connected to the slide, a pneumatic device to operate the slide, electric control means operatively connected to the slide to control the pneumatic device and



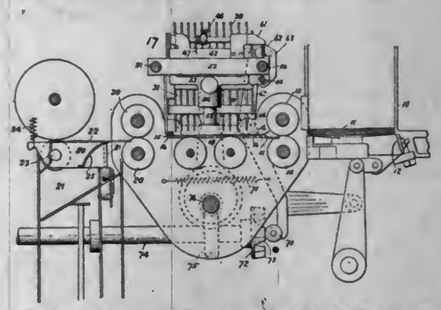
electric control mechanism operated by the movement of the slide to sound a series of notes consecutively by the movement of the slide.

1,665,594. TELEGRAPH PRINTER. HOWARD L. KRUM, Chicago, Ill., assignor, by mesne assignments, to Morkum-Kleinschmidt Corporation, Chicago, Ill., a Corporation of Delaware. Filed June 13, 1924. Serial No. 719,766. 15 Claims. (Cl. 178—27.)



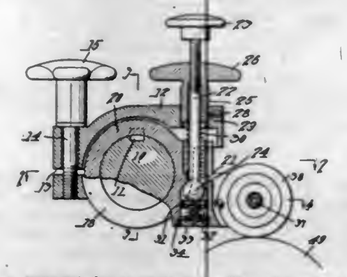
1. In combination in a telegraph printer, a set of type bars, actuating bar connected thereto, a common operating member, a set of permutation bars spring held in normal position for selecting said actuating bars, a set of selectors responsive to receive code combinations and provided with yielding spring means for effecting the selecting movements of said permutation bars, means for controlling said selector, an intermittent operating cam shaft and means operated thereby for successively restoring said selectors and actuating said common operating member, substantially as described.

1,665,595. SORTING MACHINE. WILLIAM W. LASKER, Brooklyn, N. Y., and JOHN MUELLER, North Bergen, N. J., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed June 30, 1925. Serial No. 40,604. 14 Claims. (Cl. 209—110.)



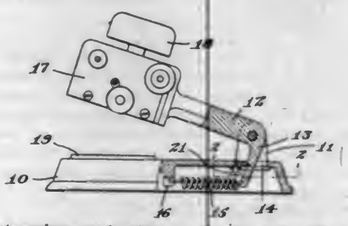
1. In a mechanism of the character stated, the combination of an analyzing unit, means for operating said unit for analyzing purposes, means to feed perforated cards successively to said unit, and automatic locking means to render said unit ineffective for analyzing purposes when certain of said cards are in analyzing position.

1,665,596. FEED-ROLLER SUPPORT. CHARLES S. LENSTON, Worcester, Mass., assignor to Hobbs Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 8, 1927. Serial No. 197,452. 10 Claims. (Cl. 271—2.3.)



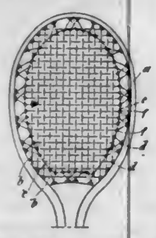
1. In a support for a pressure roller to cooperate with a feed roll to feed sheet material, the combination with a supporting bar and a hollow housing fixed positively to it in stationary position, a holder swiveled on said bar within the housing, means on the holder for supporting a pressure feed roller in a condition free to rotate, and means for adjusting the height of the feed roller and limiting its downward motion toward said feed roll, constituting a stop beyond which the feed roller cannot descend on the rebound down[illegible]ly.

1,665,597. STAMPING DEVICE. ALBERT J. MARKS, Boston, Mass., assignor to Ajax Time Stamp Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1927. Serial No. 182,278. 4 Claims. (Cl. 101—297.)



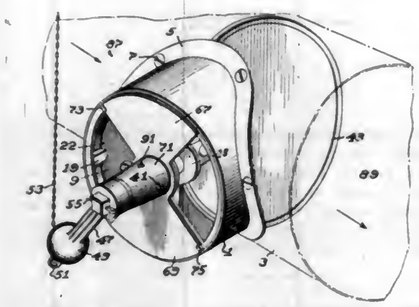
1. A stamping mechanism of the kind described, comprising a base having a recess therein, a stamping member pivotally connected with said base, a portion of said stamping member depending through said recess, a spring in said base to hold said stamping member in inoperative position, and an adjacent supplemental spring engaging said depending portion of said pivotal member and so arranged as to impart increasing resistance to said pivoted member as the main spring returns said pivoted member to normal position.

1,665,598. RESTRETCHABLE TENNIS RACKET. HEINZ MAY, Hanover, Germany. Filed Apr. 26, 1926, Serial No. 104,701, and in Germany Aug. 31, 1925. 9 Claims. (Cl. 273—73.)



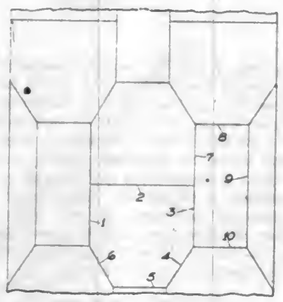
1. A re-stretchable tennis racket, comprising in combination with the frame and with the net, movable bearings in the shape of rings each ring enclosing one pair of strings at the points where the strings pass through the frame said strings serving to transmit the tension from one string to the adjacent string, to other strings of the racket-net and to certain portions of the frame.

1,665,599. FURNACE-REGULATOR UNIT. ALFRED H. MCCULLOCH, Boston, Mass. Filed Mar. 16, 1927. Serial No. 175,723. 9 Claims. (Cl. 126—293.)



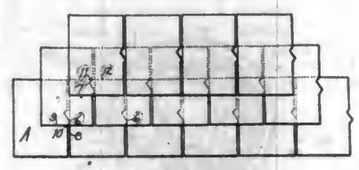
1. A damper and air-inlet regulator unit for application to the pipe for conducting gases of combustion from a furnace, comprising a collar curved to conform to the contour of the pipe and adapted for attachment thereto, a head located in from the outer edge of the collar and formed to provide an air-inlet opening, a register plate on the outer edge of the collar, spaced from the head and having an aperture therein, said head and plate having bearings, a shaft projecting through said bearings, a damper on the shaft for regulating the draft through the pipe, a wing plate on the shaft adapted to be moved by the shaft to cover and uncover the plate aperture, and a member on the shaft for turning the same to adjust the damper and wing plates, said air inlet opening being wholly at one side of the axis of said shaft.

1,665,600. METHOD OF CUTTING SHINGLES. CHARLES W. MORTIMER, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 1, 1924. Serial No. 747,305. 4 Claims. (Cl. 164—17.)



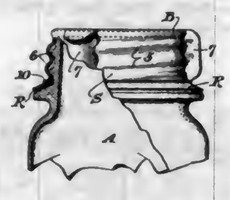
1. The process of cutting shingles from a sheet of roofing material which comprises cutting staggered pairs of parallel lines longitudinally of said sheet, cutting transverse lines at the ends of said first named lines and joining the ends of said first named lines by cutting along diagonal lines.

1,665,601. SELF-SPACING SHINGLE. CHARLES W. MORTIMER, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Mar. 2, 1925. Serial No. 12,478. 2 Claims. (Cl. 108—7.)



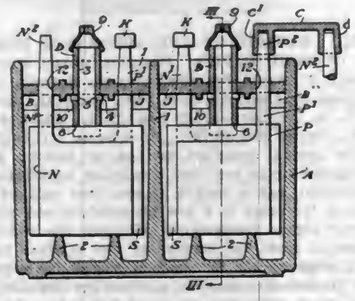
1. A shingle having a projection and a corresponding recess along one edge and substantially in the center thereof, one edge of said recess forming a continuation of one edge of said projection, and the edges of said shingle being straight and unbroken except for said recess and projection.

1,665,602. JAR TOP. NITA G. NETHERLAND, Ballsville, Va. Filed Nov. 13, 1926. Serial No. 148,311. 1 Claim. (Cl. 215—43.)



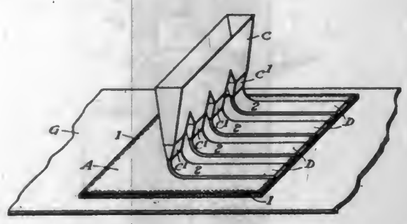
A screw jar cover having a skirt portion comprising a plurality of screw threaded gripping arcs and a lip, and resilient means intermediate said arcs and extending entirely across the skirt and lip, said resilient means being formed by crimping portions of the skirt and lip transversely of the screw threads.

1,665,603. STORAGE BATTERY. PAUL E. NORRIS, Wilkinsburg, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 26, 1924. Serial No. 715,945. 6 Claims. (Cl. 136—177.)



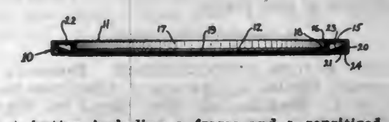
1. A storage battery comprising a jar, a separator in said jar, a cell cover in said jar, and a vent tube passing through said cell cover and engaging said separator.

1,665,604. STORAGE-BATTERY SEPARATOR. PAUL E. NORRIS and HERBERT H. ALDRICH, Wilkinsburg, Pa., assignors to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 1, 1924. Serial No. 740,942. 1 Claim. (Cl. 136—148.)



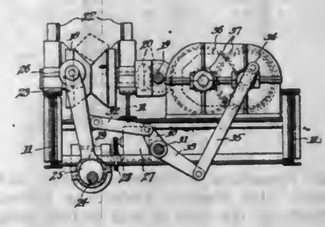
The method of preparing a storage battery separator which consists in impregnating the edges of a sheet of roofing felt with an electrolyte resistant material in plastic condition, immersing individual strips in plastic acid resistant material, attaching said strips to the sheet by the adhesion of said material, and causing said material to solidify.

1,665,605. PHOTOGRAPHIC BUTTON. ROBERT E. OLSEN, Forest Hills, N. Y. Filed Mar. 30, 1927. Serial No. 179,465. 5 Claims. (Cl. 95—8.)



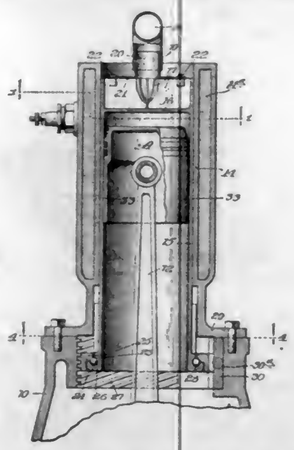
1. A button including a frame and a sensitized plate, said plate including a planar body portion having an upwardly directed peripheral edge, said frame including a top portion and a bottom portion, said top portion engaging said sensitized plate and means to hold said frame on said plate.

1,665,606. MANIPULATOR TABLE FOR ROLLING MILLS. NORMAN C. RENDLEMAN, Dormont, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1927. Serial No. 176,503. 12 Claims. (Cl. 80—48.)



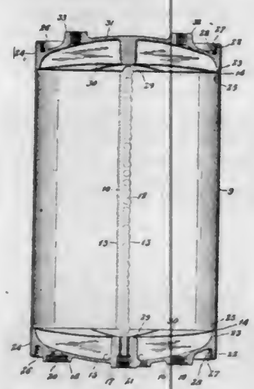
1. A manipulator for partly turning square and noncircular work pieces around their longitudinal axes without lateral displacement comprising a series of grooved rolls, and work engaging devices movable transversely thereof between the rolls to engage their lower sides and lift them in the roller grooves, said work engaging devices being shaped to permit said work pieces when raised from the bottom of the roller grooves to turn over and fall back into the same grooves under the action of gravity.

1,665,607. INTERNAL-COMBUSTION ENGINE. CHARLES E. SARGENT, Lakeland, Fla. Filed July 12, 1926. Serial No. 121,837. 10 Claims. (Cl. 123—80.)



1. In an internal combustion engine, a cylinder, a sleeve rotatable therein, a head in said rotatable sleeve, a piston slidable in said sleeve, means for rotating said sleeve in timed rotation to the engine shaft, inlet and outlet ports in said cylinder and in said sleeve, and means for moving said sleeve longitudinally to control the operation of said engine.

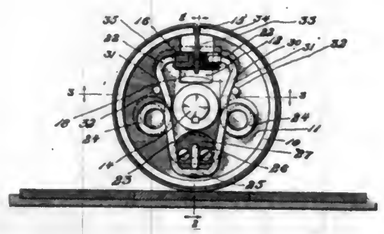
1,665,608. BOILER CONSTRUCTION. FREDERICK D. SCHNEIDER, Hillside, and HERBERT J. LONG, New Brunswick, N. J. Filed Jan. 12, 1924. Serial No. 685,909. 12 Claims. (Cl. 220—66.)



1. A boiler comprising a cylindrical section, and heads each provided with annular projections extending in opposite directions, the ends of said section being interlocked with said heads respectively.

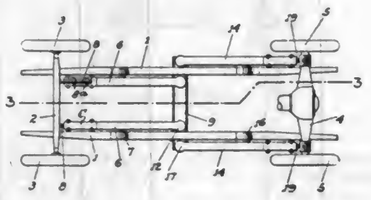
1,665,609. ABRASIVE ROLL. DAVID T. SCOTT, Providence, R. I., assignor, by mesne assignments, to Henry L. Scott Company, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 9, 1925. Serial No. 67,855. 2 Claims. (Cl. 51—194.)

1. An abrasive roll comprising a slotted cylinder about which an abrasive strip may be positioned with an end extending inward through the slot, a pair of jaws for engaging said end, a yoke-shaped member of resilient material having side arms so formed that they are of themselves resilient both laterally and longitudinally



and which are connected to said jaws, a cam for applying a drawing-in tension on said jaws through said resilient yoke arms, and means cooperating with the cam to cause the jaws to engage and hold the end of the sandpaper as the cam draws the jaws inward.

1,665,610. MOTOR-VEHICLE CHASSIS. JAMES SHAW, San Francisco, Calif. Filed Mar. 1, 1926. Serial No. 91,365. 2 Claims. (Cl. 267—20.)



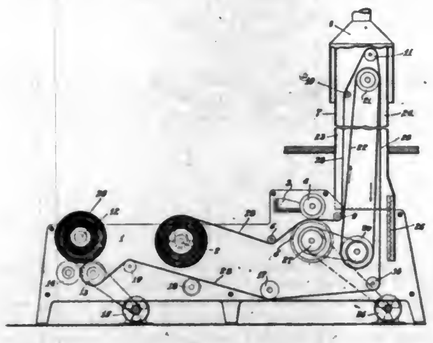
1. A vehicle chassis comprising main longitudinal frame members, a front axle arranged for vertical movement relative to the frames, independent equalizing arms extending rearwardly from the front axle, said arms being pivoted onto the frames, spring means between said arms and frame for resisting upward movement of the axle relative to the frames, the front ends of the arms and the axle being in a common horizontal plane, and longitudinally extending pins secured to the axle and turnably mounted in the adjacent ends of the arms.

1,665,611. METHOD OF AND APPARATUS FOR MAKING GUMMED PAPER. WILLIAM HENRY SMITH and ALBERT STEWART WEBSTER, Ottawa, Ontario, Canada, assignors to American Bank Note Company, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1926. Serial No. 83,781. 19 Claims. (Cl. 91—55.)

1. The herein described method of making gummed paper consisting in applying a solution containing adhesive material and a vehicle to one face only of paper, subjecting the same to a low temperature and then to a relatively higher temperature, whereby the vehicle will be removed from the surface of the solution inwardly thereof progressively to cause a progressive crystallization of the adhesive material and the readjustment of the adhesive material during its crystallization and avoiding those stresses resulting in curling of the paper.

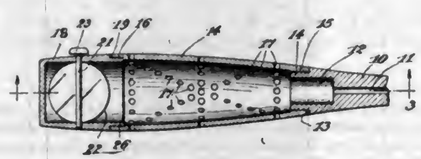
19. An apparatus for making gummed paper embodying therein means supporting a roll of paper to be coated, a fountain for a solution of adhesive material, a fountain

roll, a feeding roll co-operating therewith, a stack open at the bottom and at the top thereof, rollers adjacent the top and the bottom of said stack, an endless belt passing about said rollers whereby said stack is divided into two substantially vertical passages, means for guiding the coated paper strip or web in an upward run through one of said passages, a breaker roller adjacent the upper of said rollers about which said belt passes, about which the paper strip or web passes into a downward run through the other of said passages, means whereby the temperature of the air passing through the



last named of said passages is heated, a rewind reel, guiding means intermediate said last named means and said rewind reel, squeeze rollers engaging the web adjacent said rewind reel and acting upon the web wound upon said reel, whereby said paper is drawn through said stack and subjected to continuous longitudinal stresses, and means whereby said feeding roll, and said fountain roll, and said squeeze rollers are respectively rotated at the same peripheral speed and said belt is driven at substantially the same speed as that of the paper strip or web.

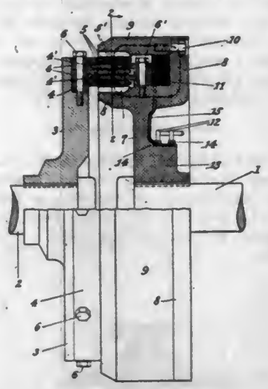
1,665,612. CIGAR HOLDER AND ASH RECEIVER. JOSEPH STERN, New York, N. Y. Filed Apr. 27, 1927. Serial No. 187,059. 3 Claims. (Cl. 131—51.)



3. In a cigar holder, in combination, a mouth-piece capable of receiving a cigar, a foraminous body attachable to the mouth-piece and encompassing a cigar within the mouth-piece, a non-foraminous ash-receiver attachable to the body, a revoluble axle passing through the ash-receiver a closure member fixedly attached to the axle and means exterior of the device for operating the closure member.

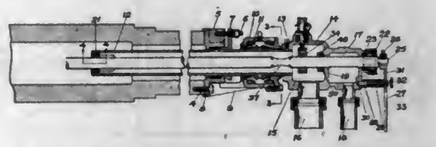
1,665,613. COUPLING DEVICE FOR ROTATABLE ELEMENTS. HARRY L. TANNER, Brooklyn, N. Y. Filed June 11, 1920, Serial No. 388,173. Renewed May 29, 1926. 12 Claims. (Cl. 172—284.)

4. In combination, a rotatable driving element, an independently rotatable element adapted to be driven by said driving element and substantially coaxial therewith, and means for establishing a one-to-one magnetic drive connection between said driving and driven elements, said means including a plurality of isolated mag-



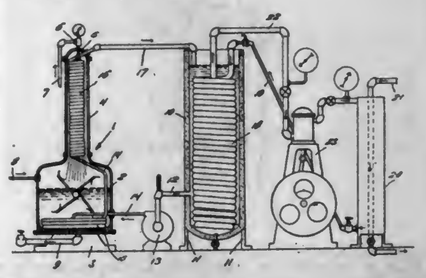
netic members secured to one of said elements, a plurality of isolated magnetic elements secured to the other of said elements, and means including pole pieces for passing magnetic flux through said members.

1,665,614. PAPER-MAKING MACHINE. CHARLES W. VALENTINE, Watertown, N. Y., assignor to The Bagley and Sewall Company, Watertown, N. Y., a Corporation of New York. Filed Jan. 12, 1927. Serial No. 160,722. 19 Claims. (Cl. 34—4.)



1. In a dryer mechanism for paper making machines, the combination of a dryer roll, means for admitting steam thereto, a siphon pipe extending into the roll closely adjacent the inner surface thereof, and means exterior to the roll for flexing the siphon pipe to adjust its suction end with respect to the roll surface.

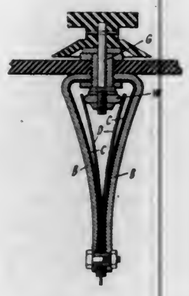
1,665,615. APPARATUS AND METHOD FOR COOLING CARBONATED WATER. LEE J. TAYLOR, New Bern, N. C. Filed Oct. 15, 1924. Serial No. 743,763. 2 Claims. (Cl. 62—101.)



1. An apparatus for cooling carbonated water including a carbonator having a water inlet at its top and a water outlet at its bottom, a relatively large cold brine cir-

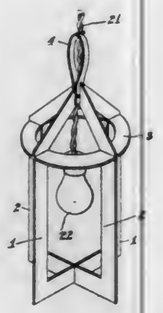
culating coil located wholly within the top of the carbonator, a relatively small cold brine circulating coil located wholly within the bottom of the carbonator, means in the carbonator connecting the coils, the large coil having its terminal passing through the upper portion of the carbonator to the exterior and the terminal of the relatively small coil extending through the bottom portion of the carbonator to the exterior and a gas line entering the carbonator between the coils.

1,665,616. ELECTRICAL CONDENSER. EDWARD HERBERT TRUMP, Merton Park, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Oct. 17, 1924, Serial No. 744,099, and in Great Britain Oct. 26, 1923. 5 Claims. (Cl. 175—41.5.)



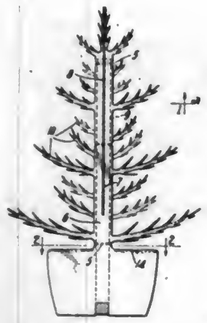
1. A variable electrical condenser comprising a pair of rigid conducting plates spaced apart, a pair of oppositely bent plates intermediate the rigid plates, a sheet of dielectric adjacent each rigid plate and means for changing the curvature of the bent plates.

1,665,617. LAMP SHADE. EDWIN BIRD WILSON, Forest Hills, N. Y., assignor to Design Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1925. Serial No. 25,992. 9 Claims. (Cl. 240—108.)



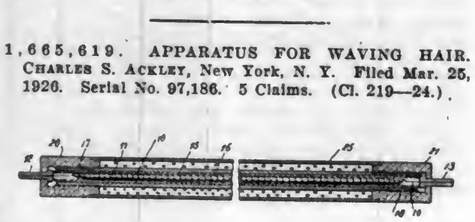
1. In a lamp fixture, two frame pieces, notches in one frame piece at which the two frames are interlocked against relative horizontal and vertical displacements, and a ring for locking said frame against relative rotary displacement.

1,665,618. ORNAMENTAL OBJECT. EDWIN BIRD WILSON, Forest Hills, N. Y. Filed Mar. 11, 1927. Serial No. 174,516. 8 Claims. (Cl. 41—11.)



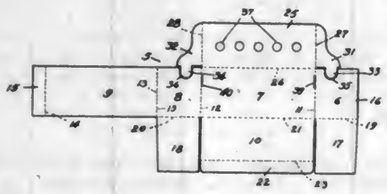
1. A collapsible ornamental device comprising a plurality of sheets of relatively thin material cut to conform to the profile of object to be represented, a slit in each of the sheets by means of which all of said sheets are mutually interlocked and a member having a plurality of slits therein, said member engaging said sheets by means of the slits in the member, thereby securing said sheets against relative angular displacement.

1,665,619. APPARATUS FOR WAVING HAIR. CHARLES S. ACKLEY, New York, N. Y. Filed Mar. 25, 1926. Serial No. 97,186. 5 Claims. (Cl. 219—24.)



1. A hair waving device comprising a heating element, insulating means surrounding said element, a tube surrounding said insulating means, a covering of absorbent material on said tube, and a perforated sheath surrounding and spaced from said tube and covering.

1,665,620. SHIPPING AND DISPLAY CARTON. HAROLD AMATEL, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Dec. 30, 1922. Serial No. 609,824. 4 Claims. (Cl. 206—44.)

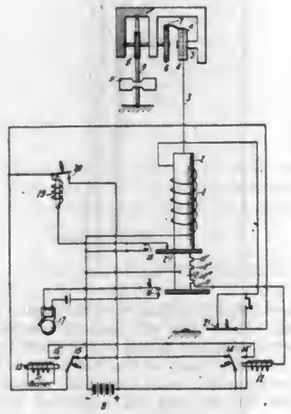


1. A shipping and display carton for incandescent electric lamps, comprising a container having a top, bottom and three side walls, a display rack associated with said top wall, means associated with said rack for holding lamps and means for holding said rack at right angles to said top, said rack being movable to serve as a cover for said carton during shipment, said holding means being adjustable for disposal within the carton when the rack is positioned to serve as a cover.

1,665,621. BALANCED MOTOR FUEL. EDWARD F. CHANDLER, Brooklyn, N. Y. Filed Dec. 23, 1924. Serial No. 757,732. 11 Claims. (Cl. 44—9.)

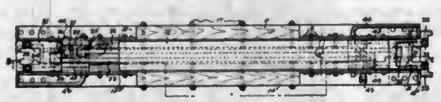
1. A liquid fuel adapted for use in an internal combustion engine, comprising a mixture of a liquid hydrocarbon, an oxide of nitrogen, and a solvent for said oxide.

1,665,622. CALLING DEVICE. LOUIS LUCIEN EUGÈNE CHAUVEAU, Paris, France. Filed Feb. 23, 1922, Serial No. 538,497, and in France Mar. 22, 1921. 5 Claims. (Cl. 177—340.)



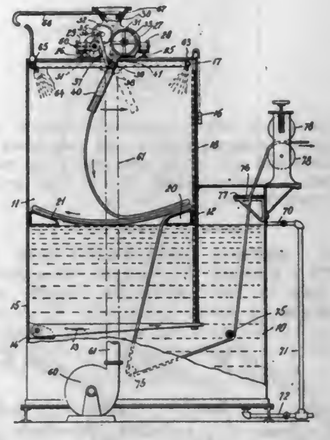
1. In selective call receiving systems, the combination of a plunger mounted to descend by gravity a certain distance during a period corresponding to the call, means for governing speed of descent of said plunger, holding and resetting means for normally preventing travel of said plunger and for resetting the same, a controller cooperating with said plunger and having portions corresponding to a succession of signals of given duration and spacing, means responsive to signals, means whereby said controller and said signal responsive means cooperate to render said holding and resetting means inoperative when the controller and signal responsive means supplement each other.

1,665,623. HIGH-STAKE CAR BUNK. FREDERICK W. CHRISWELL, Seattle, Wash. Filed Feb. 26, 1927. Serial No. 171,135. 16 Claims. (Cl. 105—160.)



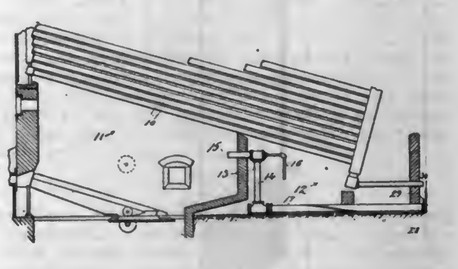
1. In a high stake bunk of the class described, a bunk, two stake supports slidable longitudinally within the respective ends of said bunk frame, an operating bar connected with each of the respective stake supports and extending to the opposite end of the bunk, and means at said opposite end of said bunk for locking each of said operating bars.

1,665,624. PROCESSING APPARATUS. WILLIAM L. CONRAD, Boston, Mass. Filed Apr. 5, 1926. Serial No. 99,765. 11 Claims. (Cl. 8—19.)



10. Apparatus of the character described comprising a receptacle, feed rolls located above the receptacle, means for moving said rolls axially longitudinally of said receptacle, means for receiving the fabric from said rolls and distributing the fabric back and forth across the receptacle as the rolls move longitudinally of the receptacle, and means for impregnating the fabric with treating liquor before it reaches said feed rolls.

1,665,625. SOOT AND SIFTING EJECTOR FOR BOILERS. CHARLES L. DAVIDSON, New York, N. Y. Filed Dec. 30, 1922. Serial No. 609,799. 3 Claims. (Cl. 110—165.)



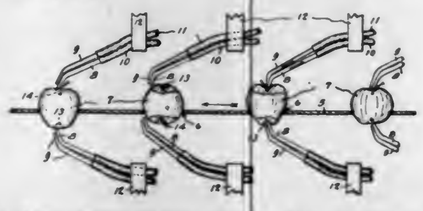
1. A soot collecting device for boiler furnaces comprising a hollow member, a delivery connection therefrom, means to create gas currents in said connection, said hollow member having intake openings along the length thereof, and means to progressively open and successively close said intake openings.

1,665,626. THERMIONIC VALVE. HORACE ST. JOHN DE AULI DONISTHORPE, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Oct. 7, 1922, Serial No. 593,140, and in Great Britain Oct. 24, 1921. 4 Claims. (Cl. 250—27.5.)



1. A thermionic valve comprising a cathode, an anode, and a double terminal helical grid interposed between said cathode and said anode, said grid being constructed to produce a magnetic field of the same polarity at opposite ends thereof.

1,665,627. METHOD AND MEANS FOR DRYING FRUITS. HEINRICH HEIDENHAIN, Wenatchee, Wash. Filed July 12, 1927. Serial No. 205,089. 4 Claims. (Cl. 34—26.)



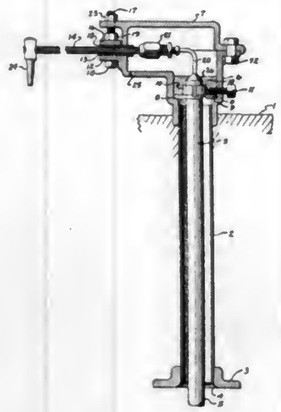
1. Fruit drying devices of the class described embodying a yieldingly supported suction nozzle capable of entering cavities in the surfaces of fruits and means for progressively moving the fruits into engagement with the vacuum nozzle.

1,665,628. TOWEL DISPENSER. JOHN O. HUNT, Brooklyn, N. Y., assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Filed Mar. 17, 1926. Serial No. 95,449. 2 Claims. (Cl. 312—61.)



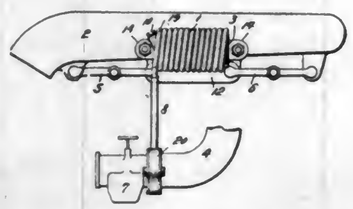
1. In a towel dispenser, a receptacle provided at one end with an opening for the manual withdrawal of its contents, a follower adapted to move and hold the said contents in position in the said opening, the said follower comprising a metal plate having widened end portions, studs set in the plate, a pair of curved plates pivotally mounted on the plate and resting on the plate at points outwardly beyond said studs, frictional elements mounted on the outer elements of said curved plates, said frictional elements being arranged to engage the side walls of the receptacle.

1,665,629. BOOTLEG. FREDERICK C. LAVARACK, Montclair, and WILLIAM H. B. LAVARACK, Norwood Borough, N. J. Filed June 3, 1925. Serial No. 34,721. 2 Claims. (Cl. 247—1.)



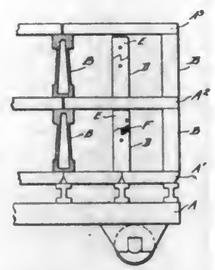
2. In a bootleg; in combination; a circular conduit; a two part box at the one end thereof, one part of said box being screw fastened to the conduit and formed with a shoulder, the other part of the box being bolted to the first mentioned part; a cable extending through the conduit and into the box and the conductor therein bared within the box; a two part annulus surrounding the cable within the box and resting on the said shoulder; a set screw borne by the box and bearing against the annulus whereby the cable may be firmly held; a bond wire extending in the box; and means firmly insulatingly holding the bond wire to the box, and means for connecting the bond wire and the bared cables.

1,665,630. FUEL ECONOMIZER. FREDERICK LAMOTKE, Teaneck, N. J., assignor of one-half to William H. Wettlaufer, Englewood, N. J. Filed Jan. 21, 1927. Serial No. 162,587. 5 Claims. (Cl. 123—119.)



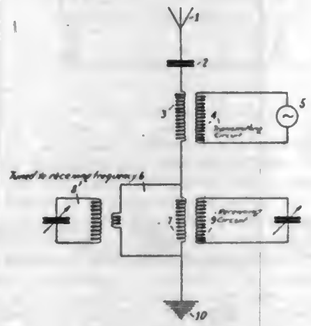
1. In a device of the class described, the combination with an internal combustion engine and intake means for supplying fuel mixture thereto, of a pipe coil in cylindrical form, means for supporting it in position to be heated by the engine, and a tank supported inside of the pipe coil, said tank containing a liquid to be vaporized by heat and a chamber for commingling the vapor and air for introduction into the pipe coil, and means for delivering said heated mixture to the fuel intake means.

1,665,631. KILN-CAR-DECK SUPPORT. CHARLES W. LASCHENSKI, Trenton, N. J., assignor to New Castle Refractories Company, New Castle, Pa., a Corporation of Delaware. Filed Jan. 7, 1927. Serial No. 159,655. 7 Claims. (Cl. 25—142.)



1. A self contained adjustable deck supporting post for a kiln car formed of relatively axially movable refractory parts to vary the effective length of said supporting post.

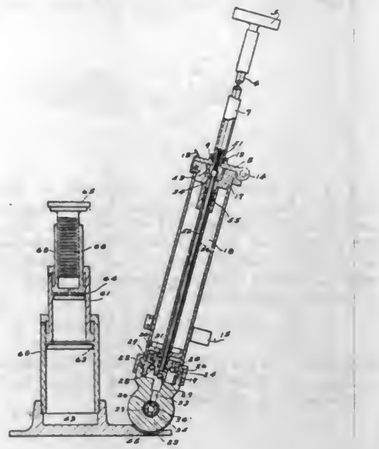
1,665,632. RADIO SIGNALING SYSTEM. MICHAEL LOCK, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Filed Nov. 3, 1925, Serial No. 66,504, and in Germany Nov. 5, 1924. 6 Claims. (Cl. 250—9.)



1. In a duplex radio signaling system, an aerial, a source of high frequency oscillations and a receiving circuit, means to connect the source of high frequency oscillations and the receiving circuit in series with the aerial, a coil in parallel to the aerial comprising a few turns, and a circuit tuned to the incoming wave coupled to said coil.

1,665,633. HYDRAULIC JACK. ALLAN J. MCDONELL, Vancouver, British Columbia, Canada. Filed May 3, 1927. Serial No. 188,421. 2 Claims. (Cl. 138—9.)

1. In a hydraulic jack of the class described, a lifting piston, a base casing, an operating handle hinged thereto, a fluid storage reservoir contained in said handle, means for transferring fluid from said reservoir to the lifting piston, a hinge in the operating handle, a pump in



lower portion of the operating handle, a pump handle in said hinged portion of the operating handle and flexible means connecting said pump handle and the pump piston.

1,665,634. PREPARATION OF METAL HALIDES. JOHN WESLEY MARDEN, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Sept. 3, 1921. Serial No. 498,397. 8 Claims. (Cl. 23—87.)

1. The process of producing anhydrous halides of refractory metals which consists in dissolving a hydrated salt of a refractory metal in water, converting the same into the chloride, adding to the solution a substance which will displace the water element from the positive complex of the salt, separating the water from the solution and igniting the residue in an anhydrous atmosphere to remove the said substance.

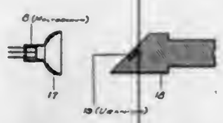
1,665,635. PURIFICATION OF METAL POWDERS. JOHN WESLEY MARDEN, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Aug. 21, 1922. Serial No. 583,376. 10 Claims. (Cl. 75—17.)

1. The method of purifying a readily oxidizable metallic powder such as thorium, uranium, etc., which comprises treating said powder with a non-aqueous liquid which does not react with the oxides of said powder and which is capable of preventing further oxidation of said powders, and combining with said liquid an acid which will interact with the impurities with which said powder is contaminated to form compounds which are readily soluble in said liquid.

1,665,636. ACTIVATION OF ELECTRON-EMISSION MATERIAL. JOHN WESLEY MARDEN, East Orange, and JOHN EDWARD CONLEY, Bloomfield, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Feb. 21, 1923. Serial No. 620,485. 2 Claims. (Cl. 250—27.5.)

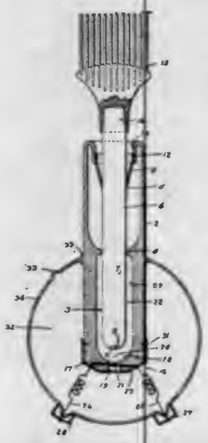
1. The method of manufacturing tungsten in filamentary form for electron-emission purposes comprising mixing with tungsten powder, a small proportion of thorium carbide, pressing said mixture to form a slug, heat-treating said slug and working to the desired filamentary form.

1,665,637. X-RAY TUBE. JOHN WESLEY MARDEN, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed June 18, 1927. Seral No. 199,698. 4 Claims. (Cl. 250—35.)



1. A thermionic device comprising an anode and a cathode adapted to be heated to electron-emitting temperature, said anode being formed of a material having the property of emitting electrons of corresponding value at the same temperature as that to which said cathode may be heated and also possessing better ray emitting properties than tungsten.

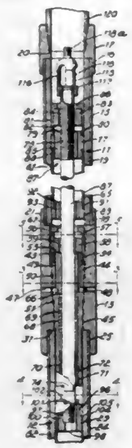
1,665,638. X-RAY TUBE. MONTFORD MORRISON, Chicago, Ill. Filed Sept. 22, 1925. Serial No. 57,835. 10 Claims. (Cl. 250—35.)



1. An X-ray tube comprising a bulbous vessel, an insulating bushing sealed therethrough, an anode disposed within said bushing and spaced closely from the inner wall thereof and a cathode supported by said bushing and spaced closely from said anode.

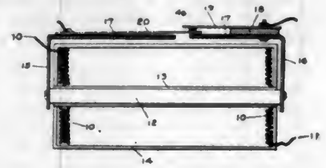
1,665,639. TANDEM SINGLE-ACTING PUMP. EDGAR W. PATTERSON, Long Beach, Calif. Filed Mar. 30, 1926. Serial No. 98,442. 13 Claims. (Cl. 103—189.)

1. A pump for use in an oil well comprising: an upper barrel having an upper bore; an upper plunger working in said bore; an upper working valve so arranged as to permit liquid to pass from the space below said plunger into the space above said plunger but preventing a reverse movement of said liquid; an upper standing valve arranged to admit liquid from the well into the space below said upper plunger but preventing a reverse movement of said liquid; a lower barrel having a lower bore; a wall separating said upper bore from said lower bore; a lower plunger working in said lower bore; a lower standing valve arranged to admit liquid from the well into the space below said lower plunger but preventing a reverse movement of said liquid; a lower working valve arranged to admit liquid from the space below said lower plunger to the space above said lower plunger but preventing a reverse movement of said liquid; and a hollow tube passing in fluid-tight relationship through said wall and connecting said upper and lower plungers, said



tube providing a free connection at all times between the space above said lower plunger and the space above said upper plunger.

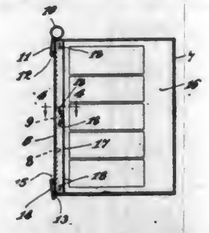
1,665,640. AUTOMATIC AUTOMOBILE LIGHT INDICATOR. CLYDE I. RANDLE and FRANK S. ANDERSON, Eureka, Calif.; said Anderson assignor to Gilbert Sutherland, Eureka, Calif. Filed Sept. 22, 1925. Serial No. 57,978. 1 Claim. (Cl. 200—87.)



A coil for use in an automatic automobile light indicator circuit comprising a core, an insulating casing surrounding the core and extending thereabout, straps carried on the ends of the core and extending across the opposite ends of the casing and along one side thereof exterior of the casing and terminating in spaced relation to each other to provide a magnet, a coil mounted in the casing about the core and adapted to be connected in the light circuit to energize the coil when the light is on, a rigid conductor bar mounted in insulated relation on one of said straps and spaced outwardly from the end thereof, a resilient magnetic conductor bar insulated on the other strap and extending across the ends of the straps and beneath the rigid bar and normally bearing thereagainst to close a branch circuit therethrough.

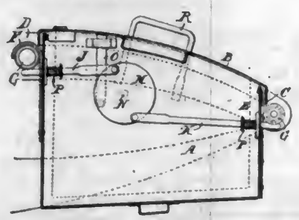
1,665,641. SUPPLEMENTAL LEAF-ATTACHING DEVICE FOR BOOKS. BERTHOLD J. REESE, New York, N. Y. Filed July 17, 1925, Serial No. 44,165. Renewed Mar. 2, 1928. 2 Claims. (Cl. 281—3.)

1. An attachable and detachable supplement for bound books, comprising in combination an attaching member adapted to be inserted between the book leaves adjacent the bound edges thereof and having means at its opposite ends for detachable clamping engagement against the outer side of the book binding, a sheet centrally folded and engaged around said attaching member to provide supplemental leaves, each supplemental leaf having a hinge crease therein in spaced parallel relation to said member, fastening means extending through the opposed edge portions of the leaves between said member



and the hinge creases, and said member being provided with a laterally projecting part coacting with said folded sheet to prevent swiveling or turning movement of the same upon said attaching member.

1,665,642. TOOL HOLDER AND OTHER RECEPTACLE FOR USE ON MOTOR VEHICLES. HAROLD BANTOCK SANKEY, Albrighton, England. Filed Apr. 25, 1927, Serial No. 186,496, and in Great Britain Feb. 15, 1927. 3 Claims. (Cl. 224—29.)



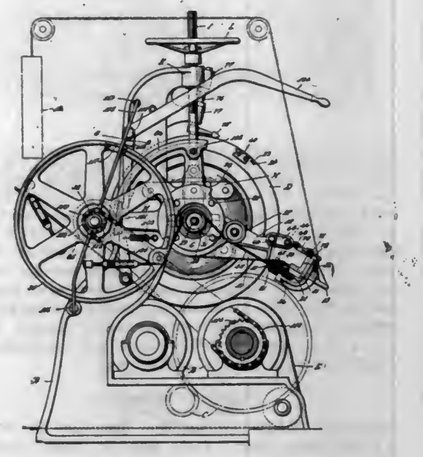
1. A receptacle adapted to be placed between the forward extensions of the side members of a motor vehicle frame, forwardly and rearwardly extending hooks on the receptacle, inwardly extending projections from the said forward extensions of the vehicle frame said hooks adapted to engage over said projections, and bolts sliding in relation to the receptacle and adapted to pass at their outer ends beneath the said projections from the chassis frame so as to secure the receptacle in position thereon.

1,665,643. NIPPLE CHUCK AND PIPE BENDER. ROBERT A. SCHMITT, San Diego, Calif. Filed Nov. 4, 1926. Serial No. 146,226. 1 Claim. (Cl. 279—7.)



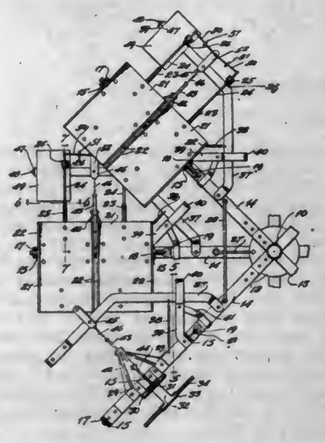
A device for the purpose specified comprising a pipe coupling and a mandrel comprising a body one end of which is reduced to form a shoulder and having said reduced end threaded for engagement with said pipe coupling and of less length than the coupling to thereby permit engagement of one end of the coupling with the shoulder, said reduced end having an axial prolongation adapted to enter and interiorly fit throughout its length a pipe engaged with the coupling, said axial prolongation being reduced in size and thereby providing at its junction with the reduced extension a shoulder against which the end of the pipe may abut, said prolongation being of a length such that its end projects beyond the end of the coupling engaged with said reduced threaded portion to thereby support and prevent collapse of the pipe outwardly of said coupling, the extremity of said prolongation being rounded to thereby provide a guiding heel for use in producing short bends in pipe.

1,665,644. CUTTING MECHANISM FOR PULP AND LIKE MACHINES. CHARLES W. SPONSEL, Wethersfield, Conn., assignor to Case & Marshall, Incorporated, Hartford, Conn., a Corporation. Filed June 14, 1927. Serial No. 198,768. 25 Claims. (Cl. 92—67.)



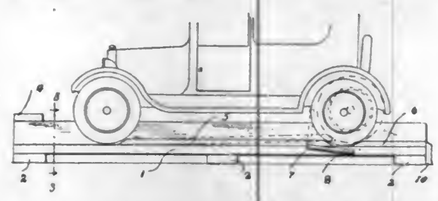
1. In combination, a roll on which a web is adapted to be wound, a knife mounted for movement longitudinally of the roll and held against movement radially with respect thereto during the cutting operation, and means for moving the knife longitudinally of the roll to effect a ripping cut in the web parallel to the axis of the roll.

1,665,645. WINDMILL. LUKE S. STRIPLING, Amarillo, Tex. Filed Aug. 31, 1927. Serial No. 216,644. 10 Claims. (Cl. 170—30.)



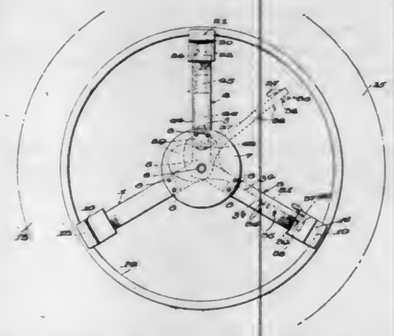
1. In a windmill, a vertical shaft, arms projecting radially therefrom, each arm having a main vane mounted thereon to swing on an axis carried by said arm, a secondary arm having one end pivoted to each first arm to swing in a horizontal plane, a vane carried by each secondary arm, a stop device pivoted to each first arm to limit the movement of the vane carried by said first arm, and operative connections between the secondary arms and the said stop devices.

1,665,646. VEHICLE SUPPORT. JAMES H. VALLEAU, Reno, Nev. Filed Aug. 30, 1926. Serial No. 132,566. 8 Claims. (Cl. 254—88.)



1. A vehicle support comprising supporting means adapted to engage the chassis of a vehicle and support the vehicle with its wheels elevated, front and rear track members spaced from each other and along which the wheels of a vehicle travel when the vehicle is moving onto and off of the support, the front track members being of a length to be disposed between the front and rear wheels of a vehicle resting upon said supporting means, and means to move the front track members into position to engage the tread portions of tire of the rear wheels of a supported vehicle and permit movement of the vehicle rearwardly off of the support.

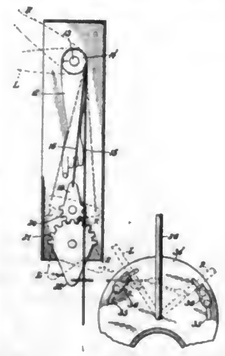
1,665,647. TIRE CARRIER. EDWARD A. WALTERS, Youngstown, Ohio. Filed May 12, 1926. Serial No. 108,651. 1 Claim. (Cl. 224—29.)



In combination, a plurality of radially disposed arms one of which being tubular and rectangular in cross section, a slidable member in the tubular arm, a threaded shank carried thereby, a substantially rectangular tire rim engaging head adjustable longitudinally with respect to its arm, a rectangular sleeve projecting from the head and slidably received in the tubular arm and having an interiorly threaded bore threadedly receiving the stem, whereby the head may be adjusted longitudinally of the tubular arm upon moving said member in an outward direction until the rectangular sleeve has been moved beyond the tubular arm and rotating the sleeve on the stem, fixed tire engaging heads carried by the other arms, and means for moving said member in an outward direction within the tubular arm to engage the adjustable head with a tire arm.

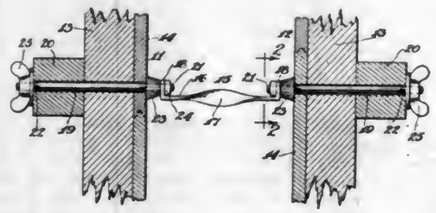
1,665,648. AUTOMOBILE SIGNAL. GEORGE S. WELLINGTON, Los Angeles, Calif., assignor of one-half to Louis P. Barenchi, Los Angeles, Calif. Filed June 23, 1927. Serial No. 200,887. 8 Claims. (Cl. 116—52.)

1. A signal for use with automobiles comprising a casing, having a slot in one side; a normally pendant signal arm pivoted within the casing; pivoted crank arms having intermeshing gear segments also mounted within the casing; a flexible cable connecting the signal arm to one of the crank arms; a second flexible cable connecting the signal arm to the brake pedal to move the signal arm



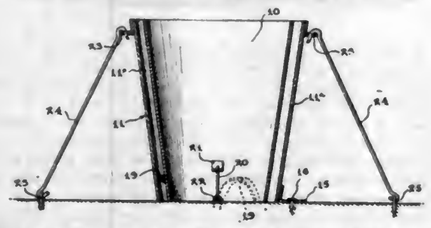
through the slot in the casing when the brake is depressed; and means for manually swinging the other crank arm to move the signal arm.

1,665,649. SPREADER TIE FOR CONCRETE-WALL FORMS. CHARLES T. WHITESCARVER and GEORGE BENDIXEN, New York, N. Y. Filed Feb. 19, 1927. Serial No. 169,576. 3 Claims. (Cl. 25—131.)



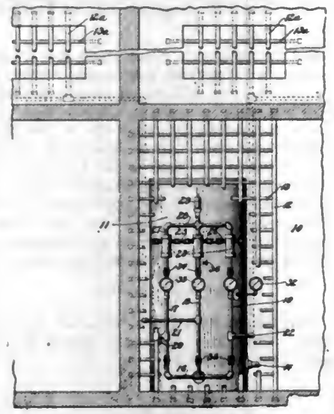
1. A concrete form spreader tie comprising a flat twisted brace member, removable rods extending from opposite ends of said brace member, corrugated cone members mounted on said rods and abutting the ends of said brace member, and clamping means on said rods substantially as and for the purpose specified.

1,665,650. FIRE-POT MOLD. JOHN PAUL NICHOLAS WOOD, East Winterhaven, Fla. Filed May 21, 1927. Serial No. 193,143. 3 Claims. (Cl. 25—130.)



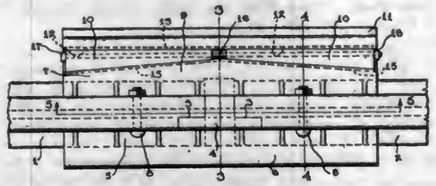
1. A mold for the purpose indicated comprising a core provided with anchoring hooks for securement to a flat surface, and a shell disposed in surrounding relation to the core and comprising separable sections, the shell at its lower end being provided with arch plates serving as spacers between the core and the shell and defining bottom openings in the molded product, the arch plates being of transversely tapering form.

1,665,651. PNEUMATIC CAGE FOR PRISONS, VAULTS, AND THE LIKE. DAVID FRANKLIN YOUNGBLOOD, San Antonio, Tex. Filed Nov. 14, 1925. Serial No. 69,101. 5 Claims. (Cl. 116—70.)



2. In a structure of the character described, the combination of a system of connected pipes, a source of compressed air having an outlet, with a connecting pipe leading therefrom to said system, a valve between the system of pipes and said outlet and adapted to be closed when the desired pressure has been obtained in the system, a cylinder connected with the system and having diametrically opposed ports, a piston normally acting under the influence of air pressure in the system to close said ports but adapted to drop by gravity and uncover said ports when the air pressure is released by a break in the system, a pressure operated alarm having a connection to the upper end of the cylinder, and a by-pass connecting the source of compressed air with said ports independently of said valve, so as to sound the alarm whenever the ports are uncovered by the piston.

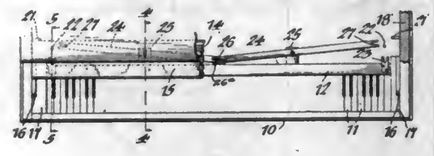
1,665,652. RAIL JOINT. CHARLES A. ALLEN, Tucson, Ariz. Filed Jan. 26, 1927. Serial No. 163,720. 3 Claims. (Cl. 238—307.)



1. In combination with connected rails, a rail chair having an integral side plate lying against the web and flange portions of the rails, a complemental removable plate seated in the chair and lying against the opposite sides of the rails and means for effecting clamping action of the removable plate against the rails and comprising elements mounted at the remote ends of the chair and engaging the removable plate and operated by a single actuating means.

1,665,653. PIANO FALL BOARD. STEPHEN BATTNER, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y., a Corporation of New York. Filed Oct. 26, 1925. Serial No. 64,771. 2 Claims. (Cl. 84—179.)

1. In a piano, the combination of a keyboard, guides at opposite ends of the keyboard and a longitudinal strip fixed above it, of a fall-board slidable on said guides, a pair of horizontally-swinging equalizing levers extending lengthwise of the fallboard and fulcrumed on said strip,



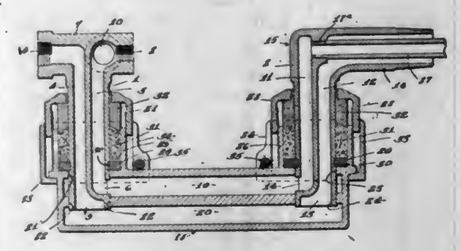
said levers being pivoted together at their inner ends and having their outer ends pivotally connected to opposite ends of the fall-board.

1,665,654. PAD FOR PRESSING MACHINES. PHILIP N. BRAUN and SIMEON T. HART, Syracuse, N. Y., assignors, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 5, 1924. Serial No. 730,311. 1 Claim. (Cl. 68—9.)



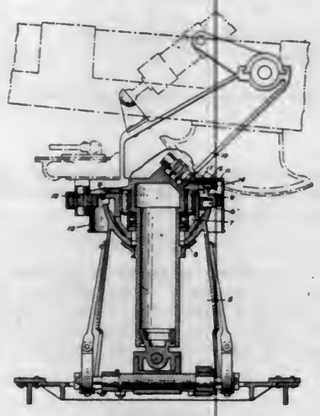
A pad for pressing machines, comprising a base plate, and a flexible metal top plate spaced apart from the base plate, and secured at its margin to the base plate, the plates confining a sealed chamber, the top plate normally bulging upwardly and the margins bulging outwardly to expand laterally as the pad is compressed.

1,665,655. FLEXIBLE JOINT. ALBERT B. CLISSON, Geddes, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., a Corporation of New York. Filed Sept. 20, 1923. Serial No. 663,918. 2 Claims. (Cl. 285—9.)



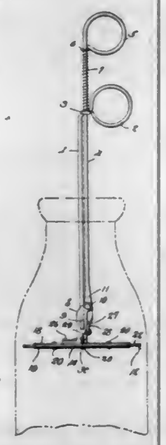
1. A flexible coupling of the class described, comprising parallel pivotal conduits, each having an inlet and return passages therethrough, a body member U-shaped in general form, the arms of the U-shaped member forming bearings in which said pivotal conduits are journalled, the intermediate part of the U-shaped body being formed with inlet and return passages communicating respectively with the inlet and return passages of the pivotal conduits, and said conduits extending through the bearings and into the intermediate part of the U-shaped body, the bearings being formed with internal shoulders, and the pivotal conduit having thrust bearing against said shoulders, a packing in each bearing, thrusting toward the shoulders, and a nut enclosing each pivotal conduit and threading on the adjacent bearing.

1,665,656. AZIMUTH SCALE WITH MICROMETER MECHANISM. THOMAS A. CONDON, Silver Spring, Md. Filed Oct. 5, 1925. Serial No. 60,616. 6 Claims. (Cl. 89—41.) (Granted under the provisions of the act of Mar. 3, 1882, 22 Stat. L., 625.)



6. The combination with a gun mount, of a top carriage rotatably supported thereby, a graduated azimuth scale carried by the mount, a dial carried by the top carriage and graduated in divisions of unit of the scale, a multiplying gear train connecting the dial and the scale, and a reference against which scale and dial may be read.

1,665,657. MILK AND CREAM SEPARATOR. WINTON A. DEAN and ARTHUR L. DEAN, Long Beach, Calif. Filed Oct. 29, 1927. Serial No. 229,642. 2 Claims. (Cl. 210—51.5.)



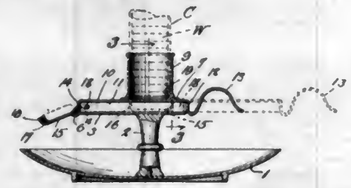
1. In a device of the class described, a support, an operating member, means for connecting the support and the operating member for relative longitudinal movement, a foldable separator, means for connecting the support and the operating member pivotally to the intermediate portion of the separator in off-set relation to the separator, links forming a pivotal connection between the support and the side portions of the separator, and spring means for imparting relative longitudinal movement to the support and to the operating member to dispose the separator flat and in a position approximately at right angles to the support, and to the operating member.

1,665,658. RAZOR-STROP-DRESSING TOOL. JOHN G. DICK, Chinook, Mont. Filed July 31, 1924. Serial No. 729,396. 2 Claims. (Cl. 51—203.)



1. A device for holding a razor strop for dressing the same comprising an elongated base member having a suspending loop at one end, stationary means located at the same end for engaging one end of a strop, longitudinally-movable means located at the other end of the base member for engaging the other end of said strop, upstanding, spaced pins carried by the base member adjacent to said loop, a metal bracket having an angular seat to receive the end of the base member, the upper flange of the seat having holes to receive said pins, and the lower flange having a down-turned lip to act as an abutment to position the device on the arm of a barber's chair.

1,665,659. INCENSE BURNER. WILLIAM EVANS, Piedmont, Calif. Filed May 19, 1927. Serial No. 192,660. 2 Claims. (Cl. 167—3.)



1. An incense burner including a tray, a guide supported thereabove, a holder opening downwardly into the guide, a slide mounted for reciprocation in the guide, a leaf hingedly connected to the slide and movable into and out of position below the holder, and means for supporting the leaf in an inclined position beyond one end of the guide and above the tray when the slide is in one position.

1,665,660. PROJECTION APPARATUS. LEON V. FOSTER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1925. Serial No. 19,165. 3 Claims. (Cl. 88—24.)

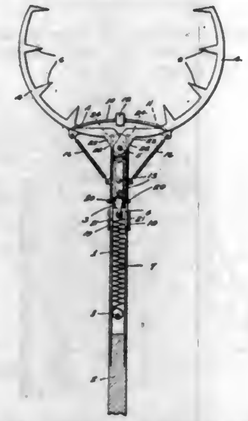


1. In a projection apparatus the combination with a projection lens and a light source, of a mirror adapted to form near the projection lens an image of the source of light, said mirror being formed with front and rear spherical surfaces separated by a medium of high refractive index, the front and rear surfaces having spherical undercorrection which is compensated for by overcorrection afforded by the medium of high refractive index lying between said surfaces.

1,665,661. FISH GRAPPLE. ALBERT E. GLESSALE, Syracuse, N. Y. Filed Aug. 11, 1926. Serial No. 128,585. 14 Claims. (Cl. 43—5.)

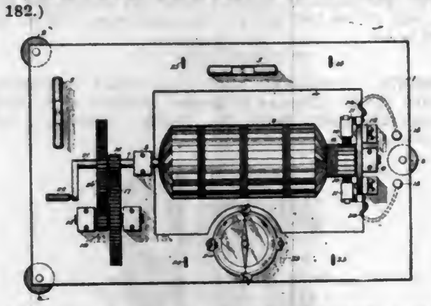
1. A fish grapple comprising a shank having a lengthwise passage therein, a carrier slidable lengthwise of the shank within the passage, a pair of jaws pivoted to the carrier, the jaws being formed with arms at the pivoted ends of the jaws and arranged at an angle to

the contiguous portions of the jaws for coacting with end surfaces on the shank to close the jaws when the carrier moves inwardly lengthwise of the shank, a spring connected to the carrier for moving it inwardly



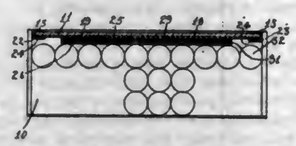
lengthwise of the shank and latching means for normally holding the jaws from closing movement by the spring, said latching means having a trip associated therewith.

1,665,662. ELECTROMAGNETIC DETECTING DEVICE. CECIL E. GODKIN, Hayward, Calif. Filed Dec. 15, 1925. Serial No. 75,599. 2 Claims. (Cl. 175—182.)



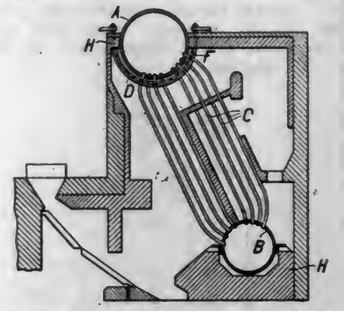
2. A device of the type described comprising a frame, means carried by said frame for supporting it in horizontal position with respect to the ground and an armature carried by said frame, means for actuating said armature, a magnetic shield covering the upper portion of said armature and being carried by said frame and a current measuring device in electric connection with said armature.

1,665,663. MOISTENER FOR CIGAR BOXES. ELMER C. HAKE, Cincinnati, Ohio, assignor to The Ludlow Manufacturing Company, Ludlow, Ky., a Corporation of Kentucky. Filed Sept. 30, 1926. Serial No. 138,764. 8 Claims. (Cl. 131—30.)



1. The combination of an auxiliary cover for cigar boxes comprising a frame, the frame being of a U shaped cross section, a transparent window carried by the frame, a longitudinal strip intermediate the frame and the window, a moisture carrying pad secured to the longitudinal strip, and means carried by the strip spaced from the pad whereby an air space is provided intermediate the moisture pad and spaced means.

1,665,664. WATER-TUBE BOILER. WILHELM HOPF, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Filed Feb. 13, 1925, Serial No. 8,992, and in Germany Mar. 6, 1924. 2 Claims. (Cl. 122—235.)

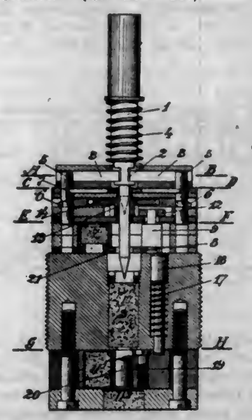


1. In a water tube boiler comprising upper and lower drums, water tubes connecting said drums, and a protecting shell arranged concentrically below said upper drum consisting of longitudinally running strips provided with recesses for the water tubes, supporting means for said shell comprising straps running transversely of said shell and suspended at both sides of the drum, said strips lying free upon said straps.

1,665,665. PROCESS FOR PRODUCING A HARD LOW-TEMPERATURE COKE. KURT JAHNKE, Ludwigsburg, Germany. Filed Oct. 19, 1926, Serial No. 142,774, and in Germany May 2, 1924. 4 Claims. (Cl. 202—8.)

1. A process for producing hard low temperature coke which comprises the steps of mixing a pulverized coal with a mixture of pulverized ferrocarbonate and a bituminous material; and subjecting this mixture to low temperature carbonization.

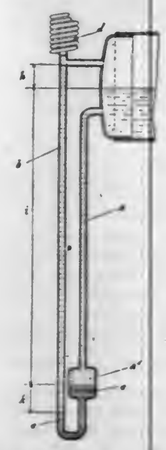
1,665,666. PERCUSSION FUSE. OSKAR JUNGHANS, Schramberg, Germany; Siegfried Junghans administrator of said Oskar Junghans, deceased. Filed Oct. 7, 1926, Serial No. 140,106, and in Germany May 21, 1926. 3 Claims. (Cl. 102—39.)



1. A percussion fuse in which the percussion pin normally lies concealed within the casing of the fuse comprising a percussion cap, a divided igniting charge

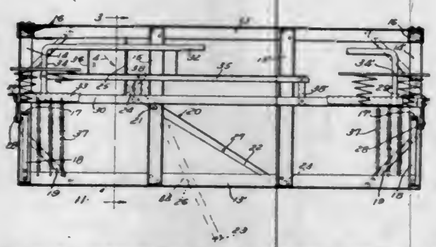
composed of a plurality of single explosive bodies which normally occupy safe positions so as not to communicate with each other, but which upon firing are permitted to communicate with each other for the purpose of igniting the explosive charge of the projectile, means for ensuring the safe and active positions of the said explosive bodies, forming the igniting charge, and means including a clockwork for retarding the interconnection of the said bodies to active position for a predetermined length of time after firing.

1,665,667. LIQUID-LEVEL INDICATOR. WILHELM KÜSTERS, Aachen, Germany. Filed Feb. 17, 1925, Serial No. 9,860, and in Germany Feb. 29, 1924. 1 Claim. (Cl. 73—54.)



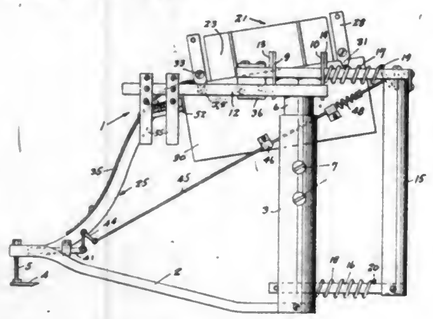
A liquid level indicator for the water in steam boilers, comprising a pipe having a U-bend at a point below the boiler and one leg of the bend being in open communication with the water-containing space of said boiler and the other leg with the space above said water, said legs containing independent columns of water between which is interposed at the bend an indicating liquid having a specific weight which is approximately double that of the water.

1,665,668. PORTABLE FOLDING BED. CHARLES LOFMAN, Los Angeles, Calif., assignor to Roberti Bros., Los Angeles, Calif., a Corporation of California. Filed Sept. 30, 1925. Serial No. 59,070. 5 Claims. (Cl. 5—168.)



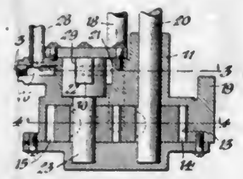
5. In an organization of the general character described, a truck frame, a bed frame pivotally mounted thereon, a floor engaging brace member pivotally mounted on said truck frame, means on said bed frame arranged to engage said brace member for automatically moving one end of said brace member outwardly from said truck frame during the movement of said bed frame from vertical to horizontal position, means on said bed frame for engaging said brace member, to give an initial inward movement of the brace member on raising the bed frame and resilient means tending constantly to throw said brace member outwardly.

1,665,669. NAIL SETTER. EDWARD F. MALOUF, Marysville, Calif. Filed Feb. 12, 1927. Serial No. 167,744. 9 Claims. (Cl. 1—47.)



2. In a nail setter adapted for setting nails at predetermined spots, a frame; a receptacle slidably mounted on the frame and adapted to receive nails therein; a nail conveyer connected with the receptacle for leading the nails therefrom; means for allowing the passage of only one nail at a time through the nail conveyer to the free end thereof; means at the free end of the nail conveyer for yieldingly retaining the nail passed through the conveyer; and manually operated means for holding the nail in, and at the free end of, the nail conveyer while the nail is set.

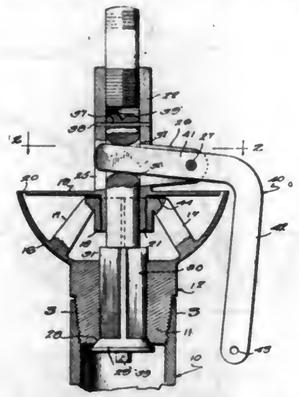
1,665,670. COMBINED LOW AND HIGH PRESSURE OIL PUMP. CHARLES W. MANZEL, Buffalo, N. Y. Filed Apr. 22, 1925. Serial No. 24,998. 6 Claims. (Cl. 103—4.)



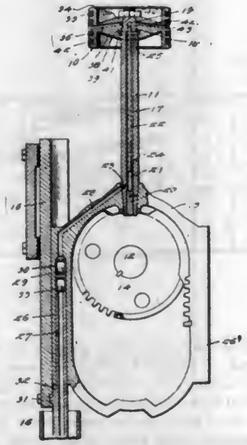
1. An oil pump of the character described, comprising a casing having low and high pressure oil chambers each provided with an inlet and an outlet, the outlets of said chambers delivering the oil to two separate distributing points and the outlet of the low pressure chamber having a branch communicating with the inlet of the high pressure chamber, and rotary means in said chambers for pumping the oil from the inlets to the outlets thereof, respectively.

1,665,671. LOCOMOTIVE WHISTLE. RALPH C. MOREHOUSE, Mason City, Iowa. Filed May 1, 1926. Serial No. 106,115. 4 Claims. (Cl. 116—137.)

3. In a locomotive whistle, a base including an upper bowl shaped portion having an open upper end and a depending cylindrical portion having an axial opening therethrough, a valve stem vertically slidable in said axial opening and having portions spaced therefrom to permit passage of operating fluid therethrough, the lower end of said axial opening being provided with a valve seat, a valve carried by said stem and normally engaging said seat, a stationary sleeve carried by said base near its upper end, a plate arranged in the open end of said bowl shaped portion and supported by said sleeve, a guide extending upwardly from said plate, said guide being provided with a vertically elongated radial slot, said valve stem projecting upwardly into said guide and provided with a slot arranged in alinement with the slot in said guide, a lever pivotally supported intermediate its ends by said guide, one end of said lever being vertically movable and arranged in the slot in said valve stem, and means for supporting a whistle bell over said plate.

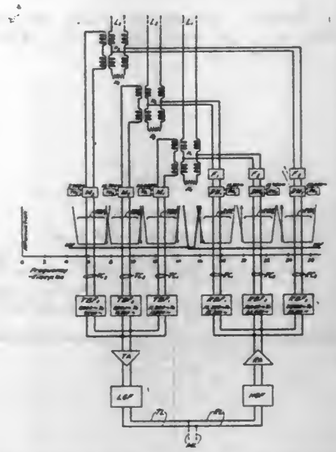


1,665,672. PISTON AND CONNECTING-ROD CONSTRUCTION. LEROY H. NOAH, Ogallah, Kans. Filed Mar. 22, 1927. Serial No. 177,381. 1 Claim. (Cl. 184—18.)



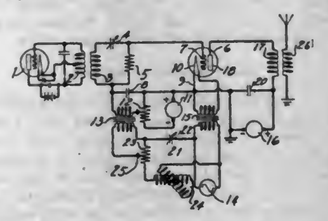
In combination, a piston comprising an annular wall having a groove formed intermediate its ends, a hub having a rod receiving bore, a web perpendicular to the annular wall connecting the annular wall and hub, ribs connecting said hub and annular wall, the rod receiving bore of the hub having annular grooves formed therein, lugs connecting the groove of the annular wall with the grooves of the hub and extending through said ribs, a rod engaged with said hub and having ports communicating with the grooves thereof, said rod having a bore the upper end of which is reduced and communicates with one of said ports, a plug seated in the lower end of the bore, said plug having a bore of the same size as the reduced extension of the first named bore, a tube having its ends engaged in said reduced extension and the bore of the plug and means for conducting lubricant to the bore of the plug, the other of said ports connecting the bore of the rod with the second groove of the piston hub, the lower end of the bore having an outlet formed through the wall thereof.

1,665,673. ARRANGEMENT OF CARRIER CHANNELS IN MULTIPLEX SIGNALING SYSTEMS. WAYNE B. NOTTINGHAM, Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1925. Serial No. 77,473. 7 Claims. (Cl. 179—15.)



1. In a multiplex carrier wave signaling system comprising a plurality of two-way carrier channels employing different carrier frequencies, all of the carrier frequencies in said channels used for transmission in one direction being comprised in a range below a certain limiting frequency, and all of the carrier frequencies in said channels used for transmission in the opposite direction being comprised in a range above said limiting frequency, the method of reducing near-end cross-talk which consists in selecting the particular carrier frequencies associated in each two-way channel for transmitting in opposite directions so that objectionable frequency components produced by intermodulation between the frequency bands transmitted in the same direction in any two of said channels will lie outside the range of the frequency bands transmitted in the opposite direction in any of the other channels.

1,665,674. SYSTEM INCLUDING SPACE DISCHARGE DEVICE. ARTHUR A. OSWALD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1924. Serial No. 691,173. 18 Claims. (Cl. 250—6.)

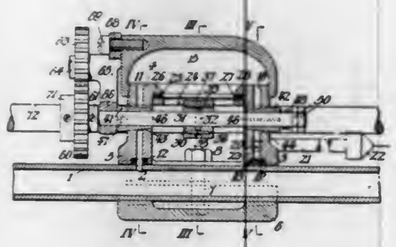


6. An electrical system comprising a space discharge device having a cathode, an anode and a control electrode means for supplying energy to control the operation of

said device means for supplying alternating current to said cathode, and means for impressing a voltage wave upon the other electrodes of said device for compensating the effect of the alternating current supplied to said cathode.

10. A carrier transmitting system, comprising a source of carrier waves, means for coupling said source to a transmission circuit by a circuit including a space discharge device and a tuned circuit including a series connected means for preventing impedance variations in said transmission circuit from reacting upon said source of carrier waves.

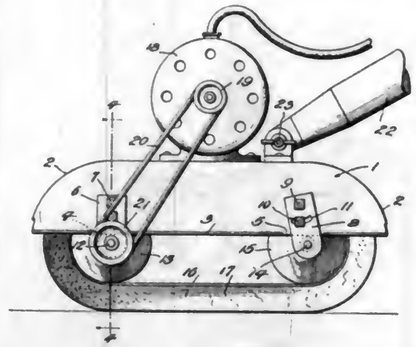
1,665,675. PUMP. ARTHUR E. PAIGE, Philadelphia, Pa. Filed Mar. 24, 1926. Serial No. 96,935. 10 Claims. (Cl. 103—150.)



1. In a pump; the combination with a casing having an inlet port and means arranged to connect a conduit therewith; said inlet port extending from said conduit into a pump chamber in said casing; an outlet port from said chamber extending through said casing; a flexible metallic diaphragm fitted in said casing as a wall of said pump chamber; rotary valves fitted in corresponding seats in said casing, which are in coaxial relation and respectively local to said inlet port and outlet port; each of said valves having a port; a shaft extending through said valves and operatively connected therewith to turn them; means connecting said valves in predetermined relative rotary position upon said shaft; means arranged to press said valves toward their seats in compensation for wear; and a cam on said shaft in co-operative relation with said diaphragm, arranged to flex said diaphragm inwardly to reduce the volumetric capacity of said pump chamber when said inlet valve is closed and said outlet valve opened and vice versa; means arranged to rotate said shaft; a by-pass arranged to establish communication between said conduit and said pump chamber, independently of said inlet valve; and means arranged to vary the effective area of said bypass; whereby, rotation of said cam and inlet and outlet valves causes oscillatory displacement of the liquid in said pump chamber, but the effective displacement of said liquid through said outlet is variable by adjustment of said bypass valve.

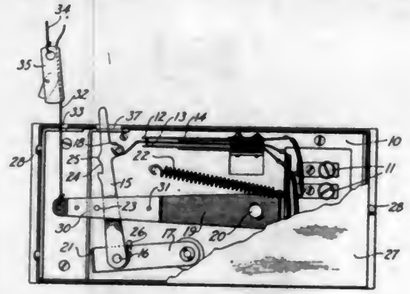
1,665,676. SANDPAPERING AND BUFFING MACHINE. ELY PRIMEAUX, New Orleans, La. Filed May 3, 1926. Serial No. 106,441. 1 Claim. (Cl. 51—174.)

In a buffing machine, the combination of a casing open at its lower ends and having indentions in the lip of its side walls; one of which indentions is slightly larger than the other, bearing straps secured to the side walls of the machine; one of said straps being retained snugly in one of the indentions and the other of which is adapted to be adjusted with respect to the side wall and within the complementary indentions, a slot formed in one of the straps to engage adjusting means, shafts journalled in the lower ends of the straps, drums mounted on the shafts, a



buffing element arranged on an endless belt; said endless belt being actuated by the drums and means for actuating one of the shafts.

1,665,677. ALARM DEVICE. WILLIAM C. ROE, New York, N. Y., assignor to Holmes Electric Protective Company, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1923. Serial No. 611,770. 2 Claims. (Cl. 200—161.)

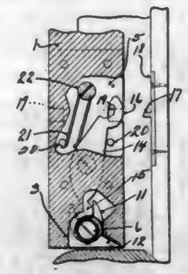


2. In combination, a movable member to be supervised, a pivoted lever, a spring tending to lower said lever, a set of contact springs for controlling an alarm circuit, a pivoted arm for operating the same, a link connecting said member and lever and holding said lever against the action of said spring, said lever being raised due to a pull on said link when the supervised member is raised and being lowered by said spring when said link is severed, said lever being arranged to operate said arm when moved in either direction to cause the actuation of said springs, and means associated with said lever and arm for maintaining said springs in their closed position.

1,665,678. AUTOMATIC WEATHER STRIP. FRANK SHERSMITH, Oconomowoc, Wis. Filed Mar. 28, 1927. Serial No. 179,069. 3 Claims. (Cl. 20—67.)

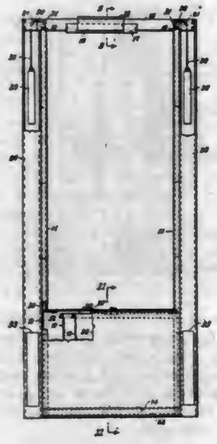
1. In a device of the class described, the combination of a casing, a member hinged thereto, a lever pivoted intermediate its ends within said member, a rocking sleeve extending transversely along the underside of said member and having an arm interfitting with the lower

end of said lever, a spring urging said lever in one direction, means carried by said casing against which said lever strikes for rocking said lever in the other



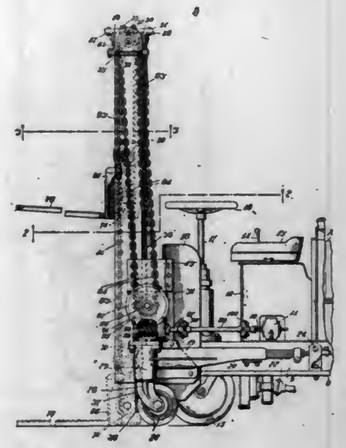
direction to thereby rock said sleeve, and a resilient weather strip carried by said sleeve and contacting with said casing when said sleeve is rocked.

1,665,679. LIGHT SCREEN AND VENTILATOR. LEOPOLD SIMON, New York, N. Y. Filed Jan. 22, 1926. Serial No. 82,948. 12 Claims. (Cl. 189—61.)



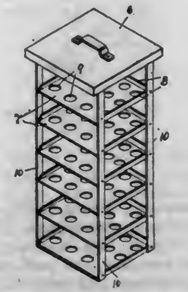
1. A screen or covering device for application to windows, or like openings, including, in combination, spaced tubular posts, cross frame members extending between said posts, and including an upper lintel member and a lower base member, said posts and frame members forming a unitary screen framework adapted for installation as a unit within a window opening, guide members upon the inner faces of the said tubular posts and having channel guide-ways, a plurality of louvers mounted face to face in said channel guide-ways for sliding movement relatively to each other, the mutually adjacent louvers having flanges disposed at the leading edge of one and at the following edge of the other and turned backwardly from the edges along the adjacent faces thereof and facing toward each other so as to engage in interlocking relation when the louvers are moved relatively to each other into extended position, counterweight mechanism for operating said louvers and including a weight housed wholly within one of said tubular posts and running therein, and a flexible connection between said weight and one of the louvers.

1,665,680. TIERING MACHINE. BERGER STOCKFLETH, Berrien Springs, and FREDERICK W. BURGER, Niles, Mich., assignors to Clark Tructractor Company, Buchanan, Mich., a Corporation of Michigan. Filed Feb. 9, 1925. Serial No. 7,947. 8 Claims. (Cl. 187—11.)



5. A tiering machine comprising an elevator frame, a carriage movable vertically on said elevator frame, driving sheaves mounted on the lower portion of said elevator frame at opposite sides thereof, means for driving said sheaves, sheaves mounted at the upper portion of the elevator frame over said driving sheaves, hoisting chains at opposite sides of the elevator frame, each of said chains extending over one of the upper sheaves and having a bight extending around and operatively engaging one of the driving sheaves, means actuated by said hoisting chains for moving the carriage vertically, and means for vertically adjusting said upper sheaves.

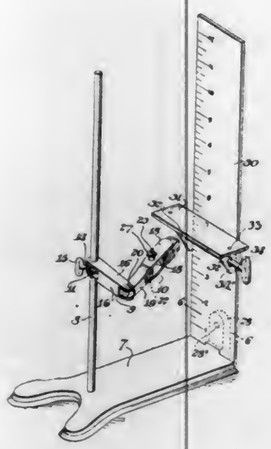
1,665,681. ICE-CREAM-BRICK CONTAINER. CHARLES B. TELLING, Cleveland, Ohio. Filed Feb. 3, 1923. Serial No. 616,710. 1 Claim. (Cl. 220—9.)



A bodily transportable unit for brick ice cream and the like comprising a container, a lid having a handle on its

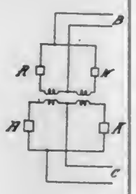
upper side and a rack of trays underneath, and means for maintaining the lowermost of the said trays clear of any liquid cream on the bottom of said container, said means comprising brackets on the container a short distance from the bottom thereof upon which the rack is supported.

1,665,682. GARMENT GAUGE. JOEL B. WELLS, Philadelphia, Pa. Filed June 21, 1921. Serial No. 479,191. 4 Claims. (Cl. 33—9.)



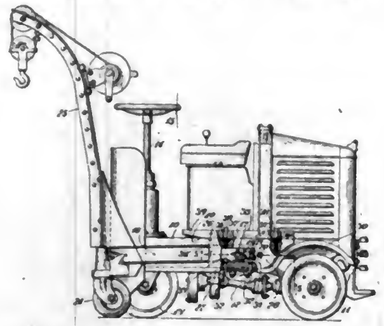
1. In a garment gauge, the combination of an upright gauge member, a horizontally extending plate supported thereby, and channelled elements pivoted to the plate, one at each end thereof, having channels oppositely disposed for receiving the opposite side margins of the gauge member.

1,665,683. TELEPHONE SYSTEM. THEODOR ZUSCHLAG, New York, N. Y., assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 6, 1924, Serial No. 742,038, and in Germany Oct. 6, 1923. 5 Claims. (Cl. 178—44.)



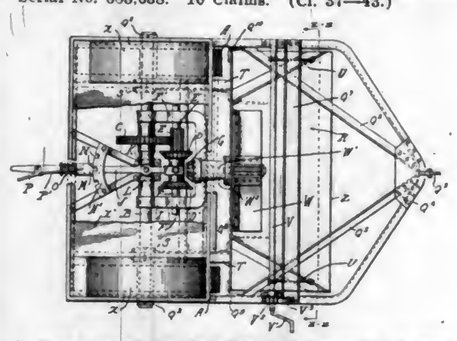
1. In a communication system, a two-way transmission line, a pair of one-way transmission lines, means interconnecting said lines so that transmission is permitted between said two-way line and each one-way line, but transmission is prevented between said one-way lines at certain frequencies, in combination with a balanced bridge circuit connected in one of said one-way lines and at all times operative to prevent transmission between said one-way lines at other frequencies.

1,665,684. SHOP TRACTOR. FREDERICK W. BURGER, Niles, and BERGER STOCKFLETH, Berrien Springs, Mich., assignors to Clark Tructractor Company, Buchanan, Mich., a Corporation of Michigan. Filed Feb. 27, 1924. Serial No. 695,537. 6 Claims. (Cl. 180—14.)



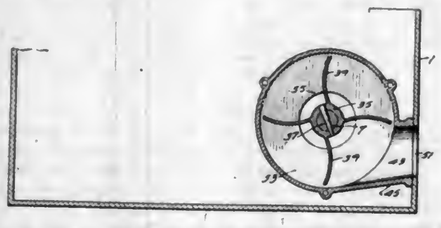
1. The combination with a shop tractor frame having at each side a running board or step and a curved fender over one of the rear wheels of the tractor, of a weighting member located on each of said running boards or steps and projecting at one end over the adjacent wheel of the tractor.

1,665,685. SNOW-REMOVAL APPARATUS. EDWIN B. CADWELL, Saugerties, N. Y. Filed Dec. 31, 1923. Serial No. 683,638. 10 Claims. (Cl. 37—43.)



1. A machine of the class described comprising a frame having means for connection to the rear draw bar of a tractor, traction wheels and a driving axle for supporting the frame, a snow scoop and a rotor mounted for operation therein whereby the snow may be discharged at either side of the scoop and gearing for operating the rotor from the said axle.

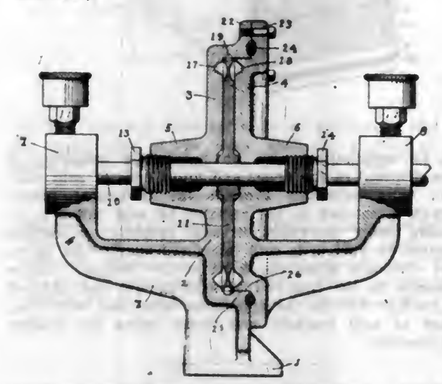
1,665,686. PUMP. PATRICK HENRY DAVIS, Leonia, N. J. Filed Dec. 29, 1925. Serial No. 78,154. 2 Claims. (Cl. 103—104.)



1. In combination, a tank, a shaft journaled in opposite walls of said tank, a rotor on said shaft having a

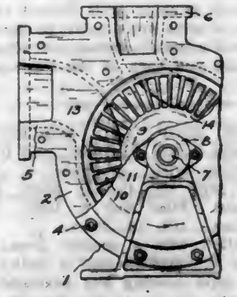
plurality of vanes, a pump casing surrounding said rotor to form therewith a centrifugal pump and spaced therefrom at all points to permit the passage therebetween of solid particles of substantial size, said casing being provided with lateral intake openings, and a tangential outlet member on said casing forming an outlet from the casing and from the tank, said outlet member being secured to a lower portion of a side wall of the tank to thereby support the casing above the floor of the tank.

1,665,687. PUMP. WILLIAM I. DERRICK, Davenport, Iowa, assignor to Westco-Chippewa Pump Company, Davenport, Iowa, a Corporation of Delaware. Filed Apr. 25, 1928. Serial No. 634,499. 37 Claims. (Cl. 103—96.)



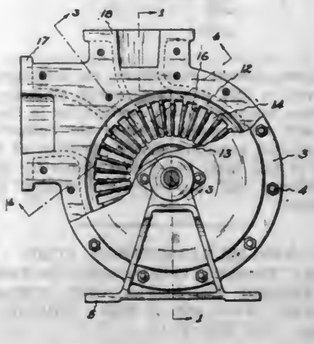
1. A pump comprising a casing, a shaft mounted therein, a rotor secured to the shaft, a plurality of annular passages in the casing adjacent the periphery of the rotor, said passages having common peripheral supply and discharge ducts, and blades on the rotor for engaging liquid in said passages, said rotor and casing having a substantially liquid-tight running fit between said passages and liquid deflecting means having a close running fit with said blades and extending over a plurality of successive blades for deflecting liquid from said annular passages to said discharge duct and for maintaining relatively great pressure differential between the outlet and the inlet ends of the passages.

1,665,688. PUMP. WILLIAM I. DERRICK, Davenport, Iowa, assignor to Westco-Chippewa Pump Company, Davenport, Iowa, a Corporation of Delaware. Filed Aug. 18, 1927. Serial No. 213,812. 7 Claims. (Cl. 103—96.)



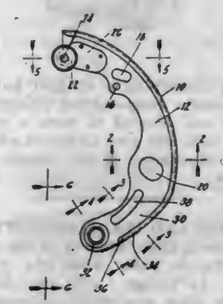
1. A rotary pump comprising a rotor in the form of a disc having an annular row of transverse apertures therein, and a casing provided with an inlet and an outlet and having walls closely overlying the face of the disc inwardly and outwardly of said row of apertures and between the inlet and outlet, said casing and disc forming an unobstructed passage alongside the row of apertures from the inlet to the outlet.

1,665,689. PUMP. WILLIAM I. DERRICK, Davenport, Iowa, assignor to Westco-Chippewa Pump Company, Davenport, Iowa, a Corporation of Delaware. Filed Aug. 18, 1927. Serial No. 213,818. 6 Claims. (Cl. 103—96.)



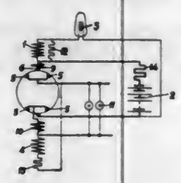
1. A rotary pump comprising a rotor having a continuous annular channel therein and impeller vanes alongside the channel, and a casing having portions closely overlying the rotor on opposite sides of the channel, and having an inlet and an outlet communicating with said channel, said casing having an inwardly projecting portion obstructing said channel between the inlet and the outlet to prevent return flow from the outlet to the inlet.

1,665,690. BRAKE SHOE. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 23, 1927. Serial No. 177,547. 15 Claims. (Cl. 188—250.)



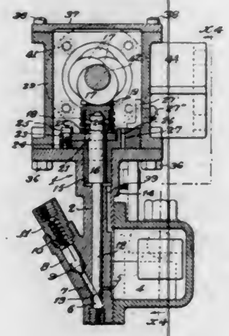
9. A brake shoe having an arcuate friction face and a stiffening web, separate plates or stampings secured to opposite sides of the web immediately adjacent its end, a pin having a central part with a relatively great diameter and with a length equal to the combined thickness of the web and plates and mounted in the web and said plates and projecting on opposite sides of the shoe, and a pair of thrust rollers respectively mounted on the ends of said pin and engaging the sides of said central part to hold the pin against axial movement, the ends of the pin being headed over to hold the rollers against axial movement.

1,665,691. TWO-VOLTAGE DIRECT-CURRENT GENERATOR. LUDWIG DREYFUS, Vasteras, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Corporation of Sweden. Filed Feb. 23, 1927, Serial No. 170,313, and in Sweden Dec. 4, 1924. 6 Claims. (Cl. 171—223.)



1. In direct current generators, an armature having a commutator, a field having a system of main poles, a set of brushes bearing on said commutator in the neutral zones of said main poles, brushes short-circuited over a portion of said armature in the direction of the magnetic path of said main poles, and means for tapping a current between said short-circuited brushes and said other brushes.

1,665,692. VARIABLE-DISCHARGE PUMP. ORVILLE H. ENSIGN, Pasadena, Calif., assignor to Ensign Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 8, 1925. Serial No. 21,552. 10 Claims. (Cl. 103—37.)



1. In a pump comprising a cylinder having inlet and discharge ports and a reciprocating plunger formed with an oblique face and adapted to form a cut-off for said inlet port; and rack and gear means to effect and maintain a rotative adjustment of the plunger with relation to the inlet port.

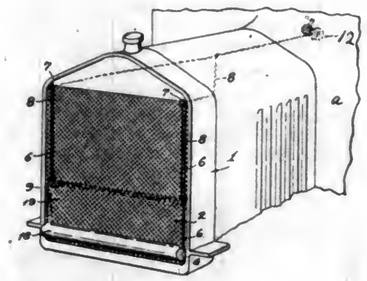
1,665,693. GLASS AND ITS MANUFACTURE. ELBERT E. FISHER, Toledo, Ohio, assignor of one-half to George W. Batchell, Toledo, Ohio. Filed Apr. 5, 1927. Serial No. 181,274. 14 Claims. (Cl. 106—36.1.)

1. A batch for glass production comprising a substantial proportion of barium sulfate as a primary ingredient and producing, when melted, a glass which is capable of being effectively decolorized by selenium and which solidifies to a clear transparent product.

1,665,694. GLASS AND ITS MANUFACTURE. ELBERT E. FISHER, Toledo, Ohio, assignor of one-half to George W. Batchell, Toledo, Ohio. Filed Apr. 6, 1927. Serial No. 181,613. 25 Claims. (Cl. 106—36.1.)

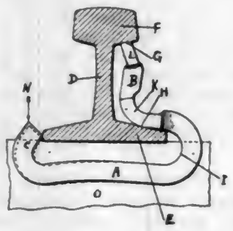
1. A glass-forming batch containing barium sulfide as a primary ingredient.

1,665,695. RADIATOR SHUTTER. LEIGH G. GARNSEY, Redlands, Calif. Filed Apr. 21, 1926. Serial No. 103,421. 2 Claims. (Cl. 257—132.)



2. In combination with an automobile radiator; of tubes disposed in the upper and lower ends of said radiator; bolts extending through the lowermost tubes; brackets connected to the radiator by said bolts; a rewinding roller journalled in said brackets; a curtain arranged to wind upon said roller and adapted for movement vertically along the front of the radiator; cables connected to the free end of said curtain and adapted for passage through the uppermost tubes and wires connected to said brackets and upper tubes for guiding said curtain.

1,665,696. ANTICREEPER. HORATIO G. GILLMOR, Washington, D. C. Filed Aug. 28, 1925. Serial No. 53,062. 11 Claims. (Cl. 238—330.)

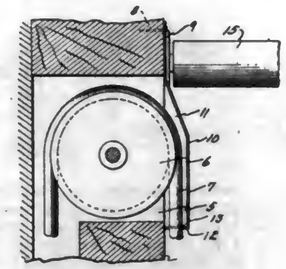


1. A one piece anticreeper consisting of a bar having a body portion adapted to engage a tie but not the rail bottom and rail gripping arms formed on the ends of said bar, one of said arms being so formed as to provide a rail head gripping surface extending forward of the forward face and back of the rear face of said body portion.

1,665,697. SASH STOP AND PULLEY GUARD. JOSEPH P. GLASER, LOUIS F. JULIEN, and HERBERT W. WHITTEN, Detroit, Mich., assignors to Chamberlin Metal Weather Strip Co., Detroit, Mich., a Corporation of Michigan. Filed May 6, 1925. Serial No. 28,356. 2 Claims. (Cl. 16—210.)

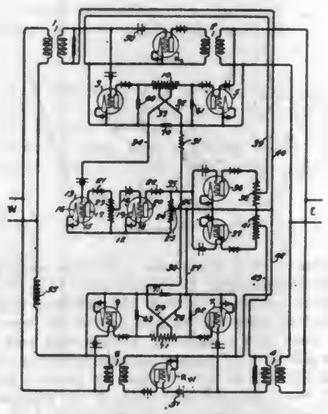
1. The combination with a window frame having a pulley opening in the side thereof, a pulley rotatably supported in the said opening and partially extending therethrough, a sash slidable in the window frame and a sash cord extending over the pulley and connected with the sash, of a cover member for the said opening consisting of a sheet metal member recessed in its mid

section and providing lateral extending flanges on opposite sides and at one end, the opposite end having a return bent part providing a closure for the recess at



the said end and forming when in position a stop for the upper edge of the sash, said end portion of the recess having an aperture for the pulley cord.

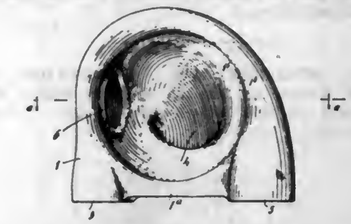
1,665,698. ELECTRIC-CURRENT TRANSMISSION. WILLIAM S. GORTON, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1923. Serial No. 615,164. 24 Claims. (Cl. 179—170.)



1. A transmission system and two oppositely pointed asymmetrically transmitting channels connected thereto, and means responsive to the transmission in said system for decreasing the transmitting efficiency of one of said channels and for maintaining one of said channels at low transmitting efficiency at the instant when transmission is initially incident upon said channels, said means comprising circuits for balancing the energy of the transmission at one part of the system against the energy of the transmission at another part of the system.

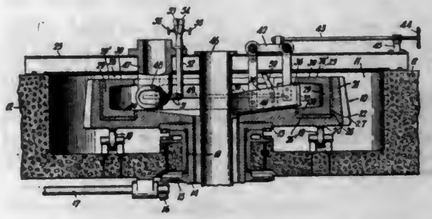
1,665,699. AMPLIFIER. ERNEST W. GRAEF, Caldwell, N. J. Filed Feb. 12, 1924. Serial No. 692,287. 2 Claims. (Cl. 181—27.)

1. An amplifier of the character specified comprising a body having an interior passage provided with an inlet and an outlet, said passage gradually increasing in diameter from the inlet to the outlet and being arranged in convolute form with the main outlet opening through one



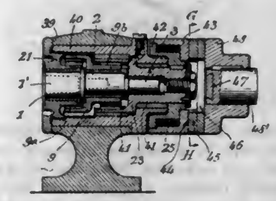
side of the body in a position transverse to the plane of the passage and a secondary outlet opening through the same side as the main outlet.

1,665,700. CENTRIFUGAL CASTING MACHINE. JOHN K. HENCKEN, Brooklyn, N. Y. Filed Nov. 14, 1925. Serial No. 68,970. 5 Claims. (Cl. 22—65.)



1. A centrifugal casting machine comprising a centrifugal mold, means for introducing molten metal into the mold, means for subjecting the introduced metal to centrifugal action within the mold whereby the relatively heavy metal is forced towards the periphery of the mold and the lighter material is moved toward the axis of rotation, skimming means projecting into the mold for removing said lighter material from the mold, and means for receiving the lighter material so removed and for directing it out of the vicinity of the mold.

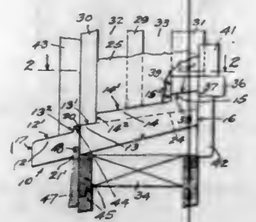
1,665,701. TRANSMISSION GEAR. SIMON HOLDENER, Wolfhausen, Switzerland, assignor to Benjamin Kienast, Schlossberg, Switzerland. Filed Mar. 13, 1924, Serial No. 698,984, and in Switzerland Mar. 29, 1923. 9 Claims. (Cl. 74—35.)



1. In a transmission gear adapted for use in driving looms, a shaft, an eccentric on said shaft, a transmitting member loosely mounted on said eccentric, an internally toothed rim and an externally toothed rim provided on said transmitting member, a split casing, a bush rotatable in said casing, an externally toothed rim operatively connected to said bush and in mesh with the internally toothed rim of the transmitting member, an organ adapted for power-transmission to outside of the gear and operatively connected to the loom shaft, an internally toothed

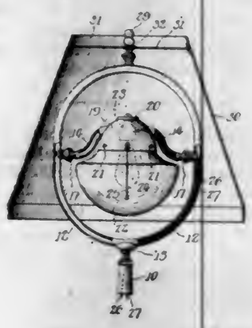
rim on said organ and in mesh with the externally toothed rim on the transmitting member, means to clamp said split casing to prevent said bush from rotating and cause thereby the gear to transmit power, and means to operate said clamping means.

1,665,702. WINDOW-FRAME CONSTRUCTION. BERTRAM F. KEHRER and EDWARD H. BRETT, Seattle, Wash. Filed Mar. 22, 1926. Serial No. 96,438. 3 Claims. (Cl. 20—11.)



1. In a window-frame, a sill having its upper surface formed to provide a series of steps, each end of said sill being formed to provide at the front thereof a horn element to protrude lengthwise of the sill beyond the ends of the rear portion of the sill, said horns being of a width to include all of the lowermost step and a portion of the second step, said last named portion of the second step extending as a rib along the upper rear edge of the respective horns to the outer extremities thereof.

1,665,703. PORTABLE ELECTRIC LAMP. JAMES KERNES, Chicago, Ill., assignor to Kernes Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 8, 1926. Serial No. 146,927. 5 Claims. (Cl. 240—81.)



4. In a portable electric lamp the combination of a standard terminating in a loop, a cross-arm extending across said loop, said cross-arm being curved and having a dished or cupped member, a lamp socket contained in said dished member, said dished member being adapted to carry an interior shade, said cross-arm carrying the dished member and socket in the curved portion of said cross-arm whereby balance of the portable electric lamp is secured when said cross-arm, dished member and interior shade are out of vertical alignment with said standard and said loop, said cross-arm, dished member and lamp socket being rotatable within said loop, a post secured to the top of said looped member, said post comprising a ball and socket joint, and a holder for an exterior lamp shade, said ball and socket joint in said post permitting the tilting of the exterior shade held by said shade holder.

1,665,704. ROD FOR CURTAINS, DRAPERIES, AND THE LIKE. JAMES KERNES, Chicago, Ill., assignor to Kernes Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed May 23, 1927. Serial No. 193,895. 3 Claims. (Cl. 156—19.)



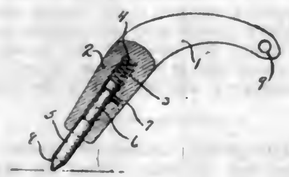
1. In a rod for curtains, draperies and the like, a lamp socket in the end of said rod, a fitting surrounding said lamp socket, said fitting having an inturned flange offset at opposite sides of the flange and forming two relatively short grooves on the interior of said flange, an opening in the edge of said flange in one of said relatively short grooves, a second fitting, said second fitting being provided with two projections, one of said projections being adapted to be placed in one of said grooves and the other of said projections being adapted to be placed in said edge opening and in the other of said grooves, said second fitting being provided with an aperture in one end, which is centrally arranged in the end, through which aperture a lamp normally connected in said lamp socket may pass.

1,665,705. PAPER-FILING DEVICE. FRED J. KLINE, New York, N. Y. Filed July 9, 1925. Serial No. 42,565. 4 Claims. (Cl. 129—25.)



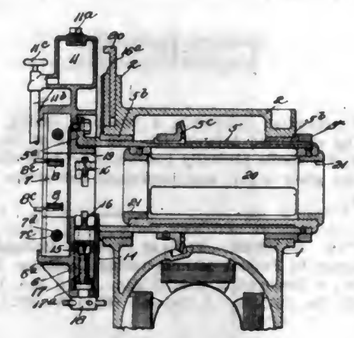
1. The combination of a file base, a fastener supporting member lying substantially flat upon said base, one of said parts being relatively flexible, the fastener supporting-member having one side secured to the file base and another side free, and a fastener attached to said free side, the free side of said supporting-member being adapted to be separated from the file base by relative flexure between said base and the free side of the supporting-member to permit the fastener to be attached to said free side.

1,665,706. STOCKING MARKER. CHARLES T. LA MONT, Milwaukee, Wis. Filed Mar. 14, 1927. Serial No. 175,397. 4 Claims. (Cl. 66—1.)



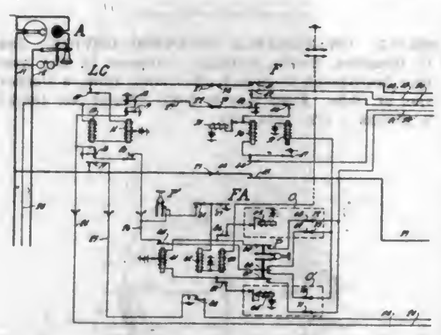
1. A marker for stockings comprising a body portion and a yielding point adapted to move inwardly towards the body portion.

1,665,707. DEVICE FOR CUTTING PIPE. JACOB LEVY, Boston, Mass. Filed July 16, 1924. Serial No. 726,274. 4 Claims. (Cl. 10—90.)



1. A device for cutting pipe, embracing in its construction a supporting frame, a revoluble hollow shaft mounted therein and provided with interiorly disposed removable pipe-supporting and centering means, a tool-carrying head secured to said shaft, a pair of opposed slide blocks mounted on said head, thread-cutting dies adjustably secured in said blocks, and means comprising outwardly thrusting springs and opposed automatically controlled screws engaging said blocks, for automatically moving said blocks apart to decrease the depth of the thread cut toward the end of the cutting operation in order to avoid formation of a projecting burr at the end of the thread, substantially as described.

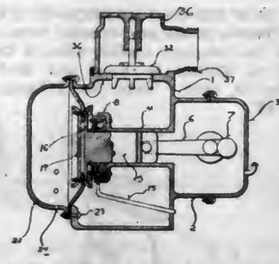
1,665,708. TELEPHONE SYSTEM. CLARENCE E. LOMAX, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 6, 1922, Serial No. 605,149. Renewed Sept. 26, 1927. 19 Claims. (Cl. 179—18.)



2. In a finder system, a plurality of finders an allotter for alloting an idle one for use when the allotted one is taken for use, said allotter comprising two operating mechanisms and a group of relays common to both said operating mechanisms, and a manually operable device for disconnecting either operating mechanism from the associated relays and substituting the other operating mechanism.

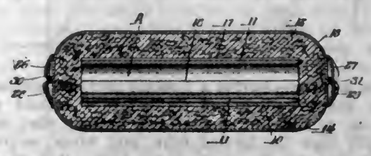
14. In a telephone system, link circuits for extending calling lines, a signalling device initially rendered effective responsive to all said link circuits becoming busy, and means for maintaining said device effective while any calling line is waiting to be extended.

1,665,709. DIAPHRAGM PUMP. CHARLES L. LONGENECKER, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1926. Serial No. 135,819. 3 Claims. (Cl. 103—150.)



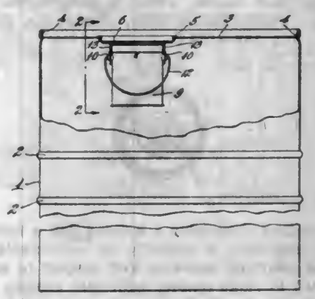
1. A diaphragm pump comprising a casing having a fluid receiving chamber provided with opposed walls and having inlet and outlet openings, one of said walls having an enlarged opening, the other of said walls having a tubular guide projecting into said fluid receiving chamber and directed towards said enlarged opening, said casing having a crank compartment one of whose walls is formed by said last mentioned wall, a plunger slidably mounted within said tubular guide and having an enlarged head provided with a rounded marginal portion, a diaphragm closing said enlarged opening and secured to said enlarged head adjacent said rounded marginal portion, a diaphragm-clamping cap secured to the outer side of said first mentioned wall and clamping the marginal portion of said diaphragm adjacent said enlarged opening, a crank located within said crank compartment, and means connecting said crank and plunger.

1,665,710. MANICURING BUFFER. ZANA R. LUCAS and GUY E. CARPENDER, West Chicago, Ill.; said Carpender assignor to said Lucas. Filed May 20, 1926. Serial No. 110,402. 12 Claims. (Cl. 132—73.)



1. In a manicuring buffer, the combination of a slit tube, said tube being surrounded by padding, and an outer covering therefor.

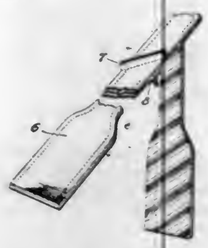
1,665,711. CONTAINER. LEO A. LUX, Rocky River, Ohio. Filed Jan. 18, 1924. Serial No. 687,027. 3 Claims. (Cl. 220—28.)



1. A structure of the character described, comprising a main container provided with an opening, a closure for said opening, a secondary container provided with bail

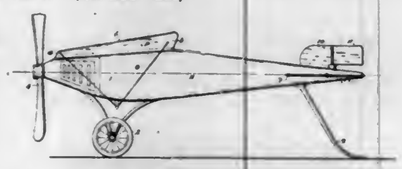
receiving bosses, and strip portions on said closure provided with openings therein to receive said bosses for securing the secondary container thereto.

1,665,712. BOW TIE AND METHOD OF MAKING THE SAME. GEORGE R. MILLER, Omaha, Nebr., assignor to Grip Bow Tie Company, Omaha, Nebr., a Copartnership composed of William M. Reese and Merl W. Reese. Filed June 23, 1926. Serial No. 117,992. 3 Claims. (Cl. 2—146.)



1. An improved method of making bow ties which consists of cutting the material in a strip on a bias so as to obtain bias ends, folding the strip over on itself and sewing along two longitudinal edges to form a closed tubular section and joining the bias ends of two sections.

1,665,713. AEROPLANE. ARTHUR A. NESO, Abrams, Wis. Filed Dec. 1, 1926. Serial No. 152,042. 4 Claims. (Cl. 244—12.)



1. An aeroplane having a fuselage provided with scoop-shaped wings, leading and trailing edge of said wings tilted up at dihedral angles, the trailing edge having more tilt than the leading edge, said wings secured to the fuselage with the trailing edge higher than the leading edge measuring from the horizontal center line of the fuselage, means for stabilizing said aeroplane.

1,665,714. GOVERNOR FOR MOTORS. KENNETH B. NOBLE, Hartford, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed June 5, 1925. Serial No. 35,196. 2 Claims. (Cl. 188—184.)



1. A governor comprising a housing and a motor shaft relatively removable, a plurality of counterweights supported and relatively movable with respect to said shaft and adapted to make contact with said housing substantially entirely around its inner surface, and a single resilient split ring secured at diffeernt points thereon to said weights to control the action of the latter under centrifugal force.

1,665,715. COMPASS INDICATOR FOR AUTOMOBILES, ETC. OLE P. NOISOM, South Bend, Ind. Filed May 8, 1926. Serial No. 107,566. 4 Claims. (Cl. 33—222.)



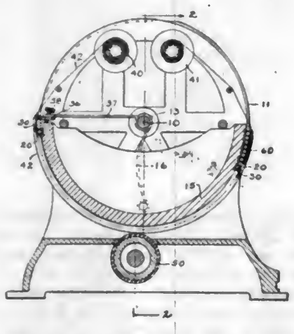
1. In direction indicators, a two part casing, a glass covering supported between the two parts of the casing, a magnetic needle pivotally positioned between the casing and the glass cover, and impressed indications on the casing.

1,665,716. DAMPER. THOMAS OLINGER, Holland, Mich., assignor to Federal Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed Jan. 17, 1927. Serial No. 161,499. 9 Claims. (Cl. 126—292.)



1. A damper comprising, a circular disk of sheet metal, two members of like construction located at one edge of the disk, each including a semi-cylindrical section with oppositely extending wings at its inner end, said wings lying against opposite sides of the damper disk and being permanently secured thereto, and said sections fitting together and forming a tubular outwardly extending stem, substantially as described.

1,665,717. CHANGEABLE PRINTING DEVICE. JOHN C. OSBORNE, Berlin, Germany, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 5, 1927. Serial No. 188,972. 9 Claims. (Cl. 101—52.)



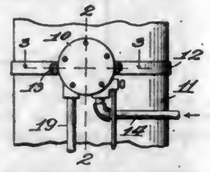
4. In a changeable printing form, the combination of a holder comprising a plate with intermediate raised bed and inwardly turned edge flanges some distance beyond the extreme edge of the bed, and a pair of rails with laterally extending bottom portions secured to the under side of said plate.

1,665,718. EXPANSION-JOINT MATERIAL. CARL J. PATER, Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed June 14, 1920. Serial No. 388,987. 7 Claims. (Cl. 94—18.)



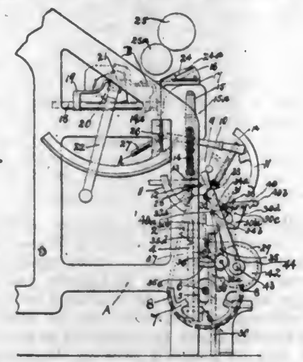
1. An expansion joint formed of a body of bituminous material and a body of harder bituminous material than said first mentioned body, forming a surface for said joint.

1,665,719. THERMOSTAT. LOUIS W. SCHNEPP, San Bernardino, Calif. Filed Apr. 11, 1927. Serial No. 182,775. 5 Claims. (Cl. 297—11.)



1. A thermostat comprising a dished rigid disk, a disk of resilient metal having its edge firmly secured to the edge of the rigid disk, which resilient disk is normally dished against said rigid disk and a hollow member projecting outwardly from the central portion of the rigid disk on the convex surface thereof.

1,665,720. DOFFING MECHANISM FOR CAP SPINNING, DOUBLING, AND LIKE MACHINES. ALFRED STELL, Ingrow, Keighley, JOHN STELL, Browfield, Keighley, and HENRY WELCH, Keighley, England. Filed June 17, 1927. Serial No. 199,604, and in Great Britain May 17, 1926. 5 Claims. (Cl. 118—18.)



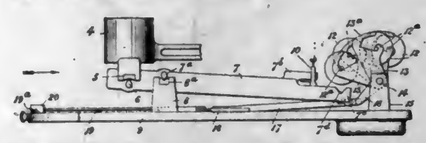
1. In doffing mechanism for cap spinning machines, a vertically movable spindle rail, means for actuating said spindle rail, spindles fixed upon said spindle rail, a lifter plate taking over said spindles, wharles mounted upon said spindles, bobbins supported and operated by said wharles, caps mounted upon the upper ends of said spindles, each of said caps having a lateral flange formed upon it, means for engaging said flange to support the cap, devices for actuating said means, members for engaging the lower ends of the bobbins within the caps and means for operating said members, two series of pegs for receiving the full and empty bobbins, a rail mounted upon lever arms supporting one series of pegs, an oscillating shaft supporting the second series of pegs, a lever fixed to said shaft, a slotted connecting link coupling the lever supporting the first rail to the lever fixed upon said shaft, means for actuating said levers, bearings upon which said levers and the shaft are pivoted, and means for raising and lowering said bearings for the purpose described.

1,665,721. PROFILE GAUGE. RICHARD A. STOCKTON, Beverly, Mass. Filed Aug. 8, 1925. Serial No. 49,008. 4 Claims. (Cl. 33—175.)



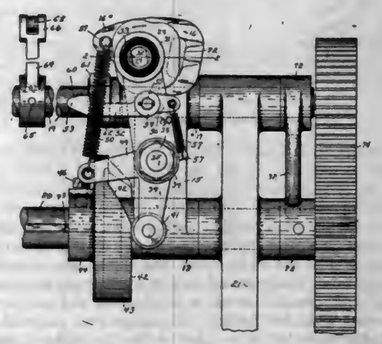
1. A profile gauge comprising a pair of alined and relatively slidable rules, a holder attached to each rule, a plurality of superposed slidable strips surrounding each holder, and a clamp mounted on each holder and bearing against the uppermost strip.

1,665,722. AUTOMATIC OR SEMIAUTOMATIC WEIGHING APPARATUS. WILLIAM TIMSON, Soho Foundry, Birmingham, England, assignor to W. & T. Avery, Limited, Birmingham, England. Filed June 8, 1926, Serial No. 114,429, and in Great Britain May 4, 1926. 4 Claims. (Cl. 265—48.)



1. A weighing apparatus comprising a rotatable spindle, a plurality of jaws secured on said spindle at varying angles, a plurality of weights adapted to be carried in their non-acting position by said jaws, a scale lever, a plurality of jaws on said scale lever for receiving said weights and means for rotating the said spindle whereby the weights may be deposited or removed from the scale lever.

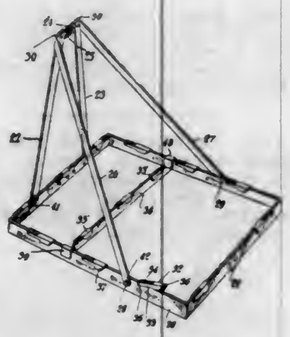
1,665,723. AIR-CONTROL DEVICE FOR AIR-OPERATED SHEET-FEEDING MECHANISMS. CHARLES W. TREMPER, New Haven, Conn., assignor to The Tremper-Shields Co., New Haven, Conn., a Corporation. Filed July 7, 1927. Serial No. 203,971. 7 Claims. (Cl. 271—26.)



1. An air-control device for air-operated sheet-feeding mechanisms, comprising a main air-pipe, an extension air-pipe, a valve-member connected with the said main

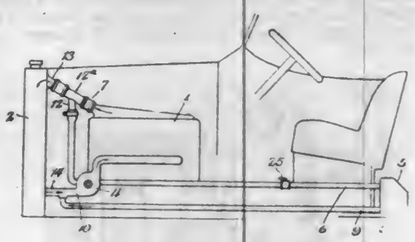
air-pipe, a valve-member connected with the said extension air-pipe, each of the said valve-members having an air-port, and one being movable with respect to the other, means for operating the movable valve-member for registering and de-registering the said air-ports, whereby the main air-pipe is sealed to the atmosphere and the extension air-pipe is opened thereto, and a detent for holding the said movable valve-member with its air-port out of registration with the air-port of the other member, the said detent operating only at one point and that at the completion of any one cycle of the operation of the device.

1,665,724. BAG HOLDER AND SPREADER. WILLIAM P. WAY, Richmond Hill, N. Y. Filed Feb. 12, 1927. Serial No. 167,733. 10 Claims. (Cl. 83—26.)



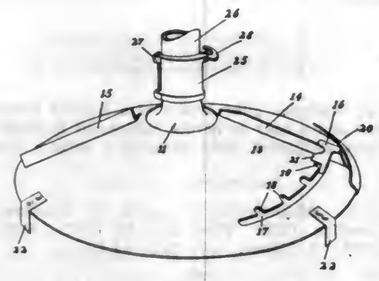
1. A device of the class described, comprising a substantially rectangular bag holding frame having two ends and two opposing sides, and a movable member adapted to bridge the space between said sides at various distances from said ends in order to adjust the size of the frame portion delimited thereby.

1,665,725. AUTOMOBILE HEATER. ELIZABETH AEBY, Indiana Harbor, Ind., assignor to Louis Aeby, East Chicago, Ind. Filed Mar. 11, 1922. Serial No. 542,882. 2 Claims. (Cl. 123—174.)



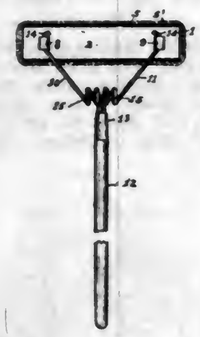
1. In combination with a motor vehicle, a radiator, a pump and a heater in the body, two liquid circuits in both of which the motor and the pump are contained, one containing the radiator and the other containing the heater, said circuits being connected on the outlet side of the motor jacket between the same and the radiator, and a spring-seated valve device in the radiator circuit between said connection and the radiator, adapted to yield to predetermined pressure, and in case of less pressure to exclude the circulating liquid from the radiator circuit and to limit it to the heater circuit.

1,665,726. POST-BASE TRIMMER. HARRIET O. ALLISON, Charlotte, N. C. Filed June 8, 1926. Serial No. 113,482. 6 Claims. (Cl. 72—128.)



1. In a device for forming the upper surface on a concrete base for posts and the like, a funnel-shaped member having a hole in its center adapted to receive a post, handle members secured to the funnel-shaped member for reciprocating the same around the post as a center.

1,665,727. CLEANING APPARATUS. JOHN S. CAMPBELL, Pittsburgh, Pa. Filed Feb. 21, 1927. Serial No. 169,779. 1 Claim. (Cl. 15—209.)

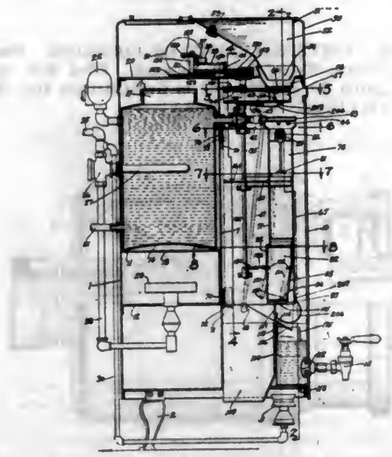


In combination a cleaning apparatus of the character described comprising a rectangularly shaped sheet metal holder including a back wall, a cleaning element removably mounted in said holder, said holder provided with a pair of lugs stamped from the said back wall thereof and disposed adjacent to respective ends of said holder, an operating handle, a pair of supporting arms having their rearward ends permanently fixed in the forward end of said handle, the forward ends of said pair of arms detachably respectively engaging said pair of lugs, the rearward end portion of each of said pair of arms being formed to provide a spring for maintaining said pair of arms in engagement with said lugs, said spiral springs further permitting varied tensional adjustment of said carrier relatively to said operating handle.

1,665,728. COFFEE-MAKING APPARATUS. BRUCE W. CANRIGHT, St. Paul, Minn., assignor of one-half to Ira E. Meagher, Minneapolis, Minn. Filed Dec. 19, 1927. Serial No. 241,124. 13 Claims. (Cl. 58—3.)

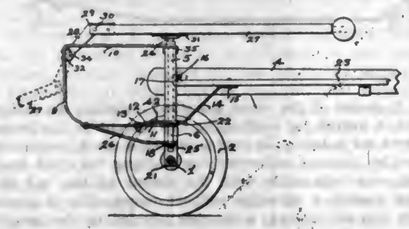
1. An apparatus for making coffee comprising a ground-coffee supply hopper having a valve for controlling discharge therefrom, a charge measuring chamber arranged

to receive dry coffee from the hopper and having a discharge control valve, an extraction chamber arranged to receive a charge released from the measuring chamber and having a valve to control discharge therefrom, means



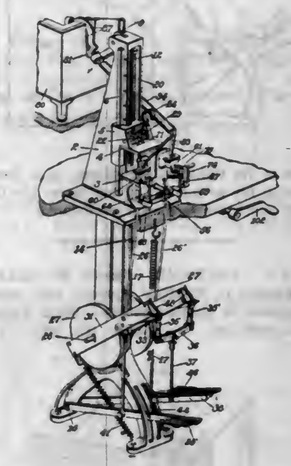
for delivering hot water within the extraction chamber including a valve, a drain receptacle arranged to receive a charge delivered from the extraction chamber and having a pivoted perforated bottom as a drain, said drain receptacle being supported to move to a dumping position, means for holding the bottom in closed position when the drain receptacle is in charge-receiving position, and arranged to release the bottom as the receptacle moves to dumping position, and means connected to operate the valves and drain receptacle in timed relation to close the measuring chamber valve, bring the drain chamber to charge-receiving position, open the hopper and extraction chamber valves and then cause a dwell of these elements in respective positions for a predetermined time, and afterwards close the extraction chamber and hopper valves, open the measuring chamber valve, open the hot water valve, move the drain receptacle to dumping position, and then cause a dwell of these elements for a timed period, the arrangement being such that the timing mechanism opens the water valve for a fraction of the period in which the charge is held in the extraction chamber and at the beginning of that period and after delivery of the charge.

1,665,729. COASTER-WAGON STEERING GEAR. ARTIE C. CARLSON, Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and Harold H. Rockwell as trustees. Filed Aug. 21, 1924. Serial No. 733,352. 16 Claims. (Cl. 280—87.5.)



2. In coaster wagons, a body having a front piece, a king pin mounted on the front piece, front wheel suspension means carried by the lower end of the king pin, a perforated plate secured to the body bent downward to pass beneath the front piece through which the king pin passes, a steering frame attached to the king pin below the perforated plate and also to said pin above the front piece, and a steering handle pivoted to the steering frame in such position that when the handle is in an approximate horizontal position it will be supported by the upper end of the king pin.

1,665,730. MACHINE FOR BUNDLING PAPER CURRENCY. FRANK W. CHASE, Melrose, Mass., assignor to Weldfast System, Inc., Salem, Mass., a Corporation of Massachusetts. Filed Feb. 1, 1922. Serial No. 533,474. 24 Claims. (Cl. 100—31.)



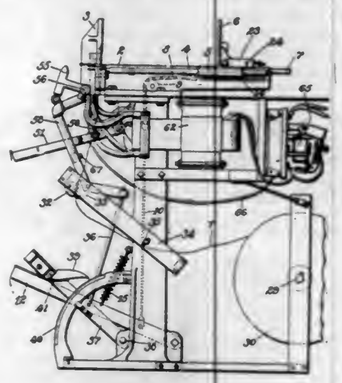
2. In a machine for bundling paper currency, the combination of mechanism for compressing a stack of said currency, mechanism for tightening a binder about said stack while the stack is held compressed, and means for delivering a quantity of melted sealing material to overlapping portions of the binder to secure the binder in its tightened condition.

24. In a machine for bundling currency, the combination of mechanism for compressing a stack of currency, means for anchoring one end of a metal tape at a point closely adjacent to said stack with said tape looped about the stack, mechanism for tightening said tape about said compressed stack with portions of said tape overlapping each other, means for sealing the overlapping portions of said tape together in their tightened condition, and means for laterally withdrawing the anchoring means from under said binder after the sealing operation has been completed.

1,665,731. MACHINE FOR BUNDLING CURRENCY. FRANK W. CHASE, Melrose, Mass., assignor to Weldfast System, Inc., Salem, Mass., a Corporation of Massachusetts. Filed Feb. 21, 1923. Serial No. 620,371. 22 Claims. (Cl. 100—31.)

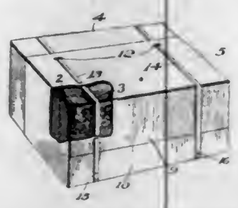
21. In a bundling machine, the combination of mechanism for compressing a stack of material to be bundled, means for anchoring one end of a metal tape at a point closely beside said stack with said tape movable about said stack, mechanism for tightening said tape closely around said compressed stack, with portions of said tape overlapping each other, and means for electrically welding overlapping portions of the tape together while the tape is so tightened, comprising an electrode located adjacent to said anchoring means where the binder is drawn

over it as the binder is tightened and a second electrode movable into and out of position to cooperate with the first electrode in welding portions of said binder together



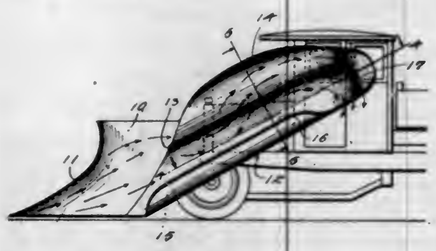
to secure it in its tightened condition, said first electrode being mounted for withdrawal from under the binder after the welding operation has been performed.

1,665,732. PACKAGE. FRANK W. CHASE, Melrose, Mass., assignor to Weldfast System, Inc., Salem, Mass., a Corporation of Massachusetts. Filed June 16, 1923. Serial No. 645,746. 5 Claims. (Cl. 100—14.)



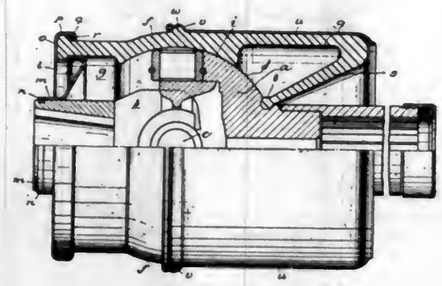
1. An article of the character described comprising a stack of material, an outer cover for said stack, and a metallic binder tightly encircling said stack and cover and holding said stack under compression, said binder extending through a perforation in said cover and having one end lying substantially against the cover and the other overlapped upon it and sealed to it by a fused metallic union.

1,665,733. SNOWPLOW. CLARENCE W. CLARK, Ashland, Wis. Filed Feb. 12, 1927. Serial No. 167,804. 4 Claims. (Cl. 37—44.)



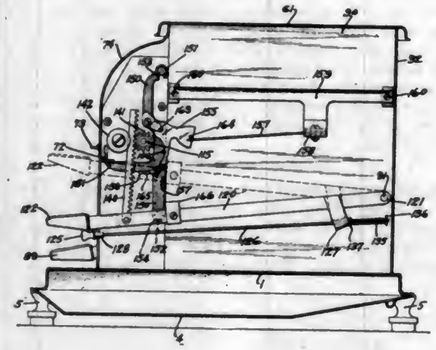
1. A snow plow having rearwardly divergent, upwardly and rearwardly inclined mold boards and chutes extending upward and rearward from the rear edges of the mold boards, the bottom and inner wall of each chute for substantially the entire length of the chute being curved transversely so as to provide a hood extending over and forming a continuation of the chute and the rear end wall of each chute being laterally curved.

1,665,734. UNIVERSAL JOINT OR COUPLING. HERBERT CLARK, Wylde Green, England. Filed Mar. 28, 1927, Serial No. 178,958, and in Great Britain Dec. 28, 1926. 6 Claims. (Cl. 64—89.)



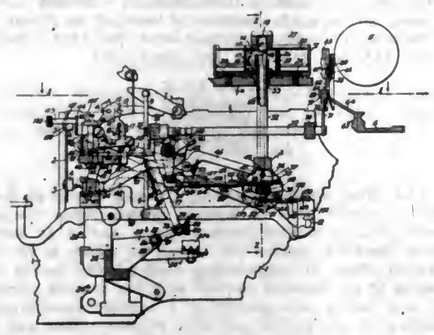
1. A cover for a universal coupling between two shafts comprising a flexible seamless and jointless casing moulded from flexible material having a central portion fitting closely around the coupling, annular pockets on each side of the central portion to receive lubricant, and means adapted to engage the coupling members and thereby close said pockets.

1,665,735. BREAD TOASTER. THOMAS C. FORBES, Hopkins, Minn., assignor to Waters-Genter Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 5, 1927. Serial No. 159,129. 16 Claims. (Cl. 219—19.)



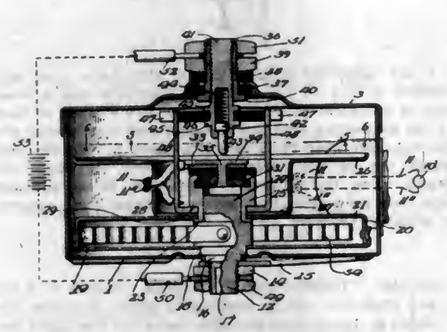
1. A device of the class described including an electric heater, a switch for controlling the current to the heater, a detent for holding the switch closed, a clock mechanism, a movable element connected for winding the clock mechanism, and engageable with the detent at the end of a timing period, a movable support engageable to prematurely trip the detent, a member pivoted to the movable support, and a thermostatic element controlled by the heater temperature and arranged to move the pivoted member to interpose the same in the path of the movable winding element.

1,665,736. TYPEWRITING MACHINE. GEORGE G. GOING, Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company, a Corporation of New York. Filed Sept. 30, 1925. Serial No. 59,623. 35 Claims. (Cl. 197—151.)



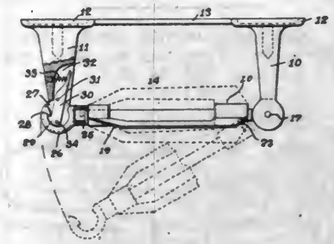
1. In a typewriting machine, the combination of ribbon spools, a ribbon driving shaft therefor, a ratchet wheel operatively connected with said shaft, a pair of pawls constantly engaged with said ratchet wheel, printing key levers, type bar actuating devices connected with said levers, a universal bar operative by certain of said devices, a rock shaft connected with said universal bar, a crank arm on said rock shaft, and a pawl carrying member pivotally connected directly to said crank arm and carrying said pair of pawls.

1,665,737. AUTOMATIC SWITCHING-CORD REEL. JAMES J. GOUGH, Chicago, Ill., assignor to Chicago Electric Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1925. Serial No. 66,726. 12 Claims. (Cl. 200—153.)



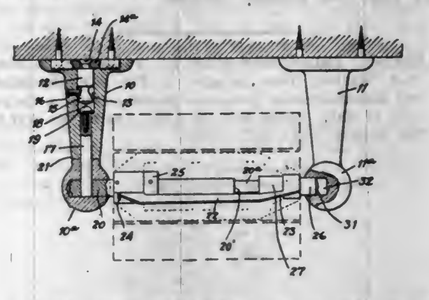
1. The combination with a rotatable reel, of a conductor wound thereon, a terminal connected to one end of the conductor, a stationary circuit terminal spaced from the conductor terminal transversely of the reel, a switching member threaded on one of the terminals on an axis identical with that of the reel and extending transversely of the reel toward the other terminal, the other terminal having a contact face adapted to be engaged by the switching member; and means fast with respect to the said other terminal and engaging the switching member whereby a rotation of the reel rotates the switching member so as to cause the switching member to move towards or away from the said contact face; the switching member including a metal body portion threaded on the said one of the terminals and a spring-pressed plunger carried by and projecting beyond the said body portion toward the said contact face.

1,665,738. HOLDER FOR PAPER ROLLS. JOSEPH A. HOEGGER, Jersey City, N. J. Filed May 8, 1925. Serial No. 28,944. 3 Claims. (Cl. 242—55.2.)



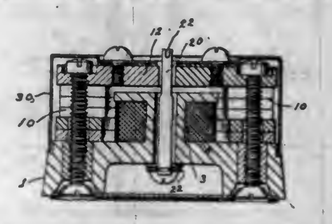
1. A roll holder of the kind described comprising a pair of permanently spaced immovable arms, a rigid shaft hinged to the outer end of one of said arms, said shaft having at its free end a hook which engages in a slot of the second arm, a latch pivoted in the slot of the second arm and engaging the aforesaid hook, and key actuated means for releasing the latch.

1,665,739. PAPER HOLDER. JOSEPH A. HOEGGER, Jersey City, N. J. Filed July 28, 1925. Serial No. 46,625. 3 Claims. (Cl. 242—55.2.)



1. A paper holder comprising a pair of posts having rounded outer head portions one of which has a socket and the other of which is held to turn on the body of the post, a pintle held in the second mentioned post and extending into the aforesaid turning head, and a paper holding member entering the turning head and connecting with the pintle, said member having slidably mounted in its free end a slide bolt to enter the aforesaid socket.

1,665,740. MAGNETIC SOUND-REPRODUCING DEVICE. ZAY JEFFRIES, Shaker Heights, Ohio, assignor to The Cleveland Trust Company, trustee, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 6, 1924. Serial No. 742,078. 1 Claim. (Cl. 175—345.)



In an electrically operating sound producing device, the combination of means for creating a magnetic field comprising opposed magnetic poles and an adjacent

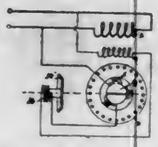
coil, a vibrating reed projecting through said coil and disposed between said poles, said reed consisting of an alloy of nickel and iron of preferably of only somewhat less nickel than iron.

1,665,741. ARCH-SUPPORTING SHOE. JOHN JONES, Wilkes-Barre, Pa. Filed May 31, 1927. Serial No. 195,349. 2 Claims. (Cl. 36—71.)



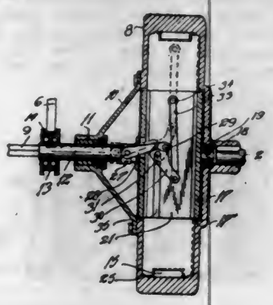
1. An arch supporting shoe, comprising an upper provided with a welt, an insole, a spring shank stiffener secured directly to the insole and arranged on the longitudinal center line of the shoe, a packing piece arranged under the shank stiffener and extending under the shank and heel portions of the insole for their full width and having a projecting tongue at one side arranged in line with the big toe portion of the shoe, said packing piece being beveled at each side and at its ends, granular packing under the remaining front portion of the insole, and an out sole secured to the welt under the said packing piece and granular packing.

1,665,742. INDUCTION MOTOR. FREDERICK S. KINGSTON, Warren, Ohio, assignor to The Sunlight Electrical Manufacturing Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 28, 1927. Serial No. 187,151. 14 Claims. (Cl. 172—278.)



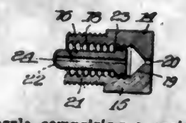
1. An induction motor, having a starting winding, an electro-magnetic clutch having an energizing winding, and means responsive to the motor speed for de-energizing both of said windings after the motor has been started.

1,665,743. HYDRAULIC TRANSMISSION MECHANISM. MERRITT A. KNAPP, Rosalia, Wash. Filed Nov. 17, 1926. Serial No. 148,915. 3 Claims. (Cl. 192—58.)



1. The combination with a hollow fly wheel having a series of fins terminating short of the side walls of said wheel, of a rotary driven head journaled in said wheel, and a plurality of radially extensible blades having notched ends carried by said head for frictional engagement with said fly wheel.

1,665,744. FACE-SPRAYING DEVICE. MARGOT LANDBERG, Chicago, Ill., assignor of one-half to Justus P. Seeburg, Chicago, Ill. Filed Nov. 15, 1926. Serial No. 148,570. 2 Claims. (Cl. 299—115.)



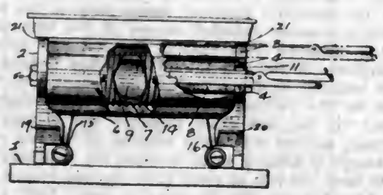
1. A spray nozzle comprising a casing having an inlet and an outlet and an internal spiral groove therebetween, and a member in said casing having an externally threaded portion the thread of which is of triangular shape in cross-section, said member loosely engaging at its threaded portion with the grooved portion of said casing and containing a passage therethrough opening at one end to the inlet of said casing and at its other end in communication with the outlet of said casing.

1,665,745. SAXOPHONE CORD. ALBION SLAYTON LANG, Jamaica Plain, Mass. Filed Dec. 17, 1926. Serial No. 155,432. 5 Claims. (Cl. 224—5.)



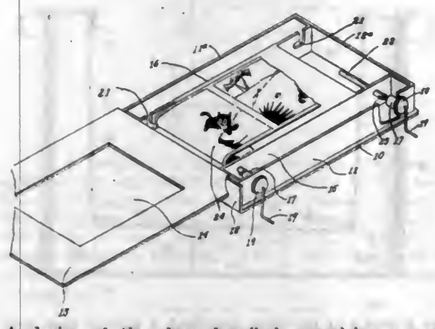
1. An adjusting member for a saxophone cord, said member having an upper pair of apertures and a lower pair of apertures through which the two strands or leads of the supporting cord are threaded and also having projections extending from opposite faces to provide rests which the operator may hold between his finger and thumb when the adjusting member is to be adjusted, said rests preventing the finger and thumb from applying a gripping pressure on the strands.

1,665,746. CURLING-IRON HEATER. HENRI G. LEVY, San Francisco, Calif., assignor to Mono Abramson and Henri G. Levy, doing business under the firm name and style of Electric Manufacturing Company, San Francisco, Calif. Filed Mar. 7, 1924. Serial No. 697,451. 2 Claims. (Cl. 219—22.)



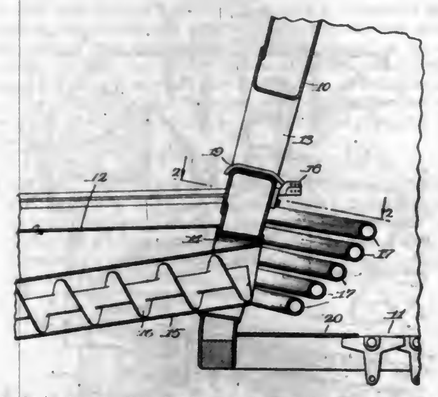
1. In a heating device of the class described, the combination of a main heating compartment for receiving and heating a device to be heated, an auxiliary heating compartment associated in heat absorbing relationship with said main heating compartment for receiving the device and maintaining the heated condition thereof, and a single heater for both of said compartments, said heater being disposed in the main heating compartment and heating said main compartment to a higher temperature than said auxiliary compartment so that the temperature of the device may be maintained in the auxiliary compartment without overheating the device.

1,665,747. MOVING-PICTURE BOOK. RICHARD A. LOEDERER, New York, N. Y. Filed Apr. 11, 1927. Serial No. 182,596. 1 Claim. (Cl. 40—86.)



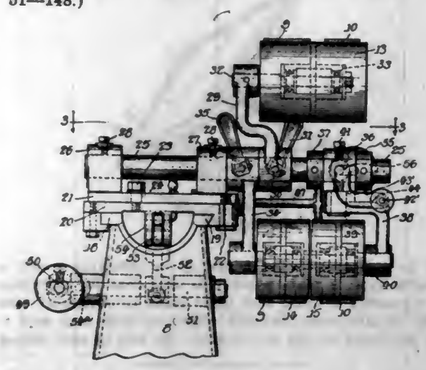
A device of the class described comprising a case, shafts rotatably mounted in said case, a strip bearing pictured representations having its ends attached to said shafts and adapted to be wound or unwound on said shafts, a stud in the wall of the case adjacent the end of each shaft, said studs having bores passing therethrough, a spindle passing through and rotatable in each stud bore, a handle on one end of said spindle, the other end of said spindle being enlarged into a loop, the end of said shaft being slotted, said loop engaging said slotted end of the shaft.

1,665,748. LOCOMOTIVE STOKER. NATHAN M. LOWER and EDWIN ARCHER TURNER, Pittsburgh, Pa., assignors to Locomotive Stoker Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 25, 1926. Serial No. 111,551. 9 Claims. (Cl. 122—4.)



1. In a locomotive fire-box, a hollow backhead having an aperture adjacent the grate, a fuel delivering conduit discharging through such aperture, a U-shaped wall formed of tubes having their ends in communication with the chamber of the backhead and inclosing the aperture, and means above the wall for projecting fuel thereover upon the grate.

1,665,749. DOUBLE-BELT SANDER. CARL LAWRENCE MATTISON, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Mar. 24, 1924. Serial No. 701,275. 15 Claims. (Cl. 51—148.)



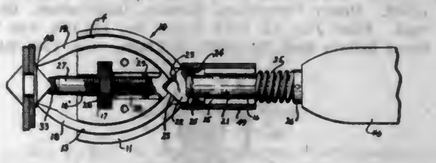
14. In a belt sanding machine, the combination with an idler pulley, means for supporting said pulley comprising a shaft, a head mounted to turn on said shaft, said head carrying a stud perpendicular to said shaft, an L-shaped bracket having one leg thereof pivoted on said stud, and a shaft mounted in the other leg of said bracket with its axis intersecting that of the said stud, said second shaft being adapted to support the pulley, and means for adjusting said bracket with respect to said head head.

1,665,750. CAP ATTACHMENT FOR VISORS. MARIE MCKEE, Garden Home, and CHARLES A. ROACH, Portland, Oreg., assignors of one-third to Frank E. Walling, Portland, Oreg. Filed Aug. 15, 1927. Serial No. 212,980. 1 Claim. (Cl. 2—176.)



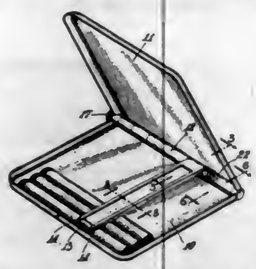
The combination of a head band; strap means for holding same in position around the head of the wearer; a visor at the forward end of said band; a head piece above said visor; a foldable head covering mounted on said visor at the lower edge of said head piece; a yieldable wire band around the rear edge of said head covering hinged to the sides of said head band; and means for securing said wire to the rear portion of said head band.

1,665,751. RIVET-FINISHING TOOL. BERTRAM NEILL, Borger, Tex. Filed Mar. 24, 1925, Serial No. 17,898 Renewed Aug. 25, 1927. 6 Claims. (Cl. 78—47.)



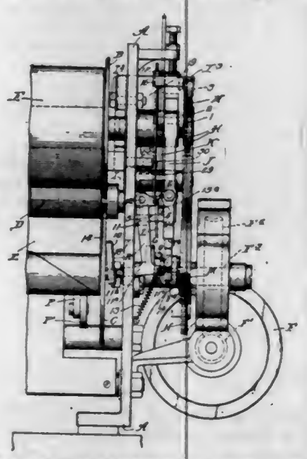
1. A rivet finishing tool comprising a frame provided with grooved guideways, a pair of reciprocable impact members mounted in said guideways adapted to contact with the surface of a rivet head, and means to actuate said members.

1,665,752. CIGARETTE CASE. JOHN PARSONS, Newton Center, Mass. Filed May 29, 1926. Serial No. 112,480. 9 Claims. (Cl. 206—41.)



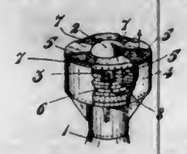
3. In a cigarette case, a casing for receiving a roll of abrasive tape, a plate pivoted to said case for maintaining cigarettes therein, said plate being in alinement with a slot in said casing through which the tape may pass to said plate and means for rotating the roll in said casing.

1,665,753. BRAKE DEVICE. OSCAR PETERSON, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed July 20, 1925. Serial No. 44,767. 3 Claims. (Cl. 84—134.)



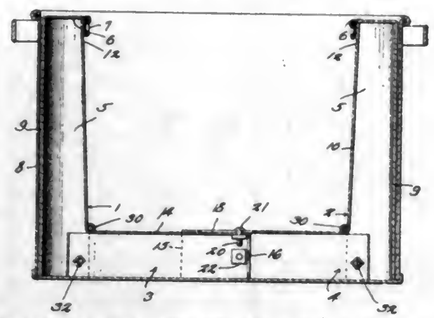
1. In means of the character set forth, a reversible motor, a contact-carrying bar, a rock-frame on which said bar is mounted equipped with an actuating arm, means driven by said motor for lifting said actuating arm, a braking device co-acting with the take-up roll of the mechanism, a spring normally tending to apply said braking device and retracting means for said braking device actuated by the actuating arm of said rock-frame.

1,665,754. SPARK ARRESTER FOR CUPOLAS OR THE LIKE. PERCY PRITCHARD, Moseley, Birmingham, England. Filed July 13, 1926, Serial No. 122,198, and in Great Britain Sept. 28, 1925. 1 Claim. (Cl. 183—94.)



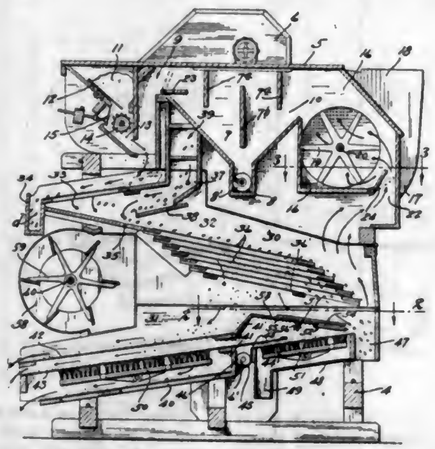
A spark arrester comprising a cover sealing the top of a chimney, an annular member located around the chimney comprising a wall spaced from the chimney, and having a bottom passing from the wall to the chimney, radial walls dividing the annular member into compartments, such walls passing to a short distance from the said bottom, roofs for the top of each alternate compartment, said chimney having ports leading into the upper end of each said alternate compartment provided with a roof, whereby gases will pass into the roofed compartments and then under the radial walls into the other compartments.

1,665,755. WASHBOILER. TERRENCE W. STAFFORD, San Francisco, Calif. Filed Nov. 23, 1926. Serial No. 150,277. 1 Claim. (Cl. 68—30.)



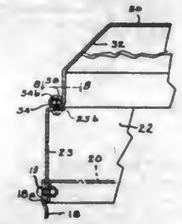
In a device of the class described, a pair of base members, upstanding tubular arms at the outer ends of the base members, hinges connecting the arms with the base members, securing devices connecting the lower ends of the arms with the base members, releasably, to prevent the base members and the arms from having relative movement on the hinges, and a bolt and slot connection between the inner ends of the base members, whereby the base members may be adjusted minutely, with respect to each other, thereby to permit the arms to be disposed closely adjacent to the ends of a boiler.

1,665,756. GRAIN SEPARATOR. CLARENCE T. THORBUS, Minneapolis, Minn., assignor to Richardson Grain Separator Co., Minneapolis, Minn. Filed June 12, 1924. Serial No. 719,522. 11 Claims. (Cl. 209—361.)



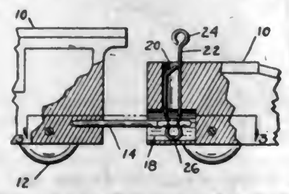
1. In a separator of the kind described, the combination with a gang of vibratory sieves, of upper and lower grading screens below said gang, a repeat screen underlying said gang of sieves, and an adjustable repeat board between said gang of sieves and said repeat screen, operative to vary the extent of the delivery to said upper and lower grading screens of material passed through said gang, said lower grading screen having an imperforate receiving section extended under said adjustable repeat board.

1,665,757. STOVE CONSTRUCTION. ALBERT H. TINNERMAN, Cleveland, Ohio. Filed Apr. 3, 1925. Serial No. 20,359. 8 Claims. (Cl. 126—301.)



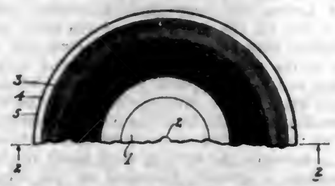
1. In a canopy structure for a stove of the character described the combination of a top member having flaring sides terminating in a continuous vertical flange, a bead structure formed around the marginal edges of said flange on three sides thereof and a horizontally extending projection along the back of said flange and end panel members formed to provide a suitable support for the bead.

1,665,758. TOY TRAIN COUPLING. FRANKLIN S. UPHAM, Des Moines, Iowa. Filed Apr. 16, 1927. Serial No. 184,856. 5 Claims. (Cl. 280—33.15.)



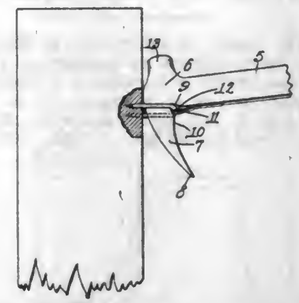
1. A toy train coupling comprising a plurality of cars, a hook member connected to one end of each of said cars, each hook member having an eye therein arranged substantially horizontal, the other end of each of said cars having a vertical bore and a horizontal bore therein communicating with each other, said hook member having the eye portion thereof arranged to be received in said horizontal bore and means frictionally mounted in said vertical bore adapted to project through the eye of said hook member, said means having an enlarged portion adapted to project below the eye of the hook member.

1,665,759. PHONOGRAPH RECORD AND METHOD OF MAKING THE SAME. ANTHONY J. VARSELLI, Newark, N. J., assignor, by mesne assignments, to Columbia Phonograph Company, Bridgeport, Conn., a Corporation of New York. Filed Apr. 22, 1926. Serial No. 103,758. 11 Claims. (Cl. 18—48.3.)



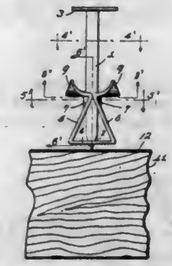
1. A phonograph record of the character described having an enlarged rim with a knurled transverse edge.

1,665,760. FENCE TOOL. KEITH J. VAUGHT, San Diego, Calif. Filed Mar. 30, 1927. Serial No. 179,606. 3 Claims. (Cl. 254—28.)



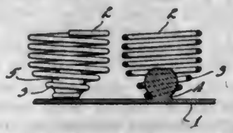
1. A tool of the class described including a handle, a head at one end of the handle, said head including a finger tapered to a fine point, said head having a recess adjacent to the handle to receive a staple, and means overlying the recess for holding a staple in the recess.

1,665,761. WIRE FASTENER. GEORGE F. VOIGHT, Oakland, Calif., assignor to Economy Products Corporation, a Corporation of California. Filed Jan. 25, 1926. Serial No. 83,755. 8 Claims. (Cl. 72—118.)



3. In means of the character described, a spacing element formed of a strip of flat metal and comprising a base plate adapted to seat against a support, said base plate having an opening in its midpart, and a cooperable nail projecting into said opening, the opposed ends of said base plate terminating in upwardly extending inwardly inclined side supports with their upper ends adjacent said nail, the upper end of one of said side supports being provided with an outwardly extending wire support.

1,665,762. WELDED SPRING PAD AND METHOD OF MAKING THE SAME. CHARLES E. WARRAM, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Jan. 23, 1926. Serial No. 83,277. 7 Claims. (Cl. 29—173.)



1. The method of securing a spring with tapering end coils to a base plate, consisting in applying within the tapering end coils a member having a convex curved lower surface, adapted to engage said coils and permanently securing said member to the plate.

4. A spring pad, comprising a metal base plate, and a series of springs secured thereto, each spring having

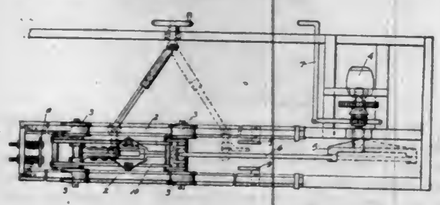
tapering terminal convolutions, and a member within said convolutions and permanently secured to the plate and having a curved lower surface beneath which said tapering spring convolutions are engaged.

1,665,763. SHOE OR BOOT. ELI H. WIEL, San Francisco, Calif., assignor to Buckingham & Hecht, San Francisco, Calif., a Corporation of California. Continuation in part of application Serial No. 534,092, filed Feb. 4, 1922. This application filed June 30, 1923. Serial No. 648,660. 1 Claim. (Cl. 36—45.)



A boot or shoe having a two piece vamp secured together by a flat seam, a separate exterior reinforcing strip stitched along its edges to the two pieces along opposite sides of said seam, said strip being U-shaped in cross section whereby a thickened vamp portion is formed along the line of junction of the two vamp pieces to reinforce the vamp, and a cord threaded within said U-shaped strip.

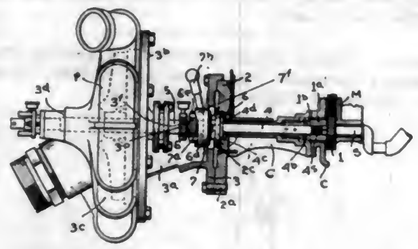
1,665,764. PUNCTURING MACHINE. ALLEN B. YORK, Sandpoint, Idaho, assignor to Malvern L. Bruce, Sandpoint, Idaho. Filed June 4, 1927. Serial No. 196,622. 5 Claims. (Cl. 144—2.)



1. In a pole perforating machine the combination with a reciprocable carriage and tool holder, and a reciprocable tool in the holder, of an extensible, sectional, and flexible shaft normally disposed perpendicular to the line of travel of the carriage and means actuated thereby for adjusting the tool holder relatively to the carriage, said shaft having a non-traveling portion, and means for operating the shaft.

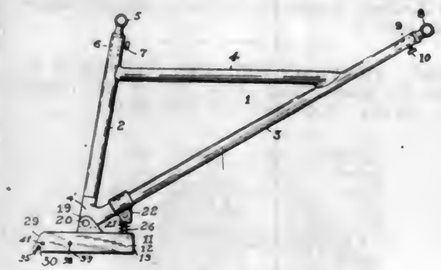
1,665,765. PUMP ATTACHMENT FOR MOTOR VEHICLES. BEN D. BARTON, Battle Creek, Mich., assignor to American Steam Pump Company, Battle Creek, Mich., a Corporation of Michigan. Filed Feb. 15, 1926. Serial No. 88,421. 13 Claims. (Cl. 180—53.)

1. The combination in a structure of the class described, of a chassis, a driving shaft carried by the chassis, a supporting bracket mounted on the chassis, a centrifugal pump detachably secured to said bracket, a coupling shaft interposed between the driving shaft and pump shaft to transmit motion from the former to the latter, clutch means for connecting the coupling shaft to the driving shaft, spring means for disengaging said clutch means when the supporting bracket is removed or when the clutch means permits; a sleeve on said pump shaft, means for interlocking the sleeve and coupling shaft when the pump is attached to the bracket, cam-means for moving the sleeve to cause the engagement or disengagement of the said clutch at will, and means



for engaging the sleeve and pump shaft to prevent further longitudinal inward movement of the sleeve on the shaft when the clutch is engaged, whereby end thrust of the pump is transmitted through the sleeve to the pump bracket.

1,665,766. FLOOR SCRAPER. NICKOLAUS BINGER, Pittsburgh, Pa. Filed Mar. 11, 1925. Serial No. 14,676. 1 Claim. (Cl. 145—48.)

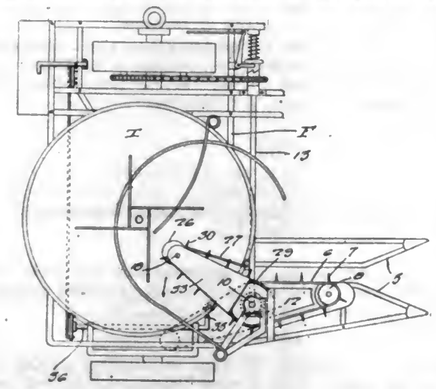


In a floor scraper a manually slidable shoe including a body portion having side walls and a top and bottom, an upstanding partition formed integral with said side walls at the rear ends of said top and bottom, a pair of oppositely extending inclined plates merging into each other at the tops thereof, formed integral with said side walls rearwardly of said partition and one arranged in advance of the other, the forward plate spaced from said partition and the lower part of the rear plate extended and spaced from the rear ends of said sides, and a surface working tool clamped to the forward face of each of said plates.

1,665,767. SWINGING CARRIER FOR CORN SHOCKERS. FRANK T. BOOKMYER, Marion, Ohio. Filed Mar. 20, 1925. Serial No. 17,000. 1 Claim. (Cl. 56—71.)

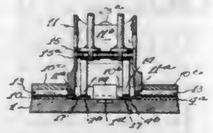
A swinging carrier for corn shockers comprising a vertical shaft adapted to be journaled in the frame of the shocker, a pair of shafts mounted in spaced relation on the vertical shaft, a rectangular plate between the intermediate portions of the carrier in spaced relation to the shaft, and having its longitudinal dimension vertically disposed, a rail on the upper end of the plate and extending beyond both sides thereof, a second rail on the lower end of the plate and extending beyond both sides thereof, said rail being disposed horizontally, bearings on the forward ends of the rails for receiving the vertical shaft, a bracket extending from the plate and terminating in a bearing for receiving the vertical shaft between the sprockets, a collar on the vertical shaft below the bearing of the bracket, a sprocket journaled on the other end of each rail, chains trained over the sprockets on the brackets and the sprockets on the vertical shaft, spikes

extending from the chains, means for urging the free ends of the rails toward the center of the table of the



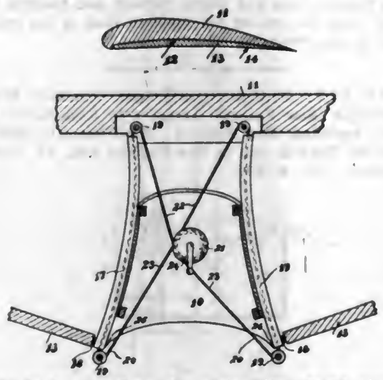
shocker, and a spring adapted to be mounted on the shocker for urging the stalks in engagement with the spikes and the chain.

1,665,768. ELECTRIC IRON. GEORGE BROWNING, Wilmette, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1925. Serial No. 50,368. 8 Claims. (Cl. 219—25.)



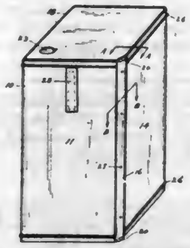
1. An electric laundry iron and the like having a base member with the smoothing face comprising integrally an upper and a lower portion, said base member being slotted edgewise parallel to the smoothing face inward from the front end, and from the opposite longitudinal sides forming between said upper and lower portions a horizontally extending pocket for the electric heating element, in combination with said element inserted edgewise into said pocket, and means for securing it therein.

1,665,769. AEROPLANE. NORMAN BUIE, Stayner, Ontario, Canada. Filed Mar. 26, 1927. Serial No. 178,707. 2 Claims. (Cl. 244—12.)



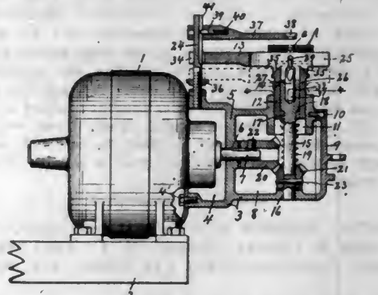
1. In an aeroplane, a pair of auxiliary wings hingedly connected at their outer ends to the underside of the main plane, arcuate guides fastened to the body, followers carried by the inner ends of the wings and disposed in said guides, sheaves positioned at the upper and lower ends of the guides, a drum, a crank therefor, and cables connected to the followers and passed over the sheaves to the said drum.

1,665,770. LIQUID CONTAINER. LYMAN ORMISTON BUIST, Toronto, Ontario, Canada. Filed Oct. 29, 1925. Serial No. 65,589. 1 Claim. (Cl. 229—6.)



A liquid container comprising a top and a bottom having three rounded corners and one beveled corner, a cardboard blank folded around said top and bottom and overlapping on the beveled corner and forming the four sides of said container, means for securing said blank to and around said top and bottom, and an inside and an outside wooden stiffener of triangular cross section lying upon said beveled corner and secured thereupon and to one another by a plurality of nails, and a coating of water proof material laid over and completely covering the inside surface of said container.

1,665,771. MACHINE FOR COUNTERBORING BRAKE LININGS AND THE LIKE. GEORGE B. CADY, Canastota, N. Y. Filed Apr. 10, 1925. Serial No. 22,099. 2 Claims. (Cl. 77—5.)



2. In a machine for boring the linings of brake bands and the like, a horizontal motor, a gear case secured to one end of the motor and provided with a vertical guide opening, a work table having a hub movable vertically in said guide opening, an upright shaft journaled in said hub, a boring tool in the upper end of the shaft, and means for transmitting rotary motion from the motor to said shaft, an upright guide post at one side of the shaft for guiding the work table in its vertical movement, and a registering arm adjustable vertically along and upon the guide post above the work table and provided with a sight opening in vertical alinement with the axis of the shaft.

1,665,772. STORAGE-BATTERY CONSTRUCTION. CAMPBELL C. CARPENTER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Feb. 9, 1918. Serial No. 216,144. 6 Claims. (Cl. 136—168.)

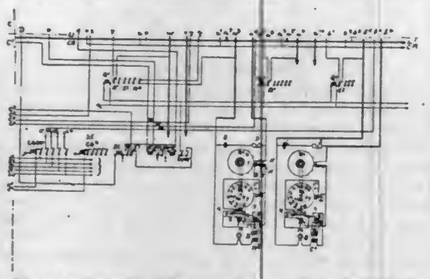
1. In a battery terminal fastening, a terminal post having lugs and flat sides connecting the lugs, and a

nut having a slot shaped to receive the lugs and pass down the flat sides, one of said elements having diagonally



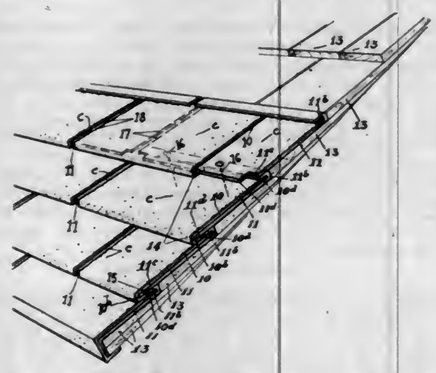
disposed inclined faces at points of contact with the other element, whereby the nut and lugs are wedged together when the nut is turned and swung under the lugs.

1,665,773. AUTOMATIC SWITCHBOARD TELEPHONE SYSTEM. LOUIS LUCIEN EUGENE CHAUVEAU, Paris, France. Filed Feb. 7, 1924, Serial No. 691,310, and in France May 5, 1923. 10 Claims. (Cl. 179—16.)



1. In an automatic telephone system for effecting connection between a plurality of stations, the combination of a controlling system comprising a selector, a pair of relays adapted to respond to impulses of different intensity, said selector comprising a plurality of relays so connected that each relay of said selector controls the circuit of the relay following, said relays being divided into two series of relays and connected respectively to two lines, a coupling relay, whereby upon an impulse actuating one of the relays of the first named pair of relays certain relays of the selector are actuated to energize said coupling relay to effect the coupling of the stations with a connecting line, auxiliary means to effect the call, and to effect a special signal if not available, and means in case of fault to effect the return to normal of said system, and the emission of a signal indicating the fault.

1,665,774. SHINGLE AND SHINGLE CONSTRUCTION. GEORGE E. CONWAY, Cresskill, N. J. Filed Sept. 24, 1927. Serial No. 221,673. 14 Claims. (Cl. 108—9.)



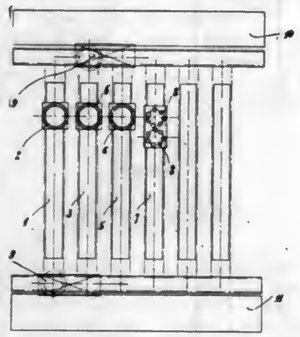
1. In a shingle construction, the combination of superimposed outer and under shingles having interengaging parts for anchoring the butt edges of the outer shingles to the under shingles and for securing the edge portions of the outer shingles opposite said butt edges to the under shingles.

1,665,775. GUIDE CONSTRUCTION FOR SCREENS. HARRY DIXSON, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa. Filed Dec. 5, 1927. Serial No. 237,804. 6 Claims. (Cl. 156—26.)



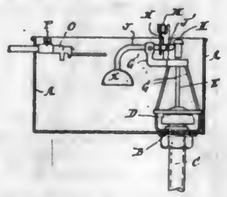
3. A guide having a longitudinal slot, the guide having adjacent to the slot, spaced channel shaped members opening toward each other.

1,665,776. SMOOTHING AND POLISHING GLASS OR THE LIKE. PAUL JOSEPH MAXIMILIEN ESCOLE, Jeumont, France. Filed Mar. 19, 1924, Serial No. 700,361, and in France June 23, 1923. 1 Claim. (Cl. 51—56.)



Smoothing and polishing apparatus, comprising a battery of stationary tables of great length, whereon the material undergoing treatment is adapted to be secured, fixed side by side in spaced, parallel relation; parallel tracks extending along the opposite ends of the tables at right angles to the latter; carriages adapted to travel along said tracks; and abrading devices adapted to travel longitudinally over said tables for polishing the material secured thereon from end to end thereof, and adapted to be moved from the end of one table to that of the next by means of the carriages.

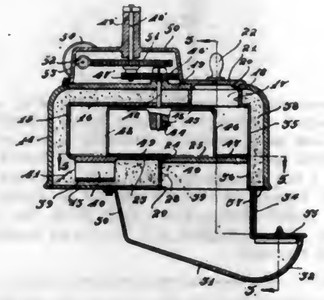
1,665,777. FLUSHING SYSTEM. CHARLES FABIAN, Auckland, New Zealand, assignor to Ross Gould Limited, Auckland, New Zealand. Filed Aug. 10, 1927, Serial No. 212,051, and in New Zealand Aug. 24, 1926. 3 Claims. (Cl. 4—53.)



1. In a flushing system, the combination with a cistern, and a flush outlet in the bottom of such cistern having a valve seat opening, of a flushing valve constructed with

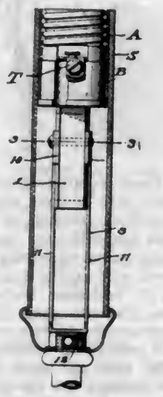
a bottom adapted to engage and seal such opening, a vertically extending rod fixed to said valve and having an enlarged head on its upper end, a lever pivoted in the upper part of the cistern and having at its inner end a hinged pawl adapted to engage beneath such head and to lift the rod when such lever end is raised, a float upon the outer end of such lever, an operating lever mounted on the cistern, and a connection between the operating lever and the inner end of the lifting lever.

1,665,778. COMBINATION ROASTER AND MIXER. AXEL E. FREDRICKSON, Ferndale, Mich. Filed Aug. 6, 1926. Serial No. 127,523. 4 Claims. (Cl. 34—23.)



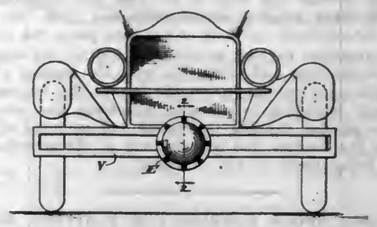
1. A machine of the class described comprising an oven; an agitator comprising a horizontally disposed member having a downwardly projected and horizontally outwardly turned leg at one end; a downwardly projecting and horizontally inwardly turned leg at the other end of said member, said inwardly turned leg extending beyond the center of said horizontally disposed member; a shaft fixedly mounted on said horizontally disposed member and projecting exteriorly of said oven; and means exteriorly of said oven for rotating said shaft for effecting an agitation by said horizontally disposed member and downwardly projecting legs of the contents of said oven.

1,665,779. ADJUSTABLE CANDELABRUM SOCKET. EDGAR H. FREEMAN, Trenton, N. J., assignor, by mesne assignments, to Circle F. Mfg. Co., Trenton, N. J., a Corporation of New Jersey. Filed Mar. 3, 1922. Serial No. 540,815. 1 Claim. (Cl. 240—52.)



An adjustable candelabrum device including a socket having an insulating base member formed with an integral extension post of angular cross-section and having a slot, a support having fixture attaching means at one end and a pair of spaced upstanding arms, and a screw cooperating with the slot in the post for adjustably connecting the latter to the support.

1,665,780. ATTACHMENT FOR BUMPERS. HERMAN HAMBURGER, Santa Paula, Calif. Filed Aug. 31, 1927. Serial No. 216,711. 9 Claims. (Cl. 293—55.)

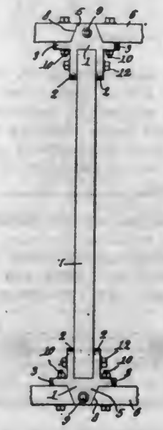


9. An attachment for bumpers comprising a hollow cup shaped body, and means by which the body is adapted to be supported on a bumper at a point in advance of the latter so as to shield the bumper against direct contact with an obstacle, the body being formed of yieldable material so as to be compressed when struck and thereby absorb the force of the impact.

1,665,781. ARSENICAL COMPOUND. CLIFF S. HAMILTON, Lincoln, Nebr., assignor, by mesne assignments, to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 17, 1924. Serial No. 699,891. 5 Claims. (Cl. 260—14.)

1. The method of preparing arsanilic acid derivatives which comprises reacting upon an arsanilic acid compound, with a halohydrin, thereby introducing a hydroxyl containing group in its amino group.

1,665,782. COMBINATION METAL BRACKET. HENRY C. HANNA, Marietta, Ohio. Filed Sept. 17, 1925. Serial No. 56,974. 1 Claim. (Cl. 20—94.)



In a device of the class described, a vertical post and parallel beams disposed at right angles to the post and located in the same plane with the post at the ends of the post, and a pair of brackets each including parallel flanges and a base plate from which the flanges project, the flanges being arranged at right angles to each beam, and the base plate extending longitudinally of each beam, a web connecting the flanges and located at right angles to the base plate and to the flanges, the base plate extend-

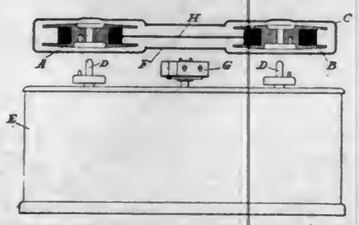
ing outwardly beyond the sides of the flanges to form ears, the web being of less height than the ears, and being joined to the base plate at one edge of the base plate, securing elements mounted in each beam and engaging the ears, the space between the flanges being open in front of the webs, so that the ends of the post may be slid into engagement with the webs, between the flanges of the respective brackets, the post being notched to define shoulders engaging the edges of the webs, securing members passing through the ends of the post and engaging the flanges, there being a tongue projecting from the base plate intermediate the ends of the base plate, the tongue being arranged parallel to the web and at the opposite edge of the base plate from the web, the tongues of the brackets being overlapped on the beams, the tongue and the web extending in opposite directions and securing devices passing through the beams and mounted at one end in the tongues, the opposite end of the securing devices being clear of the brackets.

1,665,783. SPOOL CARRIER FOR PLAITING, KNOTWORK, BOBBIN, AND LACE-MAKING MACHINES. ALBERT HOMBRECHER, Barmen-Langerfeld, Germany. Filed Dec. 30, 1926, Serial No. 158,005, and in Germany July 23, 1926. 5 Claims. (Cl. 96—13.)



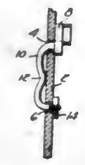
1. A spool carrier having means for supporting a conically shaped bobbin, a head cooperating with one end of said carrier having means for conducting thread away from said bobbin, said means receiving the thread in the first instance at a point substantially at the top of the bobbin and within the circumference of the bobbin.

1,665,784. ELECTROMAGNETIC TALKING MACHINE. WILLY HORNAUER, Neukolln, Germany, assignor to Vox Maschinen-Aktiengesellschaft, Berlin, Germany. Filed June 20, 1925, Serial No. 38,559, and in Germany June 28, 1924. 2 Claims. (Cl. 179—100.2.)



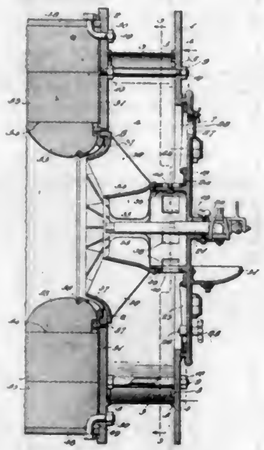
1. In an electro-magnetic talking machine of the character described, a spool casing, record spools enclosed in said casing, driving spindles adapted to receive and to be coupled to said spools, and spring-pressed clutches engaging the spools in the casing so as to prevent normally a displacement of the same, the driving spindles being adapted to disengage said clutches automatically on entering the spools.

1,665,785. MECHANISM FOR ATTACHING WINDOW FIXTURES. AMSON G. ILLCH, New York, N. Y. Filed Feb. 24, 1927. Serial No. 170,523. 4 Claims. (Cl. 156—24.)



1. A mechanism for use in combination with a sheet metal structure having two spaced holes, comprising a fixture, a back plate connected therewith, a rod connected with the back plate adapted to pass in one hole and out the other, a nut for the free end of the rod, and a fulcrum point formed on the rod adapted to contact with the sheet metal structure so that when the nut is screwed up, the back plate will be drawn against the sheet metal structure.

1,665,786. FURNACE FRONT. DAVID J. IRISH, West New Brighton, N. Y., assignor to Morse Dry Dock & Repair Co., New York, N. Y., a Corporation of New York. Filed June 16, 1924. Serial No. 720,401. 10 Claims. (Cl. 158—1.5.)

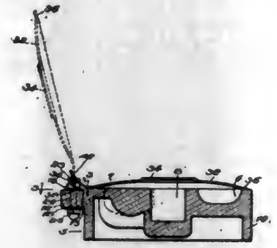


1. In a furnace front, an air-receiving casing having a front plate provided with a door opening and a back plate formed with a flame opening, an outwardly-opening burner-carrying door for said door opening, and a substantially cylindrical burner-encircling and air-directing shell extending across said casing from front to back and having controllable air admission means, said shell being of considerably less diameter than said flame opening, being disposed in concentric relation with the latter and being provided with pitched air-whirling webs, said webs projecting outwardly from the shell to the edge of the flame opening for whirling all air passing around the shell through said flame opening, said shell being rigidly mounted on said door and by opening movement of the latter being movable outwardly from the casing through the door opening.

1,665,787. METHOD OF MANUFACTURING A NEW SYPHILIS REMEDY FROM DIHYDROXY-DIAMINO-ARSENO-BENZENE-MONOMETHYLENE SULPHONIC ACID. TORU IWADARE, Tokyo, Japan. Filed Oct. 8, 1926, Serial No. 140,424, and in Japan Dec. 14, 1925. 1 Claim. (Cl. 260—15.)

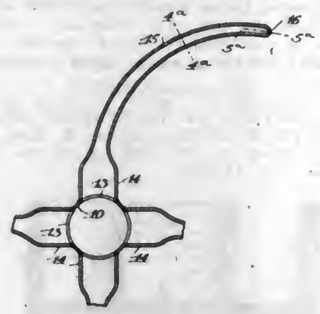
A method of manufacturing a new syphilis remedy, comprising causing formaldehyde and sodium-bisulphite to act upon dihydroxy-diamino-arseno-benzene-monomethylene sulphonic acid.

1,665,788. HOLDER FOR MANICURE PREPARATIONS AND THE LIKE. WILLIAM MEYER, Chicago, Ill. Filed Mar. 11, 1927. Serial No. 174,508. 6 Claims. (Cl. 206—1.)



1. In combination a body having well means therein, a supporting pin, a cover for said well means having an integral tab rolled around said pin and swingable thereon and an integral tongue struck from said tab, said tongue being spaced from the edge of the tab and forming a yielding retention for releasably retaining the cover upon the pin.

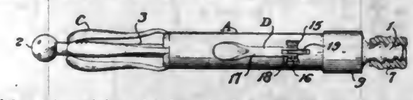
1,665,789. AGITATOR. EDGAR B. NICHOLS, Rochester, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Filed Oct. 1, 1923. Serial No. 665,772. 5 Claims. (Cl. 259—133.)



3. In a rotary agitator, the combination of a hub portion comprising a length of metal tubing open at one end for the reception of a shaft and closed at the other end, and a plurality of separately formed blades spaced about the periphery of the hub each comprising a length of metal tubing having an end thereof welded to said hub with its outwardly extending portion elongated transversely of and curved in the plane of rotation and closed at the outer end.

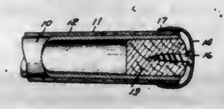
1,665,790. SANITARY DOUCHE NOZZLE. WILLIAM NOVACK, Brooklyn, N. Y. Filed Sept. 7, 1925. Serial No. 54,851. 9 Claims. (Cl. 128—242.)

1. In a dilating douche nozzle an inner tubular metal stem; an outer tubular shell; a compression spring; means for reactively connecting said spring to exert a moving force relatively between said tubular stem and said tubular shell tending to effect an axial movement of one within the other; dilator arms projecting out from the distal end of said tubular shell; an operator associated with the proximal end of said tubular shell; means for utilizing said tubular stem as a mechanical element responsive to said operator for effecting a positive movement of said dilators relatively to said tubular shell



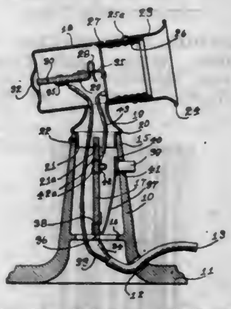
without impairing the functioning of said tubular stem as a fluid-conducting non-corrodible duct, comprising a pair of flanged metal sleeves axially spaced along said tubular stem, one directly engageable by said operator and the other engaging the ends of said dilator arms, which said sleeves have inwardly projecting localized indentations nesting with complementary surface indentations on said tubular stem.

1,665,791. GOLF-CLUB GRIP. JOSEPH A. NOVAK, San Francisco, Calif., assignor to The Novak Club Inc., San Francisco, Calif., a Corporation of Nevada. Filed Jan. 26, 1927. Serial No. 163,601. 6 Claims. (Cl. 273—81.)



6. In a golf club having a hollow tapered shaft, a hand grip comprising flexible material applied to the shaft, a plug in the outer end of the shaft, and a cap detachably secured to said plug and engaging one end of the material.

1,665,792. ELECTRIC CIGAR LIGHTER. GEORGE PARKER, Meriden, Conn. Filed Apr. 8, 1926. Serial No. 100,561. 1 Claim. (Cl. 219—32.)

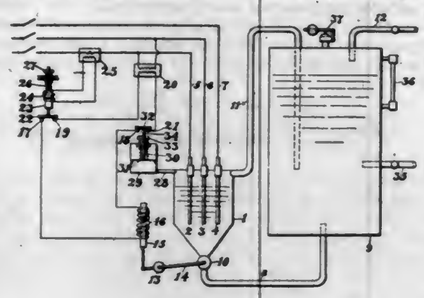


In an electric cigar lighter, a tubular vertical standard open at its top, means in said standard for supporting the base of a vertical insulating strip, a horizontal body member having a depending neck seated within the open top of said vertical standard, an ignition unit in said body member, said neck having slots to fit over and lock said insulating strip, a switch supported by said strip and connecting the ignition unit with a source of current, and means for operating said switch.

1,665,793. AUTOMATIC ELECTRIC STEAM BOILER. OLOF ALFRED SANDBORGH, Stockholm, Sweden. Filed Aug. 29, 1921, Serial No. 496,654, and in Sweden Mar. 1, 1920. 8 Claims. (Cl. 219—40.)

5. In an automatic electric steam boiler the combination of a steam generator, a reservoir, a pipe connection from the lower part of the generator to the reservoir, a valve in the said connection, a pipe connection from the

top of the generator to the reservoir, electric power supplying means, electrodes within the generator, connection between the mains and the electrodes, and electromagnetic



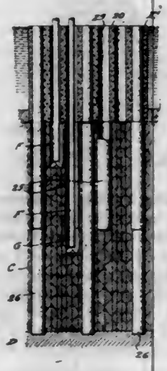
means for opening and closing the valve, said means arranged to operate automatically upon a variation in the level of the water in the boiler.

1,665,794. WINDSHIELD CLEANER. VINCENT SCALZO, Pittston, Pa. Filed Apr. 19, 1927. Serial No. 184,957. 10 Claims. (Cl. 15—255.)



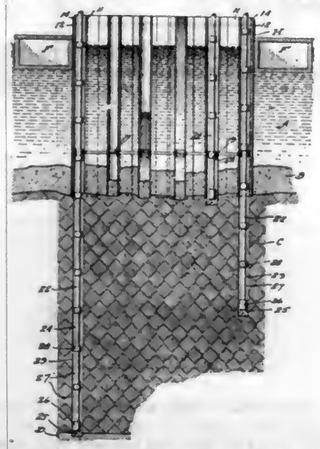
1. A windshield cleaner comprising a channel-like frame having yieldable outwardly curved side walls provided at their free edges with flanges extending in spaced parallel relation, a wiping element carried by each flange, and a heating element having a tubular casing insertable into said frame between the yieldable side walls from one end thereof and having a longitudinally extending opening aligning between said flanges.

1,665,795. METHOD OF PRODUCING SUBAQUEOUS FOUNDATIONS, PIERS, BREAKWATERS, ETC. GEORGE B. SIPE, Shreveport, La. Filed Nov. 3, 1923. Serial No. 672,538. 7 Claims. (Cl. 61—46.)



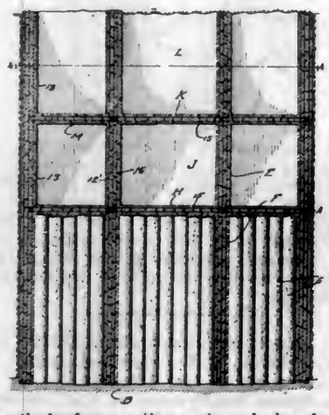
1. A method of producing and placing piers which comprises, placing a plurality of laterally spaced apart piles extending into the formation subjacent to the body of water in which the pier is to be located; disposing a caisson, having a plurality of laterally spaced apart vertical conductor ways therethrough, upon said piles, said ways being open above the water; drilling cavities open to the conductor ways, through the formation and into the bed rock subjacent to said body of water and removing the dislodged material through said conductor ways; and depositing a filler including cementitious material in the said cavities and conductor ways, to link said caisson to the bed rock.

1,665,796. METHOD OF PROVIDING AND PLACING PIERS. GEORGE B. SIPE, Shreveport, La. Filed Nov. 5, 1923. Serial No. 673,036. 4 Claims. (Cl. 61—52.)



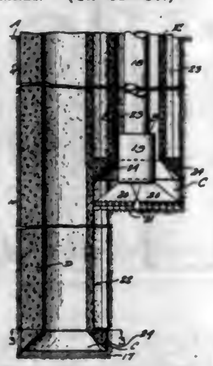
1. A method of producing and placing piers which consists of lowering and steadying a caisson having a plurality of upright ways until the lower end of the caisson rests in the hard yet compressible formations subjacent to the body of water in which the pier is to be located; drilling cavities open to said upright ways through the formation sub-jacent to the body of water and removing the dislodged material through said ways; lowering liners through said ways to follow the drills and lodge in any floating sand encountered in the formation; lowering hollow forms through said ways and liner to follow the drill; and filling said cavities and ways with concrete from the bottom upwardly and removing said hollow forms as the filling progresses.

1,665,797. METHOD OF EXCAVATING AND PRODUCING FOUNDATIONS. GEORGE B. SIPE, Shreveport, La. Filed Nov. 6, 1923. Serial No. 673,220. 6 Claims. (Cl. 61—50.)



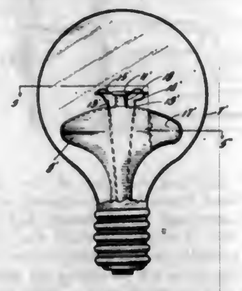
1. A method of excavating and producing foundations which includes, drilling cavities into the soil to bed rock along the lines of the foundations, disposing a filler including cementitious material in the cavities to form piles extending to the surface from the bed rock, subsequently drilling cavities into the major portion of the soil within the bounds of said piles, and disposing a filler including cementitious material into said last mentioned cavities, partly filling same to form piles terminating short of the height of the first mentioned piles.

1,665,798. METHOD OF PRODUCING AND PLACING PILES IN INTERLOCKED RELATION. GEORGE B. SIPE, Shreveport, La. Filed Apr. 22, 1925. Serial No. 25,067. 7 Claims. (Cl. 61—57.)



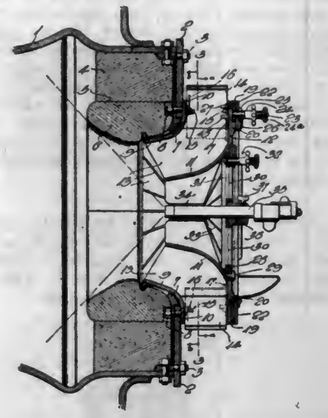
1. Those steps in the method of producing and placing piles in interlocked relation which comprises, drilling a cavity into the soil, placing a casing having a longitudinally extending keyway open at its side, in the cavity, drilling a second cavity next adjacent to the casing thus placed, so that the path taken by the drill intersects the drill path taken in producing the first mentioned cavity at said keyway, and placing a second casing in said second cavity in contiguous relation to said first mentioned casing.

1,665,799. INCANDESCENT LAMP. ARTHUR B. SMITH, South Brownsville, Pa. Filed Oct. 28, 1925. Serial No. 65,487. 1 Claim. (Cl. 176—34.)



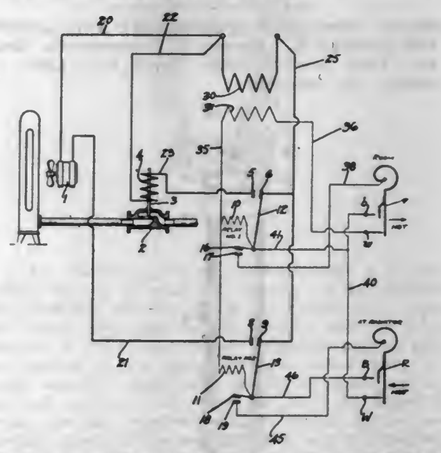
An incandescent lamp of the character described, including a plug having a recess therein, comprising a bulb mounted in said recess, a hollow filament supporting member, comprising a circular head having the upper surface thereof convexed and having the under side drawn downwardly to provide a supporting stem of relatively small diameter and secured in said plug, a filament mount comprising a short upstanding member arranged centrally upon the upper surface of said head, means carried by said mount for supporting the filament in close proximity to the head, and reflector means coating the interior surface of the head and stem.

1,665,800. AIR REGISTER. CHRISTOPHER STRACHAN, South Orange, N. J., and DAVID J. IRISH, St. George, N. Y., assignors to Morse Dry Dock & Repair Co., New York, N. Y., a Corporation of New York. Filed Jan. 5, 1923. Serial No. 610,881. 5 Claims. (Cl. 158—1.5.)



1. In an air register, an outer air admission wall of substantially cylindrical form enlarged toward its front end and provided at its front extremity with an annular outstanding flange, an inner substantially cylindrical air admission wall within and spaced from said outer wall, said inner wall being enlarged toward its front end and extending forwardly beyond the plane of said flange, an annular front wall joined to the front end of said inner wall and spaced forwardly from said flange, means between said flange and front wall for controlling the admission of air between said inner and outer walls, additional means for controlling the admission of air into the space within said inner wall, and means for mounting a burner centrally within said inner wall.

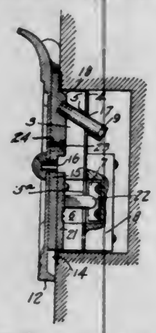
1,665,801. UNIT-HEATER CONTROL. HAROLD W. SWEATT, Minneapolis, Minn., assignor to Minneapolis Heat Regulator Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 27 1927. Serial No. 187,051. 4 Claims. (Cl. 236—37.)



4. In combination a heater and a fan motor thereadjacent, magnetically operable means for controlling the heater temperature, a device responsive to control

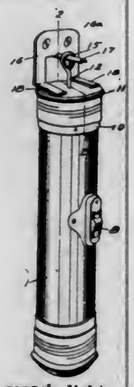
a circuit as a result of temperature fluctuations at the heater, a device responsive to control a circuit as the result of temperature fluctuations in the room, a first relay controlled by the room device for in turn controlling the magnetically operable means and also for controlling a power circuit to the room device, a second relay controlled by the room device and by the heater device, said second relay in turn controlling the motor and power circuit to the heater device, and circuit connections for the magnetically operable means, motor, relay and room and radiator devices, said connections arranged to obtain actuation of said magnetically operable means to supply heat when the room is sufficiently cool and further arranged to cause the motor to start only when the heater is sufficiently warm the arrangement further being such that the room device dominates control by the heater device.

1,665,802. DETACHABLE ELECTRIC FIXTURE. WHITMAN SYMMES, San Francisco, Calif., assignor to Thomas Day Company, San Francisco, Calif., a Corporation of California. Filed Nov. 8, 1921. Serial No. 513,662. 3 Claims. (Cl. 173—330.)



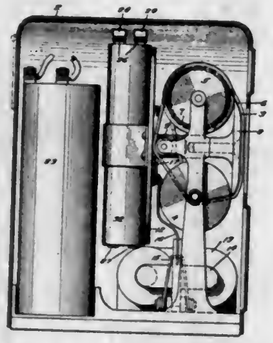
1. The combination in a removable electric lighting fixture, of a wall plate having a recess therein and provided at its upper portion with an aperture, an electrical receptacle seated behind said plate below said aperture with the face of the receptacle forming a portion of the back of the recess, an electric lighting fixture bracket having a back, a prong on said back adapted to be inserted in said aperture, an electrical plug on said back below said prong adapted to engage said receptacle and a projection on the back shaped to fit said recess.

1,665,803. PORTABLE SEARCHLIGHT AND MOUNTING THEREFOR. VINCENT V. VEENSCHOTEN, Erie, Pa. Filed Nov. 25, 1925. Serial No. 71,466. 5 Claims. (Cl. 240—10.5.)



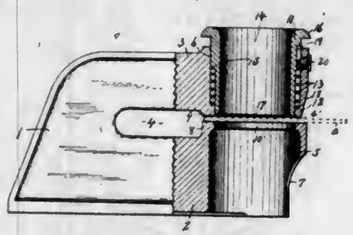
1. In a portable search light and mounting therefor, the combination of a search light comprising a casing, bulb, a manually normally operated switch and a secondary switch; a supporting device on the secondary switch; and a mounting receiving the device and automatically opening the switch as the device is received by the mounting.

1,665,804. TIMING APPARATUS. PHILIP J. WALSH, San Francisco, Calif. Filed May 22, 1922. Serial No. 562,715. 8 Claims. (Cl. 161—1.)



3. In a timing apparatus, an invertible, closed container adapted to hold a fluid, a float in the container, and means for periodically inverting said container, comprising an electroresponsive device, an electric circuit therefor, means whereby said circuit is opened when the container is fully inverted, and is closed during inversions, and means whereby the rise of the float to a definite level independently closes the circuit.

1,665,805. HOLLOW PUNCH. FRANK J. WALTER, Canastota, N. Y., assignor of one-half to George B. Cady, Canastota, N. Y. Filed July 27, 1927. Serial No. 208,801. 5 Claims. (Cl. 164—25.)

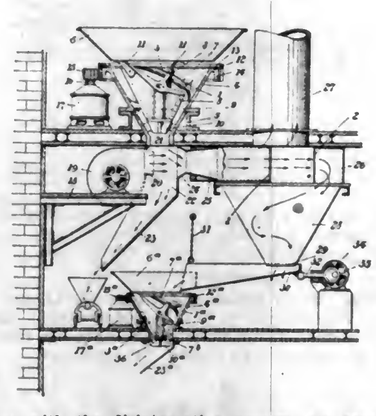


1. In a card punching machine of the character described, a bifurcated frame having opposed arms provided with registering openings therethrough, one of the arms being provided with a relatively fixed die, an additional die reciprocally movable in the other opening to cooperate with the first-named die for punching an interposed portion of the card and provided with a sight opening therethrough from end to end.

1,665,806. METHOD OF AND APPARATUS FOR DISINTEGRATING BULKY SCRAP METAL. JULIUS BING, Eisenach, Germany, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezial-Fabrik für Elektromagnet-Apparate, Eisenach, Thuringia, Germany. Filed Aug. 15, 1925, Serial No. 50,438, and in Germany Aug. 23, 1924. 12 Claims. (Cl. 29—4.5.)

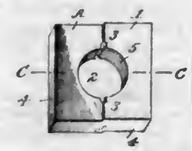
1. A method of disintegrating scrap metal, more particularly turnings, consisting in this, that the materia)

to be disintegrated is first only partially disintegrated, that the foreign bodies contained in the material, which



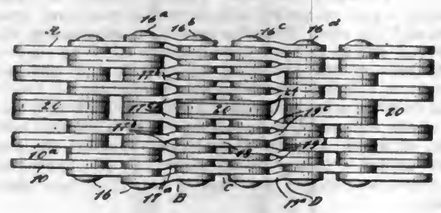
interfere with the disintegrating process, are separated out by means of a current of a fluid medium and that the disintegration is thereupon completed.

1,665,807. LOCK NUT. PAUL W. DIETER, New York, N. Y. Filed Feb. 1, 1927, Serial No. 165,132. Renewed Oct. 27, 1927. 2 Claims. (Cl. 151—21.)



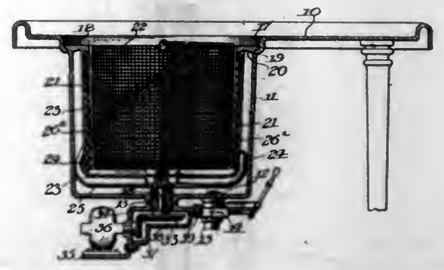
1. A nut having a threaded opening therein and grooves extending axially through said nut on opposite sides of the threaded opening, with definite portions of said nut pressed in opposite directions to offset the threads on one side of said grooves with the threads on the other side of said grooves.

1,665,808. DRIVE CHAIN AND LINKS THEREFOR. RICHARD F. DOW, Hartford, Conn., assignor to The Whitney Mfg. Co., Hartford, Conn., a Corporation of Connecticut. Filed Nov. 17, 1922. Serial No. 601,463. 10 Claims. (Cl. 74—32.)



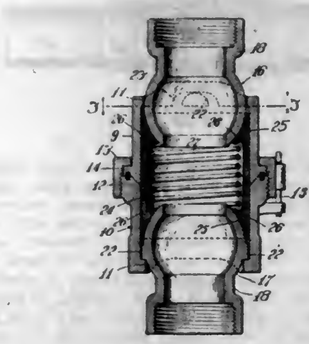
1. As an article of manufacture, a link for a transmission chain of substantially uniform thickness throughout and offset intermediate its ends so that both faces of the link at one end are outside the plane of either face of the link at the other end.

1,665,809. CLEANSING MACHINE. WILLIAM H. DUNN, Chicago, Ill., assignor to Dunn Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1919. Serial No. 278,906. 17 Claims. (Cl. 141—9.)



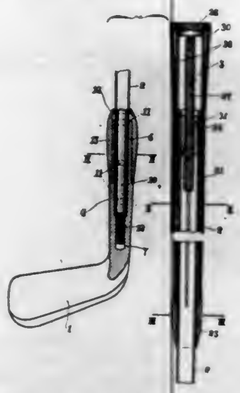
1. In a cleansing machine, the combination of a fluid container, a stationary element into which the article to be cleansed may be placed, said element having a rotatable element rotatably attached thereto, and means for driving the rotatable element, both of said elements being removable together from said driving means and from within the container.

1,665,810. FLEXIBLE JOINT. LAWRENCE H. GILLICK, St. Paul, Minn., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Original application filed July 26, 1920, Serial No. 398,882. Divided and this application filed July 2, 1925. Serial No. 41,053. 10 Claims. (Cl. 285—92.)



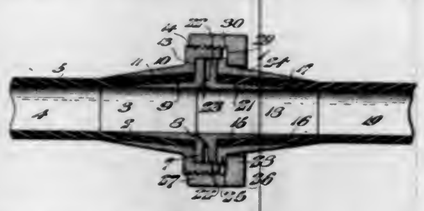
1. In a flexible pipe joint, the combination of a socket member having an elongated socket cavity, ball members extending into opposite ends of the socket cavity, means for flexibly connecting the ball members with the socket member, a single longitudinally extensible annular packing member of less length than the socket cavity and bodily movable longitudinally within the socket and having end portions which are forced into the spaces between the ball members and the socket member and having curved surfaces bearing against said ball members, respectively, said packing member being formed with shoulders adjacent to said curved surfaces, and a spring interposed between said shoulders.

1,665,811. GOLF CLUB. WILLIAM JAMES HADDEN, Glasgow, Scotland, assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Filed May 12, 1927, Serial No. 190,740, and in Great Britain Aug. 16, 1926. 2 Claims. (Cl. 273—80.)



1. A golf club comprising, a shaft, a club head having a contractible socket adapted to fit snugly on one end of said shaft, a screwed plug on said shaft adapted to screw into the said head, means for contracting said socket so as to clamp it on the shaft, and a grip detachably fixed on the other end of said shaft.

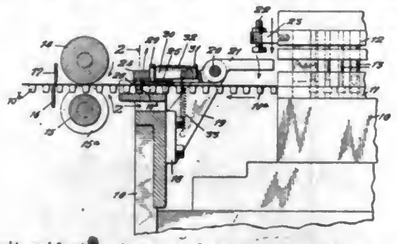
1,665,812. HOSE OR PIPE COUPLING. JOHN J. JONES, Ridley Park, Pa. Filed Oct. 28, 1922. Serial No. 597,463. 1 Claim. (Cl. 285—86.)



In a device of the character stated, an inner bushing having a conical exterior wall, a terminal right angled flange and a female counterbore, an outer concentric sleeve having a conical interior wall concentric with said conical exterior wall, and an exteriorly threaded outer longitudinal wall and a hose section having its flared end held entirely between said bushing and sleeve, in combination with another juxtaposed inner bushing having a conical outer wall, a right angled flange and a male projection contiguous to said female counterbore, an outer sleeve having a conical interior surface concentric with said last mentioned conical bushing, a hose section having its flared end held entirely between said last mentioned bushing and sleeve, and provided with a right angled flange contacting with said last mentioned right angled flange, and an outer internally threaded coupling ring having a shoulder engaging said last mentioned flange, said three right angled flanges being confined between said coupling ring and said outer longitudinal threaded wall.

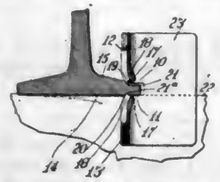
1,665,813. POSITIVE STOCK-FEED STOP. JOHN KARMAZIN, Detroit, Mich. Filed May 12, 1926. Serial No. 108,463. 11 Claims. (Cl. 113—113.)

1. In a radiator element forming machine, upper and lower cooperating die members, means to constantly urge a strip of radiator element forming material through said machine between said dies, and means adapted to positively grasp said strip at each operation of the dies and



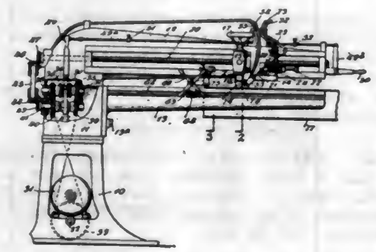
permit said strip to move forward a predetermined distance whereby said strip is positioned between the dies for the next successive operation of the dies.

1,665,814. RAIL ANCHOR. MILTON C. LENOIR, Lombard, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 30, 1926. Serial No. 158,060. 16 Claims. (Cl. 238—330.)



1. A rail anchor comprising a member formed with jaws adapted to be driven into engagement with one flange of a rail base, and a spring arm extending outwardly from the jaw portion of said device and adapted to bear with spring pressure against the said base flange.

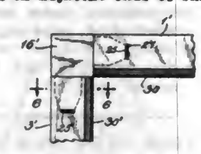
1,665,815. WELDING MACHINE. ALFONS MAUSER, Cologne-Marienburg, Germany. Filed Dec. 12, 1925, Serial No. 74,992, and in Germany Feb. 13, 1925. 15 Claims. (Cl. 113—59.)



1. In a longitudinal seam welding machine, a frame having a pair of horizontally extending cantilever arms arranged one above the other in stepped relationship, the lower of said arms being provided with means to support both ends of the article to be welded, and clamping devices to hold said article in welding position; a travelling carriage mounted on said upper arm, driving means to cause said carriage to be moved at a regular even rate of speed, a welding implement mounted on said carriage and a presser block adjacent to said implement to press the edges of the seam to be welded into alignment.

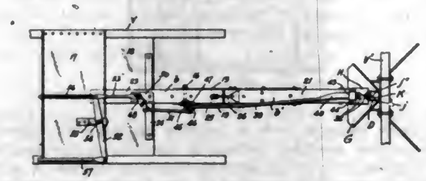
1,665,816. FRAME-JOINT CONSTRUCTION. CHARLES MAUTNER, Brooklyn, N. Y. Filed July 19, 1927. Serial No. 206,849. 4 Claims. (Cl. 189—36.)

1. A frame joint comprising a body portion provided with resilient extensions arranged in pairs and each pair extending from different sides thereof, shoulders formed at the juncture of said extensions and body portion, projections formed at the ends of said extensions adapted to engage in openings in adjacent ends of said frame mem-



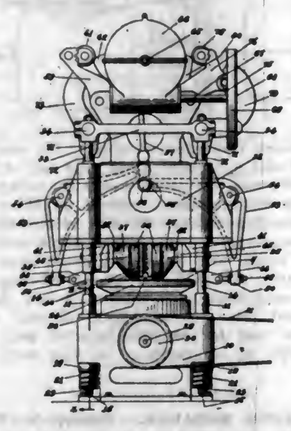
bers, said openings being spaced to cause the ends of said frame members to abut said shoulders and to be held in position with said joint by the engagement of said projections in said openings.

1,665,817. DRAFT APPLIANCE. ROLLA A. MORTON, Long Beach, Calif., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Mar. 27, 1924. Serial No. 702,382. 22 Claims. (Cl. 280—33.12.)



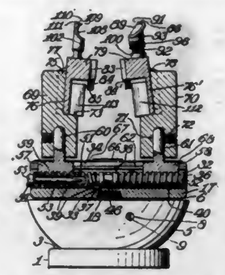
1. In combination, a drawing vehicle and a trailing vehicle, a coupling pin adapted to be carried by one of said vehicles, a coupling device adapted to be carried by the other of said vehicles and including spaced jaws which are normally urged to a releasing or receiving position with respect to said pin, and yieldable means for urging the jaws to a gripping position with respect to said pin and against the tendency of the jaws to occupy said releasing or receiving position and including a member disposed parallel with the jaws and bearing on the outer sides thereof.

1,665,818. MACHINE FOR ROLLING METALLIC DISKS. EMIL A. NELSON, Abington, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 2, 1923. Serial No. 666,122. 30 Claims. (Cl. 80—16.)



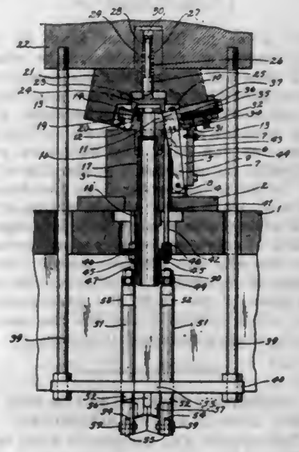
1. A machine of the class described comprising a rotatable support for the blank to be rolled, a roll adapted to act on the blank, means for applying said roll to the upper surface of said blank under spring pressure, and means for traversing said roll radially of the blank.

1,665,819. ENGRAVING BLOCK. HORACE PLUMMER, Lawrence Township, Marion County, Ind. Filed Oct. 31, 1924. Serial No. 747,006. 11 Claims. (Cl. 81—4.)



1. An engraving block having jaw bodies and jaw heads removably connected to the upper portions of the jaw bodies respectively, the jaw heads being invertible on the jaw bodies and provided with holding devices adjacent to the tops and bottoms thereof, the bottom devices being different from the top devices.

1,665,820. PUNCH PRESS. OSWALD SCHLAUPITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 16, 1927. Serial No. 175,833. 12 Claims. (Cl. 164—90.)

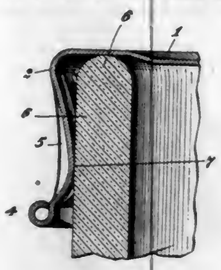


1. A press comprising a bolster, a hollow block thereon, a hollow die on said block, the interior of said die communicating with the interior of said block, said die having transverse openings therethrough, a plurality of elongated punches disposed around the outer periphery of said block and pivotally supported at their lower ends, the upper end of each punch cooperating with a transverse hole of said die, the upper outer edge portions of said punches being beveled, a reciprocatable ram head and punch actuating means in said ram head, said means being angularly disposed to cooperate with the beveled portions of said punches.

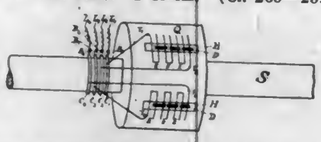
1,665,821. FRICTION CLOSURE CAP. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed May 7, 1926. Serial No. 107,404. 7 Claims. (Cl. 215—39.)

1. A closure cap having a cover portion and a skirt portion, said skirt portion having frictional engaging

means provided therein, said means comprising curved members having an abrupt curvature in the lower portion and a lesser curvature in the upper portion to provide the point of contact adjacent the lower edge of the skirt of the cap.

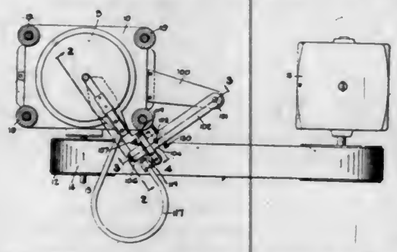


1,665,822. TORSION METER. SEIZO SHIMIZU, Tokyo, Japan. Filed Apr. 4, 1927, Serial No. 180,920, and in Japan Feb. 18, 1926. 1 Claim. (Cl. 265—25.)



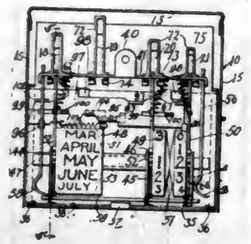
A torsion meter for an engine shaft by which the amount of torsion of the shaft can be measured by means of a difference of electrical resistance, comprising an inner case fixed at a predetermined point on the shaft, U-shaped electrical resistance conductors axially arranged and mounted in several series on the outer face of said inner case, an outer case fixed at a second predetermined point on said shaft, a plurality of series of conductive bridge pieces arranged on the inner face of said outer case, each series of said bridge pieces being arranged in sliding contact with and to bridge over one of said series of electrical resistance conductors on the inner case, whereby the effective amount of the electrical resistance conductors is changed in accordance with the torsion of the shaft, the measurement thereof being made with a suitable device and the amount of the torsion of the shaft determined therefrom.

1,665,823. METHOD AND APPARATUS FOR FEEDING ROTATING DISK-FORMING MACHINES. JOHN W. SMITH, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed May 24, 1923, Serial No. 641,240. Divided and this application filed Mar. 2, 1925. Serial No. 12,631. 33 Claims. (Cl. 80—43.)



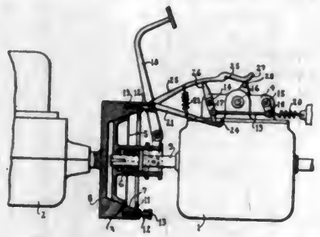
1. The method of feeding to a determinate working position blanks to be worked upon through their rotation, which consists in working upon a blank in working position to space its periphery from working position, the while establishing a blank to be fed upon a feeding position laterally of the working position, relatively moving the feeding and working positions to enter the fed blank in the peripheral space formed through the working of the worked blank, removing the worked blank, thereupon establishing substantial coincidence of the working and feeding positions, and then rotating the fed blank to be worked upon.

1,665,824. SAVINGS BANK. ZENO M. SPEER, Milwaukee, Wis., assignor to Speer Calendar Bank Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 9, 1925. Serial No. 14,031. 5 Claims. (Cl. 194—94.)



1. In a savings bank, a housing having coin deposit slots, ratchet operated indicating mechanism mounted in the housing and visible through openings therein, a coin cartridge removably mounted in the housing and having slots in position to receive the coins deposited, and means whereby the removal of the cartridge prevents the insertion of coins and operation of the mechanism and the insertion of the cartridge permits the insertion of coins and operation of the mechanism.

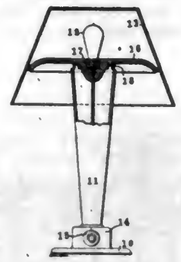
1,665,825. POWER-TRANSMISSION SYSTEM. WILLIAM C. STEVENS, Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company, a Corporation of Pennsylvania. Filed Mar. 12, 1923. Serial No. 624,355. 7 Claims. (Cl. 74—58.)



1. In a power transmission system, the combination with a motor and a variable speed gear set, of a clutch device therebetween including normally engaged main friction parts and normally released auxiliary friction parts, an operating member movable unidirectionally to effect disengagement of said former parts and engagement of the latter, and a selective speed gear shifting device associated with said gear set for effecting selected neutralizing operations upon release of said main friction parts and prior to engagement of said auxiliary friction parts, and for effecting selected gear shifting operations prior to reengagement of said main friction parts.

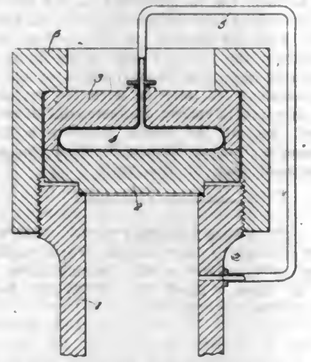
1,665,826. LOUD SPEAKER. ROBERT B. WHEELAN, Brooklyn, N. Y. Filed Mar. 29, 1924. Serial No. 702,708. 1 Claim. (Cl. 181—27.)

A loud speaker, including a base, a standard extending upwardly from said base, a downwardly-extending shade spaced from and positioned adjacent the upper end of said standard and extending toward said base, and a sound-deflecting element associated with said shade and extending from a point centrally above the upper end of said standard to points adjacent the inner faces of said shade, said base being hollow and receiving a loud



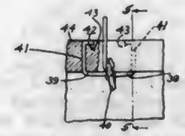
speaker unit, said standard having a bore connected with said base, and said shade acting as a horn directing the sound waves emanating from said unit and passing through the standard bore against the surface supporting said base.

1,665,827. PACKING DEVICE FOR PRESSURE VESSELS. RICHARD TILLMANN, Mannheim, Germany. Filed Sept. 1, 1926, Serial No. 133,073, and in Germany Sept. 4, 1925. 3 Claims. (Cl. 220—24.)



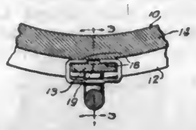
1. A closing device for pressure vessels comprising a closing lid, a supporting plate therefor, and an elastic bladder-like body between the closing lid and the supporting plate, the elastic bladder-like body being supported on all sides by the closing lid and supporting plate.

1,665,828. BAIL EAR. RICHARD P. WHITE, Chicago, Ill. Filed Aug. 9, 1926. Serial No. 128,101. 2 Claims. (Cl. 220—91.)



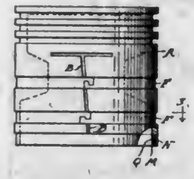
1. The combination with a vessel having a shoulder and openings, of a spring wire looped to form bail attaching means; arms extending from the loop and underlying the shoulder; and prongs projecting from the arms and placed under tension in said openings, substantially as described.

1,665,829. BAIL EAR FOR VESSELS. RICHARD P. WHITE, Chicago, Ill. Filed Apr. 16, 1927. Serial No. 184,217. 3 Claims. (Cl. 215—100.)



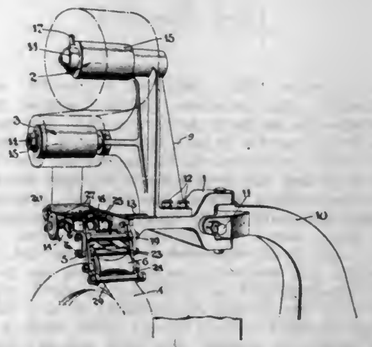
2. In combination with a vessel comprising a body provided with a lug; a bore through said lug; a spring wire looped into substantially a circle to form a bail attaching means; arms projecting from said loop in opposite directions, bent about said lug, and projecting into opposite ends of said bore.

1,665,830. BUILT-UP PISTON. WILLIAM R. WILEY, Mount Clemens, Mich. Filed Feb. 7, 1925. Serial No. 7,474. 1 Claim. (Cl. 74—108.)



The combination, with a piston body of relatively high expansive characteristics, of a band of U-shaped cross-section engaging over a terminal edge of the piston body to effect its close engagement against each surface thereof at normal temperatures, said band being formed of a metal having a relatively low coefficient of expansion and thereby serving to resist the relatively rapid response of the component metal of the piston body to changes in its thermal condition, and a second band of similar metallurgical characteristics mechanically locked about a groove in the intermediate portion of the piston body to circumferentially resist the heat-induced expansion of that portion of the piston.

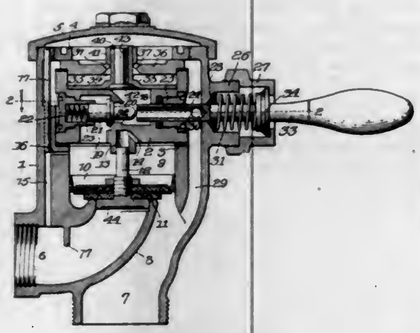
1,665,831. BREAKER-APPLYING DEVICE. DAYTON L. WILLIAMS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 8, 1925. Serial No. 49,126. 6 Claims. (Cl. 154—10.)



1. A tire building machine comprising a rotatable core, a horizontally movable support positioned adjacent the core, a breaker supply roller secured horizontally upon

the support, a liner rewind roller mounted upon the support in parallel relation with respect to the breaker supply roller, a guide mechanism pivoted to the support to swing vertically in the plane of the rollers, and a horizontal stitcher roller secured to the front end of the guide and adapted to press the tire fabric into contact with the core as it leaves the guide mechanism.

1,665,832. FLUSH VALVE. WARREN C. WRIGHT, Chicago, Ill. Filed Mar. 18, 1927. Serial No. 176,340. 13 Claims. (Cl. 137—93.)



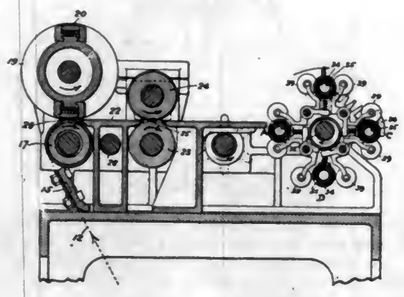
3. A valve device having a pressure chamber with a by-pass connection with the inlet side of the valve, a piston valve operable in said chamber for controlling the flow of liquids through the valve, a second chamber out of the path of the main flow of liquids through the valve device to receive and confine the liquids displaced from the pressure chamber by the piston valve in its opening movements, a relief valve for opening and closing the second chamber to the pressure chamber, said second chamber having a vent opening, and means for closing said vent opening when the second chamber has received all displaced liquids.

1,665,833. EXTENSION TABLE. DAVID ZORK, Chicago, Ill. Filed Sept. 12, 1924. Serial No. 737,251. 1 Claim. (Cl. 45—113.)



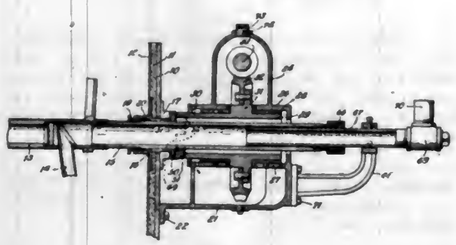
An extension table comprising a plurality of legs, longitudinal side members rigidly mounted thereon, transverse tie members connecting said side members, sides fixedly secured to said side members, beaded members fixed to said sides on the top thereof, top tie members connecting said beaded members, slides mounted on said side members between the top and transverse tie members and being wholly supported thereby, guides for said slides, means for limiting the movement of said slides, ends rigidly connected to said slides and movable therewith and removable leaves mounted on the slides when extended, said leaves having an apron depending from each side thereof corresponding to said sides and spacing members secured to the under surface at the sides thereof to contact with said extended slides to position said leaves in the same plane as the table top, and guides secured to said under surface for contacting with said slides.

1,665,834. MECHANISM FOR CUTTING PAPER SHELL BLANKS FROM CONTINUOUS ROLLS OF PAPER. WILLIAM T. AYER, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Original application filed Sept. 18, 1923, Serial No. 663,387. Divided and this application filed July 24, 1924. Serial No. 727,886. 1 Claim. (Cl. 164—68.)



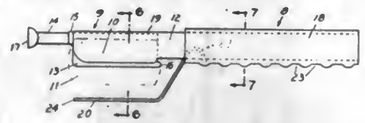
A mechanism for cutting blanks from a continuous sheet of paper comprising a pair of rolls between which the paper travels, one of the rolls being an anvil roll with a smooth cylindrical surface and the other a cutting roll carrying a knife extending spirally about and having a cutting edge projecting slightly beyond its cylindrical surface, the forward face of the knife extending from the cutting edge inwardly of the surface of the cutting roll, and the surface of the cutting roll being recessed adjacent the forward face of the knife to form a wall diverging from the inner portion of the forward face of the knife to its junction with the surface of the roll, which junction is spaced a substantial distance from the forward face of the knife, whereby a groove of tapering cross section is formed between the said wall and the forward face of the knife.

1,665,835. POWER-TRANSMITTING MECHANISM. RALPH B. BAGBY, Cedar Rapids, Iowa, assignor to J. G. Cherry Company, Cedar Rapids, Iowa, a Corporation of Iowa. Filed Oct. 5, 1922. Serial No 592,462. 3 Claims. (Cl. 74—7.)



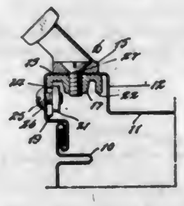
1. In combination, a coil shaft free to wabble, a frame, a hub supported in the frame, a worm gear fixed to said hub, a nipple extending through said hub and connected to said coil shaft, means for supporting said nipple independently of said hub, a worm communicating with said worm gear and mounted independently thereof, a motor, flexible means connecting the motor and the worm, and means arranged on said hub and said nipple for rotating said coil shaft, whereby any wabbling motion of the coil shaft will not be transmitted to the worm, gear or said other shafts.

1,665,836. RAZOR-BLADE HOLDER. LEA W. BAKER, Pomona, Calif. Filed Apr. 29, 1925. Serial No. 26,631. 3 Claims. (Cl. 51—218.)



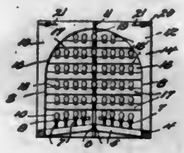
1. A stropping holder for razor blades comprising a blade holder, a handle-forming extension on said holder, and a combined stropping guide and handle-grip comprising a wire having a grip portion formed into a plurality of turns transverse to said extension to longitudinally receive and be held by said extension and a guide portion projecting opposite said blade holder in the plane normally assumed by a blade in said holder and parallel to the edge of said blade.

1,665,837. SAFETY ANCHOR MOUNTING. ANTONIO BARDELLO, New York, N. Y., assignor to Ainsworth Buck, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1927. Serial No. 205,831. 6 Claims. (Cl. 20—72.)



1. A manufactured window frame including a thin sheet metal form, a reinforcing element contained within the frame and permanently secured thereon, a side of the frame opposite the element providing an anchor receiving surface free of projections whereby the frame may be shipped and installed in place without the anchor, the side of the frame forming said surface and the reinforcing element in rear of the same provided with aligned bolt apertures adapted to receive an anchor securing bolt, the part of the aligned apertures contained in the reinforcing element being threaded, a safety anchor engaging said surface and a screw for securing the anchor passed therethrough, through the aperture in the frame and in engagement with the threaded aperture in the reinforcing element.

1,665,838. AERIAL SIGNALING METHOD AND MEANS. EDMUND BECKER, Washington, D. C.; Camille Hindmarsh and Marie L. Wallis executrices of said Edmund Becker, deceased. Filed Jan. 10, 1924. Serial No. 685,400. 11 Claims. (Cl. 240—1.)



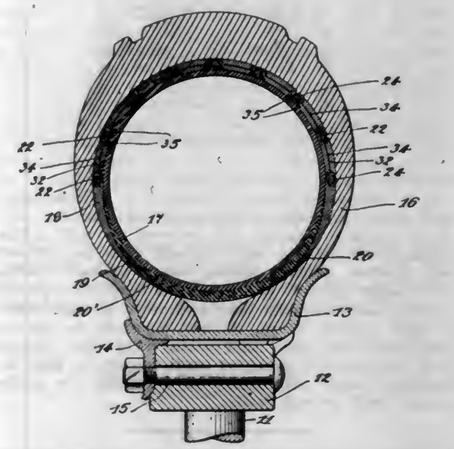
1. In an aerial beacon, a substantially horizontal circular apertured frame, a substantially vertical, arcuate apertured, frame supported above said first mentioned frame, and means for illuminating the apertures of said frame.

1,665,839. INVERTED-EDGE HAT CARRIER. JACOB BERNSTEIN, Philadelphia, Pa. Filed June 16, 1926. Serial No. 116,352. 2 Claims. (Cl. 206—8.)



2. A hat carrier of the character stated, consisting of a substantially rigid inner core comprising a crown portion and a rim portion of sized textile material, and an outer layer of surfacing fabric snugly secured to the outer surface of the crown portion and the upper surface of the rim portion of the core by the adhesion of the sizing within the latter; the free edge of the surfacing fabric being secured to the edge of the rim of the core by a row of stitches passing therethrough and through the rim, and a plurality of snap fasteners secured to the rim.

1,665,840. VEHICLE TIRE. DAVID N. BOOTH, New York, N. Y. Filed July 12, 1927. Serial No. 205,061. 7 Claims. (Cl. 152—18.)



1. In a vehicle tire, an armor comprising a band of flexible material having a plurality of openings therein, a plurality of blocks each placed in an opening in the band so that the blocks are movable in the band and the parts are adapted to conform to the shoe of a tire under working conditions thereof, and reinforcing plates in overlapping relationship in the said band and blocks.

1,665,841. ELECTRIC CUT-OUT. GEORGE R. BROWN, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Sept. 17, 1925. Serial No. 57,037. 1 Claim. (Cl. 173—358.)

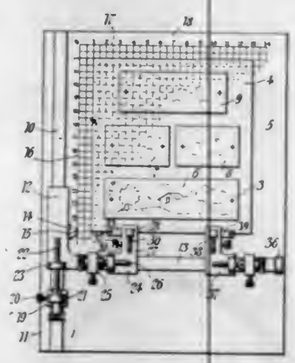
A sealing plug for electric cut-outs comprising a screw-threaded metal thimble adapted to make shunting contact between the center and screw shell contacts of a

cut-out, and a metal disk provided with oppositely inclined spaced teeth secured at the inner end of said



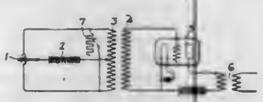
thimble whereby it may be operated by a screw driver into permanently fixed operative position in said screw shell contact.

1,665,842. MEANS FOR MAKING ETCHED PRINTING PLATES. HENRY H. BRUNINGS, Brooklyn, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1925. Serial No. 64,045. 5 Claims. (Cl. 33—184.5.)



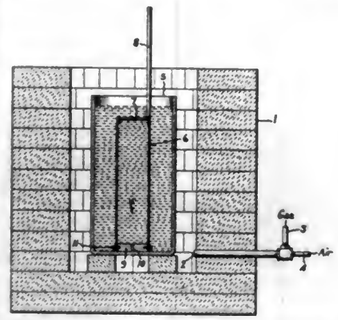
1. A composing device including a combination a table having carriage guiding means near one edge thereof, a carriage mounted for traverse on said guiding means, there being a scale on said table parallel with said carriage guiding means, means on said carriage for reading against said scale, an arm fixed to said carriage and extending over said table at right angles to said guiding means, a slide mounted for traverse lengthwise said arm, said table being also provided with a transverse scale at right angles to said first mentioned scale, and means on said slide for reading against said traverse scale.

1,665,843. AMPLIFIER. IRVING F. BYRNES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1924. Serial No. 747,385. 8 Claims. (Cl. 179—171.)



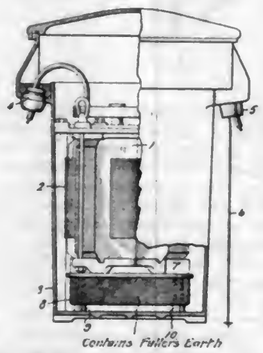
1. The combination in an amplifying system of a push-pull circuit arrangement which includes a source of direct current, and means for producing variable currents from said source of direct current, and an impedance connected between two points in said circuit arrangement which are at the same potential with respect to the direct current component of the source but at different potentials with respect to the variable currents.

1,665,844. METHOD OF PURIFYING METALS. JOHN J. CONLIN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 6, 1927. Serial No. 181,543. 5 Claims. (Cl. 75—17.)



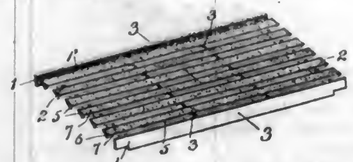
1. The method of purifying a readily oxidizable metal which comprises placing the metal in a container provided with a vent and submerging the container in molten material which does not react with said metal and which has a temperature sufficiently high to cause separation of the metal and impurities contained therein.

1,665,845. ANTISLUDGING MEANS FOR OIL. DAVID C. COX, Soldier Summit, Utah, assignor to General Electric Company, a Corporation of New York. Filed Sept. 28, 1926. Serial No. 138,303. 4 Claims. (Cl. 175—361.)



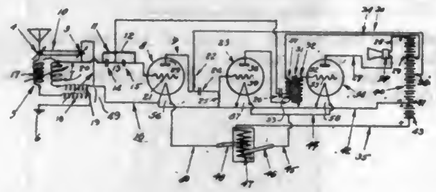
1. In combination with a charge of mineral oil which is subjected to an elevated temperature for a sufficient length of time to permit sludging to occur, a body of fuller's earth in contact with said oil, and sufficient in quantity to reduce sludging of the oil.

1,665,846. GRATING. HARRY DENNI, Kansas City, Mo. Filed July 5, 1927. Serial No. 203,895. 8 Claims. (Cl. 94—30.)



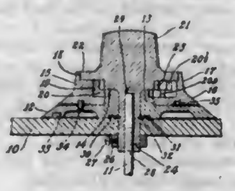
1. A grating having two side bars, transverse bars supported by said side bars, one of said transverse bars having transverse notches in its upper edge, and channel bars mounted concave sides up on said transverse bars and respectively in said notches with their upper edges in the plane of the upper edges of said side bars.

1,665,847. RADIO RECEIVING SYSTEM. PHILIP E. EDELMAN, Chicago, Ill. Filed June 5, 1922. Serial No. 566,132. 6 Claims. (Cl. 250—20.)



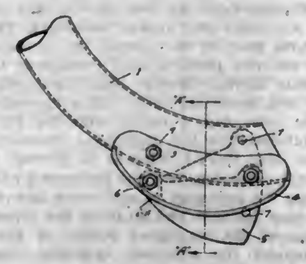
1. In a radio receiver including a series of vacuum tubes having input and output circuits, a grid input circuit for one of said vacuum tubes, a plate output circuit for another of said vacuum tubes succeeding said first named vacuum tube in said series, and a resistance connected to feed energy from said last named plate output circuit via said resistance to the grid of said first named vacuum tube, whereby a limited amount of said output circuit energy is applied to said grid of said first named vacuum tube under the control of said resistance.

1,665,848. PRECISION ADJUSTMENT DEVICE. JOHN R. GAMMETER and CHARLES C. CADDEN, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 13, 1922. Serial No. 587,922. 9 Claims. (Cl. 74—7.)



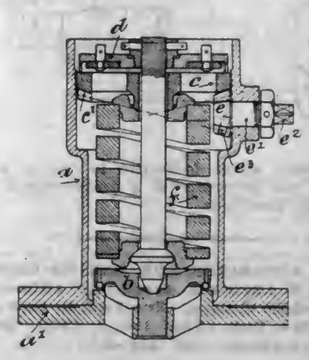
6. In a precision adjustment device, the combination of an instrument mounting having mounted thereon a rotary part to be angularly adjusted, a dial member journaled concentrically with and adapted to be rotated with said part, means for securing said dial member in different angular positions, and a set of differential gears carried by said member and adapted to rotate said part with relation to said member, the differential ratio or ratios of said gears being such as substantially to interlock said member and said part against relative rotary movement as to any force acting between them except through said gears.

1,665,849. TAIL-SKID SHOE FOR AIRPLANES. JOHN F. HABERLIN, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed Aug. 3, 1927. Serial No. 210,393. 1 Claim. (Cl. 244—2.)



An article of the class described comprising a friction shoe, a keel member swingably mounted within said shoe and adapted to adjustable movement externally of the shoe and means for locking said keel in any of its adjusted positions.

1,665,850. SAFETY VALVE. WILLIAM HARGREAVES, West Didsbury, Manchester, England, assignor of one-half to R. L. Ross and Company Limited, Stockport, England. Filed Mar. 16, 1927, Serial No. 175,914, and in Great Britain Apr. 6, 1926. 4 Claims. (Cl. 137—53.)



1. A device of the character described, comprising in combination, a series of safety valve units disposed for operation in parallel, means carried by each of said units and adjustable to hold its valve to its seat with variable pressure, each of said units being provided with enclosed non-tamperable means for independently and relatively adjusting said holding means and separately setting the valve units, means carried by each valve and operable from outside the valve for actuating its adjusting means and means connecting the outside operable means of the individual valves thereby to permit alteration in the relative seating pressure of the individual valves.

1,665,851. ELECTRIC BUTT-WELDED TUBING AND METHOD OF MAKING THE SAME. JOSEPH W. HARRIS, Washington, D. C. Filed Sept. 26, 1924. Serial No. 740,070. 36 Claims. (Cl. 219—6.)



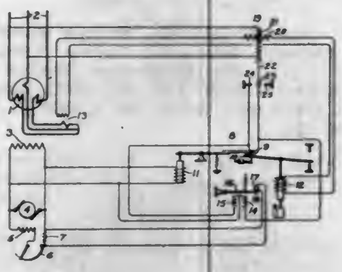
1. Skelp having serrated edges, said serrations being cut in directions to produce a "cross-hatching" contact when the skelp is formed into a tube and said edges are pressed together.

3. The method of electric tube welding, which comprises producing serrations upon one of the welding edges of a skelp, forming the skelp into a tube-shape, pressing said serrated edge against the other edge to form a tube, and passing an electric current across the joint through the sharp edges of said serrations.

1,665,852. REGULATING SYSTEM. MAX HERKLOTZ, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Feb. 27, 1926, Serial No. 91,213, and in Germany Mar. 26, 1925. 9 Claims. (Cl. 171—119.)

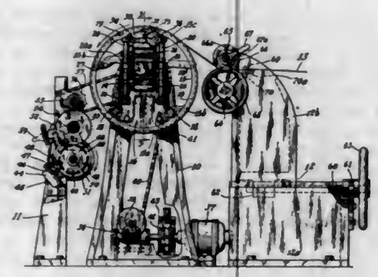
1. In combination, an alternating current dynamo-electric machine, means normally arranged to control an electrical condition of said machine, and means re-

sponsive to said controlled condition and to another electrical condition of said machine for rendering said



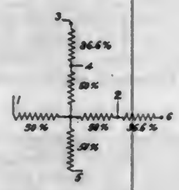
first mentioned means ineffective to control said machine upon the occurrence of a predetermined relation between said conditions.

1,665,853. APPARATUS FOR MAKING GROMMETS. CHARLES W. LEGUILLON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 5, 1924. Serial No. 724,446. 6 Claims. (Cl. 154—9.)



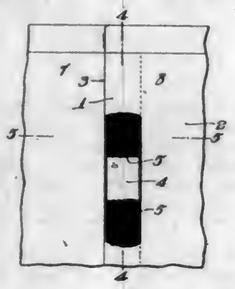
4. In apparatus for making endless rings, the combination of a drum formed with a circumferential groove, means for detachably securing one end of a strip of material within said groove, means for rotating said drum, and means for stopping said rotation after a determinate number of revolutions thereof.

1,665,854. ALTERNATING-CURRENT DEVICE. BERNARD E. LENEHAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 15, 1924. Serial No. 755,862. 11 Claims. (Cl. 171—84.)



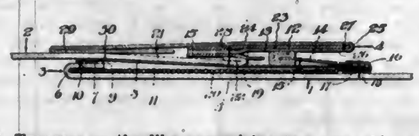
3. The combination with a three-phase circuit, of a pair of auto-transformers comprising windings having a common connection dividing said windings into four parts, primary leads connected between the circuit conductors and three of said parts and secondary leads connected to three of said parts including one part not included in the primary-lead connection.

1,665,855. TROUSERS. ARTHUR S. LICHTEN, ABRAHAM KOUFMAN, and WILLIAM SHULIK, Philadelphia, Pa. Filed July 27, 1927. Serial No. 208,678. 3 Claims. (Cl. 2—234.)



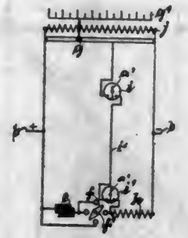
3. Trousers or the like, comprising two separable parts having their adjacent edges in overlapping relation to each other, thereby forming an outer flap, continuous and separable fastening means extending longitudinally of said flap along the inner face thereof, having one part thereof secured to said outer flap, spaced inwardly a suitable distance from the free edge thereof and having the other part thereof secured to the juxtaposed part of the trouser, an operating slide common to the two parts of said continuous fastening means, slidably carried thereby; said continuous fastening means and operating slide being concealed from view by said outer flap, and a haircloth stiffening ply in said outer flap, intermediate of said fastening means and the free edge thereof, said haircloth stiffening ply having strands of a limp character extending longitudinally and being relatively stiffer transversely than longitudinally of saidflap.

1,665,856. TROUSERS. ARTHUR S. LICHTEN, ABRAHAM KOUFMAN, and WILLIAM SHULIK, Philadelphia, Pa. Filed Oct. 17, 1927. Serial No. 226,736. 5 Claims. (Cl. 2—234.)



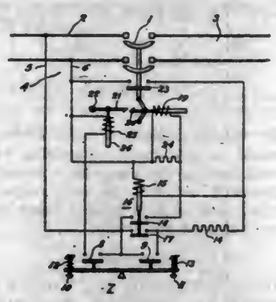
3. Trousers or the like, comprising two separable parts having their adjacent edges in overlapping relation to each other, thereby forming an outer flap, continuous and separable fastening means extending longitudinally of said flap along the inner face thereof, having one part thereof secured to said outer flap, spaced inwardly a suitable distance from the free edge of said outer flap and having the other part thereof secured to the juxtaposed separable part of the trouser, an operating slide common to the two parts of said continuous fastening means, slidably carried thereby; said continuous fastening means and operating slide being concealed from view by said outer flap, a textile stiffening ply in said outer flap intermediate the continuous fastening means and the free edge thereof, adapted to prevent the separation of said outer flap from the juxtaposed part of the trouser, along the free edge of said outer flap when the fastening means is closed, and an inner flap formed along the free edge of the overlapped portion of the trouser extending beyond the separable fastening means and being adapted to shield the latter from contact with the body and the undergarments of the wearer.

1,665,857. ELECTRICAL TRANSMISSION SYSTEM. JOHN CUTHBERT NEEDHAM, London, England, assignor to Evershed & Vignoles Limited and himself, London, England. Filed May 26, 1920, Serial No. 384,462, and in Great Britain July 10, 1919. 1 Claim. (Cl. 175—183.)



Electrical transmission system by which the speed of a moving body can be readily ascertained from a distance, comprising a potentiometer at one station; a condenser of constant capacity, a switch operated by the moving body for alternately connecting the condenser with a source of electrical energy to charge said condenser and short circuiting the condenser to discharge said condenser, and a noninductive resistance at the other station; a source of electrical energy and a polarized indicating device responsive to nonalternating electrical energy being operatively associated with the potentiometer, condenser, switch and resistance to enable the apparent resistance of the condenser and switch to be measured.

1,665,858. CIRCUIT INTERRUPTER. WILLIAM L. NEWMEYER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 11, 1924. Serial No. 725,847. 5 Claims. (Cl. 175—294.)

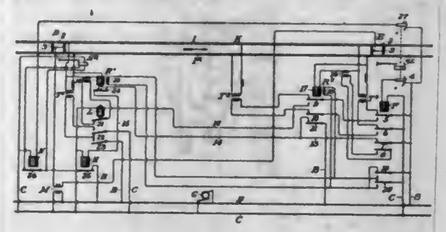


1. The combination with a circuit interrupter, a closing coil therefor, a resistor connected in parallel relation with the closing coil, and a source of electrical energy, of a relay device for connecting the closing coil to the source of energy, a switch for connecting the relay device to the source of energy, an auxiliary switch associated with the relay device for maintaining connection between the relay device and the source of energy, and means associated with the circuit interrupter for rendering the relay device ineffective.

1,665,859. METHOD OF PAINTING URINALS. JOHANN OMSCH, Glockenthal, near Steffisburg, Switzerland. Filed Oct. 23, 1926, Serial No. 143,790, and in Switzerland Oct. 29, 1925. 2 Claims. (Cl. 167—3.)

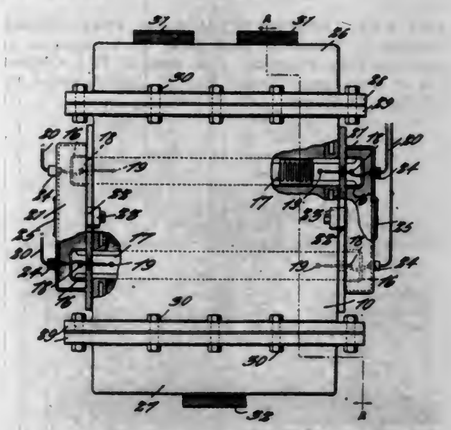
2. A method of disinfecting urinals, comprising the step of applying a coating of disinfecting oil to a coating of a black japan before the latter is dry.

1,665,860. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. BERTRAM R. PADMORE, Montrose Heights, Blawnox, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 6, 1923. Serial No. 666,919. 24 Claims. (Cl. 246—37.)



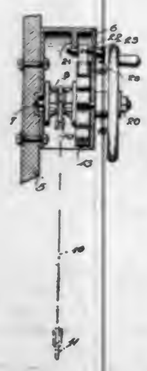
1. In combination, a section of railway track, two sources of current at the two ends of said section respectively and a third source of current at an intermediate point in said section, a track relay at the exit end of said section and a line relay at the entrance end of the section, means controlled by traffic conditions in advance of the section for rendering the source of current at the exit end of the section or the source of current at the intermediate point in the section effective to supply current to the rails of the section, means controlled by traffic conditions in advance of the section and by the track relay at the exit end of the section for energizing said line relay, and means controlled by said line relay when energized for rendering the source of current at the entrance end of the section effective to supply current to the rails of the section.

1,665,861. ELECTRIC HEATER. MARTIN K. PURDY, Stroudsburg, and WILLIAM H. REAGLE, Tobyhanna, Pa. Filed Aug. 31, 1927. Serial No. 216,638. 2 Claims. (Cl. 219—39.)



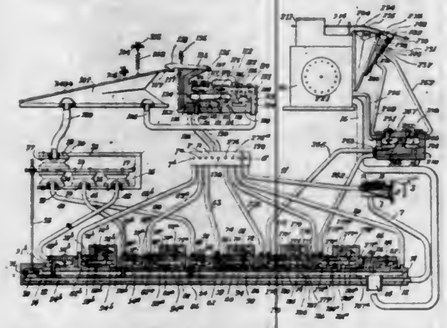
1. An electric heater comprising a housing having heating chambers normally open to the atmosphere upon opposite sides, lugs formed upon the exterior of the housing adjacent the open sides, electrical heating elements inserted through the heating chambers and secured to the lugs, cover members for the open ends of the heating chambers and for the extended ends of the lugs, means leading to conduits through the cover members into the heating chambers and connecting with the heating elements, and circulating chambers contiguous to and receiving heat from the heating chambers.

1,665,862. HAND BRAKE. WILLIAM HENRY SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Boyal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed May 8, 1924. Serial No. 711,828. 4 Claims. (Cl. 254—176.)



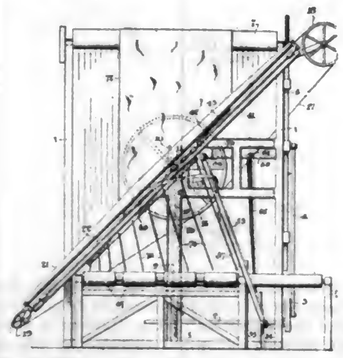
1. In an apparatus of the character described, in combination, a casing having a closed top and provided with an opening on its under side, a block chain sheave within said casing, a gear integrally formed with said sheave, a hand wheel, a shaft on which it is mounted, a pinion gear integrally formed with said shaft and meshing with the first mentioned gear, a double acting pawl co-acting with the first mentioned gear adapted to prevent rotation in either direction according to the position in which it is set, and a chain passing around said sheave in the form of a loop and connected with a second chain whereby as said sheave is rotated in either direction tension will be exerted on said second chain and said double acting pawl will hold the same in tensioned position.

1,665,863. AUTOMATIC MUSICAL INSTRUMENT. CHARLES F. STODDARD, New York, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 12, 1924. Serial No. 698,599. 56 Claims. (Cl. 84—41.)



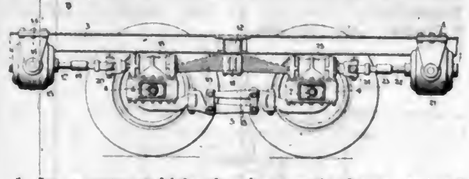
1. In an automatic musical instrument having player pneumatics and a source of pneumatic power, in combination, means to govern the pressure applied to said player pneumatics by said source of power to thereby govern playing intensities including a regulator responsive to changes in pressure applied there to by said source of power, and means to vary by perceptible increments the pressure applied to said governing means by said source of power to thereby additionally govern playing intensities.

1,665,864. DISENGAGING DEVICE. EDWIN G. TEMPLETON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 17, 1925. Serial No. 56,985. 10 Claims. (Cl. 164—65.)



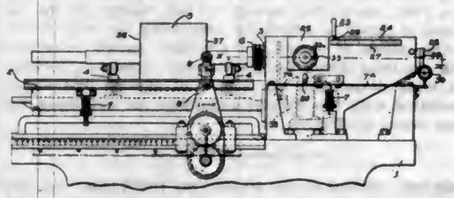
1. A strip removing device for bias cutters comprising disengaging means, an inclined belt conveying mechanism and a plurality of strip supporting members arranged substantially parallel to the belt mechanism and adapted to deposit the strips in substantially horizontal position.

1,665,865. MOTOR-VEHICLE-DRIVING MECHANISM. ELLIS W. TEMPLIN, Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Oct. 19, 1921, Serial No. 508,844. Divided and this application filed Nov. 9, 1925. Serial No. 67,928. 5 Claims. (Cl. 180—22.)



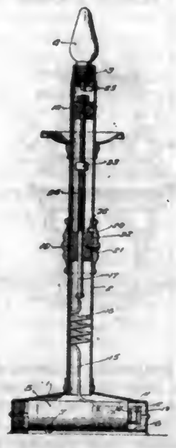
1. In a motor vehicle chassis, a main frame, a truck resiliently mounted on said frame comprising two spaced driving axles each having driving wheels mounted thereon, a motor pivotally mounted on said frame on each side of said truck, each of said motors being operatively connected to the adjacent drive axle.

1,665,866. BALANCING MACHINE. WILLIAM E. TRUMPLER, Wilkinsburg, Pa., assignor to Westingbouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1924. Serial No. 716,331. 12 Claims. (Cl. 73—51.)



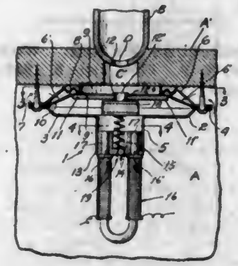
1. In a balancing machine, a drive spindle, a countershaft, frictional coupling means therefor, a plurality of counterbalance weights associated with said countershaft and axially movable thereon and conical rollers for adjusting said weights angularly to balance the unbalanced mass of the body being tested.

1,665,867. ELECTRIC BOUDOIR LAMP. CHARLES WACHTEL, New Hyde Park, N. Y. Filed Nov. 18, 1924. Serial No. 750,602. 4 Claims. (Cl. 240—10.5.)



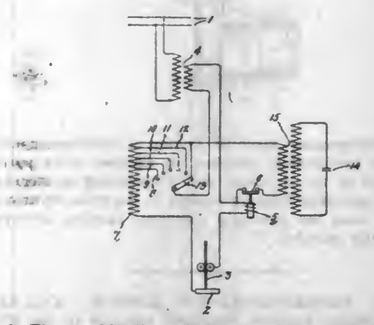
1. An electric lamp comprising a slender tubular standard, a hollow base supporting the standard, a lamp socket carried by the upper end of the standard, a battery located within the base, means forming a normally open electrical circuit from the battery to the lamp socket, a sleeve encircling the standard and adapted to be grasped to lift the lamp, said sleeve being adapted to slide upwardly toward the lamp socket a limited distance when a lifting force is exerted thereon, reciprocable circuit closing means within the tubular standard, a yieldable operative connection between the sleeve and said means to close the circuit when the sleeve is shifted toward the lamp socket, and means to lock the sleeve in circuit closing position, said circuit closing means and sleeve being adapted to gravitate to circuit opening position when the sleeve is released.

1,665,868. VALVE ACTION FOR PIPE ORGANS. HARRY F. WATERS, St. Louis, Mo. Filed Feb. 19, 1927. Serial No. 169,466. 11 Claims. (Cl. 84—338.)



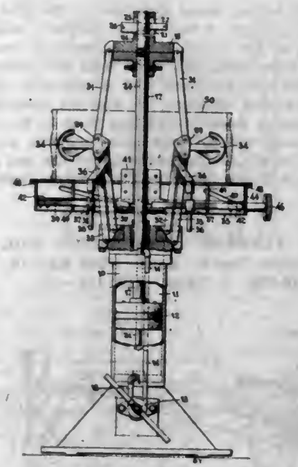
5. A valve mechanism for pipe organs comprising a housing having an air passageway formed through a wall thereof and arranged in communication with an organ pipe, a valve seat at said air passageway, a pneumatic pouch within said housing, a portion of said pneumatic pouch being movable as a valve into and out of contact with said valve seat whereby passage of air to said organ pipe may be controlled, said pouch being provided with an air passageway formed through a wall thereof by means of which the interior of said pouch is placed in communication with said organ pipe, a valve within said pouch movable into and out of contact with a valve seat to control the passage of air through the passageway formed through the wall of said pouch, and means whereby the operation of the second mentioned valve may be effected.

1,665,869. ELECTRIC WELDING. JAMES M. WEED, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 18, 1925. Serial No. 30,933. 6 Claims. (Cl. 171—119.)



1. The combination of an alternating current welding circuit, an adjustable reactance device connected to said circuit, an adjustable capacitance device connected to said circuit, and means electrically interconnecting said devices for simultaneously producing substantially proportionate adjustments in the volt amperes of said circuit and said capacitance device.

1,665,870. SHAPING DEVICE. LAURENCE WETMORE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 26, 1926. Serial No. 131,625. 7 Claims. (Cl. 154—10.)



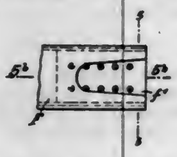
7. The combination with a tire band shaping machine having means adapted to shape the central portion of a tire band, of a band centering device comprising a band engaging member in operative relation with respect to the shaping means, adapted to support the band, a cylindrical member provided with a plurality of helical slots adapted to freely support the engaging member and a plurality of lugs operative by movement of the band centering device and projecting through the slots in the cylindrical member slidably to support the latter.

1,665,871. REFRIGERATING MACHINE. JAMES J. WOOD, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Feb. 10, 1926. Serial No. 87,400. 3 Claims. (Cl. 230—232.)



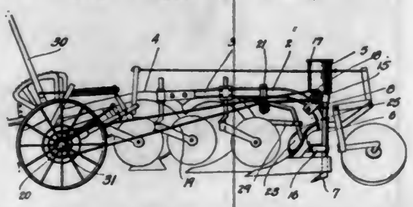
1. A refrigerating machine having a compressor comprising an oscillatable cylinder, an exhaust valve seated on the end of the cylinder, and a combined muffler box and valve enclosing housing secured to the cylinder around the valve, said box having a discharge opening arranged adjacent the cylinder.

1,665,872. ASSEMBLAGE-POINT DEVICE. KARL ARNSTEIN, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau, Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 28, 1920, Serial No. 392,483, and in Germany Oct. 13, 1917. 3 Claims. (Cl. 189—37.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



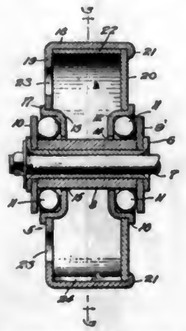
1. A light weight metal structure of the type described comprising a stress transmitting member, said member constituting a thin walled tube, the walls at one end portion of the tube being cut out to form two oppositely disposed spaced end portions, and a plurality of channel shaped connecting members, the channel shaped members having fastening means connecting them to the oppositely disposed spaced end portions, said fastening means being accessible through the cut out walls of the end portion of the tube to facilitate fastening the members together.

1,665,873. PLANTER ATTACHMENT FOR PLOWS. LOUIS BINDER, Norton, Kans. Filed Mar. 16, 1925. Serial No. 15,825. 1 Claim. (Cl. 111—1.)



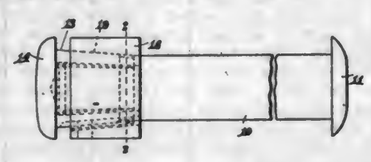
In combination with a gang plow comprising a plurality of plows arranged in gang formation, a seed distributor located with relation to the inner furrow producing plow to deposit seeds in the furrow produced by said plow and a furrowing disk positioned with relation to the outermost plow of the gang for removing the excess earth applied to the seeded furrow by said outer plow during the next succeeding traversal of the gang plow across the field.

1,665,874. SKATE WHEEL. HERMAN CASLER, Canastota, N. Y., assignor, by mesne assignments, to Rex-Watson Corporation, Canastota, N. Y. Filed Mar. 20, 1925. Serial No. 16,958. 1 Claim. (Cl. 308—190.)



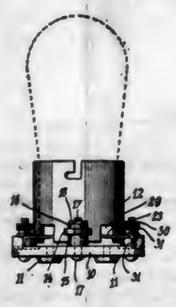
A roller bearing comprising a sleeve, a tubular member of less length than said sleeve and mounted upon said sleeve, flat washers on said sleeves, the ends of said sleeves swaged to clamp the washers against the ends of said tubular member, ball bearings and bearing cups therefor holding said bearings against said washers and said tubular member.

1,665,875. BOLT. MELBURN A. COMEAU, Haverhill, Mass. Filed May 16, 1927. Serial No. 191,654. 10 Claims. (Cl. 85—5.)



1. The combination of a bolt having a reduced tapered end of which the greatest diameter is at its outer extremity; a thimble provided with a socket to receive said tapered end, the wall of said socket consisting of a plurality of separated sections; and means surrounding said thimble adapted to force said sections into contact with said tapered end.

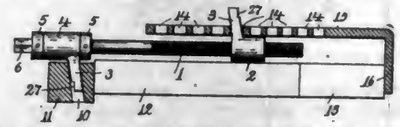
1,665,876. RADIO TUBE SOCKET. WILLIAM H. EGGERS, Brooklyn, N. Y. Filed June 5, 1925. Serial No. 35,211. 2 Claims. (Cl. 173—328.)



1. A radio tube socket comprising a base having a plurality of substantially equidistantly counter sunk seats, a tubular body provided with a plurality of cut-away portions on its lower edge corresponding to said counter-

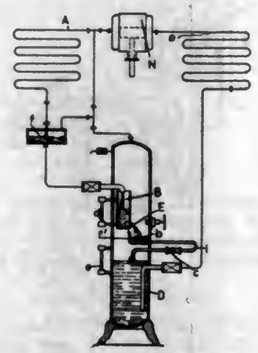
sunk seats, a terminal secured at one end in each of said seats and having the other end thereof overlapped and extending into the tubular body through the cut-away portions therein, a plurality of outwardly extending ears on the tubular body near the lower edge thereof and adjacent said cut-away portions, means extending through said ear and base for connecting said tubular body and said base with the cut-away portions in alignment with the countersunk seats, and a cushioning element above and below each ear and retained by said connecting means.

1,665,877. CLAMP. CHARLES H. FERNALD, Malden, Mass. Filed May 27, 1927. Serial No. 194,708. 1 Claim. (Cl. 144—303.)



A clamp comprising a screw rod having at one end means for its rotation, a collar rotatable but not slidable on said rod, and a threaded collar turning on the threaded portion of said rod, each collar having a straight but slightly inclined finger projecting therefrom, each finger being roughened on its acute-angled face, and formed with a notch at the end of its opposite face, said collars being entirely independent of each other except as controlled by said rod.

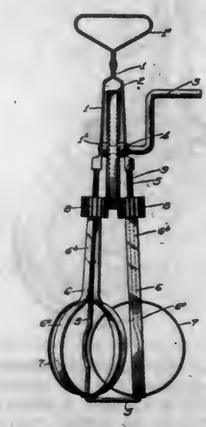
1,665,878. REGULATING DEVICE FOR REFRIGERATING MACHINES. KARL GLÄSSEL, Cannstatt, Germany. Filed Mar. 20, 1925, Serial No. 17,093, and in Germany May 6, 1924. 3 Claims. (Cl. 62—115.)



1. A device for regulating refrigerating machines, comprising, in combination: a compressor, a condenser, a regulating valve, two vessels serving for conducting the refrigerating liquid from the condenser to the regulating valve, one of said vessels being arranged within the other vessel in such a manner as to be superposed to the latter, so that a drop of flow is produced between said two vessels, an orifice provided in said superposed vessel and establishing a communication between said vessels, means for regulating the cross sectional area of said orifice, and a vessel arranged between said condenser and the upper one of the before mentioned two vessels.

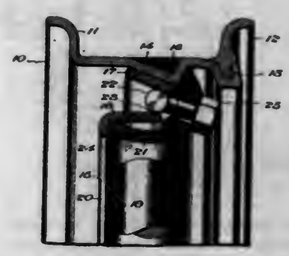
1,665,879. EGG BEATER. SCOTT S. GRAVES, San Diego, Calif. Filed May 9, 1923. Serial No. 637,646. Renewed Sept. 16, 1926. 7 Claims. (Cl. 259—131.)

1. An egg beater, including a frame, a gear revolubly mounted on said frame, a crank member secured to said gear for turning the same, a beater-member support secured to said frame and extending therefrom, a beater-member provided with a loop portion at its lower end and arms extending upwardly therefrom, the lower end of said loop portion being revolubly mounted on said beater-



member support, a pinion secured to the extended arms of said beater-member and revolubly mounted on said beater-member support and shiftable relatively to said gear, and a spring interposed between said pinion and said frame.

1,665,880. VEHICLE WHEEL. JAMES E. HALE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 24, 1921. Serial No. 502,938. 2 Claims. (Cl. 301—24.)

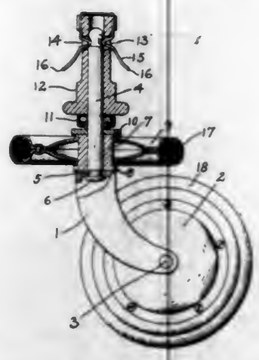


2. The combination with a felly having a rim-seating portion in radial alignment with a spoke-receiving portion, of a demountable tire rim, and clamping means for securing the tire rim to the felly comprising a clamp member and a T-headed bolt operating therewith, said bolt being swingably mounted intermediate the rim-seating and spoke-receiving portions of the felly.

1,665,881. BITUMINOUS PRODUCT AND METHOD OF MAKING SAME. EUGEN HUTZENLAUB, Stuttgart-Gaisburg, Germany, assignor to firm Paul Lechler, Stuttgart, Germany. Filed June 26, 1926, Serial No. 118,859, and in Germany July 8, 1925. 8 Claims. (Cl. 134—1.)

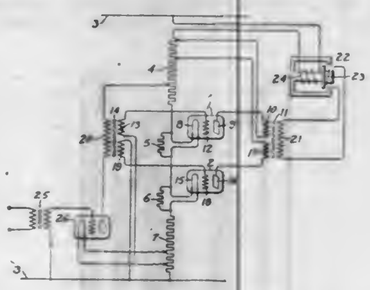
2. As a new product, a stable mixture of a tarry substance and water, such mixture having the form of a cream-like paste which is substantially non-miscible with water at ordinary temperature, such product containing a small amount of an emulsifying agent, but insufficient to form an aqueous emulsion.

1,665,882. CASTER. NELSON L. JARVIS and FRANK J. JARVIS, Palmer, Mass., assignors to Jarvis & Jarvis, Inc., Palmer, Mass., a Corporation of Massachusetts. Filed Feb. 8, 1926. Serial No. 86,840. 2 Claims. (Cl. 16—18.)



1. In a device of the character described, a roller bracket, a caster stem secured to the bracket, a bearing portion having a collar on the stem, a guard roller on the bearing portion resting on the collar, a ball bearing over the bearing portion, and a sleeve over the ball bearing rotatably mounted on the stem.

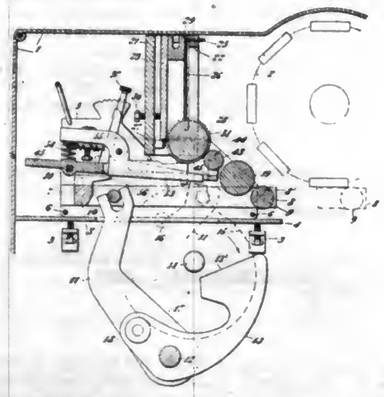
1,665,883. POWER-AMPLIFYING SYSTEM. EDWARD W. KELLOGG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 13, 1926. Serial No. 108,941. 9 Claims. (Cl. 179—171.)



4. The combination of current supply means, impedance means connected to said supply means, and a push-pull amplifier provided with cathode heating circuits connected across different portions of said impedance means and with output circuits connected across portions of said impedance means that have equal potential drops.

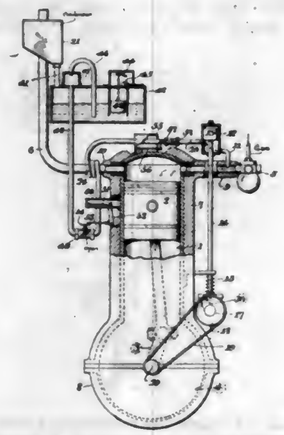
1,665,884. INKING MECHANISM OF MACHINES FOR FRANKING POSTAL MATTER AND THE LIKE. ULRICH KOHLER, Bern, Switzerland, assignor to Hasler A.-G. vormals Telegraphenwerkstätte von G. Hasler, Bern, Switzerland, a Swiss Corporation. Filed Sept. 8, 1926, Serial No. 134,213, and in Switzerland Sept. 16, 1925. 8 Claims. (Cl. 101—360.)

1. Inking mechanism comprising in combination a framework adapted to be detachably inserted in a machine, an ink box removably mounted on said framework, an ink container open at the top and bottom removably inserted in said ink box, a doctor roll journalled in said ink box closing the open bottom of said ink container, a sliding member fitting the open top of said ink container, a frame mounted to reciprocate below said box, an inking roll carried by said frame in operative relation to said doctor roll, a lever arranged



to reciprocate said frame, and a feed mechanism actuated by said frame and arranged to feed said doctor roll step-by-step.

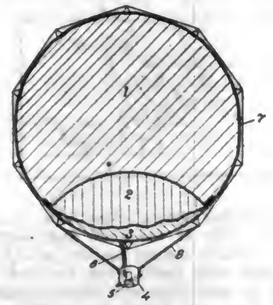
1,665,885. INTERNAL-COMBUSTION ENGINE. HENRY ERNEST LE MESURIER, London, England. Filed Apr. 7, 1925, Serial No. 21,371, and in Great Britain Apr. 17, 1924. 12 Claims. (Cl. 123—25.)



1. In an internal combustion engine the combination of a cylinder, means for preventing loss of heat therefrom, means for admitting water to the cylinder during the admission stroke in sufficient quantity to prevent overheating of the said cylinder, and means for automatically stopping the engine whenever the supply of water is insufficient to prevent overheating of the cylinder.

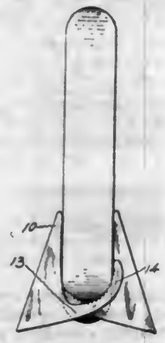
1,665,886. GAS-INFLATED AIRSHIP. EBERHARD LEMPERTZ, Friedrichshafen, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed July 19, 1926, Serial No. 123,316, and in Germany Feb. 18, 1926. 10 Claims. (Cl. 244—6.)

1. An airship comprising a structure adapted to be inflated with gas; a motor adapted to propel said structure; a gas contained in said structure and being of lower specific gravity than air; a second gas contained in said structure and having a specific gravity substan-



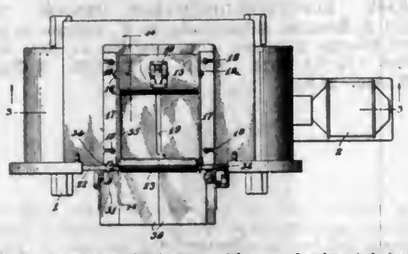
tially alike that of air; said first gas being adapted to serve as lifting gas; said second gas being adapted to serve as fuel for said motor.

1,665,887. HOLDER FOR TIRES. FREDERICK A. LIND, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 10, 1923. Serial No. 656,664. 4 Claims. (Cl. 211—24.)



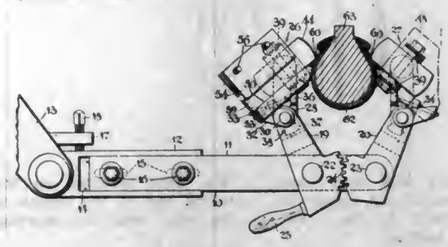
1. A tire holder comprising two separate members each provided with a portion adapted to engage one side wall of a tire casing and an arm-like portion adapted to extend beneath the tire in clamping engagement therewith.

1,665,888. CAKE-SPLITTING MACHINE. JOHN B. LITTY, Philadelphia, Pa. Filed Sept. 21, 1925. Serial No. 57,520. 13 Claims. (Cl. 146—72.)



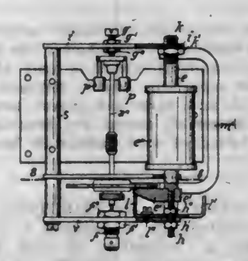
13. In a cake splitting machine, a horizontal bed, a band knife disposed parallel thereto and adapted to move transversely thereof, mechanism for moving said knife, means movable longitudinally of said bed for moving a cake through the path of the knife, means for moving said cake-moving means, a guide for holding the cake against lateral movement during the splitting operation, and means mounted above the knife for holding the cake against upward movement during the splitting operation.

1,665,889. CHAFING-STRIP APPLIER. ELOY F. MAAS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 16, 1926. Serial No. 95,043. 7 Claims. (Cl. 154—10.)



1. An attachment for a tire building machine having a carcass supporting core mounted thereon, a swinging bracket mounted adjacent the core, a pair of interconnected arms pivoted to the bracket and adapted to operate on opposite sides of the core, spring pressed roller members secured to the arms for engaging the tire carcass supported by the core, and individual guides mounted on the arms for directing strips of fabric under the rollers.

1,665,890. SYNCHRONOUS MOTOR SPECIALLY FOR DRIVING CLOCKS. ROBERT MICHL, Kosice, Czechoslovakia. Filed June 10, 1925, Serial No. 36,275, and in Germany June 13, 1924. 4 Claims. (Cl. 172—120.)



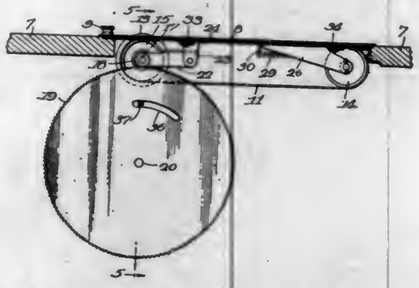
1. A synchronous motor, comprising in combination, a disk-like rotor formed of spaced segments, two exciter magnets the pole shoes of which are situated in a a plane adjacent and parallel to the plane of rotation of said rotor segments, and an alternating current electromagnet the pole nose of which is situated in another plane adjacent and parallel to but on the other side of the plane of rotation of said rotor segments.

4. A synchronous motor, comprising in combination, a disk-like rotor formed of spaced iron segments, two exciter magnets the pole shoes of which are situated in a plane adjacent and parallel to the plane of rotation of said rotor segments, said exciter magnets being bowed out in outward direction in order to make the motor as flat as possible.

1,665,891. STATION-SELECTOR DIAL FOR RADIO RECEIVING SETS. MARTIN NYSTROM, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed July 25, 1925. Serial No. 46,043. 15 Claims. (Cl. 40—96.)

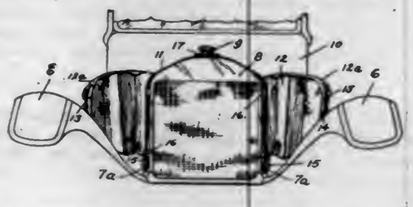
1. Station selector means for radio receiving sets comprising a support, a tuning element, a rotor shaft for the tuning element, a frame pivotally connected

to said support, another frame slidably mounted on said support, a drum revolubly mounted in each of said frames, means operatively connecting one of the drums



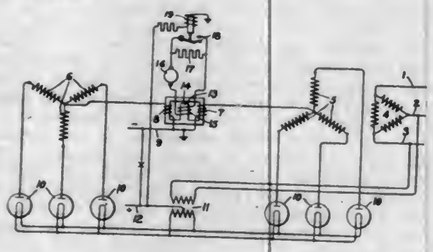
with said rotor shaft, a dial band mounted on the drums, and means for operating one of the drums to adjust the dial band and the rotor shaft for selecting a station.

1,665,892. AUTOMOBILE LUGGAGE CARRIER. MARK O'DEA, St. Paul, Minn. Filed June 23, 1924. Serial No. 721,769. 3 Claims. (Cl. 224—29.)



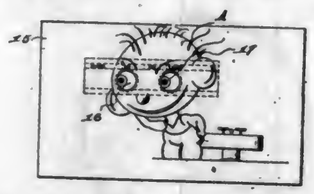
1. A luggage carrier for automobile comprising a supporting means adapted to extend over the top and side portions of an automobile hood, a pair of receptacles secured to said supporting means, disposed respectively at each side of said hood and means secured to the rear of said supporting means for securing the same to the rear portion of said automobile hood.

1,665,893. SYSTEM OF DISTRIBUTION. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 23, 1924. Serial No. 739,443. 10 Claims. (Cl. 175—363.)



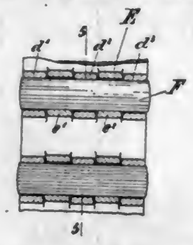
9. The combination of polyphase windings, a direct current circuit, an interphase transformer comprising a magnetic core and windings wound on said core and connected between said direct current circuit and said polyphase windings, and means operable in accordance with the voltage of said direct current circuit for varying the saturation of said core to regulate the relation between the voltages of said polyphase windings and said direct current circuit.

1,665,894. ADVERTISING DEVICE. RUSSELL L. REICHARD, Allentown, Pa. Filed Aug. 19, 1926. Serial No. 130,287. 4 Claims. (Cl. 40—138.)



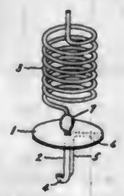
1. An advertising device comprising a plate, disks pivoted at one side of the plate and adapted for the reception of suitable display matter, means for rocking said disks upon their pivots when the plate is tilted, a card secured to said plate and having openings therein opposite the disks, said disks being adapted to rock from one side to the other of said openings, and thereby display through said openings the display matter thereon.

1,665,895. SHAFT COUPLING. LEONZ RIEGER, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 28, 1920, Serial No. 392,436, and in Germany May 22, 1919. 2 Claims. (Cl. 64—96.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An elastic coupling comprising two concentric rims, one within the other; inwardly extending projections on the outer rim; outwardly extending projections on the inner rim; said projections being arranged in axially extending rows, the projections of a row on one rim fitting in the gaps between the projections of the corresponding row on the other rim, and in circumferential direction the projections on the outer rim alternating with those on the inner rim; and a non-metallic compressible band axially extending between the projections of the outer and of the inner rim.

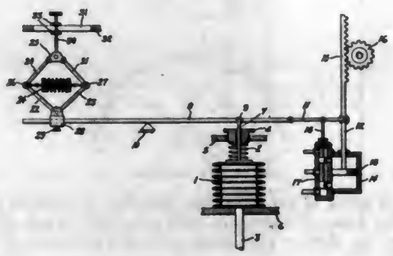
1,665,896. ELECTRON-DISCHARGE DEVICE. WILLIAM A. RUGGLES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 17, 1924. Serial No. 726,623. 3 Claims. (Cl. 250—27.5.)



1. A resilient filament support comprising a coil spring body member, a rod-like member extending therefrom in the direction of the axis of said spring, filament retaining

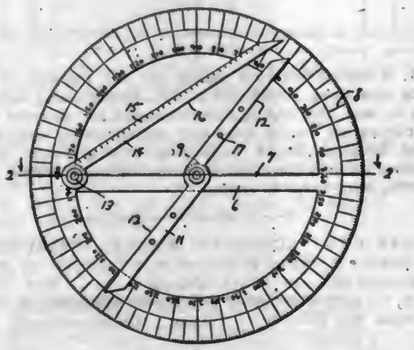
means upon said rod-like member and a heat dissipating metal plate disposed loosely upon said member and intermediate the spring body and the filament retaining means and perpendcular to the axis of said spring and bracing means attached to the metal plate and rod-like member.

1,665,897. ELASTIC CONNECTION. REGINALD G. STANDERWICK, Marblehead, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 23, 1926. Serial No. 104,235. 5 Claims. (Cl. 267—20.)



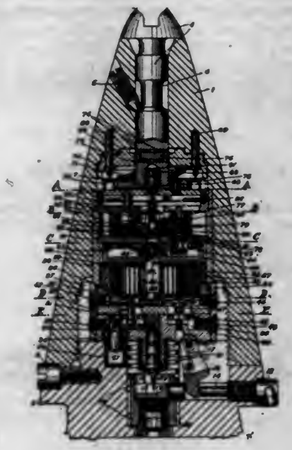
1. The combination with an elastic connection having a straight line characteristic, of means for modifying such characteristic comprising a spring which extends at a right angle to the line of movement of said elastic connection and has an initial tension equal to the product of its scale and free length, and means for moving the spring always in a straight line, said means comprising an angularly disposed arm pivoted to said elastic connection and to said spring.

1,665,898. DRAFTING INSTRUMENT. LOUIS G. STRICKLAND, Huntington, N. Y. Filed June 7, 1927. Serial No. 197,100. 2 Claims. (Cl. 33—75.)



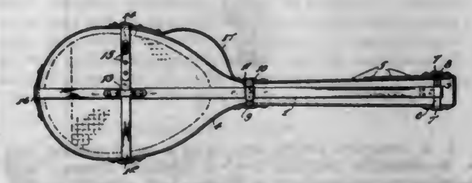
1. In a device of the class described, a ring, a bar formed integrally therewith and extending across the center of the ring with one edge of the bar forming a center line therethrough, an arm pivotally mounted at the center of the bar and having one edge thereof forming a center line across the ring and an arm having one end pivotally mounted at the junction of one end of the bar with the ring, one edge of said arm forming a center line through said pivotal connection.

1,665,899. MECHANICAL FUSE FOR ARTILLERY PROJECTILES. ANDRÉ VARAUD, Geneva, Switzerland. Filed Jan. 7, 1927, Serial No. 159,530, and in Switzerland Jan. 16, 1926. 16 Claims. (Cl. 102—86.)



1. In a mechanical fuse for artillery projectiles of the type in which the power member of the clockwork is constituted by a barrel shaft arranged in the axis of the fuse in such a manner as to describe several revolutions, in one direction for effecting, prior to firing, simultaneously the winding and the setting or adjusting of the fuse, and in the inverse direction and during the trajectory under the action of the power spring and for driving the rotary member controlling the release of the striker member, and also for transmitting the driving power to a regulating device of the clockwork with a dead-beat escapement and a spiral balance, in combination a frame, for housing the different movable members of the clockwork, said frame being composed of at least two parts, one of them being a fixed one and containing the power spring, said fixed part being integral with the fuse body, and a movable one adapted to become, prior to firing, displaced angularly with regard to the fixed part, for effecting simultaneously the winding of the power spring and the adjusting of the time of ignition of the projectile charge, means being provided, which, in function of the inertia, are adapted to render, during the complete trajectory, this movable part of the frame integral with the said fixed part.

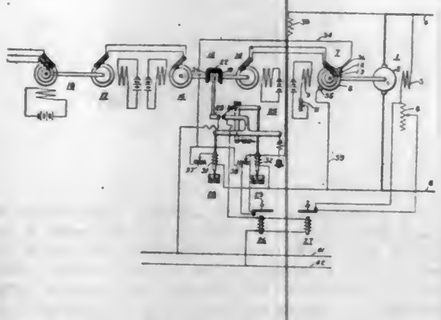
1,665,900. TENNIS-RACKET CARRIER. OLIVIA E. VAUGHAN, Newark, N. J. Filed May 12, 1926. Serial No. 108,483. 1 Claim. (Cl. 224—45.)



A carrier for a tennis racket comprising a strap to extend longitudinally completely around the edges of the racket to be carried, another strap to extend longitudi-

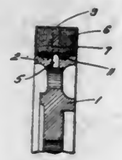
nally partly around the racket along the longitudinal median line at opposite sides and having loops at its ends, a plurality of tie straps to extend transversely around said racket, one of said tie straps passing around the head of the racket and another passing around the handle at the base of the head and a third around the end of the handle, means adjustably connecting the ends of each of said tie straps, means for separably connecting the ends of the first-mentioned strap, and means connecting all of said tie straps to the two first-mentioned straps so that said tie straps may move longitudinally of themselves but are held against movement longitudinally of the two first-mentioned straps.

1,665,901. SPEED-REGULATOR SYSTEM. JOHN H. ASHBAUGH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 26, 1925. Serial No. 58,823. 5 Claims. (Cl. 172—293.)



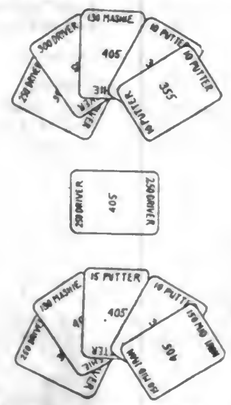
1. In combination, a speed-reference means, a dynamo-electric machine having a field winding, means for regulating the excitation of said field winding comprising a pair of contact members, means for actuating one of said contact members in accordance with the speed of said dynamo-electric machine, and means for actuating the other of said contact members in accordance with the differential speeds of said speed-reference means and said dynamo-electric machine.

1,665,902. MOLDED ARTICLE. ARTHUR J. BASTIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 26, 1921. Serial No. 440,041. 7 Claims. (Cl. 74—28.)



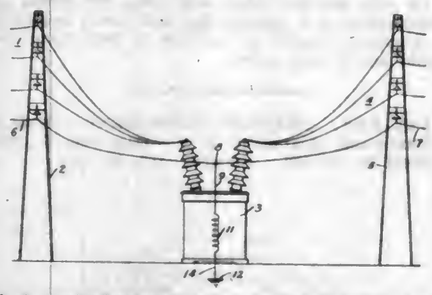
1. A composite article comprising a metal support and a non-metallic working portion molded thereon, said working portion comprising fibrous sheet material spirally wound on the periphery of said support, fibrous sheet material helically wound on the periphery of said spirally wound material, and a single insert of resilient material disposed between some of the sheets.

1,665,903. CARD GAME. ALAN L. BECKET, East Orange, N. J. Filed Sept. 10, 1926. Serial No. 134,610. 5 Claims. (Cl. 273—152.)



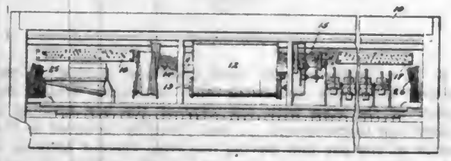
1. A game of the character described, a deck of cards on the faces of which are designated the names of golf clubs, the distances of shots and the distances of golf holes.

1,665,904. CARRIER-WAVE TELEPHONE SYSTEM. CLARENCE A. BODDIE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 18, 1923. Serial No. 658,040. (Cl. 179—2.)



1. A carrier-frequency system for the transfer of signals over lines, comprising a line, sectionalizing apparatus in said line, and a transfer means for carrying carrier-frequency energy past said sectionalizing apparatus, said transfer means comprising one or more wires coupled to said line, and a tuned drain-coil system connecting said wires to earth.

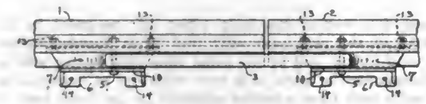
1,665,905. AUTOMATIC MUSICAL INSTRUMENT. TOLBERT F. CHEEK, New York, N. Y., assignor, by mesne assignments, to Welte Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 6, 1922. Serial No. 592,833. 3 Claims. (Cl. 84—57.)



1. In an automatic pneumatic musical instrument, a junction block comprising a plurality of thin complementary coacting parts, each part having a series of open-

ings cooperating with a corresponding series of openings in another part, tubes leading from the openings from one part and tubes leading from the openings of the complementary part a recess in the coacting part toward which the air travels from the complementary part, means in the recess for removing dust from the air passing through the tube passages and located within the block.

1,665,906. EASER JOINT. ROBERT S. BOHANNAN, Birmingham, Ala., assignor to H. M. Barrett, Birmingham, Ala. Filed Sept. 26, 1925. Serial No. 58,927. 6 Claims. (Cl. 238—174.)



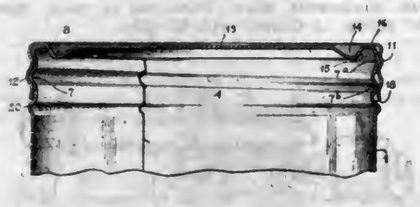
2. An easer rail appliance for a joint between a stationary and a movable track rail, comprising riser blocks adapted to be rigidly attached to the sides of the adjacent rail ends, beveled seated in said riser blocks adapted to support an easer bar alongside the unchanged tread of the adjacent rails, said easer bar having beveled tread ends and having at one end a hole and a bolt adapted to pass through said hole and anchor said bar and a riser block to the adjacent rail end.

1,665,907. UPHOLSTERY-FILLING DEVICE. CHRISTOPHER F. CODA, Detroit, Mich. Filed Mar. 10, 1927. Serial No. 174,139. 4 Claims. (Cl. 226—44.)



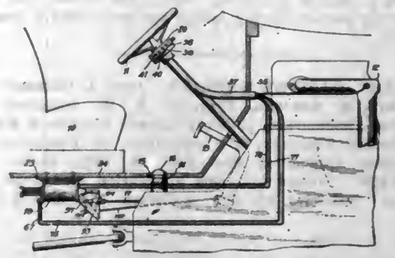
1. An upholstery filling device comprising a sheet of spring material bent to form a substantially tubular member having its edges spaced from one another throughout their length to form a longitudinal slot.

1,665,908. CAN AND CLOSURE. FRANK J. COSTELLO, Baltimore, Md., assignor to Federal Tin Company, Incorporated, Baltimore, Md., a Corporation of New York. Filed Mar. 30, 1923. Serial No. 628,819. 1 Claim. (Cl. 220—39.)



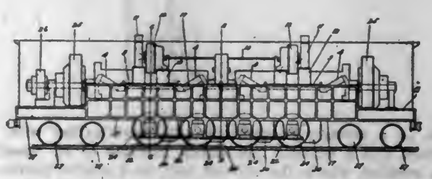
A can construction including a body and a flanged cover, the body and the cover flange having threads interengaging to lock the cover to the body when the cover is centered on the body, the flange and cover of enough greater diameter than the body to permit the engagement of the threads by a combined tilting and lateral or radial movement of the cover on the body, the cover having an internal annular rib near the periphery thereof, and the body an inturned flange for engagement by the rib to center the cover on the body when it is drawn into close engagement therewith, and to prevent release of the threads by radial movement of the cover with respect to the body.

1,665,909. GEAR SHIFT. ALVIN M. CRAIG, New Haven, Conn., assignor to Universal Gear Shift Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1923. Serial No. 634,397. 7 Claims. (Cl. 74—58.)



1. In a gear shifting apparatus, a plurality of cylinders, pistons for the cylinders, said pistons having projecting piston rods, a connection between the piston rods and gear shifting rods, a stud connected with the aforesaid rods, a rock shaft, a pawl or latch carried by the shaft and engaging the aforesaid stud, and means for rocking the shaft to release the pawls and the pistons connected therewith.

1,665,910. LOCOMOTIVE. GEORGE K. DAVOL, San Francisco, Calif.; Phil C. Katz administrator of George K. Davol, deceased. Filed Oct. 10, 1925. Serial No. 61,659. 26 Claims. (Cl. 105—35.)

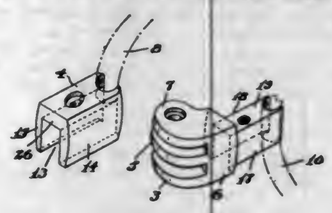


1. In a locomotive, the combination of a structure mounted on wheels and axles, the said structure comprising side frames disposed longitudinally, and cross members joining the said side frames, an internal combustion engine comprising a revolving main shaft, the said shaft being mounted longitudinally or substantially parallel to the said side frames, engine cylinders disposed parallel to the said shaft and side frames, pistons reciprocating in the said cylinders, means transmitting the movement of the said pistons to the said shaft, and means for transmitting power from the said shaft to the said axles.

1,665,911. OPHTHALMIC MOUNTING. GEORGE H. DAY, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 18, 1927. Serial No. 176,492. 6 Claims. (Cl. 88—47.)

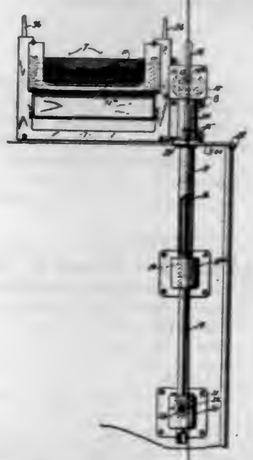
1. An ophthalmic mounting having, in combination, a split lens-holding rim having end pieces at the ends of

the rim, one of the end pieces having a recess within which the other end piece is received, the said other end piece



having a portion extending beyond the recess, and the extending portion having means for connecting a temple thereto.

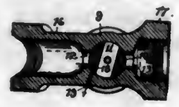
1,665,912. CABINET WRINGER. JOHN J. DOSSERT and EDWIN E. GREAVES, Syracuse, N. Y., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Feb. 28, 1921, Serial No. 448,459. Divided and this application filed June 30, 1921. Serial No. 481,485. 4 Claims. (Cl. 68—32.)



1. In a wringer construction, the combination with a cabinet and a wringer mechanism movable to an operating position above the cabinet and to a stored position within the cabinet, of a source of power, power-transmitting means operatively connecting the source of power to the wringer comprising a vertical shaft within the cabinet consisting of two telescoping members, a tubular member surrounding the upper telescoping member, a fixed bracket secured to the cabinet, means securing the wringer mechanism to the upper end of the tubular member and serving to support the wringer mechanism on the fixed bracket when the wringer mechanism is in its stored position in the cabinet, and means secured to the upper end of the tubular member for operatively engaging the upper edge of the cabinet when the wringer mechanism is in its operative position to prevent side sway thereof.

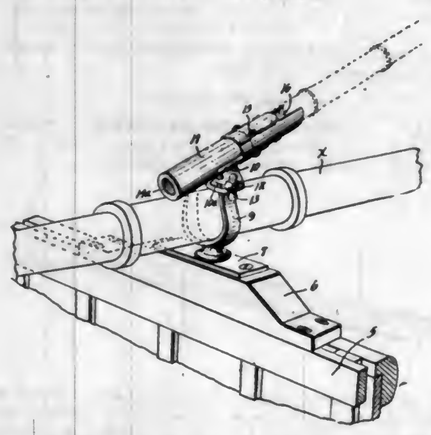
1,665,913. AIR-BRAKE-RELEASE VALVE. RAY O. DURST, Richmond, Ind. Filed June 17, 1926. Serial No. 116,617. 2 Claims. (Cl. 303—86.)

1. A valve including an angular body, an air line connected to one end of the body, a hose connected to the other end of the body, a tapered core rotatably mounted in the body, there being a slot formed through the core and adapted to register with ports located inside the body and on each side of the core with which said slot in the core is adapted to register with one of said ports directed toward the air line and the other port directed toward said hose, there being an elongated cavity formed in one side of the contact face of the core which cavity is located near but spaced from one of the open sides of said slot, there also being a vent aperture formed



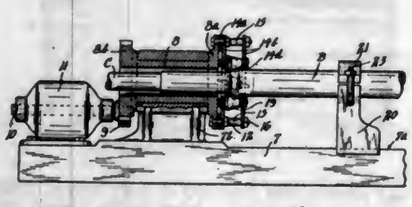
through the wall of the body where at one point in the rotation of the core said vent will be in communication with said cavity and at the same time said cavity will be in communication with said port which is in communication with said hose whereby pressure in the hose may be released through said vent without releasing the pressure in the air line.

1,665,914. FISH-POLE HOLDER AND OARLOCK. EARL ECK, Minneapolis, Minn. Filed Feb. 19, 1927. Serial No. 169,561. 6 Claims. (Cl. 9—26.)



1. A combined oar lock and fish pole holder comprising a pintle adapted to be seated in an oar lock socket, a crotch carried by said pintle adapted to receive an oar and a socket carried by an arm of said crotch adapted to detachably hold the handle of a fish pole or casting rod therein.

1,665,915. PIPE-SWAGING DEVICE. ALBERT C. EKMAN, Minneapolis, Minn. Filed Dec. 21, 1925. Serial No. 76,641. 2 Claims. (Cl. 80—13.)



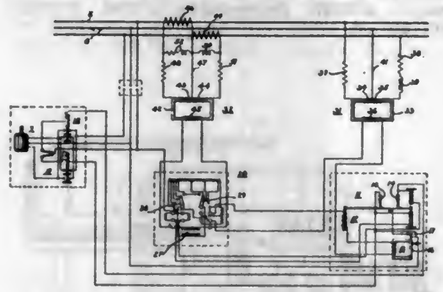
1. A machine for swaging one pipe on a smaller pipe having in combination, a frame, a member slidable on said frame having means receiving and clamping one of said pipes to hold the same against rotation, a rotating head on said frame having an opening therein, coaxial with said means, adapted to receive said pipes in telescoping relation, said head carrying a plurality of circumferentially spaced rollers tapered toward their ends, said rollers being freely revoluble in said head and having their axes inclined to the axis of said head with their front ends offset in a direction opposite to the direction of rotation of said head, and means for rotating said head whereby said pipe and said first mentioned member are automatically drawn into said head and said larger pipe swaged down onto said smaller pipe and connected thereto.

1,665,916. OVERHEAD WELDING. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 14, 1921. Serial No. 444,710. 4 Claims. (Cl. 113—112.)



1. A welded joint comprising a pair of plates overlapping one another to provide a downwardly facing lower edge and a plurality of reinforcing offset members in proximity to the said lower edge of the overlapping portions, said offset members being secured to said plates by metal deposited along the side edges thereof.

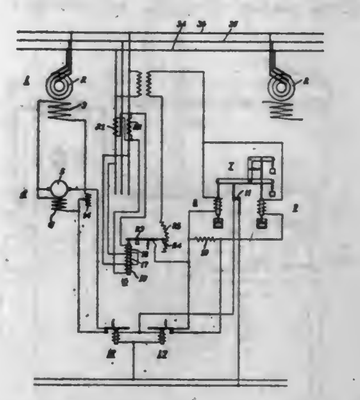
1,665,917. REGULATOR SYSTEM. ROBERT D. EVANS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1921. Serial No. 460,781. 2 Claims. (Cl. 171—119.)



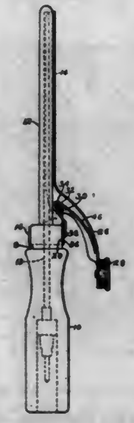
1. In a control system for an induction regulator, the combination with a control motor for said regulator, contact-making means for governing the operation of said motor, and means cooperating therewith for compensating for line-circuit conditions, of actuating means for said contact-making means and means for energizing said actuating means in accordance with one of a set of symmetrical components into which the unbalanced electrical quantities of said circuit may be resolved.

1,665,918. COMPENSATED VOLTAGE-REGULATOR SYSTEM. ROBERT D. EVANS and HOLLIS K. SELS, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 15, 1923. Serial No. 625,281. 4 Claims. (Cl. 171—229.)

1. In a regulator system, the combination with a power circuit, and a dynamo-electric machine, of a regulator therefor comprising a pair of electromagnets actuated in accordance with the voltage of said power circuit, a variable resistor means in circuit with said electromagnets, and means actuated in accordance with the load upon said power circuit to control said variable resistor means.

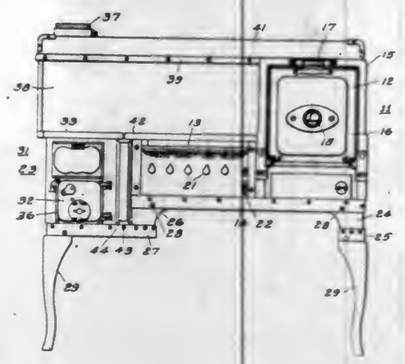


1,665,919. CURLING IRON. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 8, 1926. Serial No. 120,458. 2 Claims. (Cl. 132—137.)



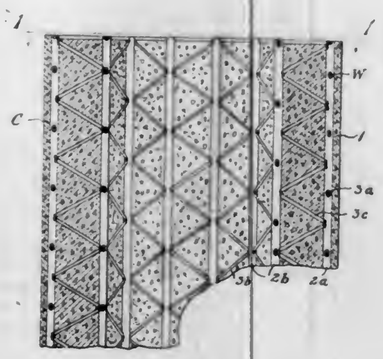
1. A curling iron comprising a handle, a heater tube secured thereto, a bracket having a pair of enveloping arms for snugly engaging a portion of said handle, said bracket being indented for securing it to said handle, said bracket having a pair of lugs provided with openings therein, a tong for engaging said heater tube, said tong having an integral channelled operating arm and a pair of integral lugs provided with openings therein, said tong lugs receiving the bracket lugs and engaging their outer portions, a rivet passing through the openings in said bracket lugs and the openings in the tong lugs for pivotally mounting said tong on said bracket, and a spring for normally forcing said tong into engagement with said heater tubes.

1,665,920. COMBINATION COAL AND ELECTRIC RANGE. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 11, 1927. Serial No. 198,042. 3 Claims. (Cl. 126—36.)



1. In a combined coal-electric range, the combination with a base band, an electric oven and an electric stove located on and supported by said base band, of a bracket secured to the base band and extending therefrom, a fire-box base band secured to the bracket, and a fire-box located on and supported by the fire-box base band.

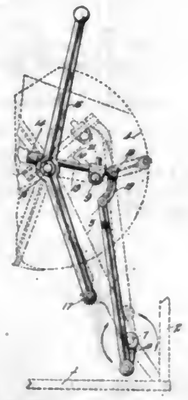
1,665,921. TUBULAR FRAME STRUCTURE. HERXTHAL F. FREASE, Canton, Ohio. Filed Mar. 29, 1926. Serial No. 98,193. 8 Claims. (Cl. 72—6.)



1. A tubular structure including circumferentially and longitudinally continuously arranged frame members determining an outer tubular surface, circumferentially and longitudinally continuously arranged frame members determining an inner tubular surface, and frame members connecting the sets of surface members.

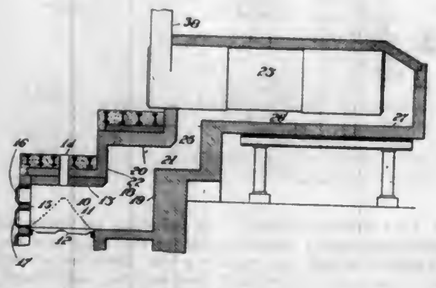
1,665,922. WASHING MACHINE. BENJAMIN E. GETZ, Morton, Ill., assignor, by mesne assignments, of one-half to Getz Power Washer Co., Morton, Ill., a Corporation of Illinois, and one-half to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1923. Serial No. 631,965. 5 Claims. (Cl. 74—14.)

1. In a machine of the character described, in combination, a tub mounted for oscillation, a sleeve like member connected to said tub, a rod having a slidable relation in said member, a lever having connection with one end of said rod for moving the latter alternately to



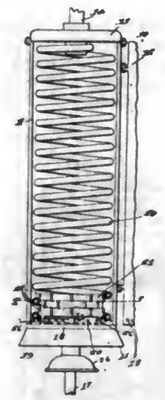
operative and inoperative positions, and during such movement to the latter position bringing the tub to its normal position, an operating mechanism, and operating connections between said rod and said mechanism.

1,665,923. STEAM-BOILER FURNACE. WILLIAM A. GILCHRIST, New York, N. Y. Filed Feb. 8, 1919. Serial No. 275,837. Renewed July 4, 1924. 7 Claims. (Cl. 110—7.)



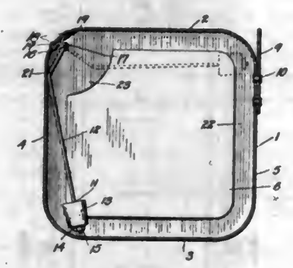
7. The method of burning solid fuel containing volatile constituents, which consists in delivering the fuel to be burned into a chamber, admitting air to said delivered fuel, driving off the volatile portions of said fuel by radiating and reflecting heat both downwardly and laterally against said fuel, retarding the flow of said driven off volatile portions in a space directly rearwardly of and in unobstructed communication with the whole height of said chamber, radiating and reflecting heat both vertically and laterally into said retarded volatile portions to effect the complete combustion thereof, and delivering the resultant products of combustion against the surface to be heated

1,665,924. HEATER. JOHN HICKS, Somerville, N. J. Filed Nov. 26, 1926. Serial No. 150,954. 3 Claims. (Cl. 158—99.)



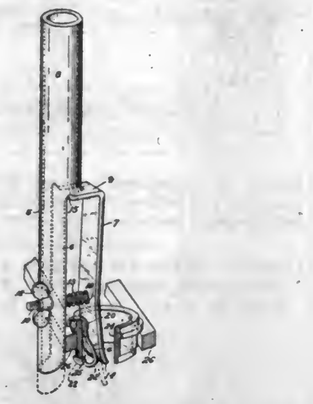
1. A combustion chamber for gas water heaters comprising a plurality of separate identical ceramic sections mounted one upon the other, each section including a ring member, a plurality of inwardly extending baffle elements terminating short of the axial center of said ring member, the baffle elements of one section being staggered with respect to the baffle elements of the next adjacent sections with the free ends of the baffle elements of one section bridging the space between the baffle elements of the next adjacent sections.

1,665,925. LIQUID-DISPENSING DEVICE. NEWTON S. HILLYARD, St. Joseph, Mo. Filed Jan. 21, 1927. Serial No. 162,499. 1 Claim. (Cl. 73—82.)



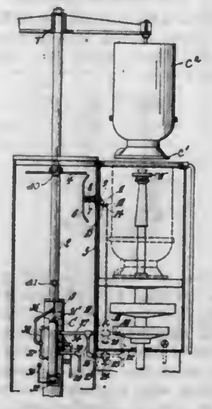
In a device of the class described, a box, a float gage comprising a bar provided with a float on one end and having its other end bent to constitute a journal, a bracket interiorly mounted on a wall of the box, said journal being pivotally mounted on the bracket, the bent end of said journal protruding through an aperture in a wall of the box, an index arrow secured to said protruding end of the journal, said bar having a bend adjacent the said journal end for engagement with a wall of the box.

1,665,926. WRENCH FOR VERTICAL TWISTER TRAVELERS. JOHN E. HULL, Providence, R. I. Filed Aug. 3, 1925. Serial No. 47,710. 12 Claims. (Cl. 29—84.)



1. A traveler wrench for applying vertical twister travelers to vertical twister rings comprising an elongated tool having spaced yoke arms at one end, one of which is rigid and the other flexible.

1,665,927. CAN-WASHING MACHINE. IRA H. KENDALL, Potsdam, N. Y., assignor to The Kendall Patents, Inc., Potsdam, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,309. 5 Claims. (Cl. 141—7.)

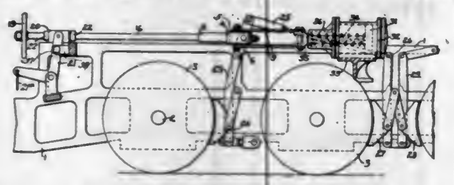


1. A washing machine comprising washing means, a movable supporting member adapted to support the article to be washed, power operated mechanism adapted to cause a relative movement between the said article and the said washing means along a definite path, and control means automatically operated by said operated mechanism adapted to cause the velocity of the said relative movement to vary along the said path.

1,665,928. AIR-BRAKE MECHANISM. CHARLES N. F. KNAPP, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 24, 1923. Serial No. 670,527. 5 Claims. (Cl. 188—107.)

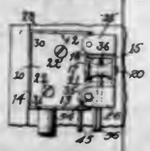
1. A brake mechanism comprising a plurality of shoes, a brake beam, links connecting said shoes and beam, a trunnion mounted centrally of said beam, a sleeve pro-

vided with an internal screw thread being slidably mounted in said trunnion and beam, a screw shaft disposed in said sleeve and engaging the internal thread



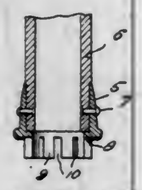
thereof, a fluid-pressure-actuated device linked to said trunnion, and means for independently actuating said fluid pressure device and said screw shaft.

1,665,929. SHADE-SUPPORTING BRACKET. JOHN L. MONTGOMERY, Stoneham, Mass. Filed Mar. 17, 1926. Serial No. 95,438. 3 Claims. (Cl. 156—27.)



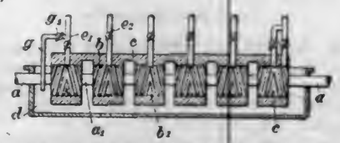
3. A shade-supporting bracket comprising a back plate provided with a side flange having a lug extended therefrom substantially parallel with said back plate, a cord-engaging member supported by said lug and back plate, and a flange extended from said back plate and provided with an extension cooperating with the said lug to close the space between the cord-engaging member and the last mentioned flange.

1,665,930. METALLIC BOBBIN BASE. CECIL CARTER NIXON and JOHN MARIN MCLAMORE, Talladega, Ala. Filed Aug. 25, 1926. Serial No. 131,533. 1 Claim. (Cl. 242—121.)



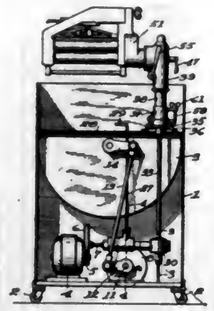
In combination, a bobbin, a fitting associated with the bobbin for forming a base, said fitting including a sleeve extending over one end of the bobbin and merging into an internal annular flange forming a shoulder abutted by said end of the bobbin, an annular collar merging outwardly from the flange concentrically with the sleeve and formed with a plurality of slots for engaging the bobbin gear, and an annular bead formed externally on the sleeve adjacent said collar.

1,665,931. DISTRIBUTION OF LIQUIDS. JACOB EMIL NOEGGERATH, The Hague, Netherlands. Filed Aug. 12, 1921, Serial No. 491,853, and in Germany Nov. 14, 1916. 6 Claims. (Cl. 103—84.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



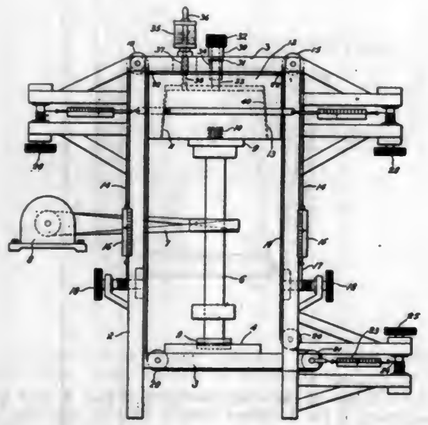
1. A system of the kind described comprising in combination, a stationary body, a body in contact with and capable of revolving relatively to said stationary body, a plurality of juxtaposed groups of viscosity threads in one of the contacting surfaces and several conduits adapted for cooperation with said groups of threads.

1,665,932. INCLOSABLE OR FOLDING WRINGER. WILLIAM G. PETERS, Peoria, Ill., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 30, 1921. Serial No. 481,634. 8 Claims. (Cl. 68—32.)



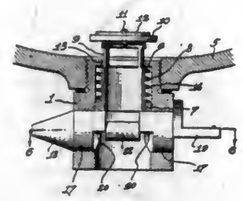
1. In a washing machine the combination of a driving gear, a hinged tubular support for a wringer, a wringer carried by said support and adjustable around the same, a wringer driving mechanism within said support, and a clutch between the wringer driving mechanism and the driving gear whereby when the hinged tubular support is in operating position the clutch will be engaged.

1,665,933. GLISSOMETER. CLARENCE J. RODMAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 21, 1923. Serial No. 682,073. 6 Claims. (Cl. 265—11.)



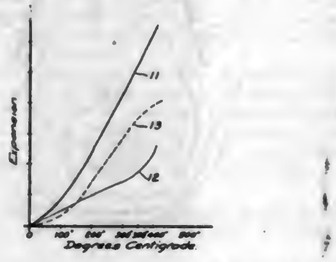
1. A glissometer comprising a plurality of relatively movable interfitting members, means for applying lubricant between the adjacent surfaces of said members, means coacting with one of said members for subjecting said lubricant to pressure, and means for indicating the unctuousness and thickness of the lubricant film.

1,665,934. VALVE. ROBERT E. SCHIEBER, Detroit, Mich. Filed June 9, 1927. Serial No. 197,559. 3 Claims. (Cl. 251—132.)



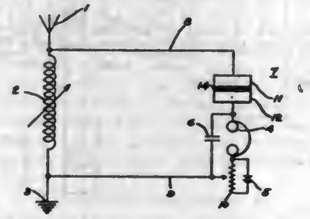
1. A valve comprising a casing, a ported member slidable in the casing and adapted for projection beyond one end thereof, a head carried by said member and adapted to close said end, said casing having a plurality of openings, and a cam adapted for reception in any of said openings and to engage said member.

1,665,935. BIMETALLIC ELEMENT. HOWARD SCOTT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 27, 1926. Serial No. 157,320. 5 Claims. (Cl. 297—15.)



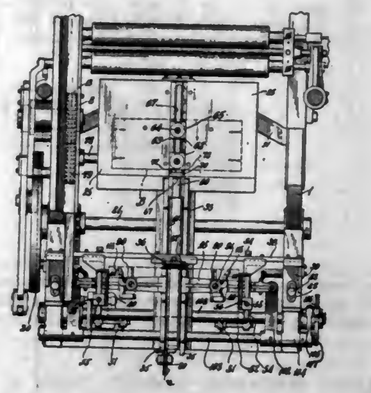
1. A thermostatic element comprising two cooperating elements having different temperature coefficients of expansion, one of said elements being a ferrous alloy containing substantially 42% nickel, and the other element being a ferrous alloy containing not less than 1% manganese, and nickel.

1,665,936. RADIODETECTOR. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 15, 1923. Serial No. 668,554. 2 Claims. (Cl. 250—31.)



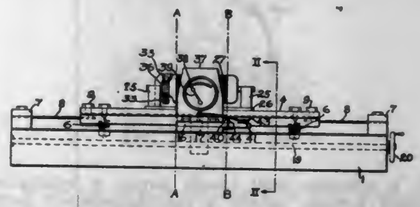
1. A radio detector comprising a body having a non-rectilinear conductivity, said body comprising a mixture of carborundum, amorphous carbon and a binder.

1,665,937. CARD-FEED MECHANISM AND METHOD. HARRY BRIDGMAN SMITH, Brooklyn, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass., a Corporation of Massachusetts. Filed July 24, 1923. Serial No. 653,505. 14 Claims. (Cl. 271—44.)



1. A method of separating and feeding individual curved sheet blanks having wing formations from a stack of such blanks, comprising bending opposite winged portions of a single blank at the end of the stack away from the next adjacent blank sufficiently to rectify the curvature and to clear the wing formations of the end blank from said next blank while retaining a central portion of said end blank substantially in contact with said next blank, and then moving said end blank away from the stack substantially edgewise while maintaining said winged portions in said bent and separated positions.

1,665,938. BALANCING MACHINE. CARL RICHARD SÖDERBERG, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 11, 1922. Serial No. 593,732. 15 Claims. (Cl. 73—56.)

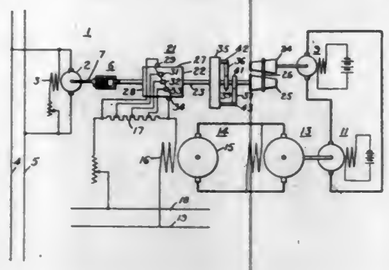


1. In a balancing machine, the combination with a supporting frame, of a vertically oscillatable bed yieldingly mounted thereon, a movable fulcrum interposed between said bed and said supporting frame, said bed and springs being arranged to possess a constant period of vibration for all positions of the fulcrum, means for rotatably mounting a body to be tested on said bed and means on said bed for actuating said body.

1,665,939. REGULATOR SYSTEM. STEPHEN A. STAEGE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 15, 1926. Serial No. 102,168. 7 Claims. (Cl. 171—229.)

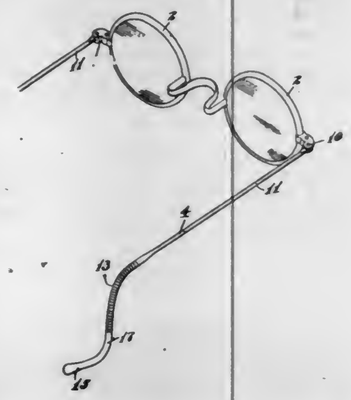
1. In a regulator system, a resistor, means for varying the effective value of said resistor comprising a rotary contactor drum, means for rotatively actuating said

drum in accordance with the regulated quantity, means for actuating said drum longitudinally in accordance



with variations of the regulated quantity from the desired value, and inertia means for actuating said drum temporarily to prevent hunting action in the system.

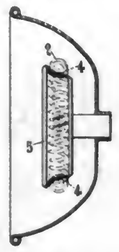
1,665,940. SPECTACLE TEMPLE. JAMES A. SWEENEY, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 18, 1927. Serial No. 176,507. 6 Claims. (Cl. 88—52.)



1. A spectacle skull temple having a substantially straight forward portion, a bent intermediate portion and a rear tip portion bent laterally to engage the wearer's skull, the forward part of the forward portion, the rear part of the intermediate portion and the rear tip portion being comparatively inflexible, and the rear end of the forward portion and the forward part of the intermediate portion being comparatively resilient, whereby the rear tip portion will engage the skull resiliently but inflexibly with a resilient binding action.

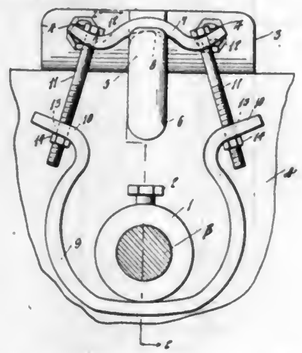
1,665,941. ELECTRIC HEATER. ANDRÉ EMMANUEL MARIE VAN DER MEERSCH, Chelsea, London, England, assignor to Thermo Path Company Limited, London, England. Filed Dec. 8, 1926, Serial No. 153,377, and in Great Britain Dec. 11, 1925. 2 Claims. (Cl. 219—34.)

1. An electric heating element comprising a wire initially coiled into spiral form with such spiral length of wire further coiled into spiral form of greater diameter, and a cement base in which the coiled wire is partly



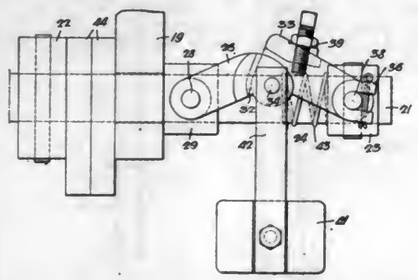
embedded to freely expose the greater portion of the wire including the cores of the second spiral formation to the air.

1,665,942. ROCKER-SHAFT BEARING. FRANK H. WALLACE and WILLIAM H. COMPTON, Newry, S. C. Filed Apr. 28, 1927. Serial No. 187,275. 2 Claims. (Cl. 308—21.)



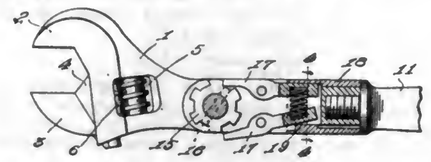
1. A shaft bearing, comprising a yoke, means to support the yoke, a sling adapted to engage under a shaft, and means adjustable in length connecting the yoke and sling.

1,665,943. STOKER MECHANISM. ANTHONY E. WEINGARTNER, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1924. Serial No. 700,036. 14 Claims. (Cl. 110—44.)



1. A pair of reciprocatory members having different strokes, a toggle-joint having the ends thereof operatively associated with said members, respectively, and a weight carried by the toggle-joint tending to maintain the same in its extended position.

1,665,944. WRENCH. ALBERT ALBERTINI and ANDREW ALBERTINI, Staunton, Ill. Filed July 14, 1926. Serial No. 122,422. 1 Claim. (Cl. 81—62.)

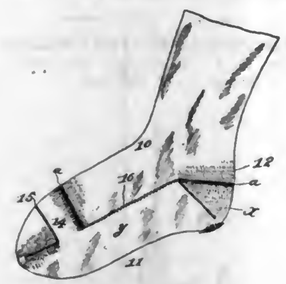


A wrench of the character described comprising a body portion having a stationary jaw, a slidable jaw movable on the said body portion, said body having a socket extension, a shouldered post including a threaded portion engaged in said socket, a locking pin for holding the post in the socket, a handle having a bifurcated end through which said post is passed, a ratchet wheel arranged on the post between the arms of said bifurcated portion, of the handle, spring influenced pawls pivoted in said bifurcated portion and normally engaging the said ratchet wheel, a sleeve rotatably mounted on the handle and receiving the adjacent ends of said pivoted pawls, and cam-like surfaces formed on the sleeve, and arranged to cooperate with said pawls for operating the latter against the influence of the spring.

1,665,945. DISPERSING POWDER AND PROCESS OF MAKING. EDWARD R. ALLEN and WILFORD E. KAUFMANN, East Orange, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 3, 1925. Serial No. 41,432. 16 Claims. (Cl. 134—58.)

15. A dry colloid like powder obtained by agitating an aqueous mixture of an inorganic pigment not readily miscible with water and a foam producing dispersing agent until a mass of foam is produced, drying said mass and grinding, said powder being characterized by the property of dispersing readily in water to form a smooth pulp.

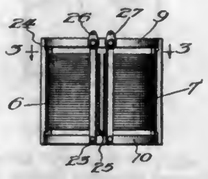
1,665,946. STOCKING. OTTO F. BOEHME, Dover, N. J. Filed Jan. 12, 1924. Serial No. 685,873. 2 Claims. (Cl. 66—183.)



2. A stocking comprising a leg part of flat piece goods cut to form and sewn up the back, a knitted foot part, the foot part being joined to the leg part by means of stitching intermediate the heel and toe portions and by means of slackened courses of knitted thread at the heel and toe portions thus yieldingly interknitting the leg part to the heel and toe portions, the remainder of the heel, sole, and toe being formed with unslackened courses of knitted thread.

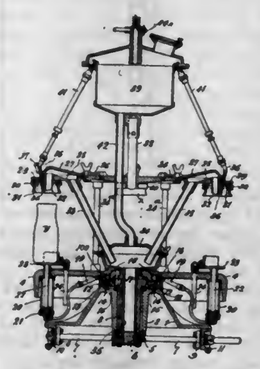
1,665,947. INDUCTANCE COIL. THOMAS H. BRENNAN, Chicago, Ill. Filed Apr. 25, 1925. Serial No. 25,835. 3 Claims. (Cl. 175—359.)

1. As a new article of manufacture, an inductance unit for the purpose specified comprising in combination a pair of D shaped helical coils, each comprising a single layer of turns progressing axially in a given direction, the two coils being placed with their flat sides in relatively close proximity to each other, the turns of each coil being completely self-contained within said coil and progressing from end to end thereof, the turns of the two coils progressing in opposite directions around the coils when measured from one end of the device to the other end thereof, a cross connection joining together the turns at one end of the device into a single continuous circuit,



and means for supporting the two coils comprising a plurality of pairs of relatively thin and narrow bars extending axially through the coils and embracing the convolutions of the coils on which they are placed, end rings in alignment with the ends of the pairs of D coils and located between the end portions of the pairs of bars aforesaid, together with means for clamping the bars together in pairs and securing them to the end rings, substantially as described.

1,665,948. APPARATUS FOR FILLING BOTTLES, TINS, OR OTHER CONTAINERS. HERBERT FREDERICK BROADHURST, London, England. Filed Aug. 23, 1927, Serial No. 214,894, and in Great Britain Mar. 12, 1926. 6 Claims. (Cl. 226—98.)

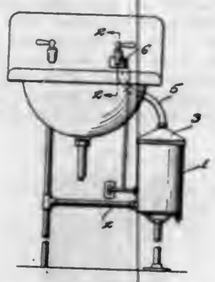


1. Means for filling receptacles with liquid comprising means for closing the receptacle, a liquid supply means connected to said closing means, means for continuously admitting a small quantity of air to said closing means, a closed overflow receptacle arranged at a level above that of the liquid supply, means whereby said overflow receptacle may be evacuated, a connection between said overflow receptacle and the closing means, an unobstructed connection between said overflow and said supply whereby an unobstructed and continuous flow of liquid from said overflow receptacle to said supply is secured.

1,665,949. WATER HEATER. JAMES G. CHAMBERS and BASIL C. SALAMIS, Montreal, Quebec, Canada. Filed Aug. 27, 1926. Serial No. 132,024. 1 Claim. (Cl. 219—39.)

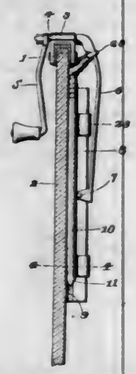
A device of the class described comprising a tank, a conical cap threaded to the tank, a discharge nipple formed integral with the upper end of the tank and passing through the same to a point well within the tank so

as to form an air space in the conical space at the top of the tank, means for connecting the bottom of the tank



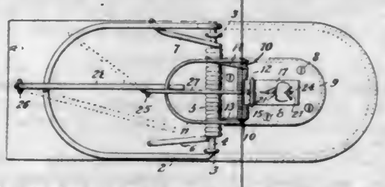
to a source of supply and control means in the outer end of the discharge pipe and means for heating the water in the tank.

1,665,950. ELECTRICAL HEATING ATTACHMENT. EDWARD C. DWYER, Clymer, and WILLIAM O. DWYER, Berlin, Pa. Filed Aug. 30, 1927. Serial No. 216,424. 2 Claims. (Cl. 15—253.)



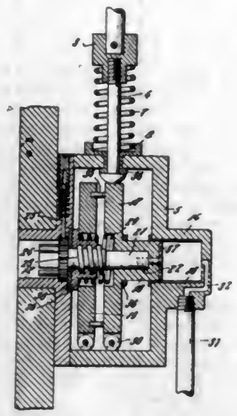
1. In an electrical heating attachment for windshield cleaners of that type including an oscillatory carrier provided with a wiper member extended therefrom for the outer face of the windshield glass, the combination of a casing opened at its top and closed at its bottom and abutting said member and to contact with said glass, coupling means extended from the carrier whereby the former will be bodily carried with the latter during the oscillation of the carrier, an electrical heating unit extending into said casing through the upper end thereof and providing means for heating the casing, said member and glass, and resilient means for detachably clamping said unit to said casing, said means surrounding the upper end of the casing and a portion of said unit exteriorly of and in proximity to the open end of the casing.

1,665,951. COMBINATION MOUSE AND RAT TRAP. FRANK J. EBEL, New Orleans, La. Filed June 30, 1925. Serial No. 40,590. 3 Claims. (Cl. 43—81.)



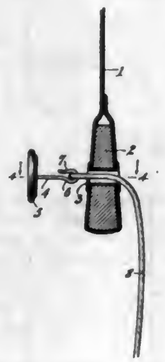
1. A trap including a base, a plurality of spring controlled members connected to the base for swinging movement, means engageable with the swinging members for holding the springs under tension, a trip for releasing said holding means, said trip having upwardly extending portions formed thereon to receive the bait, and means passing through said upwardly extending members and the bait for securing the bait to the trip.

1,665,952. AUTOMATIC LOCK. GEORGE FEENEY and THOMAS O'CONNOR, Columbus, Ohio, assignors of one-tenth to Timothy O'Brien, Columbus, Ohio. Filed Aug. 26, 1927. Serial No. 215,732. 7 Claims. (Cl. 105—395.)



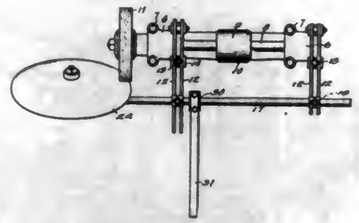
1. A locking device of the class described comprising a casing, a latching rod extending into the same, a pair of members movably arranged in the casing and when either one of which is arranged under the rod, will prevent movement of the same, means for normally holding the members apart so that the rod may be lowered between them, key operated means for moving one of the members and compressed air operated means for moving the second member against the first member.

1,665,953. SHADE-CORD HOLDER. WILLIAM J. FOSTER, Jersey City, N. J. Filed June 21, 1927. Serial No. 200,398. 6 Claims. (Cl. 156—40.)



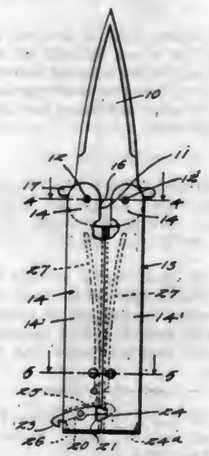
1. A shade cord holder, comprising a cord-carrying hook adapted to be positioned in an opening in a shade and its stick and said hook when in the opening preventing the cord from being disengaged therefrom and having an enlargement at its end to limit the movement of the hook in one direction in said opening.

1,665,954. HARROW-DISK SHARPENER. TOM FOX, Spalding, Nebr. Filed Aug. 8, 1923. Serial No. 656,326. 1 Claim. (Cl. 51—104.)



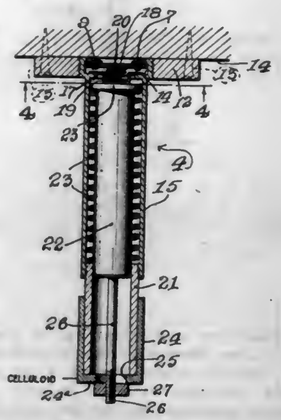
A harrow disk support for grinding machines, comprising in combination, a pair of spaced arms, means for rigidly attaching said arms to the frame of the grinding machine and in spaced relation to each other, an eye-bolt bearing supported from each arm, means for adjustably connecting each bearing to its respective arm, a shaft mounted in said bearings and parallel to the grinder shaft and capable of rocking and longitudinal movement therein, a bearing carried by one end of said shaft, stub shaft carried by said last mentioned bearing for supporting a harrow disk therein, and means carried by said first-mentioned shaft and rigidly secured thereto for rocking and sliding the shaft in its bearings to move the harrow disk relative to the grinding wheel of the grinding machine.

1,665,955. KNIFE STRUCTURE. ANDO Z. GATEWOOD, Temple, Okla. Filed Apr. 28, 1927. Serial No. 187,347. 1 Claim. (Cl. 30—10.)



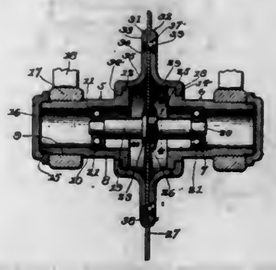
In a knife, a blade having a tang, a pair of transversely spaced pivots carried by the tang, a channeled handle section mounted on each pivot and swingable thereabout from a position where the channel thereof houses a portion of the blade to a position where it aligns with the tang, the connection between the arms of the channel in the last named position of the sections engaging the wall of the tang, means for locking the free ends of said handle sections to one another in either of said positions, comprising a lever pivoted in the channel of one of the sections adjacent the free end thereof and having its ends extended to opposite sides of the section, said ends being formed at opposite faces of the lever as latch jaws, the other of the sections having a bar extended transversely of its channel with which one of the latch jaws engages when the sections are in the first named position and having an opening formed in the connection between the arms of the channel against one wall of which the other of the latch jaws engages when the handle sections are in the last named position.

1,665,956. FIRE ALARM. SALVATORE GIANGRASSO, Portland, Me. Filed Aug. 28, 1926. Serial No. 132,284. 3 Claims. (Cl. 200—142.)



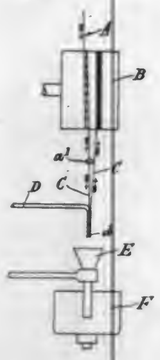
1. A thermally controlled circuit closer comprising a switch and an inflammable device for holding the switch open and adapted when ignited to permit closing of the switch, said switch including an insulation strip, a pair of contacts carried thereby and a terminal push button for the contacts, the inflammable device comprising a tubular member, a reciprocating plunger therein, an annular shoulder on the end of the plunger adjacent the push button, a pipe section threaded into the outer end of the tubular member, a coil spring surrounding the plunger between the shoulder and pipe section, a cap-shaped inflammable element on the outer end of the pipe section, and a pin and nut connection between the plunger and inflammable element for normally holding the plunger inoperative with respect to the push button.

1,665,957. COLTER-WHEEL STRUCTURE. FRANK J. GLISKY, Pontiac, Mich. Filed Sept. 8, 1927. Serial No. 218,305. 4 Claims. (Cl. 308—181.)



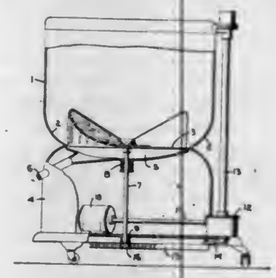
1. A colter wheel structure comprising a hub element formed of a pair of oppositely extending, opposed, spaced sections each provided with outer peripheral bearing surfaces at its inner end, a wheel member positioned between said sections, bearing devices arranged within said sections, a bearing shaft positioned within the sections and connected to said devices and to said wheel member, and a pair of oppositely disposed combined coupling, bearing and closure members connected to said wheel member exteriorly of said sections and revolubly mounted on said bearing surfaces.

1,665,958. PRODUCTION OF ARTIFICIAL SILK. WALTER HAMIS GLOVER, Leamington, and CHARLES FRED TOPHAM, Coventry, England, assignors to Courtaulds Limited, London, England. Filed Oct. 29, 1926, Serial No. 144,994, and in Great Britain Jan. 7, 1926. 5 Claims. (Cl. 18—54.)



1. The production of artificial silk by passing a solution of a cellulose ester of an organic acid, or a cellulose ether in a volatile solvent through a jet or drawplate into a space containing warm air or other gas, whereby the solvent is volatilized leaving the cellulose compound in the form of filaments, then leading the filaments in association from the warm space and collecting them in a rapidly rotating spinning box.

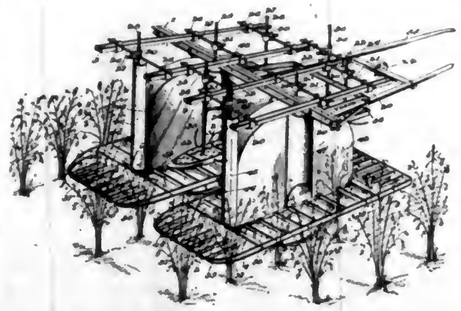
1,665,959. WASHING MACHINE. GEORGE C. GRAHAM, Watertown, and ROBERT S. ROSE, Boston, Mass. Filed Dec. 12, 1927. Serial No. 239,320. 21 Claims. (Cl. 259—101.)





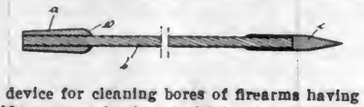
1. A washing machine comprising a container adapted to contain the articles to be washed and the washing fluid, an agitating blade projecting inward relatively to a wall of the container and having opposite agitating side surfaces and means to oscillate the agitating blade sidewise about an upwardly extending axis, one of said side surfaces being disposed at a greater angle relatively to the container wall and being longer in the direction of oscillation than the other side surface whereby the articles slide over the side disposed at the greater angle when the said side is advancing and are caught and impelled by the opposite side upon the reverse movement.

1,665,960. BOLL-WEEVIL DESTROYER. CARL ARENT HEILMANN, Skjelskor, Denmark. Filed Sept. 15, 1926. Serial No. 135,679. 8 Claims. (Cl. 43—133.)



1. An insect destroyer comprising a wheeled supporting framework which is movable along rows of plants, an agitator for engaging the plant branches to dislodge insects, and pans so constructed and placed upon the framework that the front part of the pans will come beneath the branches in advance of the agitator, wheels and framework, the pans having openings centrally thereof receiving the wheels supporting the framework.

1,665,961. DEVICE FOR CLEANING FIREARMS. DUNCAN C. HOOKER, Farmington, Conn. Filed Oct. 15, 1926. Serial No. 141,759. 3 Claims. (Cl. 42—91.)

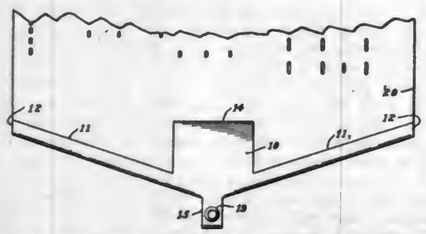


3. A device for cleaning bores of firearms having a flexible cable composed of a multiplicity of thin wires, a plug on one end of said cable adapted to receive a cleaning patch, and a pointed needle receiving and secured to the other end of said cable and being but slightly greater in diameter than the cable.

1,665,962. STORAGE-BATTERY PLATE AND METHOD OF PRODUCING SAME. CHARLES WILLIAM JENNER, New Westminster, British Columbia, Canada. Filed June 2, 1927. Serial No. 196,142. 2 Claims. (Cl. 136—26.)

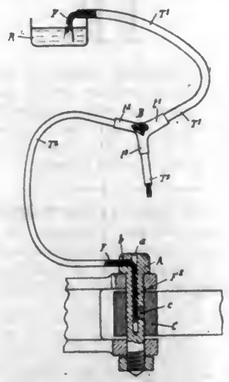
1. The method of producing a storage battery plate which consists of taking electrolytic lead, reducing it to a state of fine division by friction, of combining the resultant particles with oxygen and of mixing the oxidized material with dilute sulphuric acid and moulding the mass into a plate.

1,665,963. MUSIC-ROLL TAB. WILLIAM F. KOCH, Camden, N. J. Filed Jan. 27, 1923. Serial No. 615,354. 1 Claim. (Cl. 84—162.)



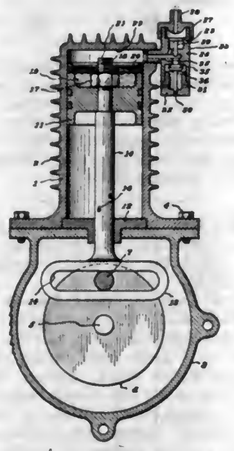
As an article of manufacture, a one piece record sheet binder, comprising a body of substantial size and having arms of comparatively reduced width reaching laterally and divergently upward from opposite ends of the body and folded throughout their lengths transversely upon themselves, said body and the arms having adhesive means on their inner sides to secure them to the end portion of a record sheet, the folded parts of the arms having their adjacent end edges parallel and at least the width of the tab apart, said body having a tongue reaching therefrom and between the arms and being folded at a point transversely of the tongue, whereby the front part may extend up between the two adjacent parallel end edges and lie against and be secured to the surface of the record sheet in the same plane as the corresponding folded portions of the arms.

1,665,964. LUBRICATING SYSTEM. MARCEL KOEHLER, Paris, France. Filed Dec. 1, 1925, Serial No. 72,504, and in France Oct. 7, 1925. 3 Claims. (Cl. 184—7.)



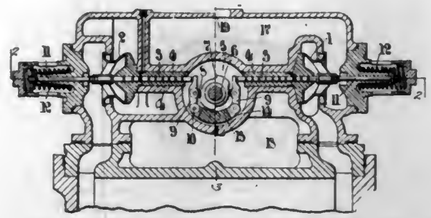
1. A system of lubrication for the operative parts of apparatus, comprising an elevated tank for liquid lubricant, flexible elements forming capillary ducts between the tank and the parts to be lubricated, and a flexible coating upon said elements whereby fluid-tight conditions are obtained.

1,665,965. AIR PUMP. ELWIN O. KOENIG and GEORGE W. BRAUTIGAM, Philadelphia, Pa. Filed Dec. 12, 1923. Serial No. 680,199. 1 Claim. (Cl. 74—108.)



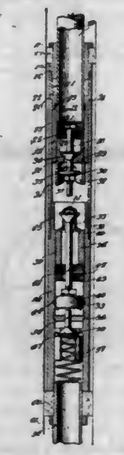
In a device as set forth, a reciprocatory piston provided with a hollowed-out cup portion in its upper end with a hard lubricant contained in said cup portion, a piston rod having a reduced threaded end engaging through said piston, a nut threaded on the reduced end, a semi-flexible lubricant absorbing disc cup engaged with the peripheral edge of the piston and with the nut constituting a closure for the cup portion to permit gradual feeding of the lubricant from the cup, a disc washer within the disc cup to hold the lubricant absorbing disc cup against the nut and in contact with the edge of the piston, and a cotter pin to retain the disc washer in position.

1,665,966. LOCOMOTIVE-VALVE GEAR. JOHANN KUPKA, Vienna, Austria. Filed June 18, 1925, Serial No. 38,063, and in Great Britain Feb. 24, 1925. 10 Claims. (Cl. 121—127.)



1. Valve actuating mechanism for steam locomotives comprising a spindle carrying the valve, a chamber separate from the inlet and exhaust steam spaces of the steam chest, end plates for said cam chamber, a cam and a pivotally supported lever arranged in said chamber, said lever being interposed between the cam and the end of the spindle, a bar supported by said end plates, and means to pivot the lever on said bar.

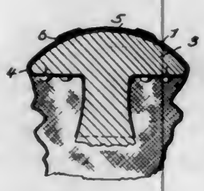
1,665,967. SAND-TESTER PUMP. GEORGE F. LE BUS, Electra, Tex. Filed May 12, 1927. Serial No. 190,858. 8 Claims. (Cl. 103—225.)



1. A sand tester pump comprising a body member, a plunger adapted for sliding movement in the body member, a stem connected with the plunger, a sleeve having a threaded connection with the plunger and adapted to be released from the plunger when the said plunger is

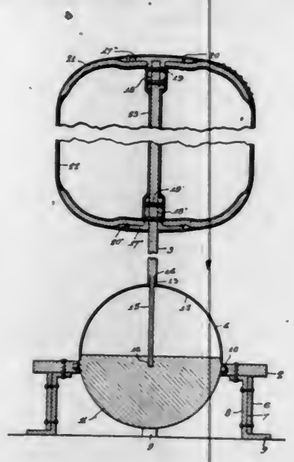
rotated in one direction, said plunger being provided with a seat, a valve slidably mounted in the plunger and adapted to normally engage the seat, a spring pressed back pressure valve slidably mounted in the body member, a seat in the body member adapted to be engaged by the back pressure valve, means movable in one direction for forcing the back pressure valve from its seat, a third valve located between the plunger valve and the back pressure valve and adapted to be opened when the last mentioned means is moved in the opposite direction.

1,665,968. METHOD OF MENDING FABRIC ARTICLES. HANS LIEDTKE, Hamburg, Germany. Filed May 2, 1927, Serial No. 188,410, and in Germany June 3, 1926. 1 Claim. (Cl. 2—243.)



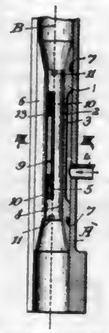
A method of mending holes or openings in hosiery or like fabrics, consisting in applying the cemented side of a patch of like material to the reverse side of the article by means of a heated pressure element, and utilizing an absorbent material beneath the patch and garment to absorb the cement driven from the patch through the hole to be mended by the heated pressure element.

1,665,969. PUNCHING BAG. DENIS MCNAMARA, New York, N. Y. Filed Sept. 16, 1926. Serial No. 135,894. 6 Claims. (Cl. 272—76.)



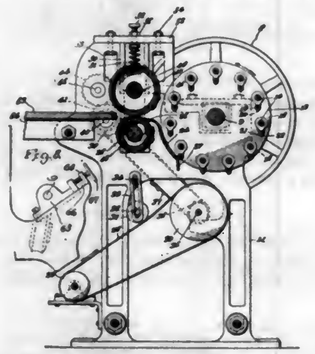
2. A punching bag including a pneumatic bag structure, a rod for supporting the bag structure, a ball connected to the lower end of said rod, said ball comprising a solid section forming substantially half the ball and a hollow section forming the other half of the ball, a rod extending through the hollow section into the solid section, and a base engaging the ball near the equator for rotatably supporting said ball.

1,665,970. DEVICE FOR SINGEING THREADS. ANTON METTLER, Reichenburg, Switzerland. Filed Mar. 12, 1926, Serial No. 94,265, and in Switzerland Apr. 9, 1925. 16 Claims. (Cl. 28—63.)



1. In a device for singeing threads by means of a combustible gas, a tubular member having part of its wall thinned to form a glowing wall, longitudinal slots being arranged diametrically opposite each other in said thin part of the wall to permit the combustible gas to pass into the interior of the tubular member.

1,665,971. DECORTICATING MACHINE. FELICIEN MICHOTTE, Paris, France, assignor, by mesne assignments, to Ramie Corporation of America, Inc., New Orleans, La., a Corporation of Louisiana. Filed Apr. 26, 1927. Serial No. 186,707. 4 Claims. (Cl. 19—26.)

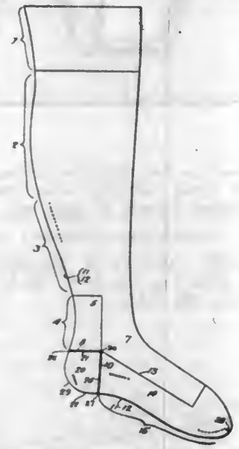


1. A decorticating machine comprising feed means, a breaker and scraping means comprising a backing plate, a cylinder mounted for rotation adjoining said backing plate, rods forming part of said cylinder, and scraper bars having offset eyes mounted pivotally on said rods, said bars having the longitudinal free edges thereof presenting a pointed scraping blade.

1,665,972. PROCESS OF MANUFACTURING FULL-FASHIONED HOSIERY. ERNST OSCAR NEBEL, Philadelphia, Pa. Filed Mar. 15, 1927. Serial No. 175,546. 5 Claims. (Cl. 66—184.)

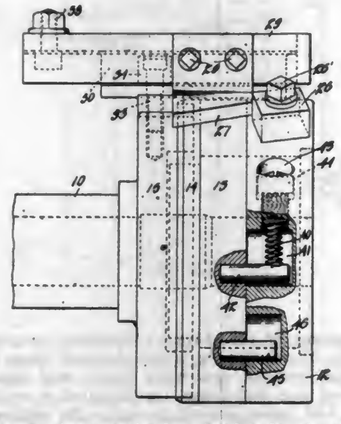
4. A process of producing full-fashioned hosiery, comprising the formation of a flat stocking blank throughout its entire length on a single flat knitting machine and the employment of a single body thread throughout the formation of the entire blank, wherein the said body thread is first fed to all the needle wales used in the formation of the blank from selvage to selvage thereof for a given number of courses, after which a reinforcing thread is fed to a given number of needle wales located adjacent each selvage edge of the blank together with the said body thread for a given number of courses to form a heel reinforced area in each side of the blank,

for the next course of stitches to be formed the body thread is fed from one selvage edge of the blank to the needle wale immediately adjacent the inner edge of the reinforced area at the opposite side of the blank the reinforcing thread operating in this reinforced area alone forming the corresponding course of stitches therein and being separated from the stitches formed by the body thread, the body thread is then fed in a reverse direction to the needle wale adjacent the inner edge of the reinforced area at the first mentioned side of the blank and the reinforcing thread in this area alone forming the



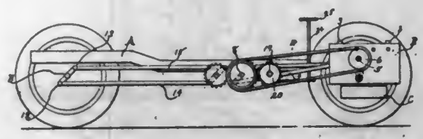
corresponding course of stitches therein being separated from the stitches formed by the body thread, the body thread is then fed in an opposite direction to the oppositely disposed selvage edge of the blank, then back and forth across the entire width of the blank for the remainder of the courses necessary to complete the blank, the said manipulation of the threads forming a cutting line in each reinforced area composed solely of the reinforcing threads operating in the respective reinforced areas and forming a selvage edged hole at the inner end of each cutting line whereby the cutting of the body thread at the inner end of each cutting line is obviated.

1,665,973. DIE HEAD. SAMUEL F. NEWMAN, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed July 11, 1925. Serial No. 43,025. 4 Claims. (Cl. 10—100.)



2. In a die head, a shank, a head body, chaser-holders pivotally supported on the body, tangential thread cutting chasers on the holders, an oscillatory ring connected to the chaserholders for moving the chasers into and out of operative position, an outwardly projecting abutment on said ring, a longitudinal guide mounted on one side of the die head, a plunger sliding on the guide parallel to the shank, a cam carried by the plunger to contact with the said abutment, said cam projecting from one side of the plunger so that the front end of the plunger will be free to act as actuator for the cam, substantially as set forth.

1,665,974. AUTOMOBILE. LOUIS NYCZ, Binghamton, N. Y. Filed Oct. 26, 1926. Serial No. 144,373. 1 Claim. (Cl. 180—70.)



In a power transmission means, a crank shaft driven by piston rods and carrying idler gears; clutches fixed to the idler gears; sprockets fixed to the crank shaft and driving sprocket chains; idler sprockets engaging said sprocket chains; a shaft carrying the idler sprockets; clutches capable of connecting the idler sprockets and the shaft gears secured to the shaft which continuously mesh with the aforementioned idler gears; drive gears meshing with the idler gears and fixed to a driving shaft connected to the axle of the vehicle; means to engage one set of clutches and disengage the other set simultaneously or to so neutralize the clutches that movement of the vehicle is stopped.

1,665,975. STRESS BREAKER. NATHAN A. OSCHER, Brooklyn, N. Y. Filed Mar. 12, 1926. Serial No. 94,266. 3 Claims. (Cl. 32—12.)

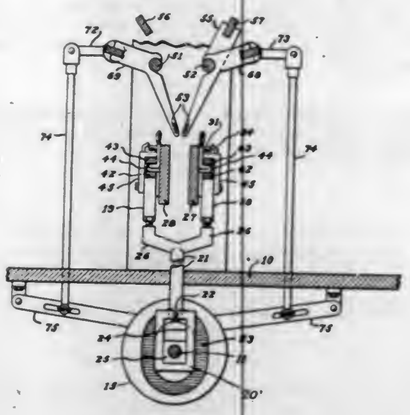


1. A device of the character described, including a sleeve, a screw having a ball and socket connection with the sleeve, a threaded socket member adapted to be connected to a partial denture and receive the screw, said sleeve adapted to support a tooth engaging member, and a nut on the screw placed gingivally of the sleeve adapted to adjust the engagement between the screw and the sleeve.

1,665,976. KNITTING MACHINE. NORMAN R. PECHIN, Philadelphia, Pa. Filed Feb. 24, 1923. Serial No. 620,986. 2 Claims. (Cl. 66—87.)

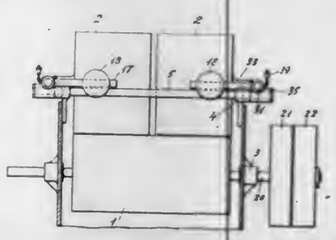
1. In a device of the class described, the combination of a pair of needle bars including a plurality of rectangular slots in the carrying frame for lateral reciprocating movement therein of said needle bars, a plurality of needles secured to and movable with said needle bars, a pair of vertically pivoted levers connected to said needle bars, an operating shaft, a pair of cams thereon for operating said pivoted levers in a horizontal reciprocating manner, a pair of needle lifting bars operatively associated with the needles on one of the needle bars, a pair of forked lifting studs secured to said needle lift-

ing bars, a pair of eccentrically grooved face cams intermediate the ends of said shaft, the lower end of said forked studs provided with laterally extending pivoted



rollers which engage in the grooves of said face cams, for effecting the vertical reciprocating movement of said needle lifting bars.

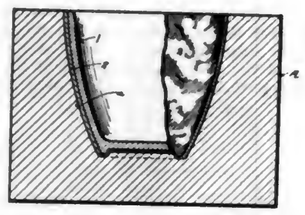
1,665,977. SCOURING MACHINE FOR WASHING FABRICS OF WOOL AND THEIR MIXTURES. FERNANDO CASABLANCAS PLANELL, Sabadell, Spain. Filed Apr. 16, 1926, Serial No. 102,508, and in Spain Apr. 21, 1925. 6 Claims. (Cl. 8—19.)



3. In a scouring machine for washing fabrics of wool and its mixtures, a lower roller revolving in bearings fixed to the frame of the machine over which roller pass the pieces of fabric which have to be washed, two upper rollers running loose arranged the one in prolongation of the other, these upper rollers resting on the lower roller with the interposition of the pieces of fabric which have to be washed and the axles of these upper rollers being mounted in such a way that they can move freely in a vertical plane so that the upper rollers may press conveniently upon the fabrics whatever may be the thickness of the same.

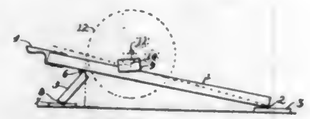
1,665,978. POTTERY-MAKING METHOD. ALBERT E. RADFORD, New Castle, Pa. Filed Oct. 1, 1923. Serial No. 666,044. 1 Claim. (Cl. 25—156.)

A method of decorating pottery consisting in kneading together a plurality of masses of plastic clay to effect a streaked mass in which the colors are still distinct, detaching part of the kneaded mass, applying to an absorbent mold, distributing to a smooth film, repeating the operation until a desired film is obtained, applying



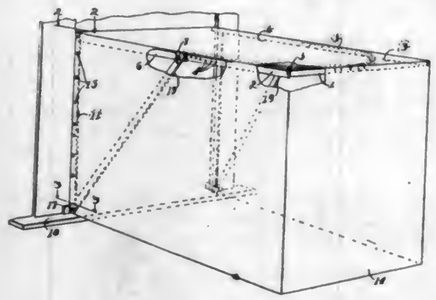
a slip to increase the wall thickness, drying to free from the mold, and firing, whereby when fired a mottled effect of any desired fineness of grain may be effected.

1,665,979. JACK. WILLIAM E. RAWLINGS, near San Jose, Calif. Filed Jan. 26, 1927. Serial No. 163,753. 2 Claims. (Cl. 254—131.)



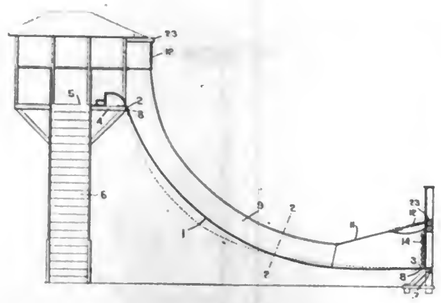
1. A jack for a revoluble axle comprising a lever having a leg mounted thereon adjacent one end and having a bearing formed therein between the leg and the other end, and a bearing member mountable upon the axle to rotate therewith and journaled in said bearing.

1,665,980. BED CANOPY. WILLIAM E. RAWLINGS, Santa Clara County, Calif. Filed Jan. 26, 1927. Serial No. 163,754. 3 Claims. (Cl. 98—89.)



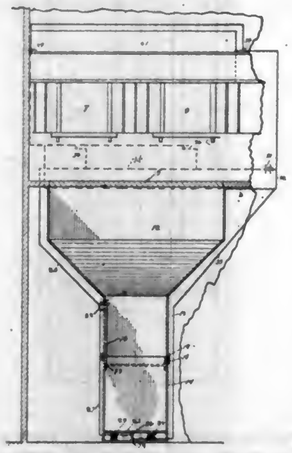
1. A canopy of the character described, comprising a collapsible frame, window frame engaging shoes mounted thereon, resilient means for urging said shoes into engagement with said frame, legs mounted on said frame adjacent said shoes adapted to engage the window stool and casing, and brace elements connecting the legs and frame.

1,665,981. AMUSEMENT APPARATUS. HERBERT N. RIDGWAY, Winthrop, Mass. Filed Mar. 17, 1923. Serial No. 625,769. 1 Claim. (Cl. 272—56.5.)



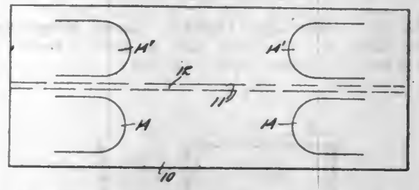
An amusement apparatus comprising two supports separated from each other and one of which is situated at a higher level than the other, a long sheet of metal flexible longitudinally, and a pivotal connection between each end of the sheet and the corresponding support, said sheet having such a length relative to the distance between the supports that normally the end of the sheet attached to the lower support extends in a substantially horizontal direction, and said sheet being sufficiently flexible so that when a person sliding down the chute arrives at the horizontal portion thereof the weight of such person will cause the sheet to sag below the lower pivotal connection so that the momentum of the person sliding down the chute will be checked by movement up the upwardly inclined lower end of sheet.

1,665,982. ROBBER TRAP. EZEKIEL M. ROCHA, Tulare, Calif. Filed May 16, 1927. Serial No. 191,896. 2 Claims. (Cl. 43—59.)



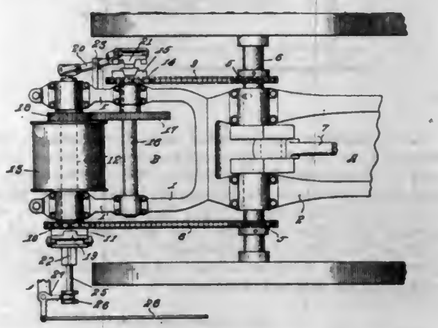
1. In a robber trap, a floor having a trap door positioned therein, a funnel shaped member secured to said floor, and surrounding said trap door, a downwardly extending pipe secured to said funnel shaped member, a receptacle positioned beneath said pipe, a vertically movable ring serving to connect said pipe and said receptacle and a hinged cover secured to said receptacle and adapted to be automatically closed after a body has been deposited within said receptacle.

1,665,983. PANTS HOLDER. FREDERICK ARTHUR ROSE, Memphis, Tenn., assignor, by mesne assignments, to Max Finkelstein, Chicago, Ill. Filed Sept. 16, 1926. Serial No. 135,911. 7 Claims. (Cl. 223—61.)



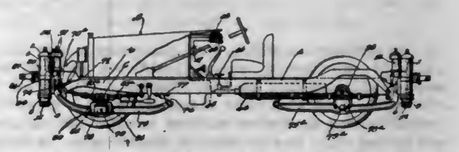
1. A pants holder comprising an elongated body having parallel weakened lines along its central portion, tongues formed adjacent opposite ends of each of said sides said tongues projecting inwardly relative to said body and arranged to engage opposite edges of a pair of pants when the same are folded thereover, substantially as set forth.

1,665,984. TRANSMISSION. LUTHER E. SCAGGS, Corsicana, Tex. Filed Oct. 23, 1925. Serial No. 64,405. 1 Claim. (Cl. 74—59.)



In combination with an engine, its crank shaft and a base upon which the crank shaft is journaled, a second base connected with the front end of the first base, a pair of shafts journaled in the second base, gears connecting the two shafts together, sprocket means connecting each shaft with the crank shaft, a pulley on one shaft, clutch means for connecting each sprocket means with each shaft, a rod slidably mounted at the front of the second base, means for sliding the rod, a pair of grooved collars on the rod, a lever for shifting each clutch means, one end of each lever engaging one of the collars.

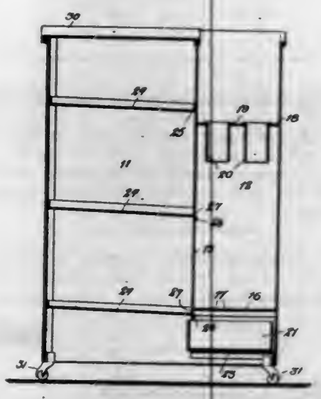
1,665,985. PNEUMATIC JACK. RAYMOND D. SCOTT, Chicago, Ill. Filed Sept. 26, 1925. Serial No. 58,878. 8 Claims. (Cl. 254—93.)



1. In a pneumatic jack, a cylinder, a piston operating in the cylinder, a barrel depending from said piston, means for normally holding the barrel in raised position

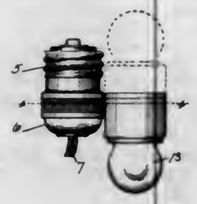
within the cylinder, means for locking the barrel in projected position beyond the cylinder, said cylinder being provided at one end with an opening accommodating the barrel during operation thereof, means for releasing the barrel and projecting it out of the cylinder and then moving said locking means into operative position and for moving the locking means into inoperative position and retracting the barrel into the cylinder and then moving said holding means into operative position.

1,665,986. ARTICLE CABINET. SARAH RUBIN SIDE, Brooklyn, N. Y. Filed Apr. 9, 1927. Serial No. 182,465. 5 Claims. (Cl. 312—146.)



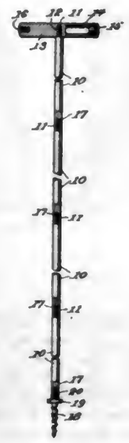
1. An umbrella and overshoe cabinet, including a body having a vertical partition sub-dividing the same into a pair of compartments respectively for the reception of umbrellas and overshoes, the former compartment having a drain receptacle at its lower end and means for supporting umbrellas thereabove for drainage into said receptacle, the latter compartment having overshoe supporting sleeves inclined toward and drainable through the said partition into the receptacle.

1,665,987. PILOT LIGHT. JOHN T. SMITH, San Francisco, Calif. Filed June 28, 1926. Serial No. 119,127. 2 Claims. (Cl. 173—344.)



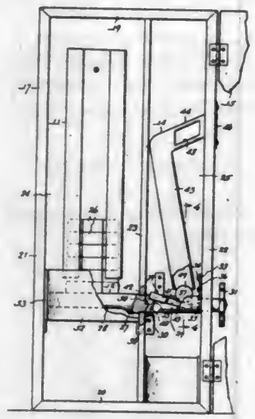
1. In combination with a plug comprising a base and a cap, said cap having prongs positioned thereon and adapted to enter said base, a receptacle adapted to be attached to said plug, said receptacle having a pair of parallel spaced conductors secured thereto, said conductors having their free extremities perforated so as to engage the prongs of said cap in such a manner as to lie in a plane at right angles to said prongs and said conductors being positioned between said base and said cap.

1,665,988. CLEANING ROD AND EXTRACTING DEVICE. LEONARD FRANCIS SMITH, Thompson Falls, Mont. Filed June 19, 1926. Serial No. 117,208. 2 Claims. (Cl. 42—92.)



1. In a device of the class described, a rod and a screw extending from one end thereof; the longitudinal axis of the screw being in alinement with the longitudinal axis of the rod and said rod carrying a hand operating element, socketed for connection with the rod in various angular positions.

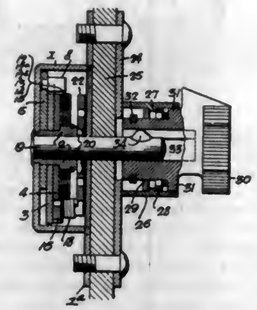
1,665,989. VENDING MACHINE. WILLARD PUTNAM SMITH, Newark, N. J. Filed Apr. 25, 1927. Serial No. 186,410. 4 Claims. (Cl. 194—48.)



1. A vending machine including a rotor adapted when rotated to deliver the articles of merchandise to be vended, one at a time, to the delivery opening of the machine, means preventing the rotation of said rotor, said means including a latch consisting of a latch member arranged in a recess in the rotor, and a fixed stop with which the latch member coacts, the latch member normally in engagement with the stop to prevent rotation of the rotor, and a coin chute for delivering coin fed thereto into said recess on to one end of the latch

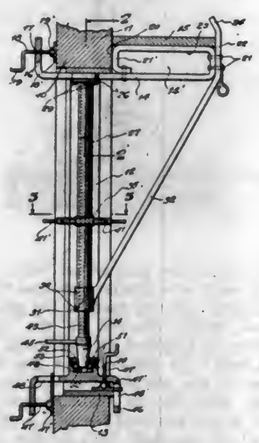
member to move it out of engagement with the stop to permit the rotor to be rotated for the delivery action, the coin being precipitated from said recess by the rotation of said rotor.

1,665,990. COMBINATION LOCK. FRANK SOLEY, Philadelphia, Pa., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed Mar. 25, 1925. Serial No. 18,166. 3 Claims. (Cl. 70—53.)



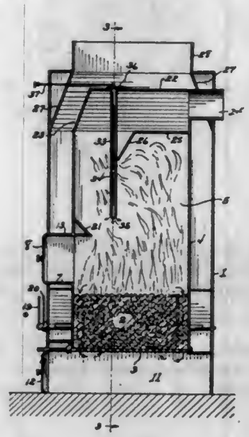
1. The combination in a lock, of a casing; a bolt, means, within the casing, for actuating the bolt, one of the means being a tumbler having a central opening and slots at each side of the opening; a spindle adapted to the central opening; a pin on the spindle extending into the slots so that, on turning the spindle, the tumblers are turned; a dial plate through which the spindle extends; a projection on the spindle; and a knob having an opening to receive the spindle, the slot at one side receiving the projection, the arrangement of the parts being such that the casing and dial plate can be adjusted to fit doors of different thicknesses.

1,665,991. WINDOW SCAFFOLD. NICOLA STRAMAGLIA, Chicago, Ill. Filed Sept. 25, 1926. Serial No. 137,737. 3 Claims. (Cl. 304—14.)



1. A scaffold structure of the class described including a supporting member adapted to support a scaffold plank, means for clamping the supporting member to the head of a window construction, means for forcing the supporting member against the bottom of the head, and means for clamping one end portion of said last mentioned means to the sill of the window construction, said clamping means embodying portions extending parallel to said head adapted to prevent lateral movement of said structure.

1,665,992. HEATING APPARATUS. WILLIAM D. STRATTON, Farwell, Mich. Filed Sept. 23, 1927. Serial No. 221,541. 8 Claims. (Cl. 126—67.)



1. A hot air furnace having an ash pit therein, a fire box above the ash pit and a combustion chamber arising from the fire box, a baffle plate in the combustion chamber, and a second baffle plate in said chamber above and directed toward the first mentioned baffle plate, said chamber having a smoke outlet above the second named baffle plate, and said fire box having angle corner partitions therein providing hot air blast ducts between the combustion chamber and the ash pit.

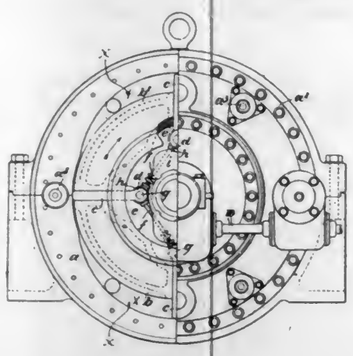
1,665,993. PROCESS FOR THE PRODUCTION OF UNSINTERED BINDING MEANS OF OIL SHALE AND LIMESTONE AND THE LIKE. OSCAR TETENS, Oerlinghausen Lippe, Germany. Original application filed Jan. 26, 1924, Serial No. 688,831, Patent No. 1,536,165. Filed in Germany May 21, 1922. Divided and this application filed Dec. 29, 1924. Serial No. 758,774. 5 Claims. (Cl. 106—25.)

1. A process for the production of a hydraulic binding material from oil-shale and lime-containing material, which comprises mixing the raw shale with lime-containing material capable of being calcined by the shale, distilling the mixture and recovering distillation products from the oil shale and burning the mixture by the shale-coke obtained from such distillation in the same kiln and grinding the residues obtained by such burning.

1,665,994. ROTARY ENGINE AND THE LIKE. IVAN TURNER, London, England. Filed July 14, 1925, Serial No. 43,539, and in Great Britain Dec. 23, 1924. 4 Claims. (Cl. 121—85.)

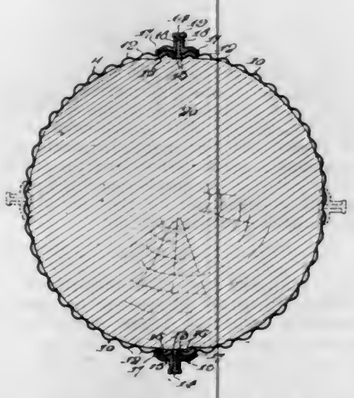
3. A rotary engine, comprising a cylindrical rotor, a non-circular casing, said rotor mounted for rotation in said casing, a plurality of vanes mounted in said rotor

and adapted to slide radially thereof, a plurality of links connecting the inner ends of said vanes, said links including telescopic members, cross members, springs press-



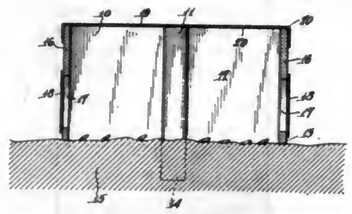
ing said cross members apart to shorten the links, and mean for limiting the extension of the links, and a stationary cam controlling the radial motion of said vanes.

1,665,995. METAL BASE FOR TIMBER POLES. ANDREW J. WILEY, Boise, Idaho. Filed Jan. 4, 1927. Serial No. 158,960. 8 Claims. (Cl. 20—100.)



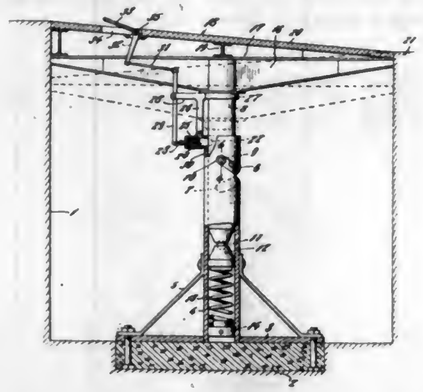
1. In a metal base for fixing timber poles in the ground a cylindrical metal sleeve divided into a plurality of sections by planes parallel to its axis, the said sections of the sleeve being firmly joined together in a circumferential direction but having free movement parallel to the axis of the cylinder along a joint made of a combination of a T shaped bar with two L shaped bars which together form the joint, the top of the T being corrugated to fit interiorly with the corrugations of the sleeves, the leg of the T passing between the parallel edges of the sections of the sleeve and having a cross at its exterior and bearing against the exterior ends of the legs of the two L bars, one leg of each of which is corrugated to fit the exterior corrugation of the sleeve, and the locking being effected by the clamping of the corrugations of the sleeves between the conforming corrugations of the interior T bars and the exterior L bars.

1,665,996. DEVICE FOR PROPAGATION OF CLAMS. RALPH C. ADAMS and JONATHAN T. ADAMS, Somers Point, N. J., assignors to Adams Elsworth Bivalve Co., Montclair, N. J. Filed Apr. 7, 1926. Serial No. 100,385. 1 Claim. (Cl. 119—4.)



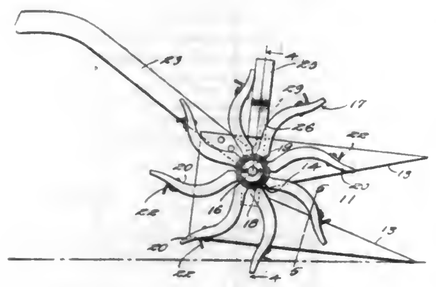
In the propagation of clams, a protecting structure for a natural bed comprising a plurality of stakes driven into the bed in upright positions and spaced a substantial distance apart substantially equal to the length of the bed, one at each end of the bed, end boards secured to and adjacent the outer faces of said stakes, side boards arranged in upright positions and secured to the ends of the end boards, thereby causing a rectangular enclosure to be constructed, a wire fabric top having depending side and end parts fitting down over the enclosure, the side boards having openings down and relatively close to the sides of the bed, and wire fabric closing said openings, said wire fabric covered openings and the wire fabric top, acting to permit water and natural food to easily enter the enclosure, without allowing the clam spats to be washed away or scattered.

1,665,997. AUTOMOBILE TURNTABLE. JAMES G. AUSTIN, Price, Utah. Filed July 15, 1927. Serial No. 206,075. 4 Claims. (Cl. 104—44.)



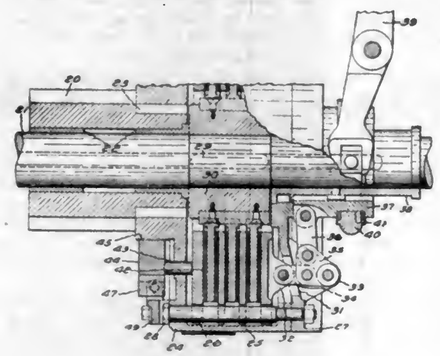
1. In a device for the purpose set forth, a pit, having one of its side walls at a greater elevation than the other, a hollow standard centrally fixed in the pit, a shaft having a portion freely received in the standard, said standard having an elliptical opening whose end walls are rounded and which are disposed in a line with the axial center of two of the opposite sides of the standard, an anti-frictional roller on the shaft received in the slot, spring means in the standard exerting a pressure against the inner end of the shaft, and a turn table fixed on the shaft having its top portion in the nature of an inclined plane, and having its ends normally arranged in a line flush with the mentioned side walls provided by the pit.

1,665,998. STRAWBERRY TOP AND RUNNER CUTTER. JOHN BECHTHOLD, Elma, Wash., assignor of one-eighth to Austin A. Foote and one-eighth to Jesse L. Paine, Elma, Wash. Filed Dec. 21, 1926. Serial No. 156,188. 3 Claims. (Cl. 55—64.)



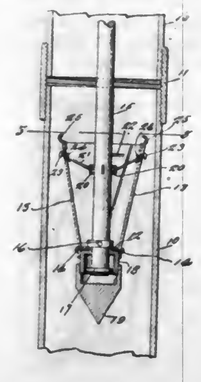
3. In a strawberry runner cutter, a plate formed with a V-shaped notch opening through one end thereof, the edges of the notch being formed to provide cutting edges disposed at one face of the plate, the plate being provided above and below the apex of the notch with openings for the interchangeable reception of a pivot, a rotating spider mounted upon said pivot and operating against the face of the plate which is provided with the cutting edges and having arms longitudinally curved in the direction of rotation of the spider, the end of the plate through which the notch opens extending in advance of the arms of the spider and a handle secured to the plate.

1,665,999. CLUTCH. ARTHUR A. BYERLEIN, Detroit, Mich. Filed June 16, 1924. Serial No. 720,324. 11 Claims. (Cl. 192—111.)



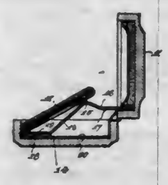
1. In a clutch apparatus of the character described, clutch members adapted to be clutched together, said clutch members carrying means adapted to be moved into and out of engagement with one another, operating mechanism for controlling the engagement of said means, and adjusting mechanism for the clutch, said mechanism comprising an abutment operatively connected with said means, means operable for effecting a rapid adjustment of the abutment, and means operable for effecting a slow adjustment of the abutment, said adjusting means being independent of said operating mechanism and adjustable while maintaining the clutch in its assembled condition.

1,666,000. WELL-CLEANING DEVICE. EARL EDGAR CAMPBELL, Gillette, Wyo. Filed Jan. 22, 1926. Serial No. 83,057. 4 Claims. (Cl. 166—18.)



1. A well cleaning device comprising an inverted hollow substantially frustro-conical receptacle closed at its lower end, radially expansible walls for said receptacle, said walls being normally held in contracted position and capable of movement to expanded position when the device is subject to impact.

1,666,001. JEWELRY CASE. TIBURCE CATALA, Englewood Cliffs, N. J. Filed Mar. 6, 1926. Serial No. 92,906. 3 Claims. (Cl. 206—44.)



2. A case comprising a body in the form of a receptacle, a cover hingedly connected with the body, a foldable false bottom connected with the cover, the false bottom normally adapted to lie flat within the body, and means slidably retaining a portion of the false bottom, so that in the movement of the cover to an opened position, the false bottom will be moved to an inclined position.

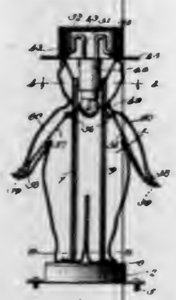
1,666,002. TIRE BOOT. MARTIN P. COLE, Goodland, Kans. Filed Sept. 20, 1927. Serial No. 220,753. 2 Claims. (Cl. 152—24.)



1. A self-vulcanizing patch or boot for the outer casings of pneumatic tires comprising a composite body portion having the elements thereof vulcanized together and consisting of a flexible base, a body portion formed of a plurality of plies of non-stretched material and of a material different from that of the base, a flexible covering formed of a plurally of plies of material and of a material different from that of said body portion, and said covering and body portion arranged in stepped relation,

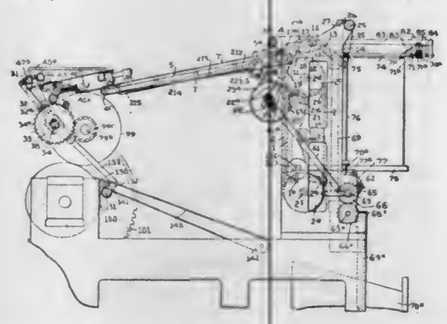
and a coating extending completely throughout the outer face of said covering and possessing a characteristic to provide from the self-vulcanizing of said body to the inner face of the outer casing of a tire.

1,666,003. SIGNAL. FRANK MICHAEL CRYSTLER, Belding, Mich. Filed Aug. 11, 1924. Serial No. 731,464. 2 Claims. (Cl. 177—329.)



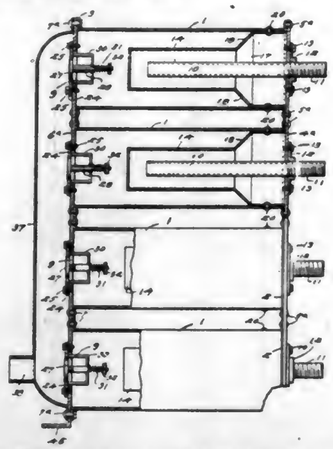
1. A signal for automobiles adapted for connection to the radiator cap comprising a metal cup-shaped base member, means for connecting the base member to the radiator cap, vertically disposed channel-shaped members secured to the base member, the upper end of each channel-shaped member being provided with an arcuately-shaped plate, an insulating member carrying a contact member and secured to each plate, each contact member being provided with a groove having a notch, a transparent casing in the shape of a figure enclosing the channel-shaped members, a hat, means for securing the plates to the opposite sides of the inner wall of the hat, a lamp socket, laterally opposed resilient fingers carried by the socket adapted to engage the notches in the grooves of the contact members for locking said socket in position, electric wires passing through the base member and through the channel-shaped members, one of the wires being connected with a contact member, the other wire being connected with the other contact member.

1,666,004. SHEET-PRINTING PRESS. MICHAEL ANDREW DROITCOUR, Providence, R. I. Filed Aug. 29, 1923. Serial No. 659,937. 11 Claims. (Cl. 271—74.)



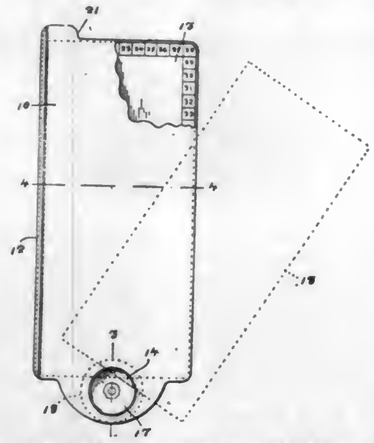
1. In a printing press of the character specified, sheet advancing means comprising a support, adjacent endless tapes having runs lying on the surface of said support, said tapes being arranged close together, the space between the tapes the support and a sheet laid on the tapes forming an air channel; and means for creating suction in said channel, whereby the sheet is held to the tapes by suction and is moved forward by the tapes when the latter are travelled.

1,666,005. EXHAUST TRAP. ARTHUR J. CULP, Clanton, Ala. Filed May 23, 1925. Serial No. 32,865. 2 Claims. (Cl. 137—160.)



1. An exhaust trap comprising a cylinder provided at its ends with outwardly directed flanges, first and second head plates secured to the flanges and the first head plate having a discharge port, an imperforate baffle tube of uniform diameter throughout and arranged within the cylinder with its ends spaced from the head plates, the end of the baffle tube adjacent the first head plate being closed and the end adjacent the second head plate being fully open, a conical baffle plate provided with openings and extending from the open end of the baffle tube in the direction of the second head plate and cylinder and terminating short of the second head plate, a cylindrical attaching flange extending from the conical baffle plate to the second head plate and contacting with the inner side of the cylinder, attaching elements engaging the cylinder and flange, and an exhaust tube secured to and extending inwardly and outwardly beyond the second head plate and extending into the baffle tube with its discharge end arranged in close proximity to the closed end of the baffle tube.

1,666,006. TICKET HOLDER. HARTVIG H. A. DUNCAN, Garden City, N. Y. Filed Aug. 20, 1926. Serial No. 130,511. 3 Claims. (Cl. 129—35.)



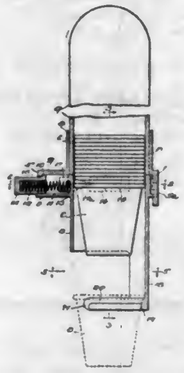
1. A ticket holder comprising a case having one of its sides open, a member turnably mounted in the opposed walls of said case adjacent one end thereof and

provided with manipulating heads exteriorly of the walls of said case, and yieldable co-acting clamping disks carried by said member intermediate the walls of said case for clamping the edge of a ticket therebetween.

1,666,007. SEPARATOR AND METHOD OF MAKING THE SAME. WILLIAM S. GOULD, New York, and WILLARD B. OSBORNE, Elma, N. Y., assignors to Gould Storage Battery Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1923. Serial No. 670,822. 8 Claims. (Cl. 136—150.)

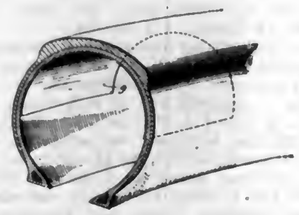
1. The method which consists in treating a separator to remove such of its constituents as would deleteriously attack lead when subjected to electrolytic action and drying the separator between heated surfaces.

1,666,008. CUP-DISPENSING MACHINE. FRIEDRICH GRAFFENBERGER, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 6, 1926. Serial No. 139,793. 6 Claims. (Cl. 312—44.)



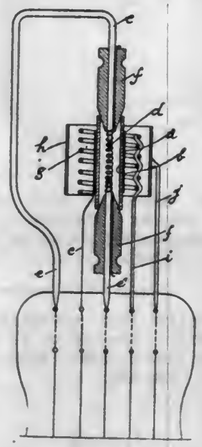
1. In means for dispensing flanged cups arranged in a stack in nested relation, a neck defining a dispensing opening and having flattened and slotted side portions, a base plate extending from the neck, a cover member secured to the base plate and forming therewith a housing, a slide mounted on the base plate for movement toward and away from the neck and straddling the same, the arms of the slide being confined between the flattened side portions of the neck and the side walls of the cover member and guided and held against play thereby, means carried by the arms of the slide and operable through said slots for supporting a stack of cups when the slide is in its outer position and for releasing the lowermost cup of the stack and permitting it to be dispensed through the neck when the slide is moved inwardly across the neck into its inner position.

1,666,009. TIRE BOOT. MARTIN OSCAR HANEY, Iola, Kans. Filed May 27, 1927. Serial No. 194,779. 3 Claims. (Cl. 152—24.)



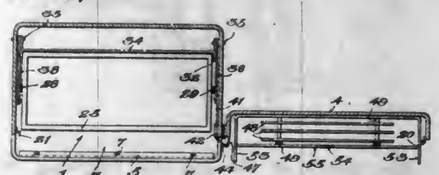
2. In a repair patch for tire shoes, a flat compressible element of sufficient size to extend over a substantial area of the crest of a tire shoe and having flexible strands incorporated therein, and sheets of superimposed elastic material between which the compressible element is disposed, one of which is arranged to be fastened to the walls of the shoe, and means uniting the compressible element and sheets together.

1,666,010. VALVE FOR WIRELESS TELEGRAPHY OR TELEPHONY. JACQUES ANTOINE MARIE HAWADIER, Paris, France. Filed July 18, 1925, Serial No. 43,259, and in France Aug. 2, 1924. 2 Claims. (Cl. 250—27.5.)



1. A valve for wireless telegraphy and telephony, comprising a metallic tubular cathode coated with electron emitting metallic oxides, an auxiliary heating filament in said cathode, conductors for supplying alternating current supporting the filament, a quartz tube between the filament and cathode, supporting the latter and projecting beyond the ends thereof, and collars at both ends of the quartz tube supporting the same and the said conductors.

1,666,011. WARDROBE TRUNK. EDWARD A. HOFF and WILLIAM C. SANFORD, La Oroya, Peru. Filed Apr. 9, 1926. Serial No. 100,995. 8 Claims. (Cl. 190—18.)



2. A wardrobe trunk having an open front, a door for said open front, a set of drawers mounted as a unit within the main trunk section for movement in a line perpendicular to the back of the trunk, and means actuated by the door for moving said unit to the front of the trunk by the opening of the door and for moving said unit into the back of the trunk by the closing of the door.

1,666,012. COOKING, FREEZING, AND STORING RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Jan. 24, 1927. Serial No. 163,258. 1 Claim. (Cl. 220—95.)

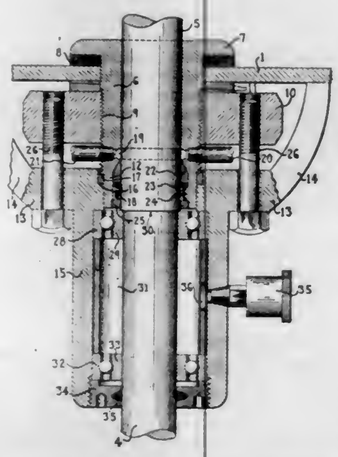
A receptacle, including a body and a friction cover, a pair of bail-like handles pivoted at diametrically opposite points to the sides of the body, said handles having

angularly bent blght portions adapted to be disposed over the upper end of the body and over a portion of the cover, and a handle swingably carried by the cover



having portions adapted for interengagement with the angularly bent portions of the body handles when swung to an upright position, for locking the cover to the body and effecting a sealing of the cover with the body.

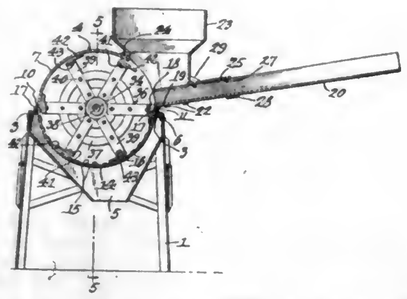
1,666,013. MEANS FOR STERILIZING BEARINGS FOR SHAFTING. WILLIAM H. JACKSON, Douglaston, N. Y. Filed June 2, 1920. Serial No. 386,043. 6 Claims. (Cl. 308—134.)



1. The method of cleansing and sterilizing shaft bearings which are associated with containers for treatment of liquid material and which are subject to befouling influences of the liquid material therein; which consists in injecting a sterilizing fluid into and around the bearing and causing it to flow along the shaft therein whereby to remove or dislodge the befoulment therein.

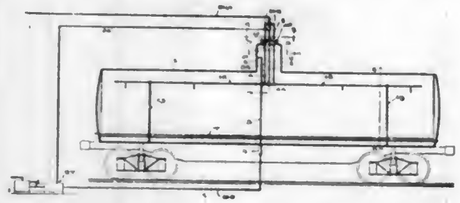
1,666,014. GRINDER CUTTER. JOHN HENRY KERSHNER, Norton, Kans. Filed Aug. 31, 1925. Serial No. 53,637. 7 Claims. (Cl. 146—123.)

2. In a device of the class described, a support, a chute carried by the support, a fixed blade at the inner end of the chute, and a rotor journaled on the support and provided with circumferentially extended blades coacting with the fixed blade, the working edges of adjacent blades on the rotor being inclined in opposite directions transversely of the rotor, said edges being provided with teeth, the above-defined construction of the working ed es of the blades being such that a draw cut will be effected



and, at the same time, the material will be centralized with respect to the chute, to prevent a crowding of the material at the sides of the chute.

1,666,015. TANK-CLEANING APPARATUS. GEORGE W. LAND, Vancouver, Wash. Filed Nov. 29, 1926. Serial No. 151,576. 9 Claims. (Cl. 141—1.)

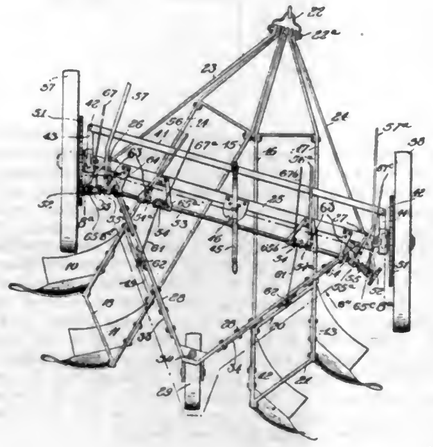


1. Means for cleaning a tank car having a valved drain outlet in its bottom and a dome at its top, said dome being provided with a filler opening at the top of the dome, comprising a distributor pipe depending through the opening at the top of the dome into the tank car, a clamp embracing said distributor pipe and having end portions resting on the top of the dome for supporting said distributor pipe, a pair of tubular spray pipes connected with the lower end of said distributor pipe and extending longitudinally of the tank car within the upper part of the tank car body, supports within the tank car body for the outer end portions of said spray pipes, said supports being foldable for passage through the opening in the top of the dome of the tank car, and a pump having its intake side connected with the outlet in the bottom of the tank car, and having its delivery side connected with the upper end of said distributor pipe.

1,666,016. TWO-WAY PLOW. KENNETH C. LIVERMORE, Ithaca, N. Y. Filed Sept. 20, 1920. Serial No. 411,558. 11 Claims. (Cl. 97—20.)

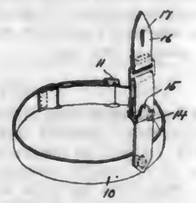
1. In an agricultural implement a plurality of separately operable ground tools, a pair of parallel supporting wheels for said tools, mechanism operable by either wheel for raising or lowering one of said wheels relative to the other, a second mechanism operable by the same wheel as the first mentioned mechanism for raising each tool from cooperation with the ground to an inoperative position, attaching means for a drawing force for the implement and a device for moving the operating tool about the attaching means into alinement with the drawing force.

7. In a two way plow, a pair of wheels, a frame member mounted between said wheels, connections between said member and the wheels permitting the latter to be adjusted to different angular positions with respect to said member, means for effecting such adjustment, a frame extending forwardly from said member, a draft connection on the front of said frame adapted to occupy a position at one side of the median line between said wheels when said member is disposed at an angle to the axis of either wheel, a rear frame connected with said member, a pair of plow carrying frames adapted to be guided vertically upon said rear frame and converging forwardly and having their front ends secured to said draft connection, and means for effecting independent raising or lowering of said plow carrying frames.



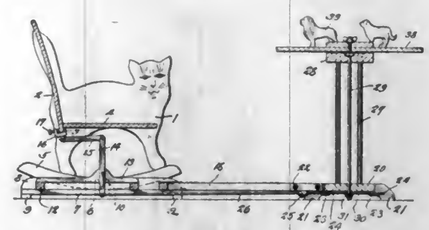
10. In a two way plow, a pair of dirigible wheels, a frame connecting said wheels and projecting forwardly and rearwardly thereof, the wheels being vertically adjustable relative to the frame and to each other, means for simultaneously steering said wheels, said steering means serving to effect relative angular adjustment between the wheels and frame whereby the latter will occupy predetermined angular positions with respect to the frame, a draft connection on the front of the frame, forwardly converging plow carrying frames inclined to the axis of the wheels and adapted to be guided vertically upon the rear portion of the frame and having their front ends pivotally engaging a portion of said draft connection, and means for independently raising said plow carrying frames.

1,666,017. STOCKING PROTECTOR. BERTHA B. LININGER, Versailles, Mo. Filed Jan. 23, 1926. Serial No. 83,313. 1 Claim. (Cl. 241—1.)



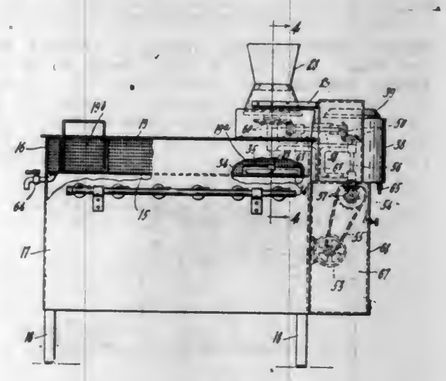
A garment supporter comprising in combination an adjustable band adapted to encircle the limb of the user, an elastic tape rising from one side of the band, a headed element carried by the band, a socket member carried by the lower end of the tape, whereby the latter is detachably connected with the band, said tape being formed at its upper end with an adjustable loop to permit the tape to be varied in length, a buckle carried by the loop, and a tab associated with the buckle and having a button hole for attachment to a body garment as and for the purpose specified.

1,666,018. AMUSEMENT APPARATUS. EDGAR MAYETTE, Canisteo, N. Y. Filed Mar. 25, 1927. Serial No. 178,311. 5 Claims. (Cl. 272—1.)



1. The combination with a portable base structure, of a movable toy member, toy driving mechanism connected to said structure, a rocking chair resting on and movably mounted relative to said structure, and an operative connection between the chair and the driving mechanism.

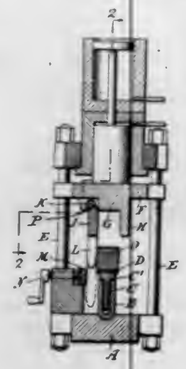
1,666,019. POTATO-CHIP MACHINE. JOHN J. MCCARTHY, Middleboro, Mass., assignor to Colonial Brass Company, Middleboro, Mass., a Corporation of Massachusetts. Filed July 19, 1927. Serial No. 206,810. 4 Claims. (Cl. 53—7.)



1. A potato chip machine comprising a tank having a partition subdividing it into a flow passage and a return passage, said passages communicating with each other at their opposite ends so that a continuous circulation of oil is permitted through the passages, and a combined slicing and oil-forcing mechanism adapted to deliver slices to the flow passage and cause a circulation of oil in the flow and return passages, said mechanism including a vertical driven shaft journalled in a fixed bearing and projecting into one end of the flow passage, a fixed hopper above the shaft, a slicer composed of a horizontal head fixed to the upper end of the shaft, and a knife fixed to the head and revoluble horizontally by the shaft across the bottom of the hopper, and an oil propeller fixed to

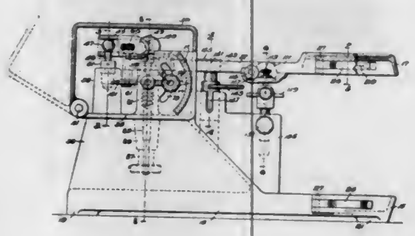
the lower end of the shaft and revoluble horizontally thereby in close proximity to the bottom of the tank, so that the propeller is submerged in a body of oil of operative depth, the propeller being formed to cause a continuous circulation of oil through said passages.

1,666,020. PRESS. FRITZ MENNE, Weidenau-on-the-Sieg, Germany, assignor to Herman F. Hoevel, New York, N. Y. Filed May 20, 1927, Serial No. 192,816, and in Germany Oct. 20, 1925. 7 Claims. (Cl. 78—42.)



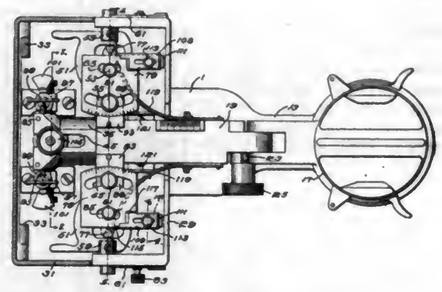
1. A press of the character described, provided with a die and a pressure member cooperating with said die, said pressure member having side members of unequal length adapted to engage the die on opposite sides, the longer side member being adapted to form a stop for positioning the material to be compressed.

1,666,021. ARTICULATOR. GEORGE P. PHILLIPS, Boston, Mass. Filed Jan. 2, 1925. Serial No. 6. 12 Claims. (Cl. 32—1.)



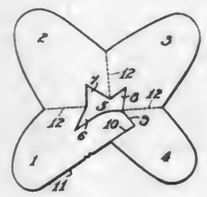
1. A dental articulator comprising a fixed lower model holder, a model holding arm cooperatively and movably related thereto and located above the fixed holder, a connection permitting free movement of the arm and providing longitudinal, lateral and vertical movements of the upper model holder relatively to the lower holder, the same comprising a ball and socket joint permitting longitudinal movement of the arm and a hinged connection of the arm thereto about a horizontal axis, and a set of guiding devices for each opposite side of the arm independently adjustable for guiding the arm in its longitudinal, lateral and vertical movements and serving to control the arm, each independently of the other in respect to its extreme right- and left movements.

1,666,022. ARTICULATOR. GEORGE P. PHILLIPS, Boston, Mass. Filed July 18, 1925. Serial No. 44,460. 35 Claims. (Cl. 32—1.)



1. In an articulator, the combination with a support, of a movable model-carrying arm having a floating connection to the support providing for a bodily movement of the arm in all directions, both vertically, laterally and longitudinally, without a fixed center of rotation, with devices for adjustably defining the opposite movements of the arm, including an adjustable guide for each opposite movement to define the inclination to the horizontal plane taken by the arm in that movement, lateral guiding devices comprising for each opposite lateral movement an independently adjustable device to provide lateral guidance corresponding to the outer interference at one condyle of the natural jaw and a differently located adjustable device to provide a guidance corresponding to the inner interference at the opposite condyle, and a device to limit the protrusive movement of the arm for each opposite extreme lateral movement thereof.

1,666,023. GLOVE. FRANK X. STURM, Alexandria, Ind., assignor to The Glove Corporation, Alexandria, Ind., a Corporation of Indiana. Filed Nov. 12, 1926. Serial No. 147,883. 2 Claims. (Cl. 2—169.)

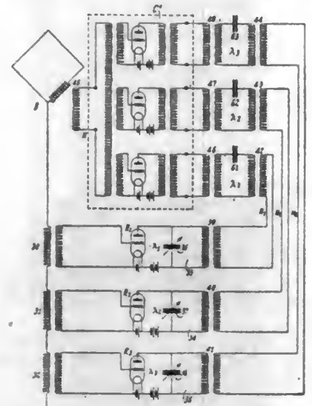


1. A blank for the backs of the fingers of a glove comprising a substantially star shaped blank having an aperture at its center and its points constituting the backs of the fingers, two of the points of the blank being separated on a line extending transversely into the base of one of the points of the star and forming a continuation of one edge of another point of the star.

1,666,024. ARRANGEMENT FOR MULTIPLEX DIRECTIONAL RECEIVING. NICOLAI VON KORSHENEWSKI, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed June 19, 1924, Serial No. 720,909, and in Germany June 28, 1923. 6 Claims. (Cl. 250—9.)

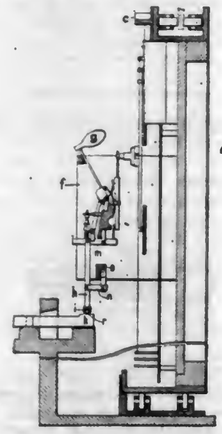
1. In combination, a directional aerial, means associated therewith and tuned to different frequencies for producing a plurality of non-directional antenna effects,

means for combining the effects produced by the directional aerial and said non-directional means, said combining means having a tuning element for each of the non-



directional effects whereby more than one frequency may be simultaneously received on the aerial and first mentioned means from a single direction.

1,666,025. TRANSPOSING DEVICE FOR KEYED INSTRUMENTS. JULES ZUMBÜHL, Basel, Switzerland. Filed Feb. 26, 1925, Serial No. 11,769, and in Germany Mar. 10, 1924. 1 Claim. (Cl. 8—449.)

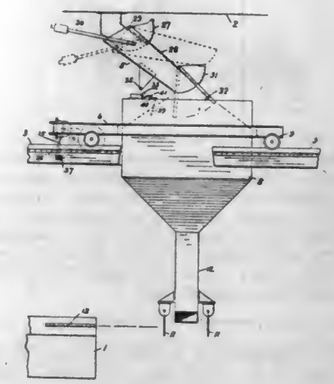


In a keyed musical instrument a board of keys, a movable string-plate, an intermediate hammer action and means for connecting the hammer action to the string-plate so that it is movable therewith relatively to the keys.

1,666,026. PROCESS OF WELDING. ROBERT APPLEGATE, Cleveland, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 10, 1921. Serial No. 506,851. 5 Claims. (Cl. 219—8.)

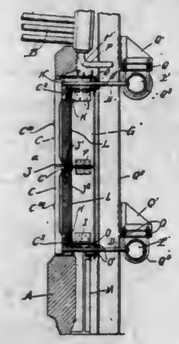
1. The process of welding copper bonds to railway rails which comprises disposing a copper bond adjacent a rail, heating the rail and melting a portion of the bond by means of an electric arc, placing a quantity of calcium silicon in contact with the molten bond metal, and melting additional copper to complete the weld.

1,666,027. AUTOMATIC FUEL-SUPPLY MEANS FOR BOILERS. ROBERT H. BEAUMONT, Radnor, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1926. Serial No. 139,970. 5 Claims. (Cl. 214—18.)



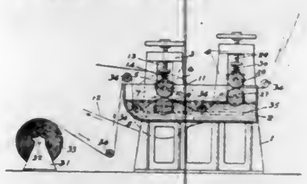
1. Automatic fuel supply means for boilers comprising a track, bunkers arranged above and toward one end of the track and having pivotal chutes, boiler hopper extensions arranged below and toward the other end of the track, a power driven larry having a power operated discharge gate, means on the larry responsive to a depleted hopper supply and adapted to open the larry discharge gate, trip and intermediate switch mechanism for causing the larry to travel back and forth over the hoppers, mechanism on the larry responsive to its fuel supply and adapted to set the intermediate reversing switch to let the larry go through to the bunkers, mechanism responsive to a depressed bunker chute and adapted to stop the larry and to set its switch mechanism ready for travel toward the hoppers, and devices responsive to the contents of the larry for starting it in the last named direction.

1,666,028. FLUID HEATING. JOHN E. BELL, Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed July 17, 1924. Serial No. 726,584. 13 Claims. (Cl. 122—476.)



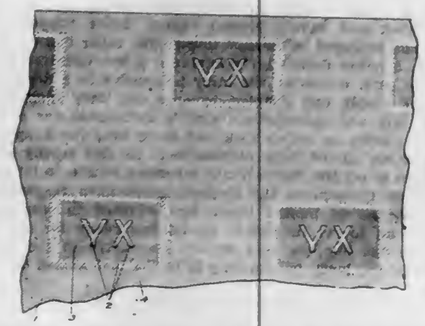
1. The method of preventing objectionable deformation of an elongated channeled element absorbing radiant heat at one side which consists in substantially restraining the tendency of the element to bend in a plane parallel to its length and transverse to its heat absorbing face while permitting the element to elongate and contract freely in response to changes in its temperature.

1,666,029. IMPRINTING DEVICE. DANIEL D. MADDEN, Portland, Oreg. Filed Nov. 30, 1925. Serial No. 72,270. 5 Claims. (Cl. 8—19.)



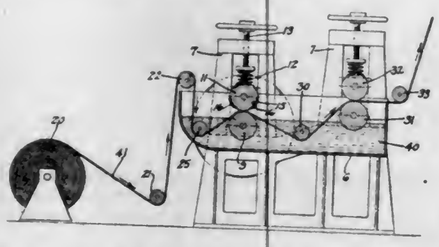
1. Means for imprinting on paper a plurality of tones with one dye, comprising, in combination, means for holding a quantity of dye, impression rollers, having varying impression surfaces, mounted in proximity to the dye in said dye holding means, means for immersing paper in the dye and passing it directly from the dye to and between said rollers and directly from said rollers to and through said dye a second time.

1,666,030. IMPRINTED PAPER. DANIEL D. MADDEN, Portland, Oreg. Filed Dec. 21, 1925. Serial No. 76,807. 1 Claim. (Cl. 41—26.)



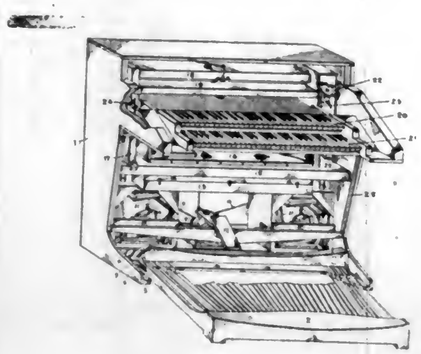
A paper dyed throughout its structure and having a dyed design thereon, differing in its color appearance from the rest of the dyed paper surface, the paper having the dye pressed into it over approximately its whole surface with the same dye in the design as in the rest of the paper, but with different degrees of pressure, said design being visible on both surfaces of the paper.

1,666,031. PROCESS OF PRODUCING IMPRINTED PAPER. DANIEL D. MADDEN, Portland, Oreg., assignor to Pacific Northwest Paper Mills, Inc., Portland, Oreg., a Corporation of Oregon. Filed Dec. 13, 1926. Serial No. 154,551. 5 Claims. (Cl. 8—5.)



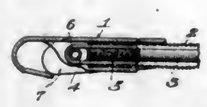
1. A process of producing a plurality of tints in paper from a dye of a single color which consists in immersing the paper in the liquid dye and directly thereafter passing the wet paper under pressure between impression rollers provided with printing designs, and then passing the impressed paper as it leaves the rollers directly into and through the dye a second time.

1,666,032. ORGAN. BENOIT MAURO, Brooklyn, N. Y. Filed Sept. 9, 1925. Serial No. 55,236. 4 Claims. (Cl. 84—354.)



1. In an organ of the class described, pumping mechanism in the base thereof, a pedal chest above said pumping mechanism, a wind channel above said pedal chest, and detachable bellows above said wind channel, keyboards above said bellows, and reed chests above said keyboards, said reed chests connected to said wind channel by a channel at one side of said instrument.

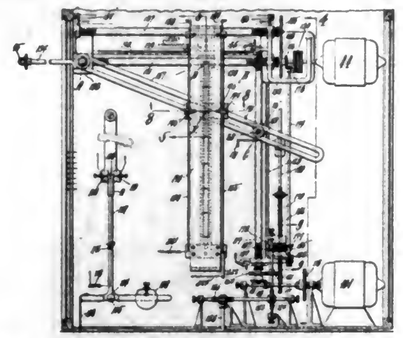
1,666,033. EXPANSIBLE BRACELET. FREDERICK W. NITTEL, Attleboro Falls, Mass., assignor to M S Co., Attleboro, Mass. Filed Aug. 18, 1927. Serial No. 213,822. 2 Claims. (Cl. 63—5.)



1. A bracelet for use with watch engaging end hooks having cross pins, including an expansible hollow fabric, U-shaped clips having the free ends of their legs received within the fabric and secured thereto, and coil springs within the fabric having their ends disposed between the legs of the clips and secured thereto, the closed ends of the clips being spaced from the adjacent ends of the coil springs whereby to receive the cross pins in said space and to confine same between the closed ends of the clips and the ends of the springs.

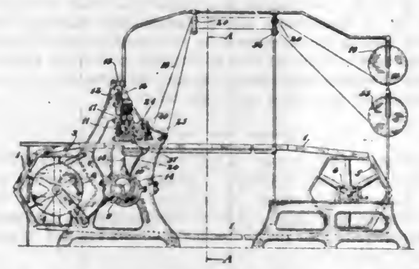
1,666,034. INDICATOR FOR AUTOMATIC SLOWNESS TESTERS. MILTON O. SCHUR, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Jan. 23, 1926. Serial No. 88,824. 31 Claims. (Cl. 92—38.)

1. In a device of the class described, a container for a pulp suspension, means for forming a mat of the pulp of the suspension, means for causing the liquid of the suspension to flow through the mat, means for subjecting the mat to a uniform and reproducible compression, and



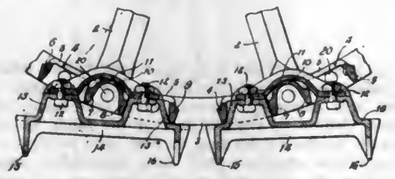
means for indicating variations in the thickness of the mat, said indicating means including a rectilinear scale and a pointer movable relatively thereto.

1,666,035. MACHINE FOR USE IN MAKING BOXES. CHARLES J. WESTIN, Rockaway, N. J., assignor to Wirebounds Patents Company, a Corporation of Maine. Filed June 22, 1925. Serial No. 38,790. 10 Claims. (Cl. 1—8.2.)



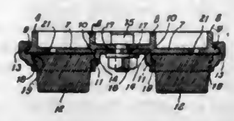
1. In a wirebound box blank machine, means for applying binding wire to box parts comprising, in combination, staple-forming and driving mechanism adapted to form a plurality of staples from a plurality of staple stock wires automatically fed thereto and to drive the same in close spaced relationship over a binding wire into the work, and means to feed a plurality of staple stock wires to said mechanism comprising a single feed roller cooperating with a plurality of tension rollers.

1,663,036. TRACTION WHEEL. WILLIAM E. WINE, Toledo, Ohio, assignor to The Tractor Grip Wheel Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 14, 1925. Serial No. 15,503. 4 Claims. (Cl. 305—13.)



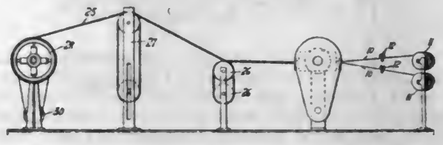
1. A traction wheel comprising a rim, a plurality of transversely extending teeth on said rim and within the periphery thereof, a traction shoe having a plurality of transversely extending spaced teeth adapted to be received between the teeth on said rim, and a holder secured to two teeth on said shoe and loosely held on said rim.

1,666,037. TRACTION WHEEL. WILLIAM E. WINE and JOSEPH W. PROMENSCHENKEL, Toledo, Ohio, assignors to The Tractor Grip Wheel Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 8, 1925. Serial No. 21,729. 2 Claims. (Cl. 305—13.)



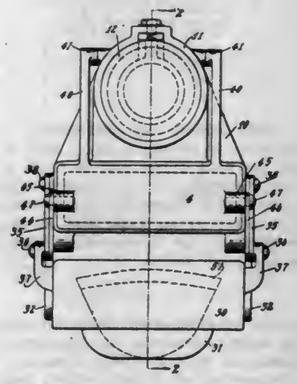
2. A traction shoe comprising a plate having flanges at the ends thereof and shoulders adjacent the center thereof, pad holders having sockets to receive said flanges and having shoulders to co-operate with the shoulders on said plate, the ends of said holders lying adjacent each other near the center of said plate, and a bolt passing through said plate and securing said ends of said holders thereto.

1,666,038. METHOD AND APPARATUS FOR THE MANUFACTURE OF TIRE BEADS. STERLING W. ALDERFER, Akron, Ohio. Filed May 28, 1926. Serial No. 112,358. 9 Claims. (Cl. 154—9.)



1. A method of manufacturing beads for pneumatic tires, comprising the steps of leading a plurality of separate wires from individual sources without weaving or braiding, imparting to the wires a curvature similar to that which they will assume in the completed bead, extruding a mass of tenacious rubber composition about the wires, reducing the wires and the rubber to the tape form, and winding the tape thus formed into a ring to constitute a reinforcement for the bead.

1,666,039. ADHESIVE-APPLYING DEVICE. WILLIAM H. BAYNARD, Brookline, Mass., assignor to Harry H. Beckwith, Brookline, Mass. Filed Jan. 22, 1925. Serial No. 3,956. 11 Claims. (Cl. 91—47.)

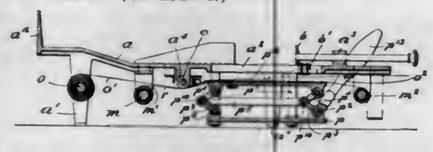


2. A device of the class described comprising a receptacle, a liquid applicator, a movable article support, and means whereby on movement of said support in one di-

rection said applicator moves from said receptacle and applies liquid to an article on said support, and whereby on movement of said support in another direction said applicator returns into said receptacle.

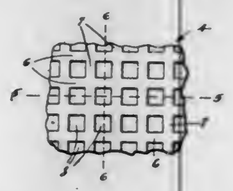
11. A device of the class described, comprising a receptacle having a rearward extension shaped to receive and enclose a bottle in inverted position to feed a liquid barometrically to said receptacle, a cover for said receptacle in front of said extension, an applicator on the inside of said cover and dipping into the liquid in said receptacle, a movable article support, and connections between said cover and support, by which said cover may be raised and said applicator applied to an article on said support, said cover when closed and said bottle together closing off the liquid in said device from access of external air thereto.

1,666,040. FOOT-MEASURING DEVICE FOR FITTING SHOES. ELMER J. BLISS, Boston, Mass., assignor to Regal Shoe Company, Whitman, Mass., a Corporation of Massachusetts. Filed Apr. 8, 1920. Serial No. 372,147. 10 Claims. (Cl. 234—1.)



1. A foot measuring device provided with a width size scale embracing in its construction a foot supporting base, a length indicating gage member movable longitudinally thereof and side gaging members laterally movable thereof, the said gaging members being provided with index members arranged to travel along appropriate measuring scales and means for imprinting said index members and scales on a strip of paper or the like to indicate thereon the length size and width size of the interposed foot being measured, substantially as described.

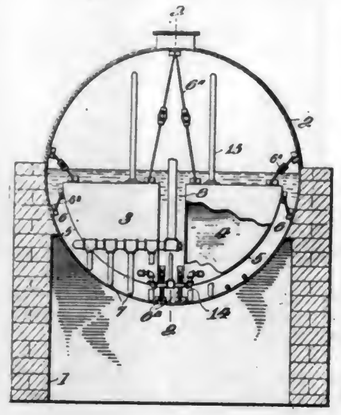
1,666,041. TRAFFIC SIGNAL. FRANK BUCHANAN, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 24, 1924. Serial No. 739,744. 3 Claims. (Cl. 177—329.)



1. In a traffic signal, the combination of a casing, a light source in the casing, a signal lens in the casing in line with the light source and in front of the same, said lens being formed with a reticulated surface substantially coextensive therewith and consisting of ribs crossing each other at an angle and forming rounding depressions between the intersections, said surface resembling a fine mesh screen.

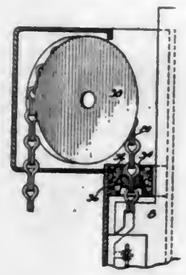
1,666,042. APPARATUS FOR AND PROCESS OF DISTILLING OILS. CHARLES B. BUERGER, Pittsburgh, Pa., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Aug. 28, 1923. Serial No. 659,823. 6 Claims. (Cl. 196—126.)

5. In the distillation of oils, the process which comprises forming a plurality of thin annular parallel bodies of oil flowing in a closed ring, the adjacent bodies having a common portion, heating the bodies on one side to cause an upward circulating flow, assisting the flow by applying a jet of steam acting in the same circular direction, and maintaining the rotary flow thus developed in the bodies at substantially the same rate of



speed at all portions thereof to prevent the settling of carbon from the oil, and superimposing upon the annular flow a longitudinal flow, whereby all parts of the entire body of oil will be constantly moved at substantially the same speed and without the formation of local portions of relatively quiescent oil.

1,666,043. SEALING MECHANISM FOR WINDOW FRAMES AND SASHES. HARRY E. CAMPBELL, Baltimore, Md., assignor to Campbell Metal Window Corporation, Baltimore, Md., a Corporation of Maryland. Filed June 24, 1927. Serial No. 201,119. 9 Claims. (Cl. 189—65.)



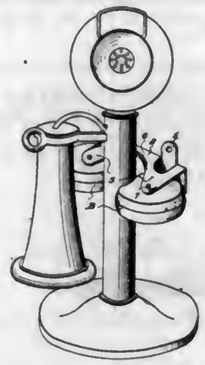
1. In a window-frame and sash construction comprising jambs having vertical openings for the upper sash leading into enlarged chambers which are connected to passages leading to another part of the jamb, an upper sash with portions extending through said vertical openings into said chambers, and sash suspension members attached to the upper sash in such chambers and running thence to another part of the jamb through said passages; partition members for such chambers positioned below said passages and adapted when the upper sash is closed to contact with movable sash members and thereby limit vertical movement of air in such chambers up around the upper sash and into such passages.

1,666,044. CONDENSER RACK. HAROLD I. DANZIGER, New York, N. Y., assignor to Condenser Corporation of America, New York, N. Y., a Corporation of New York. Filed Nov. 2, 1926. Serial No. 145,870. 5 Claims. (Cl. 91—60.)



1. In a condenser rack for subjecting a stack of retained condenser bodies to impregnation treatment, a supporting frame comprising a base plate adapted to receive said stack thereon, a top plate, and a set of spaced longitudinal frame elements extending between the base and top plates; a separately applicable cover plate for the stack; and a compression spring interposed between the cover and top plates; whereby the condenser bodies may be yieldably retained under sustained pressure in stacked relationship during the impregnation treatment thereof.

1,666,045. HOLDING DEVICE. LOUIS C. GANNY and HARRY GOLDBERG, Wilkes-Barre, Pa., assignors of one-sixth to Thomas J. Mayock, and one-sixth to James M. Stack, Wilkes-Barre, Pa., and one-sixth to Michael Mayock, Miners Mills, Pa. Filed Nov. 29, 1926. Serial No. 151,548. 2 Claims. (Cl. 24—249.)



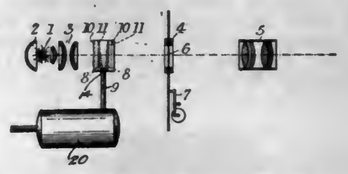
1. In a holding device, a thin frame structure comprising a bottom and sides at right angles thereto, each side being of such configuration as to provide a pair of ears and a depression therebetween, and having securing lugs adjacent each end thereof, said depression being provided with an outwardly extending flange and gripping members supported by said ears.

1,666,046. ROOFING. OTTO A. HEPPES, La Grange, Ill., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 8, 1923. Serial No. 661,574. 7 Claims. (Cl. 108—8.)



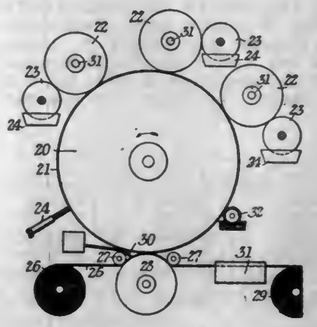
1. A roofing unit having a square piece of sheet material having one corner cut to form a tab forming a continuation of one marginal portion extending toward the apex of said corner, and a tab offset inwardly from the adjacent side edge and substantially parallel thereto and extending toward said one marginal portion.

1,666,047. PROJECTION SYSTEM. LOYD A. JONES and EARLE E. RICHARDSON, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 28, 1924. Serial No. 734,799. 6 Claims. (Cl. 88—24.)



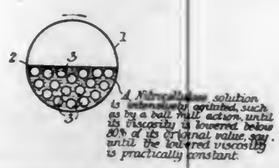
1. A projection system comprising a source of light, a film-positioning gate, a screen between said light and said gate and comprising a light transmitting support having upon one surface a thin layer having high absorptive properties for heat rays and low absorptive properties for visible rays, a source of air under pressure sufficient to have a refrigerative effect when released, and means to release air under pressure and to direct such air, as it is released, into contact with the layer.

1,666,048. METHOD OF MAKING MULTICOLOR SCREENS. CHARLES E. KENNETH MEES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 8, 1927. Serial No. 159,816. 4 Claims. (Cl. 101—211.)



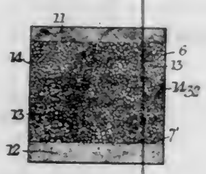
1. The method of making a multi-color pattern screen which comprises the steps of forming upon a printing blanket, a multi-color screen pattern composed of inks comprising spirit-soluble dyes, moistening a support with a material in which the dyes are soluble and then at once submitting the support and screen to contact under pressure whereby the dyes are transferred from the blanket to the support.

1,666,049. LOWERING THE VISCOSITY OF NITROCELLULOSE IN SOLUTIONS BY MECHANICAL ACTION. GEORGE H. TOZIER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1926. Serial No. 99,825. 2 Claims. (Cl. 260—148.)



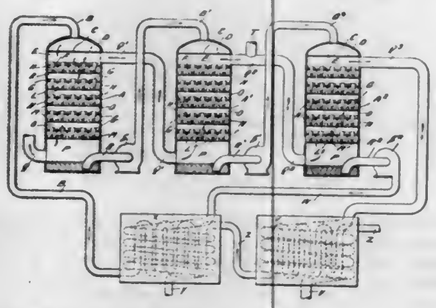
1. The process of lowering the viscosity characteristics of nitrocellulose which comprises forming a viscous solution of it in a liquid solvent, and subjecting said solution to intensive mechanical agitation until the viscosity of said solution is lowered to less than 80% of its original viscosity.

1,666,050. PASTER BAND FOR ROLL FILMS. ERWIN J. WARD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 28, 1927. Serial No. 178,935. 9 Claims. (Cl. 95—9.)



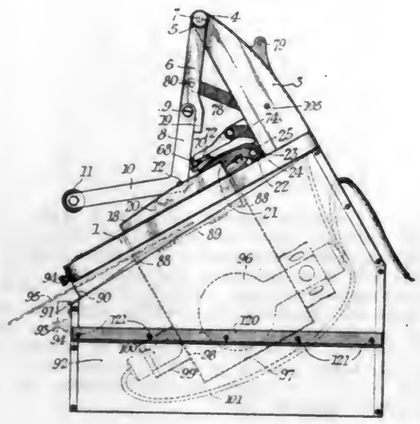
1. A photographic film cartridge including a spool, a flexible strip of protective material wound thereon, a flexible strip of film interwound therewith, a paster band adapted to join the protective material and film, said paster band including an adhesive area and an embossed area adapted to space the adhesive from the paster when folded against the embossings, said paster being interwound with the film and protective covering.

1,666,051. PROCESS OF DISTILLING HYDROCARBON OILS. WILLIAM P. DEPPE, Brightwaters, and LELAND L. SUMMERS, New York, N. Y.; Llewelyn L. B. Summers and Arthur Young administrators of said Leland L. Summers, deceased. Filed Jan. 5, 1924. Serial No. 684,479. 11 Claims. (Cl. 196—73.)



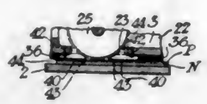
8. The process of distilling crude oils and mixtures of oils with other liquids, which comprises progressively heating and vaporizing the mixed liquids to thereby generate vapors of the constituents at increasing temperatures, keeping the vapors in contact with the liquids while continuously integrating the vapors and liquids and maintaining substantial equilibrium therebetween, then removing the vapors when a predetermined partial pressure of the various vapor constituents is reached at a predetermined temperature, and condensing them.

1,666,052. PHOTOGRAPHIC-PRINTING MACHINE. BENJAMIN D. CHAMBERLIN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 10, 1924. Serial No. 756,347. 20 Claims. (Cl. 95—73.)



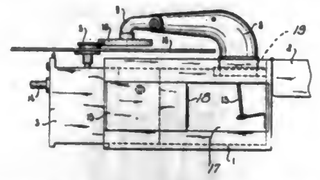
19. In a photographic printing machine, the combination with a frame having a printing panel therein, of brackets extending up from the frame, platen moving mechanism carried by the brackets, an electric lamp beneath the printing panel, a switch for the electric lamp mounted between the brackets, the brackets forming a housing for the switch, and means carried by the platen moving mechanism supported on the brackets for actuating the lamp switch.

1,666,053. PHOTOGRAPHIC-PRINTING MACHINE. ALBERT K. CHAPMAN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 15, 1924. Serial No. 756,124. 18 Claims. (Cl. 95—73.)



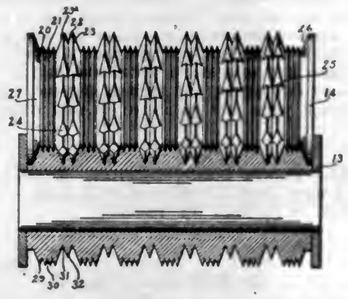
1. In a photographic printing machine, the combination with an apertured platen adapted to move to and from a printing panel to press printing paper and a negative together, of a printing stamp adapted to operate through the aperture in the platen and a spring carried by the platen and lying adjacent a side of the aperture in the platen for securing contact between the paper and negative adjacent the stamp.

1,666,054. PORTABLE CABINET TALKING MACHINE. HEINRICH WILLEM KAREL DE BREY, The Hague, Netherlands. Filed June 14, 1926, Serial No. 116,024, and in the Netherlands June 18, 1925. 6 Claims. (Cl. 274—2.)



1. A portable phonograph machine comprising a motor and record support, a tone arm, and a casing for housing said support and tone arm, said casing including a lid mounted to move in and out of closed position covering said tone arm and support, means in the casing for supporting said tone arm in operative and inoperative positions, said motor and record being mounted in said casing to be displaced through an opening in a side wall of the casing, the casing providing a sound chamber when said motor casing is so displaced and said tone arm is in operative position and a second opening in the side wall of said casing to permit sounds to emanate from said sound chamber.

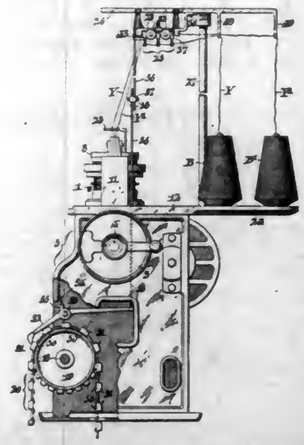
1,666,055. ROLL FOR CANE MILLS, CRUSHERS, AND THE LIKE. ALBERT DE LA HABA and ERASMO GARCIA, Ansonia, Conn. Filed Oct. 4, 1926. Serial No. 139,421. 17 Claims. (Cl. 100—47.)



8. In an apparatus for treating sugar cane, a roll having a plurality of groups of relatively fine circumferential grooves forming ribs of relatively fine pitch, and circumferential grooves forming teeth of relatively coarse pitch between said groups, the bottoms of the fine grooves lying closer to the roll axis than the bottoms of the coarse grooves, and a mating roll having relatively fine and relatively coarse grooves to mate with those of the first named roll, the bottoms of the relatively fine grooves being at a greater distance from the roll axis than the bottoms of the coarse grooves.

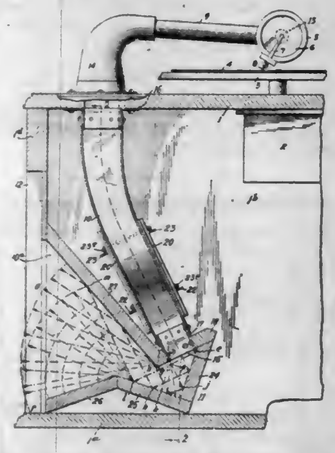
1,666,056. REVERSE-PLAITING KNITTING MACHINE. CARL EPPS, Athens, Ga., assignor to Climax Hosiery Mills, Athens, Ga., a Corporation of Georgia. Filed June 3, 1924. Serial No. 717,466. 5 Claims. (Cl. 66—137.)

1. The combination in a knitting machine equipped with needles and actuating mechanism therefor, of automatically operative means effective to alternately tension and slack feeding yarns of different kinds to determine alternate appearance of one or another of said yarns on the face of the fabric; said means comprising a bearing bracket with spool-like friction members, individual guides independently swingable to vertically elevate the yarns respectively into and out of engagement with the friction



members, and pattern means controlling movement of said guides to vary the tension and slack feeding relation as between the yarns.

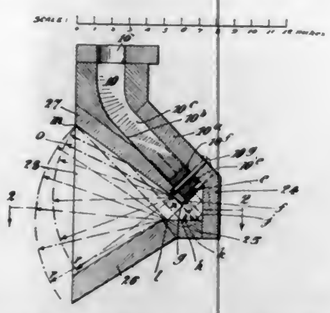
1,666,057. SOUND-PROJECTING APPARATUS. ELWOOD GRISSINGER, Buffalo, N. Y. Original application filed July 12, 1921, Serial No. 484,240. Divided and this application filed Aug. 18, 1923. Serial No. 658,007. 19 Claims. (Cl. 181—27.)



1. A phonograph cabinet having the usual record supporting and driving means and any known or desired reproducer and tone arm defining a slender air column in operative relation thereto, the vertical axis of the tone arm being located approximately in the central front-to-rear vertical plane of the cabinet and discharging downward, said cabinet being of substantially greater diameter than said record supporting and driving means in combination with a primary expansion conduit communicating directly with the slender part of the air column, said conduit expanding the waves to a relatively wide, thin beam and delivering said beam through a projector discharging through a side wall of the cabinet and having vertically diverging walls adapted to afford limited and

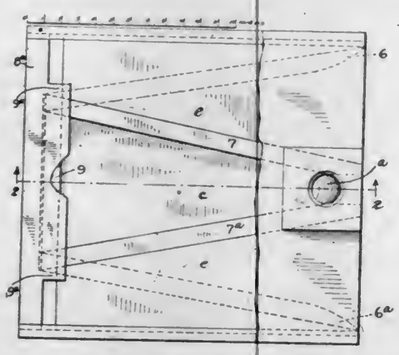
guided but rapid expansion of the wave front in the dimension in which the beam is thin, the mouth of said projector having a width approximating the width of said cabinet.

1,666,058. SOUND PROJECTOR. ELWOOD GRISSINGER, Buffalo, N. Y. Filed Dec. 11, 1923, Serial No. 679,911. Renewed Nov. 5, 1927. 31 Claims. (Cl. 181—27.)



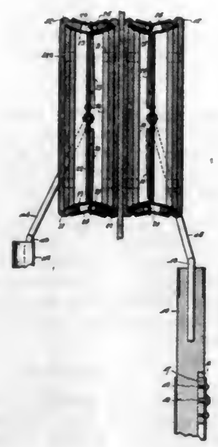
1. A sound amplifying conduit for expanding the wave fronts of complex sound waves, said conduit being solidly constructed of thick, stiff, light material, and comprising a portion having walls arranged to permit guided and limited but rapid expansion of the wave front in one dimension along widely diverging lines and other walls nearly parallel with each other, arranged to guide said waves in the other dimension, thereby forming a thin sound beam with widely divergent flanks and a deeply curved wave front; and, as a continuation thereof, a projector portion having walls diverging at an angle permitting guided but rapid expansion of said beam in said second dimenson, one of said latter walls being integral with one of said nearly parallel walls and, in combination therewith one or more piers rigidly secured near the outlet of said nearly parallel walls.

1,666,059. SOUND PROJECTOR. ELWOOD GRISSINGER, Buffalo, N. Y. Filed Dec. 12, 1923. Serial No. 680,091. 15 Claims. (Cl. 181—27.)



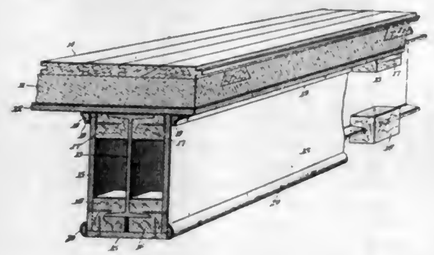
1. A sound amplifying conduit for expanding the wave fronts of complex sound waves, said conduit being solidly constructed of thick, stiff material, and comprising walls arranged to permit wide expansion of the wave front in one dimension along widely diverging lines and other walls approximately parallel with each other, arranged to guide said waves in the other dimension, said conduit being curved in the direction of its thinness approximately midway of its length.

1,666,060. WINDOW CLEANER. KENJI HORIHATA, New York, N. Y. Filed Feb. 16, 1927. Serial No. 168,732. 1 Claim. (Cl. 15—232.)



In a window cleaner a cleaning head comprising a central plate having curved flanges on each side of said plate at the top and bottom, clamp plates for said flanges, a fabric sheet having its edge portions disposed between said flanges and said clamp plates and held in clamped position by said plates, and springs disposed adjacent to said flanged plate and connected to said clamp plates.

1,666,061. FLOOR CONSTRUCTION. THOMAS J. FOSTER, Ridgewood, N. J. Filed Apr. 22, 1926. Serial No. 103,800. 8 Claims. (Cl. 72—66.)



1. The substantially fire proof and sound proof floor construction comprising light weight steel beams spread at substantially uniform distances apart, floor supports of sheet-like insulating material extending in a substantially continuous layer over and between said beams, sheet-like insulating material encasing said beams and adjoining the underside of said floor supports, and a floor slab of cementitious material upon said floor supports to form a continuous floor.

Patents Nos. 1,666,062 to 1,666,883.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

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Designs	45—No.	74,911 to No.	74,955, inclusive.
Patents	822—No.	1,666,062 to No.	1,666,883, inclusive.
Total	1,226		

Interference Notices.

U. S. PATENT OFFICE, *Washington, Mar. 28, 1928.*

Spinks & McIlwain, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edward P. Read, 1721 Lombard Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered September 11, 1923, No. 172,502 to Spinks & McIlwain, 102 Washington Street, Selma, Ala., and a notice of such declaration sent by registered mail to said Spinks & McIlwain at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Spinks & McIlwain, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Mar. 30, 1928.*

Porter-Seitz Shoe Stores Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edward J. Ramsey, 347 Rider Avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered February 5, 1924, No. 179,325, to Porter-Seitz Shoe Stores Company, 208 Pittsburgh Life Building, Pittsburgh, Pa., and a notice of such declaration sent by registered mail to said Porter-Seitz Shoe Stores Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Porter-Seitz Shoe Stores Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Mar. 29, 1928.*

The Chillicothe Packing Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of John Morrell & Co., of Ottumwa, Iowa, to effect the cancellation of the trade-mark registration of The Chillicothe Packing Company, of Chillicothe, Ohio, No. 40,832, dated July 28, 1908, and the notice of such proceeding sent by registered mail to The Chillicothe Packing Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless The Chillicothe Packing Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,460,073, C. S. Oldroyd, Mining and quarrying machine, decided March 5, 1928, claim 91.

Pat. 1,460,077, C. S. Oldroyd, Mining machine, decided March 5, 1928, claim 37.

Pat. 1,598,174, Tarlton and Klems, Attachment for automobile brakes, decided February 29, 1928, claim 1.

Pat. 1,634,215, L. Rosenfeld, Bottle washing and sterilizing apparatus, decided March 29, 1928, claims 1 to 4, inclusive.

Final decisions in interferences have been rendered against the following trade-marks:

T. M. 69,619, Chocolate and cocoa, Staengel & Ziller, Unterturkheim, Germany. Registered June 23, 1908. Decided February 29, 1928.

T. M. 190,289, Hair nets and dress linings, Marshall Field & Company, Chicago, Ill. Registered March 17, 1925. Decided March 30, 1928.

T. M. 215,499, Fresh citrus fruits—namely, oranges, lemons, grapefruit—Ventura Citrus Association, Ventura, Calif. Registered July 20, 1926. Decided March 24, 1928.

Condition of Applications Under Examination at Close of Business April 6, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 99,210; Trade-Mark Division, 2,406. Oldest new case, July 1, 1927; oldest amended, June 29, 1927. The dates given are 1927 except where † indicates 1928.)

Room No.	Divisions, Examiners, and Subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 23	Aug. 8	1,517
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Oct. 11	Oct. 18	1,325
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 23	Oct. 11	1,999
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	July 11	July 15	2,164
108*	5. MACNAB, J. F., Harvesters. Jewelry; Music; Acoustics; Sound Recording; Knotters	Aug. 4	Aug. 6	1,509
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Sept. 16	Nov. 3	2,450
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Aug. 10	Aug. 15	2,295
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Sept. 22	Oct. 1	2,271
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 12	Nov. 16	1,502
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Aug. 2	Oct. 29	1,785
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures: Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 20	Oct. 11	1,433
380	12. PIERCE, P. P., Machine Elements	July 7	Sept. 1	1,929
154*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 15	Sept. 10	1,855
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 15	July 11	1,652
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 15	Sept. 28	2,074
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Oct. 21	Oct. 24	1,360
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Sept. 6	Sept. 27	1,224
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 18	Aug. 29	1,409
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Oct. 22	Nov. 5	1,437
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Nov. 8	Nov. 16	1,352
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 16	Oct. 15	1,367
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 23	Sept. 26	1,710
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	July 14	July 15	1,445
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 15	July 22	1,499
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 24	Oct. 3	2,032
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	July 29	July 26	1,294
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 1	Nov. 8	1,356
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 22	Aug. 26	1,956
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 26	Aug. 9	1,794
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Aug. 1	Nov. 4	1,648
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Sept. 22	Sept. 22	2,581
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Sept. 8	Sept. 1	1,894
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Dec. 5	Nov. 23	1,958
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	July 5	June 29	1,430
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Oct. 31	Nov. 7	1,529
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Nov. 7	Nov. 4	1,639
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 2	Sept. 26	1,992
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Sept. 30	Oct. 1	1,684
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	July 1	July 27	1,599
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Aug. 17	Sept. 3	2,374
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Oct. 31	Nov. 7	1,027
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Aug. 23	Aug. 20	1,962
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Sept. 17	Oct. 1	2,106
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	July 22	Aug. 13	1,908
376	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 28	Nov. 7	1,352
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 22	Sept. 1	1,641
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Sept. 6	Sept. 19	2,543
213*	48. ROEPKE, O. B., Electricity, General Applications	Oct. 8	Oct. 6	1,428
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	July 23	Oct. 12	1,421
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Sept. 14	Sept. 14	2,402
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Sept. 16	Sept. 9	2,049
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Oct. 10	Oct. 6	2,201
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 15	Sept. 8	1,624
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Sept. 20	Sept. 20	2,129
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery	Aug. 12	Aug. 19	897
	{ Designs	†Feb. 24	†Mar. 3	790
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	July 1	July 29	2,437
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND { Trade-Marks	†Mar. 9	†Mar. 24	2,117
	{ Labels and Prints	†Mar. 3	†Mar. 19	289

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

DE JAHN *v.* GAUS AND WILD.

Decided May 7, 1926.

1. INTERFERENCE—BURDEN OF PROOF.

Where one of the parties to the interference files his application within the statutory period from the filing of a foreign application and makes specific reference in the oath of his application to said foreign application, *Held* that he should be given the benefit of the foreign date in determining the burden of proof if it appears from his certified copy of the foreign application that it was for the same invention as that in issue, whether that foreign application was filed in the name of the inventor or the assignee (*Kislovitz* v. *Rosenberg*, 284 O. G. 959 explained).

2. SAME—FOREIGN APPLICANT—TESTIMONY.

Where one of the parties refused to take testimony because, in his opinion, the burden of proof was improperly shifted in view of the foreign application of his opponent, *Held* that he is in no position to complain if such foreign applicant is allowed to take testimony in order to overcome objections raised.

3. SAME—SAME—SAME.

Testimony offered on behalf of the foreign joint applicants *Held* sufficient to show that they were in the employ of the company in whose name the foreign application was filed, that the invention was a joint one, and the foreign application had been filed with the inventor's consent.

[Decision affirmed by the Court of Appeals of the District of Columbia, 369 O. G. 488.]

APPEAL from Examiners in Chief.

Messrs. Briesen & Schrenk for De Jahn.

Messrs. Hauff & Warland for Gaus and Wild.

KINNAN, *First Assistant Commissioner:*

The party, De Jahn, appeals from the decision of the Examiners in Chief affirming the decision of the Examiner of Interferences awarding priority to Gaus and Wild.

The application of De Jahn was filed in this Office before the application of Gaus and Wild, and in setting up the interference the Primary Examiner made De Jahn the senior party. On motion, the Examiner of Interferences shifted the order of the parties, placing the burden of proof on De Jahn. This was done in view of the German patent referred to in the oath of the United States application of Gaus and Wild, and of which a certified copy was filed and in view of the Nolan Act, the benefit of which was claimed by Gaus and Wild. It appears that this German application was filed on July 2, 1915, which is prior to the filing date of De Jahn. This application was numbered B 79,781, which was the number of the application as specified in the oath to the Gaus and Wild United States application.

One of the contentions raised below was that the oath in the application of Gaus and Wild was not valid because executed before a Spanish consul. This, however, as pointed out by the lower tribunals, was cured by the express provisions of section 5 of the Act of March 3, 1921, 41 Stat. L. 1313, usually known as the Nolan Act.

After the burden of proof was shifted De Jahn took no testimony. Thereafter Gaus and Wild were given permission to take testimony in Germany to prove that they were the inventors of the invention of the German application and that it was filed by their legal representative. De Jahn vigorously protested against permission being given to take this testimony, but his protest was, and it is deemed properly, overruled. The interrogatories were transmitted in the regular way and the answers thereto filed in this Office.

[1] The shifting of the burden of proof was in accordance with the practice of this Office as announced in *Steel and Steel* v. *Myers*, 205 O. G. 1021. The statement in *Kislovitz* v. *Rosenberg*, 284 O. G. 959, as to what was held in the *Steel and Steel* v. *Myers* case is deemed to have been in error, in so far as it stated that that decision held that if the foreign application was filed in the name of another than the United States applicant the benefit of the foreign application could be given to the United States applicant only upon stipulation of the parties or upon proofs. It was not necessary in the Kislovitz case to pass on this question, since the United States application of Rosenberg and the English application were both filed in Rosenberg's name, and, as stated above, the statement in this respect as to the holding in *Steel and Steel* v. *Myers* is believed to have been erroneous.

A careful reading of that decision shows that it was intended to hold that where a foreign inventor who filed his United States application within the statutory period made specific reference in the oath thereof to his foreign application he should be given the benefit of the foreign date in determining the burden of proof if it appeared from a certified copy of the foreign application that it was for the same invention. This is shown not only by the language of the decision itself, but by the fact that the Commissioner referred to two prior decisions of the Office, in one of which—namely, *Greenbaum* v. *Barker and Jeapes*, 98 MS. Dec. 425—it appears that the foreign application was filed in the name of the assignee.

[2] Having declined to take testimony because of his opinion that the burden of proof was improperly shifted, it is not seen what right De Jahn has to complain if thereafter, in order to overcome various possibilities suggested by him, testimony was allowed to be taken on behalf of Gaus and Wild.

[3] That testimony is clearly to the effect that Gaus and Wild were employees of the company in whose name the German application was filed, that under their contract with that company inventions made during the term of their employment belonged to it, that the invention was a joint one made by the parties Gaus and Wild, and the German application was filed with their knowledge and consent.

Under the decisions cited by the lower tribunals the testimony of these inventors is certainly sufficient to establish their joint inventorship in the absence of any testimony in rebuttal thereof. Their

testimony as to joint inventorship can not be overthrown by speculations as to what might have been done or what might have been the reasons for filing the application in the way in which it was done. If De Jahn was of the opinion that the testimony of these parties was not true, he had his right of cross-examination, of which he availed himself by filing cross-interrogatories, and he had the further right to have taken rebuttal testimony, which he did not do.

It may be noted that the question of the burden of proof in such cases was considered by the court of appeals in the recent case of *Kling* v. *Haring*, 345 O. G. 5, 56 App. D. C. 153, 11 F. (2d) 202. In that case it appears that Haring had been made the senior party by virtue of his German application, the benefit of which he had been given under the Nolan Act, and that thereafter Kling moved to shift the burden of proof to Haring on the ground that the Haring German patent had been allowed to lapse. In that case the court said:

> The burden of proving that Haring was not the prior inventor was on Kling, and Kling's motion to shift that burden to Haring was therefore properly denied. Kling having failed to introduce any evidence whatever showing or tending to show that Haring was not the prior inventor, the award of priority to Haring, the senior party, was correct and cannot be disturbed.

In that decision, as in this, the German application was not filed in Kling's name, but in that of his assignee. In that case the German application was identified by a patent number, which corresponds to the number of the patent granted on the German application, of which the certified copy was introduced. In the present case Gaus and Wild identified their German application by its serial number, which corresponds to the serial number of the application, the certified copy of which was introduced in evidence.

While the question of the necessity of proving that the German application was filed with the knowledge and consent of the inventor was not referred to in the court's decision, it was raised in the interference proceedings and was specifically ruled upon by the Examiner of Interferences. As the entire record of the case was before the court, it was presumed that they had this point in mind.

It is held, therefore, that the burden of proof was properly shifted and Gaus and Wild made the senior party, that testimony was properly permitted to be taken on behalf of Gaus and Wild, and that testimony fully complies with the rulings of this Office prior to and in the decision in *Steel and Steel* v. *Myers*, supra, that therefore, in view of the provisions of the Nolan Act, Gaus and Wild are entitled to the benefit of the filing date of the German application, which corresponds to the United States application directly involved herein, and that since De Jahn took no testimony to establish any date earlier than the filing of his United States application, which was subsequent to the date of the German application filed on behalf of Gaus and Wild, priority was properly awarded to Gaus and Wild.

The decision of the Examiners in Chief is affirmed.

Court of Appeals of the District of Columbia.

DE JAHN *v.* GAUS AND WILD.

No. 1,991. Decided December 5, 1927.

INTERFERENCE—PRIORITY.

The foreign joint applicants *Held* properly made senior party by virtue of their foreign application, which the record shows was filed by the assignee with their knowledge and consent and within the time fixed by the Nolan Act.

[For Commissioner's decision see 369 O. G. 487.]

APPEAL from the Commissioner of Patents. Affirmed.

Mr. Hans v. Briesen and *Mr. Conway P. Coe* for De Jahn.

Mr. Wm. E. Warland for Gaus et al.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

MARTIN, *C. J.:*

An appeal in an interference proceeding.

The invention in question is a process of manufacturing nitrogen-hydrogen mixtures suitable for the synthetic production of ammonia. The issue is defined in three counts of which count 3 is copied for illustration:

> 3. The process of manufacturing nitrogen-hydrogen mixtures suitable for the synthetic production of ammonia by subjecting to catalytic decomposition with steam mixed gas generated in a water-gas producer by simultaneously employing preheated steam and suitably controlled quantities of air, said mixed gas having such composition that by the subsequent removal of carbon dioxid and of impurities, a gas mixture of the composition required for the production of ammonia is obtained.

De Jahn filed his application on November 3, 1917, and inasmuch as he took no testimony he is restricted to that date for both conception and reduction to practice. Gaus and Wild filed their application in the United States Patent Office on July 9, 1920, but relied for conception and constructive reduction to practice upon an application filed in Germany on July 2, 1915, which was filed by the Badische Anilin and Soda Fabrik with their consent and as their assignee. According to the respective filing dates in this country De Jahn would be the senior party, and the burden of proof would rest upon Gaus and Wild. The latter parties however filed a motion to shift the burden of proof relying upon the date of the earlier application filed in Germany, which was prior to De John's filing date. The motion was granted over the objection of De Jahn, and the burden of proof was imposed upon him as the junior party. De Jahn took no testimony, and therefore failed to discharge this burden, and priority was awarded to Gaus and Wild. An appeal was taken by De Jahn to the Examiners in Chief, who affirmed the decision of the Examiner of Interferences. The decision of the Board was affirmed upon appeal by the Commissioner of Patents; whereupon the present appeal was taken.

The controlling question in the case is whether the Examiner of Interferences was right in imposing the burden of proof upon De Jahn. We think the ruling was right. The record discloses by lawful evidence that Gaus and Wild were joint inventors of the process in question; that by their authority the German application was filed by the Badische Anilin and Soda Fabrik on July 2, 1915, and that their joint application when filed in this country was entitled to the rights defined by section 4887, Revised Statutes, and the Nolan Act (41 Stat. 1313). It appears that this application was verified in Germany by Gaus and Wild on June 11, 1920, before a Royal Spanish consul charged with the protection of American interests. Such an oath is valid under the provisions of section 5 of the Nolan Act.

The questions herein involved are discussed with great clearness, and with full citation of authorities, in the opinions written by the tribunals of the Patent Office, and it is unnecessary for us to do more than refer to them with the approval of the court. The decision appealed from is affirmed.

Court of Appeals of the District of Columbia.

SCHOCK INDEPENDENT OIL COMPANY *v.* SINCLAIR REFINING COMPANY.

No. 2,026. Decided February 6, 1928.

1. TRADE-MARKS—SIMILARITY.

The word "Sico," as a trade-mark for petroleum products, *Held* deceptively similar to the word "Sinco," as applied to the same goods.

2. SAME—ABANDONMENT.

That a mark which had been used both in domestic and foreign commerce was subsequently used only in foreign commerce does not establish abandonment of the mark.

APPEAL from Patent Office. Affirmed.

Mr. A. M. Houghton and *Mr. A. R. Henry* for Schock Independent Oil Company.

Mr. E. S. Rogers, Mr. T. L. Mead, jr., and *Mr. N. J. Jewett* for Sinclair Refining Company.

By stipulation of counsel this case was heard before two members of the court, ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in a trade-mark opposition proceeding, in which the opposition was sustained and registration of the word "Sico" as a trade-mark for petroleum products was refused appellant.

In 1916 the appellee, the Sinclair Refining Company, adopted the word "Sinco" as a trade-mark for petroleum products, and in 1919 it secured registration of this mark. From the time of its adoption until about 1922 the mark was continuously used by appellee in both domestic and foreign commerce. Since 1922 the use of the mark has been confined to shipments in foreign commerce. Officials of the Sinclair Company denied any intent to abandon the mark.

The adoption in 1921 of the word "Sico" by appellant was with full knowledge of the adoption and use by appellee of the word "Sinco" upon the same class of goods. See *Guggenheim* v. *Cantrell & Cochrane*, 352 O. G. 533, 56 App. D. C., 10 F. (2d) 895. Appellant contends, first, that there is not such a similarity in the marks as to be likely to cause confusion and mistake in the minds of the public, or to deceive purchasers; and, second, that appellee has abandoned its mark.

[1, 2] As to the first ground, we think it apparent that the two marks are similar in appearance and sound and that their concurrent use on the same class of goods would be likely to result in confusion. As to the second ground, there is no evidence warranting a finding of abandonment. See *Saxlehner* v. *Eisner & Mendelson Co.*, 93 O. G. 947, 179 U. S. 19; *Baglin* v. *Cusenier Co.*, 169 O. G. 449, 221 U. S. 580. The mere fact that the Sinclair Company is not now using the mark in domestic commerce certainly does not establish such an intent. The decision is affirmed.

Affirmed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

889,864, C. H. Loew, Mechanism for rinsing, spraying, and brushing bottles, C. C. A., 7th Cir., Dec. 3917, *G. J. Meyer Mfg. Co. et al.* v. *Miller Mfg. Co.* Decree affirmed Feb. 23, 1928.

880,713, J. R. Blair, Can-washing machine, C. C. A., 2d Cir., Doc. 9764, *H. D. Lathrop* v. *Rice & Adams Corp.* Decree affirmed (notice dated Mar. 2, 1928).

882,517, Dwight & Lloyd, Process of treating ores, 1,020,345; same, Metalliferous ore products; Re. 13,758, F. D. Weeks, Calcining, desulfurizing, agglomerating, and sintering ores; 1,102,982, A. S. Dwight, Apparatus for roasting and sintering ores; 1,254,816, 1,433,851, same, Process of treating ores; 1,433,349, same, Process and apparatus for treating ores; 1,433,350, same, Ore desulfurizing and sintering apparatus; 1,433,352, same, Apparatus for treating ores, appeal filed Feb. 11, 1928, C. C. A., 2d Cir., Doc. 9958, *Dwight & Lloyd Sintering Co.* v. *J. E. Greenawalt.*

885,986. (See 921,963.)

902,584, W. C. Huebner, Apparatus for producing printing surface; 954,290, 954,291, 1,201,048, 1,377,249, same, Photographic-printing apparatus; 1,291,897, 1,452,078, same, Apparatus for positioning the printing plates on the plate holders of photographic-printing apparatus; 1,413,406, same, Holder for photographic-printing plates, C. C. A., 7th Cir., Doc. 3801, *Directo-plate Corp.* v. *Huebner-Blicistein Patents Co.* Decree affirmed in part, reversed in part, Feb. 6, 1928.

921,963, L. H. Dyer, Automobile vehicle, 885,986; same, Transmission gear for motor vehicle, filed Feb. 25, 1928, D. C. Ind. (Ft. Wayne), Doc. 295, *L. H. Dyer* v. *Indiana Truck Corp.*

954,290. (See 902,584.)

954,291. (See 902,584.)

961,165, J. F. Rowley, Artificial-limb suspender and back check, D. C., S. D. Calif. (Los Angeles), Doc. 2976, *The J. F. Rowley Co.* v. *G. R. Milligan Co., Inc.* Complaint dismissed without prejudice Feb. 20, 1928.

980,431, G. D. Parker, Box-making machine; 1,468,302, same, Table for box-nailing machine, D. C., S. D. Calif. (Los Angeles), Doc. L–113–H, *G. D. Parker* v. *Alamo Packing Co.* Complaint dismissed without prejudice Jan. 3, 1928.

1,020,345. (See 882,517.)

1,055,998, Allis & Wiens, Fly killer, C. C. A., 7th Cir., Doc. 3977, *L. Allis* v. *Ludwig & Ludwig.* Decree affirmed Feb. 16, 1928.

1,077,117. (See 1,252,444.)

1,095,775, E. K. Baker, Demountable wheel rim, appeal filed Feb. 14, 1928, C. C. A., 7th Cir., Doc. 4011, *Universal Rim Co.* v. *Motor Rim Wheel Corp.*

1,098,705, Bergstrom & Bergstrom, Spark plug, C. C. A., 7th Cir., Doc. 3938, *Fryac Mfg. Co. et al.* v. *E. Bergstrom.* Decree reversed with directions to dismiss Feb. 7, 1928.

1,102,982. (See 882,517.)

1,111,658, G. A. Landenberger, Stocking; 1,134,749; same, Knitting machine, filed Feb. 23, 1928, D. C., S. D. N. Y., Doc. E 44/244, *Gotham Silk Hosiery Co., Inc.*, v. *J. Kayser & Co.*

1,113,149, E. H. Armstrong, Wireless receiving system, C. C. A., 8th Cir., (St. Louis), Doc. 6858, *Westinghouse Electric & Mfg. Co.* v. *Tri-City Radio Electric Supply Co. et al.* Decree reversed cause remanded with instructions to set aside the dismissal of and reinstate the bill Dec. 28, 1927.

1,125,476, G. Claude, System of illuminating by illuminescent tubes; 1,191,495, same, Method of separating neon from gases with which it is mixed, D. C., S. D. Calif. (Los Angeles), Doc. E L–107–H, *Electrical Products Corp.* v. *Standard Glass Products, Inc.* Patent 1,125,476 held valid and infringed, 1,191,495, held valid, Nov. 8, 1927. Same, filed Feb. 10, 1928, D. C. Oreg. (Portland), Doc. E 8951, *Electrical Products Corp.* v. *Brilliant Tube Corp.* Same, appeal filed Feb. 14, 1928, C. C. A., 2d Cir., Doc. 9960–1, *Claude Neon Lights, Inc.*, v. *E. Machlett & Son.*

1,134,749. (See 1,111,658.)

1,191,495. (See 1,125,476.)

1,198,860, Lesley & Enz, Circuit controller for mechanically playing instruments; 1,198,861, Lesley & Schoen, Circuit controller, D. C., S. D. Ohio, W. Div., Doc. 438, *J. H. Lesley et al.* v. *The Monarch Tool & Mfg. Co.*

1,198,861. (See 1,198,860.)

1,201,048. (See 902,584.)

1,252,444, 1,272,667, D. S. Jacobus, Steam boiler; 1,267,114, A. D. Pratt; same 1,077,117 J. E. Bell Superheater boiler, filed Feb. 24, 1928, D. C. Wash. (Seattle), Doc. 614, *The Babcock & Wilcox Co.* v. *Puget Sound Machinery Depot, Inc.*

1,254,316. (See 882,517.)

1,264,560, A. L. Riker, Sparking means for motor vehicles; 1,301,053, 1,305,601, J. A. Heany, Ignition device for motor vehicles; 1,347,460, same, Means for supplying lighting and ignition current for automotive vehicles, filed Feb. 21, 1928, D. C., N. D. Ohio, W. Div., Doc. E 868, *Industrial Research Corp.* v. *General Motors Corp. et al.*

1,264,770, J. F. Brennan, Brake tester, filed Feb. 24, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–46–J, *Brake Testing Equipment Corp. et al* v. *H. W. Langbein (Interstate Brake-Testing Machine Co.).*

1,267,114. (See 1,252,444.)

1,272,667. (See 1,252,444.)

1,291,897. (See 902,584.)

1,301,053. (See 1,264,560.)

1,305,601. (See 1,264,560.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Feb. 18, 1928, D. C., W. D. Mich., S. Div., Doc. 1928, *The Bassick Mfg. Co.* v. *Mark's Auto Accessories.* Same, D. C., S. D. N. Y., Doc. E 37/249, *The Bassick Mfg. Co.* v. *J. Martin.* Decree for plaintiff adjudging infringement Feb. 23, 1928.

1,307,734 (*a*), A. B. Gullborg, Lubricating means, D. C. Wash. (Seattle), Doc. 483, *The Bassick Mfg. Co.* v. *Ballou & Wright.* Decree for plaintiff Feb. 23, 1928.

1,307,734 (*b*). (See 1,307,733.)

1,321,918, R. L. Herman, Shears, filed Mar. 5, 1928, D. C., S. D. N. Y., Doc. E 44/272, *Unishear Co., Inc.*, v. *Hayes Mfg. Co.*

1,347,460. (See 1,264,560.)

1,348,977, G. L. Borrowman, Water-softening compound and producing same; 1,455,363, A. C. Spencer, Process of purifying water, D. C., S. D. N. Y., Doc. E 44/199. *The Permutit Co.* v. *Paige & Jones Chemical Co., Inc.* Patents sustained Feb. 17,1928

1,349,041, J. H. Boye, Curtain fixture; 1,644,105, same, Bracket and rod coupling curtain fixtures, filed Jan. 18, 1928, D. C., W. D. Mich., S. Div., Doc. 2125, *J. H. Boye Mfg. Co.* v. *Kant Fall Mfg. Co.*

1,351,245. (See 1,374,352.)

1,374,352, A. J. Borst, Jr., Vehicle; 1,351,245, E. F. Hartwick, Fifth wheel, filed Feb. 24, 1928, D. C., E. D. Mich., S. Div., Doc. 2486, *Fruehauf Trailer Co.* v. *Highway Trailer Co.*

1,377,249. (See 902,584.)

1,385,102, Winters & Crampton, Latch, C. C. A., 7th Cir., Doc. 3935, *Sanitary Refrigerator Co.* v. *A. F. Winters et al.* Decree modified and as modified affirmed Feb. 9, 1928.

1,413,406. (See 902,584.)

1,433,349. (See 882,517.)

1,433,350. (See 882,517.)

1,433,351. (See 882,517.)

1,433,352. (See 882,517.)

1,434,221, W. Peirez, Gutter hanger, D. C., S. D. N. Y., E 30/141, *M. Rachlin et al* v. *J. Watsky et al* (*Hillcrest Roofing & Tinsmithing Supply Co.*). Complaint dismissed Mar. 1, 1928.

1,435,199, L. Blair, Heat-insulated receptacle, filed Feb. 15, 1928, C. C. A., 7th Cir., Doc. 4012, *The Monarch Co. et al.* v. *The Mantle Lamp Co. of America.*

1,452,078. (See 902,584.)

1,454,565, A. Sanford, Combined desk and seat, C. C. A., 7th Cir., Doc. 3925, *A. O. Sanford* v. *American Seating Co.* Decree affirmed Feb. 16. 1928.

1,454,565. (See 1,452,078.)

1,455,363. (See 1,348,977.)

1,468,392. (See 980,431.)

1,476,804, M. G. De Simone, Denominator and adding machine, filed Mar. 1, 1928, D. C., S. D. N. Y., Doc. E 44/267, *M. G. De Simone* v. *R. H. Macy & Co., Inc.*

1,487,189, L. J. Wahl, Clipper, appeal filed Feb. 24, 1928, C. C. A., 7th Cir., Doc. 4016, *N. E. Norstrom et al.* v. *L. J. Wahl.*

1,489,940, S. Hiller, Process and apparatus for treating materials; 1,551,152, 1,551,196, same, Dryer, D. C., S. D. Calif. (Los Angeles), Doc. J–115–M, *S. Hiller, Inc.*, v. *Van Camp Sea Food Co., Inc.* Decree dismissed for want of prosecution Dec. 12, 1927. Doc. J–118–M, *S. Hiller, Inc.*, v. *Franco-Italian Packing Co.* Decree as above.

1,534,478, W. J. Wiswall, Manifolding book, D. C., S. D. N. Y., Doc. E 44/22, *American Sales Book Co., Ltd.*, v. *A. Pearlman et al.* (*Jewel Printing & Systems Co.*). Decree pro confesso sustaining patent and adjudging infringement Mar. 3, 1928.

1,551,152. (See 1,489,940.)

1,551,196. (See 1,489,940.)

1,612,788, J. Walten, Tire flap, appeal filed Feb. 1, 1928, C. C. A., 7th Cir., Doc. 4005, *O. C. Tingley & Co. et al.* v. *Badger Rubber Works.*

1,644,105. (See 1,349,041.)

Re. 18,758. (See 882,517.)

Adjudicated Patent.

(C. C. A. Wis.) The Winters and Crampton patent, No. 1,385,102, for latch, claims 1, 2, 3, 4, and 7 *Held* infringed. *Sanitary Refrigerator Co.* v. *Winters*, 24 F. (2d) 15.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 17, 1928.

[VOL. 369. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 258,156. W. NORMAN WILLIS, Louisville, Ky. Filed Nov. 28. 1927.



Particular description of goods.—Coal.
Claims use since Feb. 15, 1927.

Ser. No. 258,417. LEAVELL COAL COMPANY, Tulsa, Okla. Filed Dec. 3, 1927.



The words "That Good Coal" and "Coal" are disclaimed.
Particular description of goods.—Coal.
Claims use since about Jan. 1, 1921.

CLASS 2.

Receptacles.

Ser. No. 259,932. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed Jan. 10, 1928.



Exclusive right to the words "Self Opening," "Paper Bags," and "Kraft" and the representation of a bag are disclaimed apart from the other features on the mark. The drawing is lined to denote red color.
Particular description of goods.—Paper Bags.
Claims use since 1872.

Ser. No. 261,183. FEDERAL CONTAINER COMPANY, Philadelphia, Pa. Filed Feb. 4, 1928.

TUF-FIR

Particular description of goods.—Boxes and Shipping Cases of Fibrous Material.
Claims use since on or about Jan. 5, 1928.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 245,124. WEST COAST SOAP COMPANY, Oakland, Calif. Filed Mar. 2, 1927.

Lemoco

The drawing is lined for the color yellow.
Particular description of goods.—Soap.
Claims use since Nov. 1, 1924.

Ser. No. 253,906. THE PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Aug. 24, 1927.



The representation of the carton and all wording appearing in the drawing except the word "Palmolive" in each instance and the name of the applicant are claimed only to the extent that the same are a component part of the trade-mark as a whole, and such wording is disclaimed apart from the mark as shown.
Particular description of goods.—Saponaceous Shaving Cream.
Claims use since January, 1900.

Ser. No. 260,962. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed Jan. 31, 1928.



The translation of the Hebrew words appearing in the drawing are "Rokeach's Kosher Brooklyn, New York," and the slogan is "Keep your kitchen clean and kosher." No claim is made to the representation of the outline of a carton, the words "Kosher" and "Brooklyn, New York" and "Keep your kitchen clean and kosher."
Particular description of goods.—Soap.
Claims use since May 4, 1922.

Ser. No. 261,180. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 4, 1928.

DUPONT
DUCO
7
POLISH

All wording with the exception of the words "Duco" superimposed upon the Du Pont oval, "Dupont," and the numeral "7" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Polishes Acting as Dirt and Grease Removers and Cleaning Materials.
Claims use since Jan. 13, 1925.

Ser. No. 261,181. J. EAVENSON & SONS, INCORPORATED, Philadelphia, Pa. Filed Feb. 4, 1928.

EVON

Particular description of goods.—Soap.
Claims use since Dec. 28, 1927.

CLASS 5.

Adhesives.

Ser. No. 249,232. MILLER CEREAL MILLS, Omaha, Nebr. Filed May 19, 1927.

PASTICK
DRY PASTE

No claim is made to the words "Dry Paste" apart from the mark as shown.
Particular description of goods.—Dry Paste (a Flour Adapted to Form an Adhesive by Admixture with Cold Water).
Claims use since Mar. 23, 1926.

Ser. No. 261,626. THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 13, 1928.

Plastikon

Particular description of goods.—Adhesives Containing Rubber as the Principal Ingredient.
Claims use since about Jan. 10, 1928.

Ser. No. 262,593. R. E. BURTON & SON, North Weymouth, Mass. Filed Mar. 5, 1928.

Rubberette

Particular description of goods.—Auto Top-Patching Cement.
Claims use since February, 1927.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 239,604. THE SOUTHERN MANUFACTURING CO., Richmond, Va. Filed Nov. 2, 1926.

NEW NEW
GOOD LUCK
BAKING POWDER

The words "Baking Powder" appearing in the drawing are hereby disclaimed.
Particular description of goods.—Baking Powder.
Claims use since Jan. 24, 1880.

Ser. No. 243,131. BOURJOIS, INC., New York, N. Y. Filed Jan. 21, 1927.

MON PARFUM

Particular description of goods.—Perfume, Toilet Water, Face Powder, Bath Powder, Talcum Powder, Toilet Cream, and Brilliantine.
Claims use since 1914.

Ser. No. 243,692. J. DOAK AND COMPANY, Philadelphia, Pa. Filed Feb. 2, 1927.

Diasporal

Particular description of goods.—Intravenous and Intramuscular Injections for the Treatment of Anæmia, Arthritis, Cancer, Goitre, Lues, Malignant Growths, Pleurisy, Sciatica, Skin Diseases, and Syphilis; Ointments and Lotions for the Treatment of Diseases of the Skin.
Claims use since January, 1926.

Ser. No. 243,889. SCHNEIDER SISTERS COMPANY, Chicago, Ill. Filed Feb. 5, 1927.

Schneider Sisters

The use of the words "Schneider Sisters" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Face Cream, Massage Cream, Vanishing Cream, Complexion Powder, Hair Stain, Cream Lotion, and Hair Tonic.

Claims use since about 1892 on face cream, and since 1907 on other products.

Ser. No. 246,137. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Mar. 21, 1927.

Salicionyl

Particular description of goods.—Effervescent Salt for the Treatment of Rheumatism.

Claims use since June 22, 1926.

Ser. No. 250,246. HILDA LEVEEN, doing business as Trinity Pharmacal Co., Boston, Mass. Filed June 9, 1927.

Boralin

Particular description of goods.—Ointments Used in the Treatment of Cold Sores, Chapped Hands and Lips, Skin Eruptions, Pimples and Blackheads, Ivy Poisoning, Burns and Scalds, Sunburn, Scratches, Cuts, and Wounds, and in the Treatment of Dry, Rough, Chapped and Reddened (Specifically Infants) Skin, and the Mucous Membrane.

Claims use since July, 1925.

Ser. No. 251,588. HELENA J. TITUS, doing business as Madame Helena Rubenstein, New York, N. Y. Filed July 6, 1927.

REDCARDINAL

The words "Red Cardinal" are disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Rouges and Lip Sticks.

Claims use since Dec. 1, 1925.

Ser. No. 251,589. HELENA J. TITUS, doing business as Madame Helena Rubenstein, New York, N. Y. Filed July 6, 1927.

RED CARNATION

The words "Red Carnation" are disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Rouges and Lip Sticks.

Claims use since Dec. 1, 1925.

Ser. No. 251,590. HELENA J. TITUS, doing business as Madame Helena Rubenstein, New York, N. Y. Filed July 6, 1927.

RED RUBY

The words "Red Ruby" are disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Rouges and Lip Sticks.

Claims use since Dec. 1, 1925.

Ser. No. 253,570. BUFFALO ELECTRO-CHEMICAL CO., INC., Tonawanda, N. Y. Filed Aug. 17, 1927.

BECO

The trade-mark is ordinarily printed in contrasting colors, the letters in black and the head and jagged line in red, but the mark is not restricted as to color.

Particular description of goods.—Hydrogen Peroxide.

Claims use since Apr. 20, 1926.

Ser. No. 254,008. CAGGIE PEDRICK, doing business as The Pedrick Laboratories, Inc., Tulsa, Okla. Filed Aug. 26, 1927.

ANTI SCRATCH

The term "Anti Scratch" is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Specific for Skin Diseases of Dogs.

Claims use since Aug. 1, 1927.

Ser. No. 255,540. EDWARD E. SPITZ, Boston, Mass. Filed Oct. 1, 1927.

PUT YOUR SKIN LACTAY VÉGÉTAL ON A MILK DIET

The words "Put Your Skin on a Milk Diet" and "Végétal" are disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Face Lotions, Cold Cream, Massage Cream, Vanishing Cream, Toilet Powder, Dusting Powder, Face Powder, and Talcum Powder, and Compacts.

Claims use since Apr. 15, 1927.

Ser. No. 256,731. ISAAC D. LEVINSON, Detroit, Mich. Filed Oct. 28, 1927.

S-T-37

Particular description of goods.—Compound for the Treatment of Rheumatism of the Joints and Muscles, Subacute or Chronic Lumbago, Gout, Neuralgia, and Pains of Rheumatic Nature.

Claims use since Aug. 1, 1922.

Ser. No. 257,147. COCKBURN & CO. LTD., Glasgow, Scotland. Filed Nov. 7, 1927.

"Little Victor"

Particular description of goods.—Medicated Inhaler for Treatment of Diseases of the Respiratory Organs.
Claims use since 1911.

Ser. No. 258,529. E. R. MANSFIELD CO., doing business as Adele Millar, Los Angeles, Calif. Filed Dec. 6, 1927.

Adele Millar

Particular description of goods.—Almond-Meal Compound; Astringent, Lotion; Beautifier Paste Powder, Liquid Powder Base, Liquid Skin Bleach, Semiliquid Astringent; Cleansing Powder, Powder for Cleansing Pores; Cream, Acne; Cream, Complexion; Cream, Cucumber; Cream, Freckle; Cream, Lemon; Cream, Cold; Cream, Strawberry Cleansing; Cream, Tissue Builder; Depilatory Powder, Developing Cerate, Deodorant Powder, Eyebrow and Eyelash Blackening, Eyebrow-Eyelash Grower; Eyebrow Pencils, Brown and Black; Face Powder; Face Powder, Liquid; Hair Remover Consisting of a Wax Preparation; Hair-Root Destroyer, a Liquid Preparation for the Purpose of Killing the Hair Roots; Lip Sticks, Liquid Astringent, Perfumes; Plastic Pack, Prepared; Plastic Pack, Powder; Pore Lotion, Reducing Cerate, Hand Lotion, Liquid Skin Stimulator; Rouge, Compact; Rouge, Cream; Rouge, Liquid; Talcum Powder, Tissue Oil (Muscle Oil), Toilet Water, Hand Lotion, Liquid Preparation for Removing Warts and Moles, Amillaris Scalp Cerate (a Dandruff Remover in Paste Form); Bandoline, Brown and Uncolored; Brilliantine (Green or Yellow), Dandruff Remover in Liquid Form, Hair-Color Restorer, Hair Tonic (for Oily Scalp), Hair Tonic (for Dry Scalp), Hair Dye, Tar Jelly Shampoo, Cuticle Ice, Cuticle Nail Oil, Cuticle Solvent, Nail Bleach (Liquid), Nail Bleach (Powder), Nail Enamel (Liquid, Not a Varnish); Nail Whitener (Paste), Nail Polish (Powder), Almond-Meal Powder, Bleach Powder, Brilliantine (Jelly), Brilliantine (Liquid), Pine Scalp Oil, Peroxide, Bleaching Cream; Egyptian Henna Leaves, Powdered; Egyptian Henna Leaves, Whole.
Claims use since 1910.

Ser. No. 258,932. ALFREDO STEFFENS, Barranquilla, Columbia. Filed Dec. 14, 1927.

MENTOLATINA

Particular description of goods.—Preparation for the Treatment of Coughs, Colds, Bites, Inflammations, Hay Fever, Lumbago, Rheumatism, Neuralgia, Headache, Toothache, Earache, Deafness, Eczema, Burns, Throat Irritations, and Skin Disorders.
Claims use since Mar. 31, 1916.

Ser. No. 259,432. YEASTPIRIN LIMITED, London, England. Filed Dec. 28, 1927.

YEASTPIRIN

Particular description of goods.—Yeast Preparation to be Taken Internally for the Relief of Nerve and Stomach Troubles and as a Tonic.
Claims use since Nov. 24, 1927.

Ser. No. 260,039. FRANK ZELINSKI, Merrill, Wis. Filed Jan. 12, 1928.

ZELINSKI'S

No registration rights are claimed for the name "Zelinski's" apart from the mark as shown in the drawing.
Particular description of goods.—Salve for the Treatment of the Hair and Scalp and Dandruff Preventative.
Claims use since July 1, 1926.

Ser. No. 260,816. FIRST NATIONAL LABORATORIES, INCORPORATED, Lehighton, Pa. Filed Jan. 28, 1928.

OIL OF YOUTH

Particular description of goods.—Liniment for Internal and External Use for the Alleviation of Pain, as in Cases of Cramps, Cholera, Cough, Cold, Earache, Lumbago, Neuralgia, Nervous or Sick Headache, Rheumatism, Sore Throat, Toothache, La Grippe, and Like Ailments.
Claims use since Oct. 25, 1922.

Ser. No. 261,192. JANE D. HAYS, Chicago, Ill. Filed Feb. 4, 1928.

Oh Joy Plaster

The word "Plaster" is disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Restorative Medical Plaster Used for Coughs, Tickling of Throat, Indigestion, Kidney Trouble, Sores, Backache, Cuts, Bruises, and Pains in the Stomach.
Claims use since December, 1927.

Ser. No. 261,281. PARFUMERIE ST. DENIS, New York, N. Y. Filed Feb. 6, 1928.

TURANDOT

Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Crystals, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Jan. 13, 1928.

Ser. No. 261,349. CATARACT CHEMICAL COMPANY, INC., Buffalo, N. Y. Filed Feb. 8, 1928.

CATCHEMCO

Particular description of goods.—Chemical Products for the Filling, Bleaching, and Conditioning of Leather.
Claims use since Jan. 24, 1928.

Ser. No. 261,618. MONROE A. FER-DON, doing business as Fer-Don, Indianapolis, Ind. Filed Feb. 13, 1928.

Lypthyl

Particular description of goods.—Antiseptic Oral Hygiene for the Treatment of Pyorrhea, Riggs' or Vincent's Disease.
Claims use since August, 1927.

Ser. No. 261,639. ALBERT EDWARD MALLARD, Detroit, Mich. Filed Feb. 13, 1928.

SALETO

Particular description of goods.—Tablets and Capsules for the Relief of Pain, Composed of Antipyretic, Analgesic, Antirheumatic; Acid Acetylsalicylic, Phenacetine, Camphor Monobromate, Caffeine Salicylate.
Claims use since 1913.

Ser. No. 261,694. ELIZABETH MARIE BRODERICK, doing business as Elizabeth Marie, Philadelphia, Pa. Filed Feb. 15, 1928.

ELIZABETH MARIE



WORTH LOOKING INTO

Particular description of goods.—Astringents, Bleach Creams, Beauty Creams, Cleansing Creams, Tissue Creams, Pore Creams, Hand Lotions, Skin Lotions, Eye Washes, Skin Tonics, Acne Lotions, Deodorants, and Muscle Oil.
Claims use since Jan. 2, 1928.

Ser. No. 261,728. LULA R. YORK, Philadelphia, Pa. Filed Feb. 15, 1928.

SUNBEAM

Particular description of goods.—Preparation for Growing Hair.
Claims use since Jan. 11, 1928.

Ser. No. 261,758. E. A. KLEIN, doing business as Klein's Will-Kill Exterminator Co., Milwaukee, Wis. Filed Feb. 16, 1928.



WILL-KILL

The hyphenated word "Will-Kill" is not claimed apart from the other features of the mark.
Particular description of goods.—Insecticide.
Claims use since Oct. 31, 1927.

Ser. No. 261,767. THE RED BALL COMPANY, Madrid, Iowa. Filed Feb. 16, 1928.

KILLAJERM

Particular description of goods.—Antiseptic and Germicidal Preparation.
Claims use since July 1, 1924.

Ser. No. 261,897. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed Feb. 18, 1928.

ACTEROL

Particular description of goods.—Activated Ergosterol, an Antirachitic Substance Containing Vitamin D.
Claims use since Feb. 1, 1927.

Ser. No. 261,981. PAN PACIFIC PRODUCTS, INCORPORATED, Los Angeles, Calif. Filed Feb. 20, 1928.

ODONTINE

Particular description of goods.—Tooth Paste.
Claims use since Jan. 17, 1928.

Ser. No. 262,025. ROBERT ELMER GRABEL, doing business as Master Dentifrice Laboratories, Inc., Borden Springs, Ala. Filed Feb. 21, 1928.



Particular description of goods.—Medicinal Powder for the Treatment and Relief of Pyorrhea.
Claims use since about July 15, 1927.

Ser. No. 262,046. JOHN H. BARTLESON, doing business as Health-Thrift Products Co., Asheville, N. C. Filed Feb. 23, 1928.



No claim is made to the exclusive use of the words "Heithe for Health-Thrift" aside from the mark shown.
Particular description of goods.—Laxative and Diuretic Compound Which is Effective in Treating Acidosis and Bilious Headaches.
Claims use since Nov. 7, 1927.

Ser. No. 262,059. HENRY E. CHAPUT, M. D., Holyoke, Mass. Filed Feb. 23, 1928.



Particular description of goods.—Medicinal Compound for the Treatment of Constipation, Diseases of the Liver, and a General Tonic.
Claims use since Aug. 8, 1913.

Ser. No. 262,126. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Feb. 23, 1928.

Ligtone

Particular description of goods.—Liniment for the Relief of Pain, Foot Troubles, Such as Corns and Callouses, Neuralgia, Neuritis, Sore and Aching Muscles, Stiff Neck, Sprained Ankles, Foot Strain, Bites, Stings, Rheumatism, Sciatica, and Lumbago.
Claims use since Sept. 1, 1915.

Ser. No. 262,139. MAGDALEN S. WHITLOCK, Clarendon, Va. Filed Feb. 23, 1928.



No claim is made to the words "Hand Crème" apart from the mark as shown in the drawing.
Particular description of goods.—Hand Cream.
Claims use since Nov. 4, 1927.

Ser. No. 262,149. BRADLEY'S LABORATORY, Matoaka, W. Va. Filed Feb. 24, 1928.



Particular description of goods.—Preparations for the Treatment of Headaches, Colds, Neuralgia, Rheumatism, Lumbago, Sciatica, and Period Pains.
Claims use since April, 1927.

Ser. No. 262,183. SELY S. SELIGMAN, doing business as Devil Laboratories Company, Cincinnati, Ohio. Filed Feb. 24, 1928.

DEVIL'S
EnglishFluid



No claim is made to the words "English Fluid" apart from the the mark as shown in the drawing.
Particular description of goods.—Chemical Preparation to be Used for Filling Cigar and Cigarette Lighters.
Claims use since Dec. 10, 1927.

Ser. No. 262,192. THE J. R. WATKINS COMPANY, Winona, Minn. Filed Feb. 24, 1928.



The mark consists of the portrait and signature of J. R. Watkins, deceased, founder of the J. R. Watkins Company.
Particular description of goods.—Tablets for Preventing Diarrhea, Roup, and Chicken Pox in Poultry; Roundworm Capsules and Tablets, Cod-Liver Oil (Medicinal), and Witch-Hazel.
Claims use since June 4, 1927.

Ser. No. 262,239. IRVING MCEWEN, Omaha, Nebr. Filed Feb. 25, 1928.



Particular description of goods.—Cutworm and Gopher Repellent and Seed-Corn Disinfectant.
Claims use since Feb. 1, 1928.

Ser. No. 262,265. DIONISIA SCOCOS, New York, N. Y. Filed Feb. 25, 1928.

ASPILON

Particular description of goods.—Medicinal Preparation to be Taken Internally for the Relief of Pimples, Eczema, Sores, Chafing, Gonorrhea, Headaches, Dizziness, Rheumatism, Heartburn, Also Serves as a Laxative and Blood Purifier.
Claims use since Jan. 1, 1928.

Ser. No. 262,275. GUSTAV WEIL, doing business as Zarol Medical Research, New York, N. Y. Filed Feb. 25, 1928.

VINDOR

Particular description of goods.—Tonic and Nerve Restorative in the Treatment of Diabetes.
Claims use since Jan. 1, 1923.

Ser. No. 262,329. HANS H. ROHDE, San Francisco, Calif. Filed Feb. 27, 1928.



Particular description of goods.—Medicinal Salve for External Use for Poison Oak, Boils, Sores, for External Use for Sore Throats.
Claims use since Nov. 15, 1927.

Ser. No. 262,387. ALBERT R. BELLEROSE, doing business as Stoppo Products Company, Hartford, Conn. Filed Feb. 29, 1928.

STOPPO

Particular description of goods.—Preparation for Stopping Runs in Hosiery, Knitted Wear, and the Like.
Claims use since Oct. 15, 1927.

Ser. No. 262,396. FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Feb. 29, 1928.

HEPCENTRATE

Particular description of goods.—Extract Prepared from the Mammalian Liver in Concentrated Form and Designed for the Treatment of Anemia.
Claims use since Feb. 14, 1928.

Ser. No. 262,451. J. E. ELLIS, LIMITED, Horsforth, near Leeds, England. Filed Mar. 1, 1928.

HARLEQUIN

Particular description of goods.—Rouges, Lip Sticks, Face Creams, Face Powders, Compact Face Powders, and Talcum Powder.
Claims use since Jan. 2, 1928.

Ser. No. 262,563. HELENA RUBENSTEIN, INC., New York, N. Y. Filed Mar. 3, 1928.

(Anthosoros)

Particular description of goods.—Face Creams.
Claims use since July, 1902.

Ser. No. 262,586. ABBOTT LABORATORIES, North Chicago, Ill. Filed Mar. 5, 1928.

COPHEDRIN

Particular description of goods.—Expectorant and Sedative.
Claims use since Jan. 20, 1928.

Ser. No. 262,603. T. R. GIBBS, doing business as T. R. Gibbs Pharmacy, Belhaven, N. C. Filed Mar. 5, 1928.

"PUSH"

Particular description of goods.—Medicine for Gas and Indigestion.
Claims use since Apr. 1, 1927.

Ser. No. 262,610. CALVIN C. JORDAN, doing business as Detroit Chemical Laboratories, Detroit, Mich. Filed Mar. 5, 1928.

ZEROS

Particular description of goods.—Medicines for the Treatment of Colds, Coughs, Bronchitis, Sore Throat, Tonsilitis, La Grippe, and Influenza.
Claims use since Jan. 12, 1928.

Ser. No. 262,618. L. V. MERZ, doing business as L. V. Merz & Co., Chicago, Ill. Filed Mar. 5, 1928.

DENTITE

Particular description of goods.—Adhesive Powder Used to Make False-Teeth Plates Adhere to the Gums and Roof of the Mouth.
Claims use since October, 1927.

Ser. No. 262,690. L. BAMBERGER & COMPANY, Newark, N. J. Filed Mar. 7, 1928.

SWIRL

Particular description of goods.—Lotions for the Hair.
Claims use since Mar. 1, 1928.

CLASS 7.

Cordage.

Ser. No. 262,062. COLUMBIAN ROPE COMPANY, Auburn, N. Y. Filed Feb. 23, 1928.



The trade-mark consists of a single blue yarn and a red yarn on each side of the blue yarn, each red yarn separated from the blue yarn by a manila yarn, all incorporated in and constituting a part of the strands of which the rope is formed, no claim being made to the representation of the rope. In the twisting of the strands portions of these colored yarns will be brought at intervals to the surface of the rope, giving the appearance of short longitudinally-extending sections of parallel red, white, blue, white, and red lines, some of which are visible when the rope is viewed from any angle.

Particular description of goods.—Rope of Vegetable Fiber.
Claims use since Jan. 28, 1928.

CLASS 9.

Explosives, Firearms, Equipments, and Projectiles.

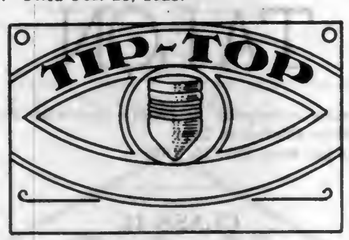
Ser. No. 260,944. WILLIAM P. HUBBARD, Jr., Chicago, Ill., assignor to The Stearnes Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1928.



A PERFECT MATCH

The words "Perfect Match" are disclaimed apart from the rest of the mark shown. The pictures appearing on the drawing are purely fanciful.
Particular description of goods.—Matches.
Claims use since Dec. 20, 1927.

Ser. No. 262,136. VULCAN MATCH CO., INC., New York, N. Y. Filed Feb. 23, 1928.



Particular description of goods.—Matches.
Claims use since Dec. 16, 1927.

CLASS 10.

Fertilizers.

Ser. No. 261,285. F. S. ROYSTER GUANO CO., Norfolk, Va. Filed Feb. 6, 1928.

GOLDEN WEED

Particular description of goods.—Fertilizers.
Claims use since Jan. 1, 1925.

CLASS 12.

Construction Materials.

Ser. No. 261,476. ASBESTOS SHINGLE, SLATE & SHEATHING COMPANY, Ambler, Pa. Filed Feb. 10, 1928.

LINABESTOS

Particular description of goods.—Asbestos Board.
Claims use since January, 1919.

Ser. No. 261,477. ASBESTOS SHINGLE, SLATE & SHEATHING COMPANY, Ambler, Pa. Filed Feb. 10, 1928.

EBONIZED

Particular description of goods.—Impregnated Asbestos Board.
Claims use since January, 1924.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 230,288. DREW LINE COMPANY, Fort Atkinson, Wis. Filed Apr. 16, 1926.



None of the words appearing on the drawing are claimed apart from the mark as shown except the name "Drew." The background for the central figure upon which the word "Drew" appears is of a red color.
Particular description of goods.—Barn and Stable Equipment and Equipment for Chicken Houses, Hogpens, and Other Farm Buildings—Namely, Stanchions, Drinking Cups for Livestock and Poultry with Supply-Pipe Connections and Controlling Accessories, Metal Stalls, Metal Stall Frames, and Posts, Anchors, and Fittings Therefor.
Claims use since Jan. 1, 1926.

Ser. No. 249,967. GRINNELL COMPANY, INC., Providence, R. I. Filed June 8, 1927.



Particular description of goods.—Pipe Fittings, Valves, and Cocks Composed Wholly or in Part of Metal; Automatic Sprinkler Systems, Dry-Valve Accelerators, Water-Motor Gong Hoods, Water-Motor Gongs, Sprinkler Cabinets, Fire-Department Connections, Fire-Department Connection Plates, Hose Caps, Fusible Links, Pipe Hangers, and Pipe Brackets.
Claims use since Aug. 17, 1920.

Ser. No. 253,296. STANDARD SANITARY MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Aug. 10, 1927.

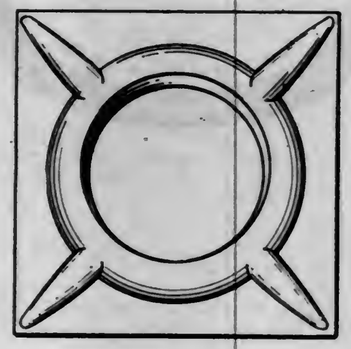
"Standard"-A-R

Applicant is the owner of registration No. 58,506 (renewed) for "Standard" under 10-year proviso.

Particular description of goods.—Enameled Ware, and Includes Enameled Plumbing Fixtures Such as Bathtubs, Shower Receptors, Sitz Baths, Foot Baths, Child's Bath, Lavatories, Prison Lavatories, Battery Lavatories, Barber Lavatories, Wash Sinks, Drinking Fountains, Kitchen Sinks, Drain Boards, Sink Legs, Flat-Rim Sinks, Sink Backs and Pieces, Grease Traps, Slop Sinks, Trap Standards, Laundry Trays, Tray and Sink Combinations, Enameled Closets, Enameled Tanks and Urinals.

Claims use since May 10, 1927.

Ser. No. 254,965. GRAHAM BOLT & NUT COMPANY, Neville Island, Pa. Filed Sept. 20. 1927.



The representation of the nut is disclaimed as no part of the mark.

Particular description of goods.—Nuts.

Claims use since August, 1925.

Ser. No. 256,838. SYNDICATE TRADING CO., New York, N. Y. Filed Oct. 31, 1927.



No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Aluminum Teakettles, Preserving Kettles, Dish Pans, Frying Pans, Vegetable Cookers, Teapots, Saucepans, Stewpans, Drainers, Trays, French Fryers, Ladles, Coffeepots, Percolators, Roasters, Colanders, Water Pitchers, and Double Boilers.

Claims use since Aug. 4, 1927.

Ser. No. 257,683. J. W. JOHNSON COMPANY, Chicago, Ill. Filed Nov. 17, 1927.

DIXIE DUCK

No claim is made to the use of the word "Duck" alone.

Particular description of goods.—Waterproofed Shower Curtains for Shower Baths.

Claims use since Jan. 1, 1927.

Ser. No. 261,296. CHARLES M. YOUNG, doing business as Ever-Grip Manufacturing Company, New Britain, Conn. Filed Feb. 6, 1928.

Jiffy

Particular description of goods.—Self-Closing Repair Links for Use with Tread Members of Antiskidding Devices.

Claims use since Mar. 15, 1927.

Ser. No. 261,816. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed Feb. 17, 1928.

TALON

Particular description of goods.—Separable Fasteners of the Slider-Controlled Type.

Claims use since Feb. 10, 1928.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 261,587. PULLMAN CAR AND MANUFACTURING CORPORATION, Chicago, Ill. Filed Feb. 11, 1928.

PULLMANITE

Particular description of goods.—Ferrous-Metal Castings Having Ferrous Alloy Content.

Claims use since Nov. 15, 1926.

Ser. No. 262,352. THE EGAL METAL PRODUCTS COMPANY, Baltimore, Md. Filed Feb. 28, 1928.

EGALITE

Particular description of goods.—Aluminum Alloys.

Claims use since Oct. 24, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 241,392. CALIFORNIA PETROLEUM CORPORATION, Los Angeles, Calif. Filed Dec. 18, 1926.

"MORE POWER TO YOU"

CALPET

Particular description of goods.—Gasoline.

Claims use since May 5, 1926.

Ser. No. 242,208. THE PURE OIL COMPANY, Chicago, Ill. Filed Dec. 30, 1926.

PUROL

Particular description of goods.—Kerosene, Benzine, Distillate, and Lubricating Oils and Greases.

Claims use since Mar. 22, 1919.

Ser. No. 244,578. SMITH & NICHOLS, INCORPORATED, New York, N. Y. Filed Feb. 18, 1927.

S & N

Exclusive right to the diamond-shaped figure apart from the mark shown is not claimed.

Particular description of goods.—Candles.

Claims use since January, 1900.

Ser. No. 248,849. GEORGE ADDISON LAZEAR, Irvington, N. J. Filed May 11, 1927.

PENEGRAPH

Particular description of goods.—Penetrating Graphite Oil.

Claims use since Sept. 15, 1926.

Ser. No. 259,367. LOOSOYLE REFINING COMPANY, Tulsa, Okla., and Joplin, Mo Filed Dec. 27, 1927.



The words "Mixture" and "Gasoline" are disclaimed apart from the mark shown.

Particular description of goods.—Gasoline and Lubricating Oils.

Claims use since on or about Oct. 15, 1927.

Ser. No. 262,198. THE BARTLES-MAGUIRE OIL COMPANY, Milwaukee, Wis. Filed Feb. 25, 1928.



Particular description of goods.—Gasoline, Motor Oil, and Other Lubricating Oils and Greases.

Claims use since July 14, 1921.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 257,973. EASTERN LACQUER COMPANY, Lynn and Wakefield, Mass. Filed Nov. 23, 1927.

ER-CO-LAC

No claim is made to the word "Lac" except in association with the mark shown in the drawing.

Particular description of goods.—Lacquers, Lacquer Enamels, Lacquer Finishes, Paint Enamels, Stains, Glazes, Thinners, Primers, and Wood Fillers.

Claims use since Aug. 16, 1927.

Ser. No. 258,647. WALTER NOWAK, doing business as Excellent Mfg. Co., Buffalo, N. Y. Filed Dec. 8, 1927.

APOLLO

Particular description of goods.—Furniture and Piano Polish.

Claims use since June 15, 1926.

Ser. No. 259,874. QUICKSHEEN POLISH CO., Prospect Park, N. J. Filed Jan. 9, 1928.



No claim is made to the word "Polish" apart from the mark shown in the drawing.

Particular description of goods.—Liquid Polish for Automobiles and Furniture.

Claims use since Sept. 14, 1926.

Ser. No. 260,482. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Jan. 23, 1928.

Acco-lite

Particular description of goods.—Emulsion for Wall Covering in the Nature of a Wall Paint.

Claims use since Jan. 9, 1928.

CLASS 17.

Tobacco Products.

Ser. No. 262,286. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C. Filed Feb. 27, 1928.

SILHOUETTE



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.

Claims use since Feb. 2, 1928.

Ser. No. 262,288. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C. Filed Feb. 27, 1928.

Dicobac

Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.

Claims use since Feb. 2, 1928.

Ser. No. 262,557. DELUX TOBACCO COMPANY, Portsmouth, Ohio. Filed Mar. 3, 1928.

ROMANCE



CIGARETTES

No claim is made to the exclusive use of the descriptive word "Cigarettes."

Particular description of goods.—Cigarettes.

Claims use since Feb. 14, 1928.

CLASS 20.

Linoleum and Oiled Cloth.

Ser. No. 256,018. SOCIETA ANONIMA DEL LINOLEUM DI GIUBIASCO (SVIZZERA), Giubiasco, Switzerland. Filed Oct. 12, 1927.

MARBOLEUM HELVETIA

Applicant is owner of registration No. 227,841 including the word "Helvetia."

Particular description of goods.—Linoleum.

Claims use since about March, 1927.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 243,852. GENERAL APPLIANCE CORPORATION, San Francisco, Calif. Filed Feb. 5, 1927.

DIAMOND

Particular description of goods.—Electric-Circuit Interrupters or Flashers.

Claims use since September, 1924.

Ser. No. 253,150. INTERNATIONAL RESISTANCE COMPANY, Philadelphia, Pa. Filed Aug. 6, 1927.

POWEROHM

Particular description of goods.—Electrical Resistance Devices Such as are Used in Radio Apparatus.

Claims use since about Apr. 1, 1927.

Ser. No. 254,790. BROWNING DRAKE CORPORATION, Cambridge, Mass. Filed Sept. 16, 1927.



Particular description of goods.—Radio Receiving Sets and Radio Receiver Construction Kits and Parts Thereof—Namely, Condensers, Antenna Coils, Radiofrequency Transformers, Dials, Panels, and Foundation Units.

Claims use since on or about Aug. 17, 1927.

Ser. No. 256,754. UNIVERSAL BATTERY COMPANY, Chicago, Ill. Filed Oct. 28, 1927.



The drawing is lined to indicate the color red.

Particular description of goods.—Socket Power Units for Use with Radio Receiving Sets.

Claims use since Aug. 1, 1925.

Ser. No. 258,867. THE GAMEWELL COMPANY, Newton Upper Falls, Mass. Filed Dec. 13, 1927.

DUALARM

Particular description of goods.—Electrical Fire-Alarm Systems and Parts Thereof—Namely, Fire-Alarm Boxes, Remote-Control Stations, and Contactor Sets.

Claims use since Nov. 4, 1927.

Ser. No. 258,890. TAYLOR BROS. MFG. CO., Los Angeles, Calif. Filed Dec. 13, 1927.



The section lining of the letters of the words "Champion Battery Clamp" indicates the color red, and the section lining of the inclosing ellipse indicates the color blue. The lines representing the battery clamp are also blue. No claim is made to the words "Battery Clamp" and the illustration of the battery clamp aside from the remaining portions of the mark.

Particular description of goods.—Storage-Battery Clamps.

Claims use since Aug. 15, 1927.

Ser. No. 260,463. PENN BATTERY COMPANY, Lock Haven, Pa. Filed Jan. 21, 1928.



No claim is made to the word "Batteries" apart from the mark shown in the drawing.

Particular description of goods.—Storage Batteries.

Claims use since Oct. 15, 1927.

Ser. No. 260,781. UNITED STATES OZONE COMPANY, Chicago, Ill. Filed Jan. 27, 1928.

Radi-Ion
ACTIVE OXYGEN
IONIZER

No claim is made to the words "Active Oxygen" and "Ionizer" apart from the mark shown in the drawing.

Particular description of goods.—Apparatus for Ionizing Air in Connection with General Ventilation by the Use of Electrical Means for Producing Ozone.

Claims use since August, 1926.

Ser. No. 261,088. WEST VIRGINIA PULP AND PAPER COMPANY, New York, N. Y. Filed Feb. 2, 1928.

ELECTRITE

Particular description of goods.—Fiber Board for Electical Insulation.
Claims use since Jan. 18, 1928.

Ser. No. 261,601. AMERICAN SIGNS CORPORATION, Kalamazoo, Mich. Filed Feb. 18, 1928.

NEO RAY

The word "Ray" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Luminous Electric Signs.
Claims use since Dec. 30, 1927.

Ser. No. 261,809. GUARANTEED PARTS CO., INC., New York, N. Y. Filed Feb. 17, 1928.

GUARANTEED PARTS CO. INC.

Particular description of goods.—Replacement Parts for Ignition Systems—Namely, Breaker Arms and Levers, Distributor Caps and Casings, Rotors, Condensers, Generator and Starter Brushes, Brush Holders, Contact Screws, Contact Springs, Contact Arms, Distributor Disc Assemblies, Distributor Rotor Assemblies, Resistance Units, Contact Terminals, Distributor Head Assemblies, Tension Springs, Terminal Attachments, Vibrator Springs, Vibrator Bridges, Circuit-Breaker Bases, Breaker Plates, Starter Switches, Service Coils, Induction Coils, and Distributor Gears.
Claims use since April, 1927.

Ser. No. 261,876. GOULD STORAGE BATTERY CO., INC., Depew, N. Y. Filed Feb. 18, 1928.

KATHANODE

Particular description of goods.—Storage Batteries and Parts Thereof.
Claims use since Aug. 24, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 260,029. LINEOL AKTIENGESELLSCHAFT, Brandenburg-on-the-Havel, Germany. Filed Jan. 12, 1928.

LINEOL

Particular description of goods.—Toy Soldiers, Toy Animals, Toy Menageries, and Toy Farms.
Claims use since Jan. 7, 1920.

Ser. No. 261,473. LUCY COTTON AMENT, New York, N. Y. Filed Feb. 10, 1928.

LUCETTA

The portrait is that of Lucy Cotton Thomas ("Lucetta"), a child of the applicant.
Particular description of goods.—Dolls.
Claims use since Feb. 3, 1928.

Ser. No. 262,338. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio. Filed Feb. 27, 1928.

SPARK

Particular description of goods.—Golf Balls.
Claims use since Feb. 7, 1928.

Ser. No. 262,339. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio. Filed Feb. 27, 1928.

THUNDERBOLT

Particular description of goods.—Golf Balls.
Claims use since Feb. 7, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 254,193. ALFRED L. MEGILL, doing business as The Edward L. Megill Co., Brooklyn, N. Y. Filed Aug. 31, 1927.



Particular description of goods.—Gage Pins, Feed Guides; Registry Apparatus, Meaning Thereby Devices for Alining and Maintaining Alinement of Sheets; and Gripper Fingers Used in Printing Presses.
Claims use since about Jan. 1, 1887.

Ser. No. 256,280. GUSTAV ADOLF BRUGGMANN, Zurich, Switzerland. Filed Oct. 19, 1927.



All wording excepting "Fountain of Youth" appearing on the drawing is disclaimed apart from the mark shown.
Particular description of goods.—Air-Bubble Attachments for Vacuum Cleaners.
Claims use since about September, 1927.

Ser. No. 258,509. HERMAN A. SMITH, doing business as Universal Plow and Foundry Company, Florence, S. C. Filed Dec. 5, 1927.

UNIVERSAL

Particular description of goods.—Plows and Parts Thereof.
Claims use since on or about Sept. 1, 1918.

Ser. No. 258,790. THE ARMSTRONG MFG. CO., Bridgeport, Conn. Filed Dec. 12, 1927. Under section 5b of the act of 1905 as amended in 1920.

ARMSTRONG

Particular description of goods.—Stocks and Dies for Pipes, Bolts, and Rods; Bushings, Collars, and Handles for Stocks; Nipple Holders, Rackets and Racket Attachments for Stocks, Hand and Power Pipe-Threading Machines, Cutting Machines and Parts Therefor, Ceiling Nipple Threader, Hack-Saw Gauge Blocks, Pipe Cutters, Pipe-Cutter Wheels, Reamers, Taps, Vises, Vise Jaws, Wrenches, Pipe Rests, Countershafts, and Pulleys.
Claims use since Jan. 1, 1875.

Ser. No. 259,971. SERVICE STATION EQUIPMENT COMPANY, Bryan, Ohio. Filed Jan. 11, 1928.

ECO

The lining appearing upon the letters is for the purpose of shading only.
Particular description of goods.—Combination Automatic Mechanical Lift and Service Rack for Automobiles and the Like.
Claims use since January, 1927.

Ser. No. 260,300. UNIVERSAL MOTOR COMPANY, Oshkosh, Wis. Filed Jan. 18, 1928.

Universal

The ruling in the drawing represents the color red.
Particular description of goods.—Internal-Combustion Engines for Marine or Stationary Use or for Power Purposes in Any Combination and Pumping Outfits.
Claims use since January, 1925.

Ser. No. 260,601. UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Jan. 24, 1928.

THIRTY-FIVE-SEVEN

Particular description of goods.—Sewing Machines.
Claims use since on or about July 1, 1927.

Ser. No. 261,038. BRAGG-KLIESRATH CORPORATION, New York and Long Island City, N. Y. Filed Feb. 2, 1928.

THE SEAL OF Booster Brake SAFER DRIVING

Applicant disclaims the word "Brake" per se.
Particular description of goods.—Power Actuators for Operating Brake Mechanism, Steering Mechanism, Clutch Mechanism, of Automotive Land Vehicles, Boats, and Aircraft.
Claims use since March, 1926.

Ser. No. 261,700. CONSOLIDATED MACHINE TOOL CORPORATION OF AMERICA, Rochester, N. Y. Filed Feb. 15, 1928. Under 10-year proviso.

HILLES & JONES

Particular description of goods.—Punches, Shears, Bending and Straightening Rolls, Flanging Clamps, and Plate Planers.
Claims use since 1854.

Ser. No. 262,533. SPRUCOLITE CORPORATION, Bloomfield, N. J. Filed Mar. 2, 1928.

SPRUCOLITE

Particular description of goods.—Machinery Parts as Follows: Pulleys, Gears, Rolls, Wheels, and Blocks for Eliminating Noise and Vibration.
Claims use since Feb. 1, 1928.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 206,615. THE FAVORITE-APPARATEBAU-GESELLSCHAFT M. B. H., Berlin, Germany. Filed Dec. 12, 1924.

Gyrorector

Particular description of goods.—Physical, Optical, Geodetical, Nautical, Electrotechnical Instruments.
Claims use since July, 1924.

Ser. No. 261,214. SENTRY SAFETY CONTROL CORPORATION, Philadelphia, Pa. Filed Feb. 4, 1928.

SENTRY

Particular description of goods.—Motion-Picture-Projecting Machines.
Claims use since September, 1926.

Ser. No. 261,490. DAY-NITE, INC., Waukesha, Wis. Filed Feb. 10, 1928.

DAY NITE

Particular description of goods.—Headlight-Testing Photometers.
Claims use since middle of November, 1927.

CLASS 27.

Horological Instruments.

Ser. No. 260,683. HIPP. DIDISHEIM CO., INC., New York, N. Y. Filed Jan. 26, 1928.

DURAWITE

Particular description of goods.—Watches, Watchcases, Watch Movements, and Parts Thereof.
Claims use since about Dec. 1, 1927.

Ser. No. 262,479. ORO WATCH CO., New York, N. Y. Filed Mar. 1, 1928.

GLACIER

Particular description of goods.—Watches and Watch Movements.
Claims use since on or about Feb. 1, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 244,341. ALPHA DELTA PI, Ames, Iowa. Filed Feb. 14, 1927.

ΑΔΠ

Particular description of goods.—Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since March, 1917.

Ser. No. 244,376. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky. Filed Feb. 14, 1927. Under section 5b of the act of 1905 as amended in 1920.

Wadsworth

Particular description of goods.—Belt Buckles, Strap Buckles, and Metal Wrist-Watch Straps Made of or Plated with Precious Metal.
Claims use since May 1, 1925, on belt buckles, and since June 1, 1926, on metal wrist-watch straps and strap buckles.

Ser. No. 255,045. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y. Filed Sept. 21, 1927.



Particular description of goods.—Jewelry for Personal Use or Adornment Consisting of Finger Rings, Earrings, Bracelets, Pendants, Necklaces, Watch Bracelets, Bags, Brooches, Buckles, Bar Pins, Cuff Links, Lorgnettes, Studs, Scarf Pins, Hatpins, Vest Buttons, and Handy Pins, All Made of or Plated with Precious Metal.
Claims use since Nov. 1, 1926.

Ser. No. 260,006. ENGLAND, KLEIN & LEVY, INCORPORATED, New York, N. Y. Filed Jan. 12, 1928.

E.K&L

Particular description of goods.—Finger Rings, Finger Ring Mountings, Scarf Pins, Brooches, Bar Pins, Pendants, and Clasps.
Claims use since Mar. 1, 1918.

Ser. No. 260,121. HAMILBURG-SHAW CORPORATION, New York, N. Y. Filed Jan. 14, 1928.

H.S.

Particular description of goods.—White-Gold and Platinum Finger Rings, Bar Pins, and Bracelets.
Claims use since June 28, 1925.

Ser. No. 260,242. REINER & BERKOW, INC., New York, N. Y. Filed Jan. 17, 1928.

R&B

Particular description of goods.—Bracelets, Brooches, Bar Pins, Charms, Neck Chains, Cameos, Emblem Jewelry of Precious Metal, Lockets, Earrings, Stick Pins, and Pendants.
Claims use since Jan. 3, 1928.

Ser. No. 261,072. LESTER W. NERNEY, doing business as The Knobby Krafters, Attleboro, Mass. Filed Feb. 2, 1928.

KNOBBY KRAFT

Particular description of goods.—Bracelets, Brooches, Lingerie Fasteners, Cuff Pins, Bar Pins, Neck Chains, Pendants, Finger Rings, Cuff Links, Bib Holders, Compact Cases, Napkin Rings, Collar Buttons, Stick Pins, Watch Chains, and Belt Buckles, All Made of Precious Metal.
Claims use since Feb. 1, 1926.

Ser. No. 261,144. QUALITY JLT. CO., New York, N. Y. Filed Feb. 3, 1928.



Particular description of goods.—Platinum Jewelry for Personal Wear, Not Including Watches.
Claims use since February, 1924.

Ser. No. 261,411. WEINMAN BROS. AND SCHER, New York, N. Y. Filed Feb. 8, 1928.

WBS

Particular description of goods.—Finger Rings.
Claims use since Jan. 10, 1928.

Ser. No. 261,777. STRAUSS & STRAUSS, New York, N. Y. Filed February 16, 1928.

SANDS

Particular description of goods.—Finger Rings.
Claims use since Jan. 20, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 260,952. MARCUS BRUSH CO. INC., New York, N. Y. Filed Jan. 31, 1928.

RED  MAN

Particular description of goods.—Paintbrushes.
Claims use since Feb. 1, 1926.

CLASS 31.

Filters and Refrigerators.

Ser. No. 260,666. ALCO VALVE COMPANY, St. Louis, Mo. Filed Jan. 26, 1928.



Particular description of goods.—Control Valve, a Water-Regulating Valve, and an Ammonia Filter for Refrigerating Apparatus.
Claims use since Apr. 15, 1927.

Ser. No. 261,527. SERVEL, INC., Evansville, Ind. Filed Feb. 10, 1928.



No claim is made for the words "Electric Refrigeration."
Particular description of goods.—Mechanical Refrigerators, Mechanical-Refrigerating Parts, and Refrigerating Systems.
Claims use since about Jan. 1, 1923.

CLASS 32.

Furniture and Upholstery.

Ser. No. 253,812. MAESTRO METAL PRODUCTS CO., INC., Jamestown, N. Y. Filed Aug. 22, 1927.



The shading on the letters of the word "Revolvador" designates the color green. No claim is made to the words "Cabinet" and "Jamestown, N. Y." apart from the mark as shown in the drawing.
Particular description of goods.—Portable Medicine Cabinets.
Claims use since Nov. 1, 1926.

Ser. No. 258,810. GENERAL JAPANNING & ENAMELING CORPORATION, New York, N. Y. Filed Dec. 12, 1927.



Representation of the goods and the right to the exclusive use of all the words except applicant's corporate name shown in the drawing of the mark are disclaimed.
Particular description of goods.—Radiator Cabinets.
Claims use since July 1, 1926.

Ser. No. 259,421. POSTINDEX COMPANY INC., Jamestown, N. Y. Filed Dec. 28, 1927.

POSTINDEX

Particular description of goods.—File Cabinets.
Claims use since September, 1922.

Ser. No. 259,682. HUMPTY DUMPTY STOOP-NO-MORE STORES, INC., Wilmington, Del., and McAllen, Tex. Filed Jan. 4, 1928.



The words or phrase "Introducing Special Selections" is not claimed apart from the other features of the mark.
Particular description of goods.—Display Trays for Introducing Special Selections of Merchandise in Stores.
Claims use since June 12, 1927.

Ser. No. 260,123. HUMPTY DUMPTY STOOP-NO-MORE STORES, INC., Wilmington, Del., and McAllen, Tex. Filed Jan. 14, 1928.



Particular description of goods.—Advertisement-Holding Frames.
Claims use since June 12, 1927.

Ser. No. 262,390. BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Feb. 20, 1928.

Luxease

Particular description of goods.—Mattresses, Pillows, Cushions, and Box Springs.
Claims use since Aug. 11, 1920.

Ser. No. 262,541. HENRY WILHELM, Snyder, Tex. Filed Mar. 2, 1928.

HANDE-DANDE

Particular description of goods.—Store Furniture—Namely, Counters, Shelving, and Show Cases.
Claims use since Nov. 1, 1927.

CLASS 33.

Glassware.

Ser. No. 257,042. PAUL W. WAGENSELLER, doing business as Specialty Glass Co., Chicago, Ill. Filed Nov. 8, 1927.



No claim of exclusive appropriation is made to the word "Glassware" nor to the phrase "The Mark of Distinction" per se.
Particular description of goods.—Glassware for Chemical, Laboratory, and Scientific Purposes—Namely, Glass Tubes, Rods, Bulbs, Balloons, and Tubular and Bulbous Containers and Utensils Including Siphons, Pipettes, Condensers, Adapters, Calcium-Chloride Tubes, Arsenic Tubes, Absorption Tubes, Thistle Tubes, Fermentation Tubes, Carbon Fitter Tubes, Funnel Tubes, Gas-Collecting Tubes, Reduction Tubes, Extraction Tubes, Connection Tubes, Vapor-Density Tubes, Capillary Tubes, Pressure Tubes, Boyle's Law Tubes, Balancing Column Tubes, Resonance Tubes, Resistance Tubes, Stopcock Tubes, Water or Steam Trap Tubes, Barometer Tubes, Thermometer Tubes, Gage Tubes, Hydrometer Tubes, Manometer Tubes, and Tube Arms; Glass Parts for Laboratory Apparatus for Determining Combustion of Gases, for Extraction Apparatus, for Sulphur Apparatus, for Vapor-Density Apparatus, for Dew-Point Apparatus, for Water Electrolysis Apparatus, and Glass Bottles.
Claims use since July 1, 1926.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 254,384. CRIBBEN & SEXTON CO., Chicago, Ill. Filed Sept. 6, 1927.

IN-A-DRAWER

Particular description of goods.—Gas Ranges and Parts Thereof.
Claims use since Nov. 20, 1926.

Ser. No. 261,582. MERCHANT & EVANS COMPANY, Philadelphia, Pa. Filed Feb. 11, 1928.



Particular description of goods.—Gravity Roof Ventilators.
Claims use since 1899.

CLASS 35.

Belting, Hose, Machinery Packing, and Nonmetallic Tires.

Ser. No. 259,151. WALKER AND FORBES, INC., Mamaroneck, N. Y. Filed Dec. 19, 1927.

METALFLEX

Particular description of goods.—Stuffing-Box Packing of a Semimetallic Nature.
Claims use since June 9, 1927.

Ser. No. 261,957. GRATON & KNIGHT COMPANY, Worcester, Mass. Filed Feb. 20, 1928. Under 10-year proviso.

Graton & Knight

Particular description of goods.—Belts and Belting Such as Round Belting, Twist Belting, Folded Twist Belting, Built-Up Round Belting, V Belting, Laminated V Belting, Block V Belting, Link V Belting, Automobile Fan Belting, and Shafting Rings, Diaphragms, Discs, Gaskets, Washers, and Packing, All of Leather.
Claims use since 1851.

CLASS 36.

Musical Instruments and Supplies.

Ser. No. 157,268. GENERAL PHONOGRAPH CORPORATION, New York, N. Y., assignor to Okeh Phonograph Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1921.

OKeh

Particular description of goods.—Talking-Machine and Phonograph Records.
Claims use since September, 1920.

Ser. No. 257,712. SPLITDORF RADIO CORPORATION, Newark, N. J. Filed Nov. 17, 1927.

SPLITDORF

Particular description of goods.—Phonographs and Non-Electric Phonographic Reproducers.
Claims use since Aug. 15, 1927.

Ser. No. 261,073. JOSEPH W. NICOMEDE, doing business as Nicomede Music Co., Altoona, Pa. Filed Feb. 2, 1928.

RED ARROW

Particular description of goods.—Banjo and Mandolin Picks.
Claims use since Dec. 1, 1927.

Ser. No. 261,867. WILLIAM L. LANGE, New York, N. Y. Filed Feb. 8, 1928.

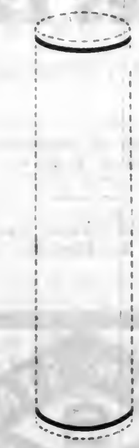


The drawing is lined to indicate the color blue.
Particular description of goods.—Banjos, Banjo Ukuleles, Banjo Mandolins, Mandolins, Guitars, Ukuleles, Violins, Violas, Violoncellos, Double Basses, Banjo Harps and Strings, Tailpieces, Keys, and Bridges Therefor.
Claims use since May 6, 1926.

CLASS 37.

Paper and Stationery.

Ser. No. 252,167. PIONEER PAPER COMPANY, Los Angeles, Calif. Filed July 16, 1927.



The representation of the roll of paper shown in the dotted lines on the drawing is hereby specifically disclaimed in connection with the mark. The mark which consists of a narrow band of red colored paper is transversely applied or affixed to the cylindrical exterior surface of the rolls of goods adjacent each end.
Particular description of goods.—Mulch Paper.
Claims use since May 19, 1927.

Ser. No. 256,579. PACIFIC NORTHWEST PAPER MILLS, INC., Portland, Oreg. Filed Oct. 25, 1927.

SURETY SAFETY

No claim is made for the word "Safety" except as associated with the other features of the mark.
Particular description of goods.—Safety Paper for Bank Checks, Drafts, and Similar Uses.
Claims use since about Sept. 17, 1924.

Ser. No. 258,846. VILLA MORET, INC., San Francisco, Calif. Filed Dec. 12, 1927.

FILM-O-KLOCK

Particular description of goods.—Timing and Cueing Pads for Musicians.
Claims use since Sept. 1, 1927.

Ser. No. 261,541. WAYAGAMACK PULP & PAPER COMPANY, LIMITED, Three Rivers, Canada. Filed Feb. 10, 1928.



Particular description of goods.—Newsprint Paper.
Claims use since December, 1925.

Ser. No. 262,270. STRANSKY PRODUCTS CORP., New York, N. Y. Filed Feb. 25, 1928.

SIMPLEX

Particular description of goods.—Mailing Envelopes.
Claims use since about January, 1920.

CLASS 38.

Prints and Publications.

Ser. No. 244,064. WILL J. ECKER, Jr., St. Louis, Mo. Filed Feb. 9, 1927.

GRAVEN
Friendship's Token Cloth
GREETINGS

Applicant disclaims the word "Cloth" and "Graven Greetings" appearing on the drawing apart from the mark shown.
Particular description of goods.—Greeting Cards. Printed Books, and Booklets.
Claims use since Jan. 28, 1927.

Ser. No. 256,344. HOUSEHOLD GUIDE CORPORATION, New York, N. Y. Filed Oct. 20, 1927.



Particular description of goods.—Publication Issued Monthly.
Claims use since Oct. 8, 1927.

Ser. No. 258,093. THE NATIONAL WOOL GROWERS ASSOCIATION, Salt Lake City, Utah. Filed Nov. 26, 1927.

The NATIONAL WOOL GROWER

Particular description of goods.—Periodical.
Claims use since Mar. 1, 1911.

Ser. No. 258,403. THE DAILY PANTAGRAPH, Bloomington, Ill. Filed Dec. 3, 1927.

THE DAILY BULLETIN

Particular description of goods.—Daily Newspapers Devoted to Matters of General and Current Public Interest.
Claims use since Feb. 8, 1881.

Ser. No. 260,675. CONOVER-MAST CORPORATION, New York, N. Y. Filed Jan. 26, 1928.

MILL & FACTORY ILLUSTRATED
Methods-Equipment-Supplies

No claim is made to the words "Methods—Equipment—Supplies" apart from the mark shown in the drawing.
Particular description of goods.—Monthly Periodical or Trade Paper.
Claims use since Jan. 15, 1928.

Ser. No. 260,677. THE EDITOR & PUBLISHER CO., New York, N. Y. Filed Jan. 26, 1928.

EDITOR & PUBLISHER
THE FOURTH ESTATE

Particular description of goods.—Newspapers Issued Weekly.
Claims use since Dec. 8, 1927.

Ser. No. 261,398. THE SPALDING PUBLICATIONS, INC., Mount Morris, Ill. Filed Feb. 8, 1928.

Sales Tales

Particular description of goods.—Monthly Magazine.
Claims use since Jan. 1, 1928.

Ser. No. 261,481. BLUE DIAMOND TRADING STAMP COMPANY, Rochester, N. Y. Filed Feb. 10, 1928.



No claim is made to the words "Trading Stamp 10¢" apart from the mark as shown.
Particular description of goods.—Trading Stamps.
Claims use since Jan. 27, 1928.

Ser. No. 261,519. MESSENGER PUBLISHING COMPANY, Chicago, Ill. Filed Feb. 10, 1928.



No claim is made to the word "Calendar" apart from the mark shown in the drawing.
Particular description of goods.—Wall Calendar.
Claims use since Jan. 15, 1928.

Ser. No. 261,679. THE PACIFIC LEGION, INC., Portland, Oreg. Filed Feb. 14, 1928.

THE PACIFIC LEGION

The cross-lining on the drawing is not for the purpose of claiming color, but for shading only.
Particular description of goods.—Monthly Magazine.
Claims use since July, 1919.

Ser. No. 261,695. IRVING L. BROWN, doing business as American Homes Bureau, Chicago, Ill. Filed Feb. 15, 1928.

THE FURNITURE MANUFACTURERS' REFERENCE CATALOG

Particular description of goods.—Annual Publication Consisting of a Classified Index of Products and a Group of Trade Articles of Interest to the Furniture Trade as Well as Advertisements of the Different Furniture Manufacturers.
Claims use since on or about March, 1927.

Ser. No. 261,818. THE KODEL RADIO CORPORATION, Cincinnati, Ohio. Filed Feb. 17, 1928.

Socket Power News

Particular description of goods.—Periodical Publications.
Claims use since May 1, 1927.

Ser. No. 261,867. THE EDITOR & PUBLISHER CO., New York, N. Y. Filed Feb. 18, 1928.

INTERNATIONAL YEAR BOOK

Particular description of goods.—Annual Newspaper Journals.
Claims use since January, 1921.

Ser. No. 261,868. THE EDITOR & PUBLISHER CO., New York, N. Y. Filed Feb. 18, 1928.

SPACE BUYERS' GUIDE

Particular description of goods.—Newspaper Journals Issued from Time to Time.
Claims use since 1924.

Ser. No. 261,869. THE EDITOR & PUBLISHER CO., New York, N. Y. Filed Feb. 18, 1928.

MARKET GUIDE

Particular description of goods.—Annual Newspaper Journals.
Claims use since 1926.

Ser. No. 261,967. LEFAX, Philadelphia, Pa. Filed Feb. 20, 1928.

BUYERS' DATA

Particular description of goods.—Periodical Issues of Technical and Commercial Leaflets.
Claims use since January, 1927.

Ser. No. 262,285. THE BRONX BOARD OF TRADE, INC., New York, N. Y. Filed Feb. 27, 1928.

BRONXBORO

Particular description of goods.—Periodical.
Claims use since May, 1923.

Ser. No. 262,380. THE PORCELAIN ENAMEL AND MANUFACTURING COMPANY, Baltimore, Md. Filed Feb. 28, 1928.

The AMERICAN ENAMELER

Particular description of goods.—Monthly Magazine.
Claims use since Feb. 25, 1928.

Ser. No. 262,392. CARBONE, INCORPORATED, Boston, Mass. Filed Feb. 29, 1928.

The SHARD

Particular description of goods.—Monthly Publications.
Claims use since Feb. 1, 1928.

Ser. No. 262,399. M. P. GOULD COMPANY, INC., New York, N. Y. Filed Feb. 29, 1928.

Puzzler

Particular description of goods.—House Organ.
Claims use since May, 1904.

Ser. No. 262,432. TIMES PUBLISHING CO., Detroit, Mich. Filed Feb. 29, 1928.

SIDEWALKS OF DETROIT

Particular description of goods.—Newspaper Section.
Claims use since on or about Dec. 17, 1925.

Ser. No. 262,498. JOHN THOMAS WOOD, New York, N. Y., and Springfield, Mass. Filed Mar. 1, 1928.

TROPICAL ADVENTURES

Particular description of goods.—Monthly Magazine.
Claims use since Feb. 10, 1928.

Ser. No. 262,591. BOARD OF TRUSTEES OF THE PHILADELPHIA MUSEUMS, doing business as Philadelphia Commercial Museum, Philadelphia, Pa. Filed Mar. 5, 1928.

REVISTA AUTOMOTOR

Particular description of goods.—Monthly Magazine.
Claims use since on or about Jan. 1, 1928.

Ser. No. 262,595. CALIFORNIA FARM LAND BUREAU, Los Angeles, Calif. Filed Mar. 5, 1928.



Particular description of goods.—Monthly Publication.
Claims use since Feb. 6, 1928.

Ser. No. 262,621. NEA SERVICE, INC., Cleveland, Ohio. Filed Mar. 5, 1928.

SIDE GLANCES

Particular description of goods.—Comic Strip.
Claims use since Jan. 7, 1928.

Ser. No. 262,638. WESTERN BUSINESS PAPERS, INC., Los Angeles, Calif. Filed Mar. 5, 1928.

WESTERN GAS

Particular description of goods.—Monthly Magazine.
Claims use since on or about May, 1925.

Ser. No. 262,654. B. D. MARX GREENE, San Francisco, Calif. Filed Mar. 6, 1928.



Particular description of goods.—Magazines, Magazine Articles, and Newspaper Articles.
Claims use since Dec. 31, 1927.

CLASS 39.

Clothing.

Ser. No. 170,811. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Oct. 17, 1922.

PROTEX

Particular description of goods.—Sweaters and Bathing Suits.
Claims use since June 1, 1922.

Ser. No. 236,039. IDEAL SHOE MFG. CO., Milwaukee, Wis. Filed Aug. 16, 1926.

Classmates

Applicant owns registration Nos. 37,402 and 56,631.
Particular description of goods.—Shoes Made of Leather, Rubber, Fabric, or Combinations of Such Materials.
Claims use since about Sept. 16, 1923.

Ser. No. 239,036. THE KAHLER SHOE CO. INC., New York, N. Y. Filed Oct. 22, 1926.

THE "R&L" STOCKING



No claim is made to the exclusive use of the word "Stocking" apart from the mark shown on the drawing.
Particular description of goods.—Hosiery.
Claims use since about 1868.

Ser. No. 243,883. L. W. PRAGER & SON, New York, N. Y. Filed Feb. 5, 1927.



The lines shown on the drawing are intended to indicate shading only. The words "Fashion Creators" and "Designed on Fifth Ave." are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Overcoats and Topcoats for Men, Young Men, and Boys.
Claims use since Aug. 1, 1926.

Ser. No. 247,257. BLOSSOM PRODUCTS, INC., New York, N. Y. Filed Apr. 11, 1927.

Blossom

Particular description of goods.—Union Suits of Knitted and Woven Fabrics and Pajamas for Men, Women, and Children; Bathing Suits, Gymnasium Bloomers, Running Pants, Rompers, and Creepers.
Claims use since on or about Aug. 18, 1924.

Ser. No. 255,650. FIELD GLOVE COMPANY, Bloomington, Ind. Filed Oct. 5, 1927.



Particular description of goods.—Men's Work Gloves Made of Common Cotton Cloth, Special Elastic Cotton Cloth, and Duck.
Claims use since July 19, 1927.

Ser. No. 256,720. EDSON KEITH-CHICAGO MERCANTILE COMPANY, Chicago, Ill. Filed Oct. 28, 1927.



The words "Paris" and "Chicago," are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Ladies' Hats.
Claims use since Sept. 1, 1927.

Ser. No. 257,408. ILONA K. GROSS, doing business as Ilona Mfg. Co., San Francisco, Calif. Filed Nov. 11, 1927.



Ilona

Particular description of goods.—Women's and Misses' Coats, Hats, Suits, Scarfs, Nightgowns, and Pajamas; Men's, Women's, and Children's Hosiery and Knitted Underwear.
Claims use since June 2, 1925.

Ser. No. 257,582. A. J. IZOD, LIMITED, London, England. Filed Nov. 15, 1927.

Dozi

Particular description of goods.—Outer Vests for Hunting, Golfing, and Sport Wear and Negligee and Sport Shirts.
Claims use since January, 1927.

Ser. No. 258,624. FRANK G. DELBON, Brooklyn, N. Y. Filed Dec. 8, 1927.



The right to the exclusive use of the words "Hygienic" and "Support" and the pictorial representation of the shoe sole and shoe shank appearing on the drawing are hereby disclaimed except in association with the trade-mark "Turntarsal."

Particular description of goods.—Leather Shanks and Combined Leather Shanks of Leather and Metal for Use in Shoes.

Claims use since about Oct. 10, 1927.

Ser. No. 259,484. CHARLES A. EATON COMPANY, Brockton, Mass. Filed Dec. 30, 1927.



Applicant owns registration No. 203,269. The word "Sterling" is disclaimed apart from the other features of the mark shown in the drawing.

Particular description of goods.—Leather, Rubber, or Fabric or Combinations of Such Materials.

Claims use since Dec. 10, 1927.

Ser. No. 259,497. LA MAROQUINERIE NATIONALE, SOC. AME, Brussels, Belgium. Filed Dec. 30, 1927.

MANA

Particular description of goods.—Gloves of Leather.

Claims use since January, 1925.

Ser. No. 259,556. HIXBIE & CO. INC., New York, N. Y. Filed Dec. 31, 1927.

Hixbie

Particular description of goods.—Hats, Caps, Suits, Coats, and Knickers for Men, Women, Misses, and Children; Neckties, Scarfs, Collars, Dresses, Skirts for Under and Outer Wear, Hosiery, Sweaters, Smocks, Pajamas, Capes, Gowns, Both Nightgowns and in the Nature of Dresses, Garters, Aprons for Household Use, Petticoats, Bathing Suits, Vests for Under and Outer Wear; Underwear of Knitted, Netted, and Textile Fabrics; Belts for Outer Wear and in the Nature of Garment Supporters; Shoes of Leather, Cloth, or Both; Gloves Made of Kid, Washable Kid, Suede and Washable Suede, Doeskin, Chamois, Capeskin, Goatskin, Pigskin, Mocha, Wool, Cotton, Leather, and Fur; Bath Robes, Infants' Wear Particularly Infants' Dresses, Caps, Coats, Capes, Bath Robes, Bootees, Mittens, Rompers, Leggings, Nightgowns, Socks, and Panties, All Made of Silk, Cotton, Wool and Knitted Goods; Rubbers, Fur Coats, Caps, Hats, Capes, Wraps, Scarfs, and Chokers for Men, Women, Misses, and Children, and Fur Muffs.

Claims use since September, 1923.

Ser. No. 260,083. CEDAR GROVE SHOE MFG. CO., Cedar Grove, Wis. Filed Jan. 14, 1928.

JUNIOR CHUMS

Particular description of goods.—Shoes of Leather, Rubber, Fabric, and Combinations Thereof.

Claims use since May, 1927.

Ser. No. 260,549. THE E. V. BENJAMIN COMPANY, INC., doing business as Maginnis Cotton Mills, New Orleans, La. Filed Jan. 24, 1928.

PA
MAGINNIS

The use of the word "Maginnis" is disclaimed apart from the mark shown.

Particular description of goods.—Work Shirts, Overalls, Jackets, Pants, Suits, Vests, Coats, Jumpers, One-Piece Work Suits, Coveralls, and Play Suits for Men and Children.

Claims use since on or about Jan. 1, 1928.

Ser. No. 260,942. THE GRAFF COMPANY, INC., New York, N. Y. Filed Jan. 31, 1928.



The word "Clothes" is disclaimed apart from the mark shown in the drawing. The drawing is lined for color, but color is not an essential feature of the trade-mark.

Particular description of goods.—Men's Suits.

Claims use since Oct. 28, 1927.

Ser. No. 261,016. THE OUTLET COMPANY, Providence, R. I. Filed Feb. 1, 1928.

HALLBROOK

Particular description of goods.—Men's Clothing—Namely, Suits, Overcoats, and Raincoats.

Claims use since Dec. 27, 1927.

Ser. No. 261,025. RUDOLPH VRABEK, New York, N. Y. Filed Feb. 1, 1928.



No claim is made to the words "Trade-Mark" and "Protect Your Health & Stockings" and to the representation of the goods apart from the mark shown on the drawing.

Particular description of goods.—Waterproof Hosiery.

Claims use since Jan. 1, 1928.

Ser. No. 261,066. KORNHANDLER & KANE, INC., New York, N. Y. Filed Feb. 2, 1928.

THE
DRESS
OF THE
MONTH
Club

No claim is made to the word "Dress" apart from the mark shown in the drawing.

Particular description of goods.—Misses', Women's, and Children's Dresses.

Claims use since Jan. 2, 1928.

Ser. No. 261,074. PARADISE & SOLOVE, Chicago, Ill. Filed Feb. 2, 1928.

TRUMP

Particular description of goods.—Overalls, Coveralls, Work Coats, for Men's Wear, Jackets, and Children's Play Suits.

Claims use since Jan. 6, 1928.

Ser. No. 261,504. THE GEE COMPANY, New York, N. Y. Filed Feb. 10, 1928.



Applicant disclaims the right to the exclusive use of the words "First Prize" apart from the trade-mark shown in the drawing.

Particular description of goods.—Men's Clothing—Namely, Overcoats, Coats, Topcoats, Suits, Vests, and Trousers.

Claims use since Jan. 4, 1928.

Ser. No. 262,092. KORNHANDLER & KANE, INC., New York, N. Y. Filed Feb. 23, 1928.

Piping Rock

Particular description of goods.—Ladies' and Misses' Dresses.

Claims use since June, 1925.

Ser. No. 262,403. JOHNSTON DRY GOODS CO., Birmingham, Ala. Filed Feb. 29, 1928.

STRAIGHT 8 EIGHT

Particular description of goods.—Overalls, Coveralls, Work Shirts, and Pants.

Claims use since Sept. 1, 1927.

Ser. No. 262,476. MOUNTAIN CITY KNITTING MILLS, Chattanooga, Tenn. Filed Mar. 1, 1928.

STEP AHEAD

Particular description of goods.—Hosiery.

Claims use since Feb. 10, 1928.

CLASS 40.

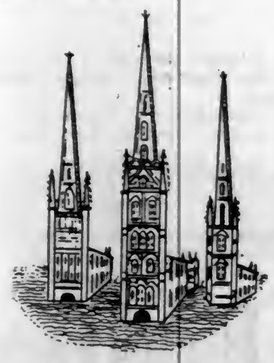
Fancy Goods, Furnishings, and Notions.

Ser. No. 260,693. E. MORRIS MFG. CO., Detroit, Mich. Filed Jan. 26, 1928.

CERTIFYD

Particular description of goods.—Toilet Combs of Rubber, Celluloid, and Horn.
Claims use since Apr. 1, 1927.

Ser. No. 261,861. J. & J. CASH, INC., South Norwalk, Conn. Filed Feb. 18, 1928.



Particular description of goods.—Woven Labels of Cotton and Silk.
Claims use since 1860.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 257,055. COUDURIER, FRUCTUS & DESCHER, Lyon, France. Filed Nov. 4, 1927.

BALLERINE

Particular description of goods.—Silks and Metal and Velvets and Metal in the Piece.
Claims use since Sept. 30, 1911.

Ser. No. 258,586. PANAMA MFG. CO., INC., New York, N. Y. Filed Dec. 7, 1927.

PANADINE

Particular description of goods.—Cotton and Woolen Piece Goods and Combinations.
Claims use since July 22, 1926.

Ser. No. 259,118. MAX KAUFMANN & CO. INC., New York, N. Y. Filed Dec. 19, 1927.

LOOX LYN

Particular description of goods.—Cotton Piece Goods.
Claims use since August, 1927.

Ser. No. 259,756. BARTH & GUTTMAN, New York, N. Y. Filed Jan. 6, 1928.



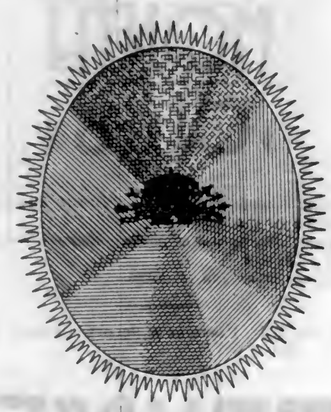
The drawing shows the trade-mark with conventional shading representing the colors gold, green, and red. Color, however, is not an essential feature of the trade-mark, and no claim for registration as a trade-mark of said colors is herein made. Exclusive right to the words "Zamberk," "Trade-Mark Registered," and "Made in Czechoslovakia" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 25, 1927.

Ser. No. 260,904. NATIONAL HAIR CLOTH CO., New York, N. Y., and Philadelphia, Pa. Filed Jan. 30, 1928.

WOOLSEAL

Particular description of goods.—Piece Goods for Interlinings of Wool and Combinations of Cotton and Wool.
Claims use since about 1916.

Ser. No. 261,096. BATES MANUFACTURING COMPANY, Lewiston, Me. Filed Feb. 3, 1928.



The trade-mark consists of the colors of the spectrum, arranged radially on an oval field within a corona, in the center of which is the representation of a crown with the word "Bates" superposed.
Particular description of goods.—Cotton Piece Goods and Bedspreads.
Claims use since about Aug. 1, 1926.

Ser. No. 261,926. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 18, 1928.



Particular description of goods.—Tablecloths; Scarfs for Tables, Sideboards, Dressers and Bureaus Made from Textile Fabrics; Pillow Tubing, Pillowcases, and Pillow Covers Made from Textile Fabrics; Towels Made from Textile Fabrics; Curtains Made from Cotton Piece Goods Known as Dimity, Which Curtains are Not in the Nature of Made-Up Shades.
Claims use since July 28, 1926.

Ser. No. 262,822. G. SIDENBERG & CO. INC., New York, N. Y. Filed Mar. 8, 1928.

IDLE HOUR

Particular description of goods.—Cotton Piece Goods, Silk Piece Goods, Silk and Cotton Mixed Piece Goods, and Piece Goods Made Wholly or Partly of Artificial Silk.
Claims use since Feb. 1, 1928.

Ser. No. 262,906. N. ERLANGER, BLUMOART & CO., INC., New York, N. Y. Filed Mar. 10, 1928.

EARL-GLO

Particular description of goods.—Piece Goods Made of Cotton, Artificial Silk, Silk, and Combinations Thereof.
Claims use since February, 1927.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 244,875. Dr. RODNEY MADISON, doing business as Dr. Rodney Madison Laboratories, Los Angeles, Calif., assignor to The Dr. Rodney Madison Laboratories, Incorporated. Filed Feb. 25, 1927.

Dr. Rodney Madison's
VITRONA

Particular description of goods.—Electric or Magnetic Belts, Solenoids, and Bipolas Applicators for Use in Applying Magnetism, Heat, or Vibrations to the Human Body.
Claims use since Feb. 19, 1927.

Ser. No. 253,322. THE FASTIDIOUS COMPANY, San Francisco, Calif. Filed Aug. 11, 1927.

TRADE
"DAINTY-BATH"
MARK

The words "Trade-Mark" on the drawing are disclaimed.
Particular description of goods.—Bidets.
Claims use since July 15, 1927.

Ser. No. 260,915. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Jan. 30, 1928.

SYSTEM

Particular description of goods.—Arch Supports.
Claims use since Dec. 15, 1927.

Ser. No. 260,916. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Jan. 30, 1928.

SILVERFLEX

Particular description of goods.—Arch Supports.
Claims use since Dec. 15, 1927.

Ser. No. 260,917. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Jan. 30, 1928.

FLEXRITE

Particular description of goods.—Arch Supports.
Claims use since Nov. 1, 1913.

Ser. No. 262,295. HAROLD L. DE BAR, Los Angeles, Calif. Filed Feb. 27, 1928.

PROTEXU

Particular description of goods.—Vaginal Syringes and Ointment Applicators.
Claims use since June 1, 1927.

Ser. No. 262,333. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Feb. 27, 1928.

Tru-Span

Particular description of goods.—Arch Supports.
Claims use since Sept. 1, 1913.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 258,249. BETHESDA MINERAL SPRING COMPANY, Waukesha, Wis. Filed Dec. 1, 1927.

BETHESDA
THE ORIGINAL WAUKESHA WATER

No claim is made to the words "The Original Waukesha Water" apart from the mark as shown on the drawing.
Particular description of goods.—Natural Mineral Spring Water.
Claims use since June 7, 1900.

Ser. No. 259,336. RICHARDSON CORPORATION, Rochester, N. Y. Filed Dec. 24, 1927.

LIBERTY

Particular description of goods.—Nonalcoholic, Maltless Beverages Consisting of Root Beer and Root-Beer Syrup, Ginger Ale and Ginger-Ale Syrup, Orangeade and Orangeade Syrup, Orange Syrup, Pineapple Syrup, Loganberry Syrup, Lime Syrup, Lemon Syrup, Grape Syrup, Cherry Syrup, Sold as or for the Making of Soft Drinks.
Claims use since July 29, 1918.

Ser. No. 259,926. ROBERT WRIGHT SAYER, Atlanta, Ga. Filed Jan. 10, 1928.

RED-AID

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Extracts for Making the Same.
Claims use since Dec. 11, 1927.

CLASS 46.

Foods and Ingredients of Foods.

Ser. No. 200,795. WOOD CURTIS COMPANY, Sacramento, Calif., assignor to A. Levy & J. Zentner Co., a Corporation of California. Filed July 31, 1924.



Particular description of goods.—Fresh Vegetables, Including Carrots, Beets, Turnips, Onions, Potatoes, Cauliflower, Cabbage, Cucumbers, Green Corn, Parsley, Peppers, Artichokes, Lettuce, Beans, Eggplant, Squash, Celery, Peas, Radishes, Spinach, Sprouts, Rhubarb, Pumpkins, Garlic, Sweet Potatoes, Tomatoes, and Asparagus; Dried Fruits, Fresh Citrus Fruits; Fresh, Canned, and Dried Deciduous Fruits; Eggs; Fresh, Canned, and Dried Berries; Cantaloupes, Watermelons, Potato Chips, Pop Corn, Evaporated Peppers, and Bananas.
Claims use since Oct. 29, 1908.

Ser. No. 204,044. THE ORD MILLING COMPANY, Ord, Nebr. Filed Oct. 17, 1924.



The vertical lining in the drawing designates the color red, and the horizontal lining designates the color blue.
Particular description of goods.—Wheat Flour.
Claims use since Jan. 1, 1909.

Ser. No. 207,451. FEU HERMANOS, Ayamonte, Spain. Filed Dec. 30, 1924.



Particular description of goods.—Canned Fish—Namely, Sardines.
Claims use since Dec. 31, 1903.

Ser. No. 222,413. ST. LAWRENCE COUNTY CHEESE PRODUCERS CO-OP. ASS'N., INC., Gouverneur, N. Y. Filed Oct. 27, 1925.



Particular description of goods.—Cheese, Butter, and Milk.
Claims use since August, 1925.

Ser. No. 237,791. DAN WUILLE & COMPANY, INCORPORATED, New York, N. Y. Filed Sept. 27, 1926.

RED HEART



No claim is made to the words "Hood River" apart from the mark shown in the drawing. The lining of drawing indicates the colors red and blue.
Particular description of goods.—Fresh Apples.
Claims use since September, 1919.

Ser. No. 239,835. UNIVERSAL FOOD PRODUCTS CO., Chicago, Ill. Filed Nov. 8, 1926.



Particular description of goods.—Malt Syrup for Food Purposes.
Claims use since July 5, 1926.

Ser. No. 243,382. JAY F. LYONS, Los Angeles, Calif. Filed Jan. 26, 1927.



Particular description of goods.—Ice-Cream Powder.
Claims use since Oct. 15, 1926.

Ser. No. 243,823. NODASHOYU-KABUSHIKIKAISHA, Noda-Machi, Higashikatsushika-Gun, Chiba-Ken, Japan. Filed Feb. 4, 1927.



The Japanese characters shown in the drawing usually being termed by the Japanese "Kikko-Man," kikko shape meaning hexagon and the character in the drawing, pronounced "man," being the equivalent of the English words, ten thousand."
Particular description of goods.—Soy in Liquid Form, Vinegar, Soy Extract, Tamari (a Kind of Japanese Seasoning), and Tamari Extract.
Claims use since 1885.

Ser. No. 244,006. AUGUST O. ENGLUND, West Chester, Pa. Filed Feb. 8, 1927.



No claim is made for the words "Trade Mark," and "Brand" nor for the representation of the background showing the label apart from the mark shown in the drawing.

Particular description of goods.—Candies, French Chocolate, Glacé and Salted Nuts, Fancy Cakes, Ice Cream, Ices, and Sherbets.

Claims use since Jan. 10, 1927.

Ser. No. 246,042. MATTHEW C. MEAGHER, Bethlehem, Pa. Filed Mar. 19, 1927.

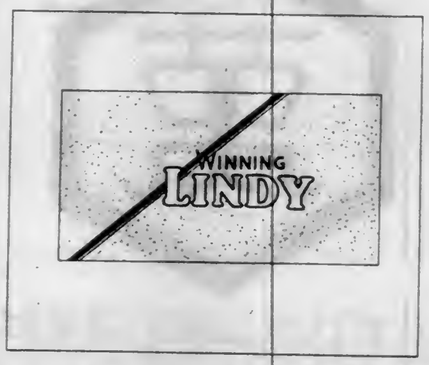
"SODA FREEZE"

The word "Soda" is not claimed apart from the other features of the mark.

Particular description of goods.—Frozen Confection Comprising a Core of Carbonated Normally Liquid Material with Container Disposed Over It and Removable Therefrom and an Elongated Member or Stick Extending Within the Frozen Core.

Claims use since Feb. 25, 1927.

Ser. No. 252,107. A. G. MOUSE CO., Chicago, Ill. Filed July 15, 1927.



The drawing is lined to indicate shading. No claim is made to the outline of the label apart from the mark as shown.

Particular description of goods.—Candy.

Claims use since June 7, 1927.

Ser. No. 253,695. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Aug. 19, 1927.

Baby Ruth

Particular description of goods.—Shelled, Salted, and Glacéd Whole and Broken Nuts, and Popped Pop Corn.

Claims use since Feb. 16, 1927.

Ser. No. 253,747. M. FRANGOS, doing business as Lancaster Chocolate Specialty Co., Lancaster, Pa. Filed Aug. 20, 1927.

Lucky Boy

Particular description of goods.—Chocolate-Covered Nuts and Fruits and All Kinds of Candies.

Claims use since July 1, 1927.

Ser. No. 255,180. ITALIAN VINEYARD CO., Guasti and Los Angeles, Calif. Filed Sept. 24, 1927.

SIERRA

Particular description of goods.—Cooking Sherry Compounded with Salt, Wine Jelly, Sauce a la Bordelaise, Sauce a la Bercy.

Claims use since Dec. 15, 1925, on cooking sherry, and on remaining products since July 11, 1927.

Ser. No. 256,437. THE HOGAN MILLING COMPANY, Junction City, Kans. Filed Oct. 21, 1927.



DOMESTIC SCIENCE
FLOUR

No claim is made to the word "Flour" apart from the mark as shown in the drawing.

Particular description of goods.—Wheat Flour.

Claims use since May 1, 1927.

Ser. No. 256,551. SWIFT AND COMPANY, Chicago, Ill. Filed Oct. 24, 1927.



The drawing is lined to indicate shading only. The trade-mark consists of two horizontal and parallel stripes which divide the quarter approximately into thirds. No claim is made to the representation of the goods.

Particular description of goods.—Fore Quarters and Hind Quarters of Fresh Beef.

Claims use since Aug. 6, 1927.

Ser. No. 258,502. GABRIEL & JOS. SEDLMAYR SPATEN-FRANZISKANER-LEISTBRÄU A.-G. MÜNCHEN, Munchen, Germany. Filed Dec. 5, 1927.



Particular description of goods.—Malt Syrups and Malt Extracts for Use in the Preparation of Foods.

Claims use since January, 1924.

Ser. No. 258,682. MAXIMILIAN C. FRANKENFELDER, New York, N. Y. Filed Dec. 9, 1927.



Particular description of goods.—Cheese.

Claims use since Aug. 9, 1927.

Ser. No. 259,210. NICHIRO GYOGYO KABUSHIKI KAISHA, Tokyo, Japan. Filed Dec. 21, 1927.



Particular description of goods.—Canned Fish, Shellfish, Beef, Pork, Chicken, and Vegetables.

Claims use since January, 1924.

Ser. No. 260,146. SPITZ, ARNSTEIN & CO. INC., New York, N. Y. Filed Jan. 14, 1928.

LINCO

Particular description of goods.—Candies of All Kinds, Including Chocolate Candies and Bonbons, and Cheese Sticks.

Claims use since 1921.

Ser. No. 260,226. H. J. HEINZ COMPANY, Pittsburgh, Pa. Filed Jan. 17, 1928.

"The taste is the test"

Particular description of goods.—Pickles, Chowchow, Pickled Onions, Canned Baked Beans, Canned Soups, Ketchup, Chutney, Beefsteak Sauce, Chili Sauce, Pepper Sauce, India Relish, Mustard, Olives, Olive Oil, Horse-Radish, Fruit Preserves, Fruit Butters, Fruit Jellies, Mincemeat, Peanut Butter, Plum Pudding, Fig Pudding, Cooked Macaroni, Cooked Spaghetti, Mayonnaise, Salad Dressing, Vinegar; Sandwich Relish, Which is a Product Made by Mixing Chopped Vegetables with Mayonnaise Salad Dressing; Rice Flakes, Fruit Cake, Cucumber Relish, Worcestershire Sauce, and Salad Cream Which is a Species of Mayonnaise Salad Dressing Made by Mixing Together Oil, Eggs, and Mustard.

Claims use since Jan. 5, 1928.

Ser. No. 260,268. GRIFFITH-DURNEY CO., San Francisco, Calif. Filed Jan. 18, 1928.

ANONA

Particular description of goods.—Canned Fruits and Canned Fish.

Claims use since about Jan. 1, 1906.

Ser. No. 260,824. LINZY HICKS, doing business as Hicks Ice Cream Company, Lexington, Ky. Filed Jan. 28, 1928.



Applicant disclaims the right to the exclusive use of the words "A Real Ice Cream Product," "Ice Cream," and "Do-Nutt" apart from the mark shown in the drawing.

Particular description of goods.—Frozen Confections.
Claims use since Mar. 5, 1927.

Ser. No. 261,005. R. H. HICKMAN COMPANY, Stowe Township, Allegheny County, Pa. Filed Feb. 1, 1928.

SILVER BIRCH

No claim is made to the word "Birch" per se.
Particular description of goods.—Chewing Gum.
Claims use since Jan. 23, 1928.

Ser. No. 261,210. REGAL CANDY STORES CO., INC., New York, N. Y. Filed Feb. 4, 1928.

ALLIED

Particular description of goods.—Sugar-Toasted Peanuts.
Claims use since July 1, 1924.

Ser. No. 261,282. ROCK ISLAND BREWING COMPANY, Rock Island, Ill. Filed Feb. 6, 1928.



The drawing is lined to indicate the colors red, yellow, and blue. No claim is made to the exclusive use of the words "Malt Syrup" apart from the mark shown in the drawing.

Particular description of goods.—Malt Syrup for Food Purposes.
Claims use since Feb. 1, 1927.

Ser. No. 261,523. JENNIE K. SAWYER, Dallas, Tex. Filed Feb. 10, 1928.



No claim is made herein to the words "A Place of Southern Hospitality" aside from the mark shown.

Particular description of goods.—Sandwiches—Namely, Chicken Sandwiches, Pork Sandwiches, Beef Sandwiches, and Barbecue Sandwiches.
Claims use since Apr. 25, 1927.

Ser. No. 261,591. THE SCUDDERS-GALE GROCER COMPANY, St. Louis, Mo. Filed Feb. 11, 1928.

OLD ANDY

The lining in the drawing indicates the color red, to which no claim is made.

Particular description of goods.—Coffee.
Claims use since about Feb. 1, 1921.

Ser. No. 261,685. W. R. ROACH & Co., Grand Rapids, Mich. Filed Feb. 14, 1928. Under 10-year proviso.

HART

Particular description of goods.—Canned Fruits, Fish, and Vegetables, Canned Hominy, and Canned Spaghetti.
Claims use since summer of 1894.

Ser. No. 261,689. HABIB SHUHDA, Brooklyn, N. Y. Filed Feb. 14, 1928.



The words "Brand" and "Salted Pistachio" are disclaimed and form no part of the trade-mark. The lining for color is disclaimed.

Particular description of goods.—Salted Pistachio Nuts.
Claims use since September, 1927.

Ser. No. 261,879. H. J. HEINZ COMPANY, Pittsburgh, Pa. Filed Feb. 18, 1928.

Taxatized

Particular description of goods.—Rice Flakes.
Claims use since Feb. 2, 1928.

Ser. No. 261,977. MINNESOTA MACARONI CO., St. Paul, Minn. Filed Feb. 20, 1928.

Nood

Particular description of goods.—Alimentary Pastes.
Claims use since Jan. 30, 1928.

Ser. No. 262,012. AMERICAN STORES COMPANY, Philadelphia, Pa. Filed Feb. 21, 1928.

ASCO

Particular description of goods.—Gelatine Dessert.
Claims use since Jan. 2, 1928.

Ser. No. 262,044. JOHN A. VASSILAROS, New York, N. Y. Filed Feb. 21, 1928.



Particular description of goods.—Coffee.
Claims use since Feb. 1, 1928.

Ser. No. 262,118. THE PILSENER BREWING CO., Cleveland, Ohio. Filed Feb. 23, 1928.

P.O.C.

Particular description of goods.—Malt Syrup.
Claims use since May 1, 1927.

Ser. No. 262,123. ROYAL FEED & MILLING CO., doing business as Royal-Stafolife Mills, Memphis, Tenn., and Meridian, Miss. Filed Feb. 23, 1928.

SUNRISE

Particular description of goods.—Laying Mash and Hen Feed.
Claims use since 1913.

Ser. No. 262,124. LOUIS SAMAROTTO, New York, N. Y. Filed Feb. 23, 1928.



The words "Olive Oil" are hereby disclaimed and form no part of the trade-mark.

Particular description of goods.—Olive Oil.
Claims use since November, 1927.

Ser. No. 262,155. JACOB E. DECKER & SONS, Mason City, Iowa. Filed Feb. 24, 1928.

TOWN CLUB

Particular description of goods.—Ham and Bacon.
Claims use since Feb. 1, 1928.

Ser. No. 262,343. WILSON & CO., Chicago, Ill. Filed Feb. 27, 1928.

COMAR

Particular description of goods.—Oleomargarine.
Claims use since Sept. 1, 1919.

Ser. No. 262,386. WESTERN STATES GROCERY CO., Oakland, Calif. Filed Feb. 28, 1928.

AIRWAY
BLEND



COFFEE

The words "Blend" and "Coffee" are not claimed apart from the other features of the mark.

Particular description of goods.—Coffee.
Claims use since Dec. 16, 1927.

Ser. No. 262,398. B. J. GARFINKEL, doing business as Good-Will Malt and Hops Supply Company, Harrisburg, Pa. Filed Feb. 29, 1928.

Good Will



Particular description of goods.—Malt Syrup.
Claims use since November, 1926.

Ser. No. 262,464. KATSAFANAS COFFEE COMPANY, Pittsburgh, Pa. Filed Mar. 1, 1928.



Particular description of goods.—Coffee.
Claims use since Jan. 1, 1916.

Ser. No. 262,495. VAL BLATZ BREWING CO., Milwaukee, Wis. Filed Mar. 1, 1928.

MILWAUKEE MAID

Particular description of goods.—Malt Syrup.
Claims use since Jan. 24, 1928.

Ser. No. 262,814. THE PATENT CEREALS CO., Geneva, N. Y. Filed Mar. 8, 1928.

HOM-O-LASSES

Particular description of goods.—Stock Feed Made of Hominy and Molasses.
Claims use since Nov. 2, 1927.

Ser. No. 262,830. VEE CHEESE CO., Cleveland, Ohio. Filed Mar. 8, 1928.

Vee

Particular description of goods.—Milk Products—Namely, Cheese.
Claims use since Dec. 1, 1927.

CLASS 48.

Malt Beverages and Liquors.

Ser. No. 236,724. BOHEMIAN MALT SALES CO. INC., New Orleans, La. Filed Sept. 1, 1926.

IRISH STOUT
STYLE
EMERALD



No registration rights are claimed for the words "Irish Stout Style" apart from the mark shown in the drawing. The clover leaf in the drawing is lined to indicate the color green.

Particular description of goods.—Nonalcoholic, Cereal, Malt Beverage.
Claims use since Jan. 1, 1925.

Ser. No. 257,208. JESSE L. WEINBERG, doing business as Universe Products Co., New York, N. Y. Filed Nov. 7, 1927.

Wir wollen Wulle



hell
Bürgerbrau
Manufactured for UNIVERSE PRODUCTS CO. New York City
ALCOHOLIC CONTENTS LESS THAN ½ OF 1% BY VOLUME

Applicant disclaims the words "Hell, Manufactured for, New York City," and "Alcoholic Contents Less than ½ of 1% by Volume."

Particular description of goods.—Malt Beverage Made from Barley, Rice, Corn, and Hops, the Alcoholic Contents of Which is Less Than One-Half of One Per Cent.
Claims use since Sept. 9, 1927.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 259,954. THE GREEN TABLE PAD CORP., New York and Brooklyn, N. Y. Filed Jan. 11, 1928.

TABLE
BU-TEE
PAD TRADE MARK

The words "Table Pad" and "Trade-Mark" are disclaimed apart from the mark shown.

Particular description of goods.—Heatproof and Waterproof Table Pads Made of Felt Composition.
Claims use since Nov. 25, 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 17, 1928.

241,018. PISTON RINGS. RANDALL GRAPHITE PRODUCTS CORPORATION, Wilmington, Del., and Chicago, Ill.
Filed November 25, 1927. Serial No. 258,040. PUBLISHED FEBRUARY 7, 1928. Class 35.

241,019. PADS FOR USE IN THE PERMANENT WAVING OF HAIR. TOWNSEND MANUFACTURING COMPANY, INC., New York, N. Y.
Filed November 21, 1927. Serial No. 257,907. PUBLISHED JANUARY 31, 1928. Class 44.

241,020. STORAGE BATTERIES FOR AUTOMOBILES AND RADIOS. JOHN E. FORSELL, doing business as Old Trusty Company, Clay Center, Nebr.
Filed November 19, 1927. Serial No. 257,795. PUBLISHED JANUARY 31, 1928. Class 21.

241,021. DENTAL MOULDING AND ORTHOPEDIC PLASTERS. CAMPBELL COAL COMPANY, Atlanta, Ga.
Filed November 19, 1927. Serial No. 257,783. PUBLISHED JANUARY 31, 1928. Class 44.

241,022. ELECTRICAL BAKING STOVES AND PARTS THEREOF. F. AESCHBACH S. A., Aarau, Switzerland.
Filed September 26, 1927. Serial No. 255,215. PUBLISHED JANUARY 31, 1928. Class 21.

241,023. SHOES MADE OF LEATHER. MAURICE L. ROTHSCHILD, INCORPORATED, Chicago, Ill.
Filed November 30, 1927. Serial No. 258,286. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,024. RADIO LOUD SPEAKERS. ARISTOCRAT CORPORATION OF AMERICA, New York, N. Y.
Filed November 30, 1927. Serial No. 258,206. PUBLISHED JANUARY 31, 1928. Class 21.

241,025. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. RODES-RAPIER CO. INC., Louisville, Ky.
Filed November 29, 1927. Serial No. 258,193. PUBLISHED JANUARY 31, 1928. Class 39.

241,026. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. E. DALTROFF & CIE., doing business as Parfumerie Caron, Paris, France.
Filed November 29, 1927. Serial No. 258,168. PUBLISHED JANUARY 31, 1928. Class 6.

241,027. CLARET, BURGUNDY, AND SAUTERNE WINES. J. CALVET & CIE., S. A. R. L., Bordeaux, France.
Filed November 26, 1927. Serial No. 258,064. PUBLISHED FEBRUARY 7, 1928. Class 47.

241,028. GLOVES AND MITTENS OF FABRIC AND COMBINATIONS OF LEATHER AND FABRIC. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 23, 1927. Serial No. 257,962. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,029. CERTAIN NAMED GLOVES. KURZMAN, INC., New York, N. Y.
Filed November 22, 1927. Serial No. 257,930. PUBLISHED JANUARY 31, 1928. Class 39.

241,030. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, AND RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed November 22, 1927. Serial No. 257,926. PUBLISHED JANUARY 31, 1928. Class 39.

241,031. RUBBER OVERSHOES. CAMBRIDGE RUBBER COMPANY, Cambridge, Mass.
Filed November 9, 1927. Serial No. 257,274. PUBLISHED JANUARY 31, 1928. Class 39.

241,032. HAIR PIECES. YVETTE CO., New York, N. Y.
Filed November 8, 1927. Serial No. 257,262. PUBLISHED JANUARY 17, 1928. Class 40.

241,033. BAND AND ORCHESTRA INSTRUMENTS. BUESCHER BAND INSTRUMENT CO., Elkhart, Ind.
Filed September 27, 1927. Serial No. 255,293. PUBLISHED DECEMBER 20, 1927. Class 36.

241,034. GOWNS, FROCKS, AND DRESSES FOR WOMEN, MISSES, AND CHILDREN. HARRY FRANK, New York, N. Y.
Filed October 4, 1927. Serial No. 255,596. PUBLISHED JANUARY 10, 1928. Class 39.

241,035. NONCEREAL, MALTLESS BEVERAGES, NONALCOHOLIC, SOLD AS SOFT DRINKS. THE APOLLINARIS COMPANY, LIMITED, London, England.
Filed October 12, 1927. Serial No. 255,950. PUBLISHED FEBRUARY 7, 1928. Class 45.

241,036. MALT SYRUP AND HOP SYRUP FOR FOOD PURPOSES. FRANK C. WEBER & COMPANY, Chicago, Ill.
Filed October 12, 1927. Serial No. 256,025. PUBLISHED JANUARY 31, 1928. Class 46.

241,037. NONCEREAL, MALTLESS BEVERAGES, NONALCOHOLIC, SOLD AS SOFT DRINKS. THE APOLLINARIS COMPANY, LIMITED, London, England.
Filed October 12, 1927. Serial No. 255,951. PUBLISHED FEBRUARY 7, 1928. Class 45.

241,038. PENETRATING OIL, WHICH IS AN OIL DESIGNED FOR USE ON AND BETWEEN THE LEAVES OF AUTOMOBILE SPRINGS. AUTO VITA MANUFACTURING CO., Chicago, Ill.
Filed October 17, 1927. Serial No. 256,162. PUBLISHED JANUARY 31, 1928. Class 15.

241,039. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES; FLAT AND HOLLOW WARE MADE FROM PLATINUM AND ITS ALLOYS. R & H PLATINUM WORKS, INC., Perth Amboy, N. J.
Filed October 27, 1927. Serial No. 256,685. PUBLISHED JANUARY 31, 1928. Class 28.

241,040. RADIO ANTENNÆ, LOUD SPEAKERS, HEAD SETS, VARIABLE CONDENSERS, VARIOCOUPLERS, RHEOSTATS, VARIOMETERS, AERIAL EQUIPMENT, BATTERY CHARGERS, JACKS AND JACK SWITCHES, LIGHTNING ARRESTERS, PLUGS, POTENTIOMETERS, PANELS, SOCKETS, TRANSFORMERS, DIALS, CRYSTALS, MOUNTING BOARDS, RADIO RECEIVING SETS, COILS, FUSE TERMINALS, VACUUM-TUBE SOCKETS, AND RADIOBATTERIES. J. WOLF MANUFACTURING CO., INC., New York, N. Y.
Filed October 31, 1927. Serial No. 256,850. PUBLISHED JANUARY 31, 1928. Class 21.

241,041. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. KOHN & COMPANY, Newark, N. J.
Filed November 5, 1927. Serial No. 257,102. PUBLISHED JANUARY 31, 1928. Class 28.

241,042. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. KOHN & COMPANY, Newark, N. J.
Filed November 5, 1927. Serial No. 257,103. PUBLISHED JANUARY 31, 1928. Class 28.

241,043. ABDOMINAL OR STOMACH BELTS FOR MEN, WOMEN, AND CHILDREN. JOSEPH CALENDO, New York, N. Y.
Filed November 10, 1927. Serial No. 257,343. PUBLISHED JANUARY 24, 1928. Class 44.

241,044. ELECTRIC SADIRONS. ROBESON ROCHESTER CORPORATION, Rochester, N. Y.
Filed November 10, 1927. Serial No. 257,382. PUBLISHED JANUARY 31, 1928. Class 21.

241,045. CERTAIN MANUFACTURED WOOLEN GOODS. WESTERN WOOLEN MILLS, Stayton, Oreg.
Filed November 10, 1927. Serial No. 257,391. PUBLISHED JANUARY 17, 1928. Class 42.

241,046. LUBRICATING OILS, LUBRICATING GREASES, AND GASOLINE. WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa.
Filed November 15, 1927. Serial No. 257,610. PUBLISHED JANUARY 31, 1928. Class 15.

241,047. MOTOR STARTERS, INDUSTRIAL SWITCHES, SERVICE ENTRANCE SWITCHES, METER SERVICE SWITCHES, METER CONNECTION BLOCKS, CURRENT-TRANSFORMER CABINETS, PANEL BOARDS, CABINET-SUPPORTED FUSE BLOCKS, AND TRANSFORMER CUT-OUTS. SQUARE D COMPANY, Detroit, Mich.
Filed November 30, 1927. Serial No. 258,241. PUBLISHED JANUARY 31, 1928. Class 21.

241,048. VERMOUTH. NOILLY PRAT & CIE., Marseille, France.
Filed December 6, 1927. Serial No. 258,535. PUBLISHED JANUARY 31, 1928. Class 49.

241,049. FRESH PEARS. GEORGE C. PAYNE, San Jose, Calif.
Filed December 7, 1927. Serial No. 258,589. PUBLISHED JANUARY 31, 1928. Class 46.

241,050. KNITTED AND TEXTILE FABRICS OF WOOL. THE PIONEER PACIFIC WORSTED CO., Los Angeles and Long Beach, Calif.
Filed September 7, 1927. Serial No. 254,473. PUBLISHED JANUARY 31, 1928. Class 42.

241,051. VEHICLE TIRES OF RUBBER OR RUBBER COMPOSITION OR RUBBER AND FABRIC AND INNER TUBES THEREFOR. THE FIRESTONE TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed December 15, 1927. Serial No. 258,941. PUBLISHED FEBRUARY 7, 1928. Class 35.

241,052. TIRE CASINGS. DICKINSON CORD TIRE CORPORATION, Nutley, N. J.
Filed October 29, 1925. Serial No. 222,500. PUBLISHED JANUARY 31, 1928. Class 35.

241,053. CUTLERY. ESKILSTUNA JERNMANUFAKTUR AKTIEBOLAG, Eskilstuna, Sweden.
Filed January 6, 1927. Serial No. 242,419. PUBLISHED JANUARY 31, 1928. Class 23.

241,054. LEAD AND ALLOYS USED FOR BEARING AND PACKING METALS. BEARIUM BEARINGS, INC., Buffalo, N. Y.
Filed January 14, 1927. Serial No. 242,811. PUBLISHED JANUARY 31, 1928. Class 14.

241,055. PORT AND SHERRY WINES. J. R. PARKINGTON & CO., LTD., London, England.
Filed April 13, 1927. Serial No. 247,386. PUBLISHED FEBRUARY 7, 1928. Class 47.

241,056. PORT WINE. J. R. PARKINGTON & CO., LTD., London, England.
Filed April 13, 1927. Serial No. 247,387. PUBLISHED FEBRUARY 7, 1928. Class 47.

241,057. ELECTRIC DASH LAMPS AND ELECTRIC TIMERS FOR INTERNAL-COMBUSTION ENGINES. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky.
Filed May 20, 1927. Serial 249,256. PUBLISHED JANUARY 31, 1928. Class 21.

241,058. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. EBON DRESS COMPANY, INC., New York, N. Y.
Filed May 20, 1927. Serial No. 249,268. PUBLISHED JULY 26, 1927. Class 39.

241,059. OLIVES, SALAD DRESSING, RICE, ROLLED OATS, CORNSTARCH, MACARONI, SPAGHETTI, NOODLES, BUCKWHEAT FLOUR, PASTRY FLOUR, GRAHAM FLOUR, PANCAKE FLOUR; TABLE MEAL—NAMELY, CORN MEAL; CATSUP, TEA, AND COFFEE. SCOVILLE, BROWN & COMPANY, Wellsville, N. Y.
Filed June 2, 1927. Serial No. 249,931. PUBLISHED JANUARY 24, 1928. Class 46.

241,060. ELECTRIC REPRODUCER FOR USE WITH RADIO RECEIVING SETS, WITH LOUD SPEAKERS, AND WITH COMBINATION RADIO RECEIVING SETS AND PHONOGRAPHS. PACENT RADIO CORPORATION, New York, N. Y.
Filed June 9, 1927. Serial No. 250,260. PUBLISHED JANUARY 24, 1928. Class 21.

241,061. SMOKING AND CHEWING TOBACCO. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C.
Filed June 11, 1927. Serial No. 250,375. PUBLISHED JANUARY 31, 1928. Class 17.

241,062. SMOKING AND CHEWING TOBACCO. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C.
Filed June 11, 1927. Serial No. 250,378. PUBLISHED JANUARY 31, 1928. Class 17.

241,063. MINERAL WATERS AND AERATED TABLE WATERS. COMPAGNIE DE LA SOURCE PERRIER, Les Bouillens, Vergeze, Gard, France.
Filed June 17, 1927. Serial No. 250,677. PUBLISHED JANUARY 31, 1928. Class 45.

241,064. MOTOR VEHICLES, MOTOR CHASSIS, AND TRUCKS OR UNDERCARRIAGES FOR TRAMCARS, AND CONSTRUCTIVE PARTS OF ANY AND ALL OF THE FOREGOING. LEYLAND MOTORS LIMITED, Leyland, England.
Filed July 6, 1927. Serial No. 251,565. PUBLISHED JANUARY 31, 1928. Class 19.

241,065. COTTON AND RAYON FABRICS AND MIXTURES OF THE SAME. GALEY & LORD, INC., New York, N. Y.
Filed July 8, 1927. Serial No. 251,664. PUBLISHED FEBRUARY 7, 1928. Class 42.

241,066. AXES, HATCHETS, CHISELS, ETC. CARL SCHLIEPER, Remscheid, Germany.
Filed July 12, 1927. Serial No. 251,931. PUBLISHED FEBRUARY 7, 1928. Class 23.

241,067. TABLE HOLLOW WARE OF ALL KINDS, INCLUDING CUPS, SAUCERS, PLATES, JUGS, MUGS, TUMBLERS, BOXES, FLOWER VASES, FLOWER BOWLS, ROSE BOWLS, SUGAR BASINS, TEAPOTS, TRAYS, DISHES, ICE CUPS, EGG CUPS, CRUET SETS, CONDIMENT SETS, AND GRAPEFRUIT CUPS, MOULDED FROM SYNTHETIC RESIN. BROOKES & ADAMS LIMITED, Hockley, Birmingham, England.
Filed July 29, 1927. Serial No. 252,678. PUBLISHED JANUARY 31, 1928. Class 2.

241,068. MATCHES. JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed August 2, 1927. Serial No. 252,904. PUBLISHED FEBRUARY 7, 1928. Class 9.

241,069. CHEESE. PETER BÜRKI, Lucerne, Switzerland.
Filed August 15, 1927. Serial No. 253,490. PUBLISHED JANUARY 31, 1928. Class 46.

241,070. PIECE GOODS MADE OF COTTON AND WOOL AND SILK. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed August 24, 1927. Serial No. 253,886. PUBLISHED JANUARY 31, 1928. Class 42.

241,071. CIGARS, CIGARETTES, SMOKING TOBACCO, CHEWING TOBACCO, AND SNUFF. DE NONILI CIGAR COMPANY, New York, N. Y.
Filed September 6, 1927. Serial No. 254,388. PUBLISHED FEBRUARY 7, 1928. Class 17.

241,072. MEDICINE INDICATED FOR AMENORRHEA AND DYSMENORRHEA, PAINFUL AND IRREGULAR MENSTRUATION. H. PLANTEN & SON INC., Brooklyn, N. Y.
Filed November 14, 1927. Serial No. 257,558. PUBLISHED JANUARY 31, 1928. Class 6.

241,073. HAIR-COLOR RESTORER, BEAUTY CREAMS, LOTIONS, FACE AND BODY POWDER, HAIR DYES, LIP STICK, SKIN BLEACH, AND ROUGE. EVELYN C. CARSTENS, Woodhaven, N. Y.
Filed November 14, 1927. Serial No. 257,524. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,074. A PLAC CONTAINING RADIUM OR A RADIUM COMPOUND, WHICH PLAC IS ADAPTED TO BE INTRODUCED INTO WATER TO CHARGE THE SAME WITH NITON. RA-TOR MINING & MANUFACTURING CO., Tyrone, N. Mex.
Filed November 11, 1927. Serial No. 257,440. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,075. ROUGE AND POWDER COMPACTS. LIONEL TRADING CO. INC., New York, N. Y.
Filed November 5, 1927. Serial No. 257,106. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,076. STOCK FEED. PURITY OATS COMPANY, Keokuk, Iowa.
Filed November 15, 1927. Serial No. 257,597. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,077. STOCK FEED. PURITY OATS COMPANY, Keokuk, Iowa.
Filed November 15, 1927. Serial No. 257,598. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,078. A PREPARED DIETARY FOOD MADE OF BEEF LIVER SCIENTIFICALLY TREATED. LIVERMEAL CORPORATION, Wilmington, Del., and New York, N. Y.
Filed November 18, 1927. Serial No. 257,737. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,079. LOTION FOR STIMULATING, REJUVENATING, AND REFRESHING THE SKIN. THE BARBASOL COMPANY, Indianapolis, Ind.
Filed November 21, 1927. Serial No. 257,852. PUBLISHED JANUARY 31, 1928. Class 6.

241,080. CANNED TOMATO SALAD. A. S. BENDZSA, Crown Point, Ind.
Filed November 21, 1927. Serial No. 257,854. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,081. RHEUMATISM MEDICINE. PAUL GREGORY, New York, N. Y.
Filed November 29, 1927. Serial No. 258,180. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,082. MANGE MEDICINE FOR ANIMALS. C. B. & V. K. WARNER, Red Oak, Ark.
Filed November 29, 1927. Serial No. 258,203. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,083. DENTIFRICE. HENRY B. GROSE, Augusta, Ga.
Filed November 30, 1927. Serial No. 258,227. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,084. PIES. MARGARET D. TURNER, Los Angeles, Calif.
Filed November 30, 1927. Serial No. 258,243. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,085. AN ESSENCE OR JUICE PREPARED FROM TOMATOES. TOMATO PRODUCTS COMPANY, Paoli, Ind.
Filed December 1, 1927. Serial No. 258,302. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,086. ELECTRIC REFRIGERATING APPARATUS AND PARTS THEREOF. SIEMENS-SCHUCKERTWERKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed December 6, 1927. Serial No. 258,557. PUBLISHED FEBRUARY 7, 1928. Class 31.

241,087. ANTISEPTIC AND DEODORANT POWDER. NEWMAN PHARMACAL COMPANY, Louisville, Ky.
Filed December 7, 1927. Serial No. 258,585. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,088. MALT SYRUP. THE AMERICAN MALT COMPANY, Baltimore, Md.
Filed December 10, 1927. Serial No. 258,712. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,089. WHEAT FLOUR. LEWIS BLAUSTEIN, doing business as General Flour Company, Baltimore, Md.
Filed December 10, 1927. Serial No. 258,715. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,090. PALLIATIVE FOR ASTHMA, BRONCHITIS, COLDS, COUGHS, HEAVY AND SHORT BREATHING, SORE THROAT, PAINS IN CHEST, TONSILITIS, LOSS OF VOICE, HIGH BLOOD PRESSURE, TUBERCULOSIS, CATARRH OF THE STOMACH, BLADDER, AND KIDNEYS, TORPID LIVER, BURNS IN THE STOMACH, APPENDICITIS, ULCERS, CONSTIPATION, HEADACHE, INDIGESTION, ANEMIA, SWOLLEN LEG, DIABETES, STOMACH DISEASES IN GENERAL, AND THE PURIFICATION OF THE BLOOD. STANLEY GAWRONSKI, Elizabeth, N. J.
Filed November 4, 1927. Serial No. 257,059. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,091. INSECTICIDES. PHILIP O. SCHOELLES, doing business as P. O. Schoelles & Co., Apalachicola, Fla.
Filed November 3, 1927. Serial No. 257,036. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,092. SELF-RISING WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,965. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,093. SELF-RISING WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,968. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,094. SHOW-CASE REFRIGERATORS, REFRIGERATOR DOORS, REFRIGERATOR BOX COOLERS, REFRIGERATORS (SOLID AND SECTIONAL). DEALER'S REFRIGERATOR COMPANY, San Francisco, Calif.
Filed July 8, 1927. Serial No. 251,655. PUBLISHED FEBRUARY 7, 1928. Class 31.

241,095. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,118. PUBLISHED JANUARY 31, 1928. Class 6.

241,096. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,119. PUBLISHED JANUARY 31, 1928. Class 6.

241,097. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,120. PUBLISHED JANUARY 31, 1928. Class 6.

241,098. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,121. PUBLISHED JANUARY 31, 1928. Class 6.

241,099. CUFF BUTTONS AND PARTS THEREOF MADE OF OR PLATED WITH PRECIOUS METAL. CENTURY SPECIALTY CO., Chicago, Ill.
Filed November 28, 1927. Serial No. 258,112. PUBLISHED JANUARY 31, 1928. Class 28.

241,100. MASSAGE MACHINES. BLUD-RUB MANUFACTURING COMPANY, Indianapolis, Ind.
Filed December 23, 1927. Serial No. 259,275. PUBLISHED FEBRUARY 14, 1928. Class 44.

241,101. MEN'S SUITS AND OVERCOATS AND MEN'S TROUSERS AND KNICKERS. SHAPIRO KENNEY, INC., Los Angeles, Calif.
Filed November 28, 1927. Serial No. 258,140. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,102. COFFEE, COFFEE SUBSTITUTE, TEA, SPICES, CHOCOLATE, ALIMENTARY PASTES—NAMELY, MACARONI. VOLPE BROTHERS, Laredo, Tex.
Filed June 21, 1927. Serial No. 250,878. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,103. STOMACHIC. HUBERT UNDERBERG, doing business as H. Underberg-Albrecht, Rheinberg, Germany.
Filed June 18, 1927. Serial No. 250,768. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,104. PICKLES, NOODLES, FRUIT PRESERVES, CAKES, AND PASTRIES. REGNATZ INC., Lakewood, Ohio.
Filed June 17, 1927. Serial No. 250,712. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,105. IODINE. THE IODINOL CHEMICAL COMPANY, Omaha, Nebr.
Filed May 5, 1927. Serial No. 248,498. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,106. SALVE FOR TREATING BOILS AND CARBUNCLES. GEORGE JOHN BROWN, doing business as Brown's Pharmacy, Scranton, Pa.
Filed May 4, 1927. Serial No. 248,890. PUBLISHED JANUARY 31, 1928. Class 6.

241,107. CARPET AND RUG CLEANER. RENU PRODUCTS CORPORATION, doing business as Bingo Products Corporation, Portland, Oreg.
Filed April 9, 1927. Serial No. 247,211. PUBLISHED DECEMBER 6, 1927. Class 4.

241,108. GENERAL DISINFECTANT AGAINST CERTAIN INSECTS. ROBERT C. NICHOLS, doing business as Kil-O-Mite Chemical Co., Athens, Ala.
Filed April 4, 1927. Serial No. 246,928. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,109. FASTENERS FOR OVERSHOES. FRED G. MILLER, doing business as Miller Mfg. Co., Washington, Ill.
Filed March 28, 1927. Serial No. 246,492. PUBLISHED JANUARY 31, 1928. Class 40.

241,110. COMPOUNDS FOR USE IN PICKLING VEGETABLES. H. DALE KUHN, doing business as H. Dale Kuhn Laboratory, H. Dale Kuhn Druggist, and Kuhn Drug Company, Shelby, Ohio.
Filed March 16, 1927. Serial No. 245,846. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,111. MALT SYRUP AND MALT EXTRACT. SOLOMON B. PERLOFF, Philadelphia, Pa., assignor to The High Grade Products Distributing Co., Philadelphia, Pa., a firm composed of Solomon B. Perloff, Sarah Perloff, and Clara Perloff.
Filed March 11, 1927. Serial No. 245,579. PUBLISHED JANUARY 31, 1928. Class 46.

241,112. CHEESE. KRAFT CHEESE COMPANY, Chicago, Ill., now by change of name Kraft-Phenix Cheese Company.
Filed February 2, 1927. Serial No. 248,708. PUBLISHED APRIL 5, 1927. Class 46.

241,113. A CONCENTRATED SUBSTITUTE FOR GREEN FEED IN TABLET FORM FOR CHICKENS. HELEN C. KIESEL, doing business as The Succulenta Company, Scranton, Pa.
Filed December 16, 1926. Serial No. 241,576. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,114. A FOOD PRODUCT MADE OF WHEAT FLOUR, EGGS, AND MILK, ADAPTED FOR USE AS A THICKENING FOR SOUP, OR IN COOKING MEATS, POULTRY, FISH, AND VEGETABLES. TRAHANAS CO., Lowell, Mass.
Filed November 24, 1926. Serial No. 240,575. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,115. SHOES MADE OF LEATHER, RUBBER, OR CANVAS. HAINES SHOE COMPANY, York, Pa.
Filed September 20, 1927. Serial No. 254,968. PUBLISHED DECEMBER 20, 1927. Class 39.

241,116. BUTTER. SIDNEY HORTON, New York, N. Y.
Filed November 5, 1926. Serial No. 239,709. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,117. MUSTARD. STICKNEY & POOR SPICE CO., Boston, Mass., assignor to J. & J. Colman, Limited, London, England, a Corporation of Great Britain.
Filed October 18, 1926. Serial No. 238,817. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,118. HOSIERY OF COTTON, WOOL, SILK, RAYON, AND COMBINATIONS THEREOF AND OF OTHER TEXTILES. THE DIEL-GRUND COMPANY, St. Louis, Mo.
Filed August 23, 1926. Serial No. 236,306. PUBLISHED DECEMBER 27, 1927. Class 39.

241,119. BOYS' AND MEN'S CLOTHING—NAMELY, SUITS, COATS, AND OVERCOATS. WIENER BROTHERS AND SPORKIN, Philadelphia, Pa.
Filed August 21, 1926. Serial No. 236,298. PUBLISHED DECEMBER 13, 1927. Class 39.

241,120. WHEAT FLOUR. THE MOORE-LOWRY FLOUR MILLS COMPANY, Rosedale Station, Kansas City, Kans.
Filed May 22, 1926. Serial No. 232,094. PUBLISHED NOVEMBER 9, 1926. Class 46.

241,121. HATS FOR WOMEN AND CHILDREN. MANCELL WILSON COMPANY, Dallas, Tex.
Filed November 5, 1927. Serial No. 257,107. PUBLISHED JANUARY 31, 1928. Class 39.

241,122. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed October 15, 1927. Serial No. 256,128. PUBLISHED JANUARY 31, 1928. Class 39.

241,123. MEN'S AND BOYS' GOLF CAPS. HIRSCHBERG & COMPANY, New York, N. Y.
Filed October 8, 1927. Serial No. 255,808. PUBLISHED JANUARY 31, 1928. Class 39.

241,124. SHOES MADE OF LEATHER, RUBBER, OR CANVAS. MAHLON N. HAINES, York, Pa.
Filed September 20, 1927. Serial No. 254,967. PUBLISHED DECEMBER 20, 1927. Class 39.

241,125. COMBINATION CORSET AND BRASSIÈRE. FRANCO CORSET COMPANY, New York, N. Y.
Filed September 20, 1927. Serial No. 254,964. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,126. CERTAIN NAMED WEARING APPAREL. THE JERROLD CO., Saginaw, Mich.
Filed September 2, 1927. Serial No. 254,290. PUBLISHED JANUARY 31, 1928. Class 39.

241,127. MEN'S HATS. BATES THOMPSON, INCORPORATED, New York, N. Y.
Filed August 31, 1927. Serial No. 254,164. PUBLISHED JANUARY 31, 1928. Class 39.

241,128. SHOES MADE OF LEATHER. ANSONIA BOOTERY, INC., New York, N. Y.
Filed August 27, 1927. Serial No. 254,026. PUBLISHED JANUARY 31, 1928. Class 39.

241,129. HOSIERY, GLOVES MADE OF WOVEN AND KNITTED FABRICS, ALL KINDS OF UNDERWEAR, INCLUDING ATHLETIC UNDERWEAR. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed July 22, 1927. Serial No. 252,420. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,130. LEATHER SHOE LACES. CALIFORNIA TANNING COMPANY, St. Louis, Mo.
Filed July 9, 1927. Serial No. 251,714. PUBLISHED FEBRUARY 7, 1928. Class 40.

241,131. CERTAIN NAMED WEARING APPAREL. ROSAMOND LILIAN KENNEDY, London, England.
Filed July 7, 1927. Serial No. 251,620. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,132. ALL KINDS OF ORNAMENTS FOR THE HAIR. BALLOID BASLER CELLULOIDWARENFABRIK A.-G. THERWIL (BALLIOD FABRIQUE BÂLOISE D'ARTICLES EN CELLULOID S. A. THERWIL) (BALLOID BASLE CELLULOID MANUFACTURES LTD. THERWIL), Therwil, near Basel, Switzerland.
Filed July 1, 1927. Serial No. 251,379. PUBLISHED JANUARY 17, 1928. Class 40.

241,133. CHOCOLATE, FANCY ARTICLES MADE OF CHOCOLATE, CANDIES, MARZIPAN (ALMOND PASTE), AND HONEY CAKE. HILDEBRAND CHOCOLATE COMPANY, INC., New York, N. Y.
Filed May 20, 1927. Serial No. 249,275. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,134. CERTAIN NAMED WEARING APPAREL. A. I. NAMM & SON, Brooklyn, N. Y.
Filed April 26, 1927. Serial No. 248,011. PUBLISHED AUGUST 30, 1927. Class 39.

241,135. BOUILLON CUBES. THE MAGGI CO., Kempttal, Zurich, Switzerland.
Filed February 10, 1927. Serial No. 244,170. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,136. BOUILLON CUBES. THE MAGGI CO., Kempttal, Zurich, Switzerland.
Filed February 10, 1927. Serial No. 244,169. PUBLISHED JANUARY 31, 1928. Class 46.

241,137. BOUILLON CUBES. THE MAGGI CO., Kempttal, Zurich, Switzerland.
Filed February 10, 1927. Serial No. 244,168. PUBLISHED JANUARY 31, 1928. Class 46.

241,138. CANNED SOUPS. THE MAGGI CO., Kempttal, Zurich, Switzerland.
Filed February 10, 1927. Serial No. 244,167. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,139. STAMPED GOODS FOR EMBROIDERY AND ART NEEDLE CRAFT. G. LACHMAN CO., INC., Philadelphia, Pa.
Filed December 8, 1926. Serial No. 241,166. PUBLISHED FEBRUARY 7, 1928. Class 40.

241,140. ANTISEPTIC SOLUTION. MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa.
Filed December 22, 1927. Serial No. 259,248. PUBLISHED FEBRUARY 7, 1928. Class 6.

241,141. BREAKFAST CEREAL. CARQUE PURE FOOD CO. INC., Los Angeles, Calif.
Filed December 21, 1927. Serial No. 259,197. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,142. CHEESE. EMMENTAL CHEESE CORPORATION, New York, N. Y.
Filed December 15, 1927. Serial No. 258,939. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,143. MALT SYRUP FOR FOOD PURPOSES. FIDELITY HOP & MALT CORPORATION, Chicago, Ill.
Filed December 12, 1927. Serial No. 258,808. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,144. NONALCOHOLIC VANILLA FLAVORING FOR FOOD PURPOSES. FRED F. HORST, doing business as Horst Chemical Co., Bellingham, Wash.
Filed December 10, 1927. Serial No. 258,746. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,145. CAKE MIXES, THE SAME BEING A FLOUR-LIKE MIXTURE CONTAINING FLOUR AND OTHER INGREDIENTS READY MIXED FOR MAKING CAKE. AD. SEIDEL & SONS, Chicago, Ill.
Filed October 28, 1927. Serial No. 256,747. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,146. ULTRA-VIOLET-RAY-PROCESSED FOODS CONSISTING OF MILK-COCOA POWDER FOR BEVERAGE PREPARATIONS. VERNON STEVES, Oakland, Calif.
Filed October 24, 1927. Serial No. 256,549. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,147. WHEAT FLOUR. MEYERSON BROTHERS, Council Bluffs, Iowa.
Filed October 24, 1927. Serial No. 256,531. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,148. CHEESES. SOCIÉTÉ DES ETABLISSEMENTS LOUIS RIGAL, Roquefort, France.
Filed October 18, 1927. Serial No. 256,268. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,149. CHEESES. SOCIÉTÉ DES ETABLISSEMENTS LOUIS RIGAL, Roquefort, France.
Filed October 18, 1927. Serial No. 256,267. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,150. WHEAT FLOUR. BAY CITY MILLING CO., Bay City, Mich.
Filed October 13, 1927. Serial No. 256,041. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,151. FACE POWDER, ROUGE, LIP STICK, ETC. MORTON G. NEUMANN, Chicago, Ill.
Filed July 15, 1927. Serial No. 252,126. PUBLISHED JANUARY 31, 1928. Class 6.

241,152. PREPARATION FOR THE TREATMENT OF GALLSTONES. JOHANNE HAGEMEISTER, doing business as J. Hagemeister & Son, Bedford Hills, N. Y.
Filed July 19, 1927. Serial No. 252,260. PUBLISHED JANUARY 31, 1928. Class 6.

241,153. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,126. PUBLISHED JANUARY 31, 1928. Class 6.

241,154. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,125. PUBLISHED JANUARY 31, 1928. Class 6.

241,155. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,124. PUBLISHED JANUARY 31, 1928. Class 6.

241,156. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,123. PUBLISHED JANUARY 31, 1928. Class 6.

241,157. PERFUMES. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed July 15, 1927. Serial No. 252,122. PUBLISHED JANUARY 31, 1928. Class 6.

241,158. SELF-RISING WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,964. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,159. WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed June 23, 1927. Serial No. 250,963. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,160. LADIES' GOWNS, PRINCESS SLIPS, CHEMISE, STEP-INS, BLOOMERS, PAJAMAS, AND NIGHTGOWNS MADE OF A VERY FINE-COMB-YARN CLOTH IN 100 COUNT, AND IN CRÊPE DE CHINE, COTTON, AND SILKS, TEXTILE FABRICS. CHESNIN, LEIS & CO., INC., New York, N. Y.
Filed November 10, 1927. Serial No. 257,345. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,161. ARTIFICIAL TEETH AND SETS OF TEETH. ZAHNFABRIK WIENAND SÖHNE & CO. GESELLSCHAFT MIT BESCHR. HAFTUNG, Sprendlingen, Germany.
Filed November 7, 1927. Serial No. 257,218. PUBLISHED FEBRUARY 14, 1928. Class 44.

241,162. ARTIFICIAL TEETH AND SETS OF TEETH. ZAHNFABRIK WIENAND SÖHNE & CO. GESELLSCHAFT MIT BESCHR. HAFTUNG, Sprendlingen, Germany.
Filed November 7, 1927. Serial No. 257,212. PUBLISHED FEBRUARY 14, 1928. Class 44.

241,163. BATH ROBES. NEW PROCESS COMPANY, Warren, Pa.
Filed November 5, 1927. Serial No. 257,114. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,164. SHOOTING COATS. SPORTCRAFT KNITTING & MFG. CO., Seattle, Wash.
Filed November 3, 1927. Serial No. 257,039. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,165. DRESSES FOR WOMEN AND MISSES. JACOB HOLTZMAN, New York, N. Y.
Filed October 29, 1927. Serial No. 256,778. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,166. WOMEN'S, MISSES', JUNIORS', AND CHILDREN'S DRESSES. SYNDICATE TRADING COMPANY, New York, N. Y.
Filed October 28, 1927. Serial No. 256,751. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,167. ICE BOXES, ICE MACHINES, COOLING BOXES, COOLING OR REFRIGERATING MACHINES, COOLING PLANTS, AND PARTS THEREOF. KODOWA REFRIGERATOR CO., LTD., The Hague, Netherlands.
Filed October 24, 1927. Serial No. 256,526. PUBLISHED FEBRUARY 14, 1928. Class 31.

241,168. LAMP SHADES MADE OF SILK OR ANY OTHER MATERIAL EXCEPTING GLASS, CHINA, AND PORCELAIN THAT CAN BE USED ON LAMP SHADES, AS WELL AS PAINTED LAMP SHADES AND ALSO LAMP STANDARDS. K-B-F CORPORATION, Chicago, Ill.
Filed October 21, 1927. Serial No. 256,409. PUBLISHED FEBRUARY 14, 1928. Class 34.

241,169. RUBBER CLOTHING, WATERPROOF CLOTHING, OILED CLOTHING AND ALL CLOTHING OF RAIN-PROOFED AND RUBBER-COATED MATERIALS—VIZ, SUITS, COATS, OVERALLS, APRONS, FOR HOUSEHOLD USE, HATS, CAPS, SLICKERS, CAPES, PONCHOS, AND LEGGINGS—FOR MEN, WOMEN, BOYS, AND GIRLS. EXCELLO RUBBER COMPANY INC., New York, N. Y.
Filed October 21, 1927. Serial No. 256,403. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,170. NONFERROUS-METAL PIPE, PIPE FITTINGS, BOLTS, NUTS, SCREWS, NOZZLES, BALL SEATS, GLANDS, WASHERS, PINS, RIVETS, RINGS, STUDS, JETS, SPINDLES, COLLARS, VALVES, AND VALVE PARTS. MUELLER BRASS COMPANY, Port Huron, Mich.
Filed October 15, 1927. Serial No. 256,135. PUBLISHED FEBRUARY 14, 1928. Class 18.

241,171. LEATHER SOLES FOR BOOTS AND SHOES. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed October 11, 1927. Serial No. 255,913. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,172. VEHICLE BUMPERS. STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill.
Filed October 3, 1927. Serial No. 255,576. PUBLISHED FEBRUARY 14, 1928. Class 19.

241,173. SANITARY PADS. HUGH A. MARTI COMPANY, Long Beach, Calif.
Filed September 24, 1927. Serial No. 255,186. PUBLISHED FEBRUARY 7, 1928. Class 44.

241,174. LIQUID ROOF PAINT—VIZ, A PAINT PRINCIPALLY COMPOSED OF GUMS AND FIBRE. DURO MANUFACTURING COMPANY, Charleston, Ill.
Filed September 21, 1927. Serial No. 254,998. PUBLISHED JANUARY 31, 1928. Class 16.

241,175. AN AUTOMOBILE AND FURNITURE POLISH PRODUCT. WILLIAM R. KNOTT, New Brunswick, N. J.
Filed September 16, 1927. Serial No. 254,803. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,176. LEATHER GLOVES. DAVID & BLUM, INC., New York, N. Y.
Filed September 10, 1927. Serial No. 254,576. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,177. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS, MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. THE MUNROE SHOE COMPANY, INC., Auburn, Me.
Filed September 8, 1927. Serial No. 254,357. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,178. ROUND BASINS, OVAL BATHS, JUGS, ETC. GEBRÜDER ADT AKTIENGESELLSCHAFT, Wachtersbach, Germany.
Filed September 8, 1927. Serial No. 254,351. PUBLISHED FEBRUARY 14, 1928. Class 2.

241,179. CLOTHING—NAMELY, LADIES' CLOAKS, COATS, SUITS, AND DRESSES. M. HIRSHFIELD, doing business as M. Hirshfield & Company and M. Hirshfield & Co., Los Angeles, Calif.
Filed September 2, 1927. Serial No. 254,280. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,180. CHILDREN'S, MISSES', AND LADIES' DRESSES, COATS, AND SUITS. MORRIS W. HAFT & BROS. INC., New York, N. Y.
Filed November 26, 1927. Serial No. 258,080. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,181. SHOES CONSTRUCTED OF LEATHER. THE H. C. GODMAN COMPANY, Columbus, Ohio.
Filed November 25, 1927. Serial No. 258,025. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,182. KALEIDOSCOPE FOR AMUSEMENT PURPOSES. ARTOP SPECIALTIES, Rochester, N. Y.
Filed November 25, 1927. Serial No. 258,014. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,183. CARBON BLACK. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa.
Filed November 23, 1927. Serial No. 257,994. PUBLISHED JANUARY 31, 1928. Class 16.

241,184. SHOES OF LEATHER. JOSEPH M. HERMAN SHOE CO., Millis, Mass.
Filed November 23, 1927. Serial No. 257,982. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,185. ALLOYS OF IRON WITH OTHER METALS. CLIMAX MOLYBDENUM COMPANY, New York, N. Y.
Filed November 22, 1927. Serial No. 257,918. PUBLISHED FEBRUARY 7, 1928. Class 14.

241,186. PAINTER'S SURFACING COMPOUND. THE MURALO COMPANY, INC., New Brighton, N. Y.
Filed November 21, 1927. Serial No. 257,888. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,187. LADIES' AND MISSES' DRESSES. CHARLES ZWIRN, doing business as Charles Zwirn Co., New York, N. Y.
Filed November 19, 1927. Serial No. 257,837. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,188. A VEGETABLE FOOD PRODUCT IN POWDERED FORM TO BE EATEN OR USED AS A SEASONING FOR OTHER FOODS. JOHN J. DUNN, doing business as Veg-E-Dine Co., New York, N. Y.
Filed November 19, 1927. Serial No. 257,791. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,189. WORSTED CLOTH GARMENTS—VIZ, SWEATERS AND BATHING SUITS; ALSO KNITTED SWEATERS AND BATHING SUITS; ALSO BOYS' KNITTED OUTER SUITS. ALBERTA MILLS, INC., Philadelphia, Pa.
Filed November 19, 1927. Serial No. 257,772. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,190. EMPTY COMPACT CONTAINERS, ROUGE CONTAINERS, POWDER CONTAINERS, VANITY CASES, AND COMBINATIONS OF THE ABOVE, ALSO COMBINATIONS OF THE ABOVE WITH CIGARETTE CONTAINERS AND COIN CONTAINERS, ALL BEING MADE OF MATERIAL OTHER THAN PRECIOUS METAL. TERRI, INC., New York, N. Y.
Filed November 18, 1927. Serial No. 257,765. PUBLISHED FEBRUARY 14, 1928. Class 2.

241,191. ATHLETIC AND SPORTING GOODS. KENWEL SPORTING GOODS CO., INC., Utica, N. Y.
Filed November 18, 1927. Serial No. 257,757. PUBLISHED JANUARY 31, 1928. Class 22.

241,192. CHILDREN'S KNITTED SWEATERS, PANTS, CAPS, AND COMBINATION SWEATER TOP AND KNITTED PANTS. R. G. S. NOVELTY CO. INC., New York, N. Y.
Filed November 15, 1927. Serial No. 257,599. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,193. HAMS, SHOULDERS, BONELESS BUTTS, ETC. JOHN MORRELL & Co., Ottumwa, Iowa.
Filed November 15, 1927. Serial No. 257,584. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,194. DRESSES FOR WOMEN, MISSES, AND CHILDREN. HERMANN & KUHN MFG. COMPANY, Memphis, Tenn.
Filed November 15, 1927. Serial No. 257,580. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,195. STEAM-HEATING BOILERS UTILIZING SOLID, LIQUID, AND GASEOUS FUEL. WHOLEY BOILER WORKS, INCORPORATED, Providence, R. I.
Filed November 11, 1927. Serial No. 257,460. PUBLISHED FEBRUARY 14, 1928. Class 34.

241,196. PAINT FOR FABRIC DECORATION. GYPSY DYES, INC., Chicago, Ill.
Filed November 11, 1927. Serial No. 257,409. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,197. GOLF BALLS. APASCO PURCHASE AND SALES CORPORATION, New York, N. Y.
Filed November 11, 1927. Serial No. 257,396. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,198. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed November 10, 1927. Serial No. 257,395. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,199. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed November 10, 1927. Serial No. 257,393. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,200. A POLISH FOR AUTOMOBILES, FURNITURE, AND ALL PAINTED AND VARNISHED SURFACES GENERALLY. DANIEL L. GOBLE, doing business as Clean Eze Polish Company, Birmingham, Ala.
Filed August 15, 1927. Serial No. 253,500. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,201. RAIL ANCHORS AND OTHER NAMED RAIL PRODUCTS AND FORGINGS. ROBERT W. HUNT Co., Chicago, Ill.
Filed July 29, 1927. Serial No. 252,710. PUBLISHED FEBRUARY 7, 1928. Class 14.

241,202. PARLOR BOARD GAMES PLAYED WITH PIECES. FREDRICK PFEIFFER, Sr., Freeport, N. Y.
Filed July 26, 1927. Serial No. 252,566. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,203. RESIN-CORE SOLDER. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,752. PUBLISHED FEBRUARY 7, 1928. Class 14.

241,204. RESIN-CORE SOLDER. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,751. PUBLISHED FEBRUARY 7, 1928. Class 14.

241,205. RESIN-CORE SOLDER. GRAYBAR ELECTRIC COMPANY, INC., New York, N. Y.
Filed July 9, 1927. Serial No. 251,750. PUBLISHED FEBRUARY 7, 1928. Class 14.

241,206. MEN'S, WOMEN'S, AND CHILDREN'S GLOVES OF WOOL, COTTON, RAYON, OR SILK OR COMBINATIONS THEREOF, STOCKINGS, SOCKS, SWEATERS, COAT SWEATERS, OVERCOATS, CAPS, HATS, COATS, AND SUITS, BATHING SUITS AND ROBES, MUFFLERS, SPORT SUITS AND KNICKERS, UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS, AND PYJAMAS. THERMO MILLS, INC., Hudson, N. Y.
Filed July 6, 1927. Serial No. 251,586. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,207. APRONS AND UNIFORMS FOR DOCTORS, NURSES, MAIDS, COOKS, AND WAITRESSES. MICHAEL JOSEPH CASEY, Seattle, Wash.
Filed June 21, 1927. Serial No. 250,884. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,208. JUVENILE SPORTING GOODS. THE BIG STORE CO., Cincinnati, Ohio.
Filed May 26, 1927. Serial No. 249,567. PUBLISHED JANUARY 31, 1928. Class 22.

241,209. CARD INDEXES, GUIDE CARDS FOR CARD INDEXES, CARDS, AND INDEXES. THE DURADEX COMPANY, New York, N. Y.
Filed April 13, 1927. Serial No. 247,363. PUBLISHED JULY 5, 1927. Class 37.

241,210. CERTAIN NAMED IRON AND STEEL PRODUCTS AND SPRING WIRE. KLOSTERS AKTIEBOLAG, Langshyttan, Sweden.
Filed April 1, 1927. Serial No. 246,758. PUBLISHED FEBRUARY 7, 1928. Class 14.

241,211. A TOY FERRIS WHEEL. FRANK LABIN, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y.
Filed March 7, 1927. Serial No. 245,351. PUBLISHED JANUARY 31, 1928. Class 22.

241,212. HOSIERY FOR MEN, WOMEN, AND CHILDREN. SIMON S. GLICKMAN, doing business as Glico Hosiery Co., Albany, N. Y.
Filed January 20, 1927. Serial No. 243,087. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,213. PAINT AND VARNISH COMPOSITIONS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed January 7, 1927. Serial No. 242,506. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,214. FISHING TACKLE—NAMELY, FISHING FLOATS. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed December 20, 1926. Serial No. 241,709. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,215. CHIRURGICAL INSTRUMENTS MADE OF GUM AND INDIA RUBBER. J. EYNARD & CIE., Paris, France.
Filed December 11, 1926. Serial No. 241,333. PUBLISHED FEBRUARY 14, 1928. Class 44.

241,216. WORKINGMEN'S CLOTHING—NAMELY, OVERALLS, COATS, AND COMBINATIONS CONSISTING OF PANTS AND COATS MADE OF OVERALL MATERIAL. LARNED, CARTER & COMPANY, Detroit, Mich.
Filed November 15, 1926. Serial No. 240,082. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,217. MACHINE DRIVE CHAINS, INCLUDING AUTOMOBILE AND BICYCLE CHAINS. DIAMOND CHAIN AND MANUFACTURING COMPANY, Indianapolis, Ind.
Filed September 16, 1926. Serial No. 237,814. PUBLISHED FEBRUARY 14, 1928. Class 18.

241,218. AUTOMOBILES AND LAUNCHES. MAYBACH-MOTORENBAU GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Friedrichshafen, Germany.
Filed December 17, 1025. Serial No. 224,824. PUBLISHED FEBRUARY 14, 1928. Class 19.

241,219. MEN'S AND BOYS' COATS, PANTS, VESTS, AND OVERCOATS. ROSENBERG BROTHERS & Co., Rochester, N. Y.
Filed November 20, 1925. Serial No. 228,606. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,220. FURNITURE POLISH AND POLISH FOR ALL VARNISHED SURFACES. JOHN N. CRAWFORD, doing business as Sovereign Products, Omaha, Nebr.
Filed November 28, 1927. Serial No. 258,116. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,221. MEN'S AND YOUNG MEN'S OVERCOATS, TOPCOATS, AND SUITS CONSISTING OF THREE PIECES—VIZ, JACKET, TROUSERS, AND VEST. VIC & HERMAN INC., Bronx, N. Y.
Filed November 29, 1927. Serial No. 258,201. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,222. FURNITURE POLISH AND FLOOR WAX. THE FULLER BRUSH COMPANY, Hartford, Conn.
Filed December 1, 1927. Serial No. 258,261. PUBLISHED JANUARY 31, 1928. Class 16.

241,223. FURNITURE CREAM. L. H. PARKE COMPANY, Philadelphia, Pa.
Filed December 1, 1927. Serial No. 258,278. PUBLISHED JANUARY 31, 1928. Class 16.

241,224. LOUNGING GOWNS, BATH ROBES, AND BEACH CAPES. FISCHER-JELENKO INC., New York, N. Y.
Filed December 2, 1927. Serial No. 258,320. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,225. GOLF CLUBS. THE VULCAN LAST COMPANY, doing business as Vulcan Golf Company, Portsmouth, Ohio.
Filed December 2, 1927. Serial No. 258,385. PUBLISHED JANUARY 31, 1928. Class 22.

241,226. GENTLEMEN'S MUFFLERS. CISCO, INC., New York, N. Y.
Filed December 3, 1927. Serial No. 258,399. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,227. DOMESTIC REFRIGERATING MACHINES. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill.
Filed December 3, 1927. Serial No. 258,443. PUBLISHED FEBRUARY 14, 1928. Class 31.

241,228. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed December 5, 1927. Serial No. 258,496. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,229. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed December 5, 1927. Serial No. 258,497. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,230. TOY MARBLES. GEO. BORGFELDT & Co., New York, N. Y.
Filed December 12, 1927. Serial No. 258,793. PUBLISHED JANUARY 31, 1928. Class 22.

241,231. PIE PLATES MADE OF METAL OTHER THAN PRECIOUS METAL. SAVE-ALL PIE PLATE Co., INC., New York, N. Y.
Filed December 12, 1927. Serial No. 258,834. PUBLISHED FEBRUARY 14, 1928. Class 13.

241,232. CAST TOOTH CROWNS. SCHWARTZ BROTHERS DENTAL LABORATORY Co., St. Louis, Mo.
Filed December 12, 1927. Serial No. 258,836. PUBLISHED FEBRUARY 14, 1928. Class 44.

241,233. TOY DOLLS AND FIGURES. TWINZY TOY COMPANY, Battle Creek, Mich.
Filed December 17, 1927. Serial No. 259,086. PUBLISHED FEBRUARY 7, 1928. Class 22.

241,234. GLOSS WHITE PAINT. JOHN MCQUADE & COMPANY, INC., Brooklyn, N. Y.
Filed December 19, 1927. Serial No. 259,129. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,235. A PAINT REMOVER PHILIP A. HUNT COMPANY, Brooklyn, N. Y.
Filed December 20, 1927. Serial No. 259,175. PUBLISHED FEBRUARY 7, 1928. Class 16.

241,236. ARCH SUPPORTS FOR SHOES. CHARLES L. SMITH, New York, N. Y.
Filed December 28, 1927. Serial No. 259,428. PUBLISHED FEBRUARY 14, 1928. Class 44.

241,237. IRONING BOARDS. R. R. STREET & Co., INC., Chicago, Ill.
Filed December 30, 1927. Serial No. 259,510. PUBLISHED FEBRUARY 14, 1928. Class 24.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

241,238. (CLASS 39. CLOTHING.) W. B. HUETTE SHOE COMPANY, St. Louis, Mo. Filed Nov. 7, 1927. Serial No. 257,160.

Huette's
WONDERFUL SHOES
And Hosiery

Particular description of goods.—Shoes Constructed of Leather, Rubber, or Fabric or Combinations of Those Materials, and Hosiery.
Claims use since 1901.

241,239. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES D. SCHMIDT, New York, N. Y. Filed Feb. 8, 1928. Serial No. 261,892.

SCHMIDT

Particular description of goods.—Antiskid Chains for Vehicle Use and Parts for Said Chains.
Claims use since July 1, 1919.

241,240. (CLASS 39. CLOTHING.) NICKOLS MANUFACTURING COMPANY, INC., Seattle, Wash. Filed Jan. 24, 1928. Serial No. 260,580.

HOLLYWOOD

Particular description of goods.—Frocks, Dresses, and Aprons for Women, Misses, and Children.
Claims use since January, 1927.

241,241. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. COHEN & SONS CORP., New York, N. Y. Filed Jan. 10, 1928. Serial No. 259,894.

EVERBRITE

Particular description of goods.—Toilet Sets Not Made of Precious Metal, Consisting of Combs, Brushes, Buttonhooks, Shoehorns, Nail Files, Hair Receivers, and Powder Jars.
Claims use since January, 1923.

241,242. (CLASS 39. CLOTHING.) PROPPER SILK HOSIERY MILLS, INC., New York, N. Y. Filed Jan. 9, 1928. Serial No. 259,873.

PROPPER "BLUE EDGE" HOSIERY

Particular description of goods.—Silk Hosiery.
Claims use since September, 1919.

241,243. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CARL W. FURNBERG, doing business as F. & H. Radio Laboratories, Fargo, N. Dak. Filed Aug. 1, 1927. Serial No. 252,826.

REESONATOR

Particular description of goods.—A Booster Device for Bringing the Aerial Into Resonance with the Incoming Frequency.
Claims use since Feb. 1, 1927.

241,244. (CLASS 39. CLOTHING.) LEO GLASER, New York, N. Y. Filed July 22, 1927. Serial No. 252,429.

Le Boy

Particular description of goods.—Boys' Suits, Overcoats, and Topcoats.
Claims use since Dec. 30, 1926.

241,245. (CLASS 39. CLOTHING.) BYRON GREENOUGH & COMPANY, Portland, Me. Filed May 16, 1927. Serial No. 249,043.

Cumberland

Particular description of goods.—Hats and Caps for the Use of Men, Women, and Children.
Claims use since February, 1927.

241,246. (CLASS 39. CLOTHING.) VERTEX HOSIERY MILLS, INC., Weissport, Pa. Filed Apr. 8, 1927. Serial No. 247,150.

KNIT STRIPE

Particular description of goods.—Hosiery.
Claims use since Feb. 21, 1927.

241,247. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS F. LAMBERT, Coatesville, Pa. Filed Apr. 6, 1927. Serial No. 247,027.



Particular description of goods.—Fresh and Preserved Mushrooms, Mushroom Spawn.
Claims use since Mar. 8, 1927.

241,248. (CLASS 39. CLOTHING.) HIGHLAND MILLS, INC., Little Falls, N. Y. Filed Mar. 22, 1927. Serial No. 246,160.

TRU-RIB-TOP

Particular description of goods.—Hosiery.
Claims use since Feb. 24, 1927.

241,249. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) M. M. FLERON & SON, INC., Trenton, N. J. Filed Mar. 18, 1927. Serial No. 245,975.

Fleron

Particular description of goods.—Lightning Arresters, Glass Insulators, Lead-In Bushings, and Aerial Outfits.
Claims use since 1923.

241,250. (CLASS 39. CLOTHING.) GLASER SHOE COMPANY, San Francisco, Calif., assignor to Glaser Shoe Company, San Francisco, Calif., a Corporation of California. Filed Feb. 10, 1927. Serial No. 244,149.

FOOT DEVELOPER

Particular description of goods.—Shoes of Canvas, Rubber, and Combinations Thereof.
Claims use since Dec. 26, 1922.

241,251. (CLASS 39. CLOTHING.) THE CROFUT & KNAPP CO., South Norwalk, Conn. Filed Jan. 27, 1927. Serial No. 243,420.

"The New Yorker"

Particular description of goods.—Felt Hats for Men.
Claims use since Jan. 1, 1927.

241,252. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) O. MUSTAD & SÖN, Oslo, Norway. Filed Oct. 25, 1926. Serial No. 239,189.

Mustad

Particular description of goods.—Nails and Horseshoe Nails.
Claims use since October, 1924.

241,253. (CLASS 21. ELECTRIC APPARATUS, MACHINES, AND SUPPLIES.) GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill. Filed Oct. 14, 1926. Serial No. 238,580.

Standard-B

Particular description of goods.—Battery Eliminators.
Claims use since Feb. 22, 1926.

241,254. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE KEY-TAG CHECKING SYSTEM COMPANY, Cleveland, Ohio. Filed Apr. 24, 1926. Serial No. 230,672.

KEY-TAG

Particular description of goods.—Laundry Checking and Identifying Appliances and Apparatus, Including Brackets, Spindles, Arms, Checks, Tags, Snaps, Clips, and Pins.
Claims use since about Mar. 1, 1926.

241,255. (CLASS 15. OILS AND GREASES.) FRANK Moscow, doing business as Scientific Lubricants Co., Chicago, Ill. Filed Jan. 2, 1926. Serial No. 225,440.

MOTOR MICA

Particular description of goods.—Lubricating Oils and Lubricating Grease for Machinery of All Kinds and Automobiles.
Claims use since September, 1914.

241,256. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOREST ELECTRIC CO., INC., Newark, N. J. Filed Oct. 10, 1925. Serial No. 221,547.

No-Bee

Particular description of goods.—Battery Chargers; Rectifiers and Filtering Devices for Supplying Direct Current to Electron Tubes, Thereby Eliminating B Batteries, and Rectifying Bulbs.
Claims use since Mar. 15, 1925, on battery chargers, rectifiers, and filtering devices and since June 1, 1925, on rectifying bulbs.

241,257. (CLASS 37. PAPER AND STATIONERY.) GORDON T. MALAN, Philadelphia, Pa. Filed Jan. 13, 1925. Serial No. 208,059.

MALAN METER

Particular description of goods.—Meter-Record Cards for Use in Connection with Pay Rolls.
Claims use since Dec. 3, 1924.

241,258. (CLASS 39. CLOTHING.) A. M. LEGG SHOE COMPANY, Pontiac, Ill. Filed Feb. 15, 1927. Serial No. 244,405.



Particular description of goods.—Ladies' and Children's Shoes of Leather or Combinations of Canvas and Textile Materials.
Claims use since Jan. 1, 1926.

241,259. (CLASS 39. CLOTHING.) L. GREIF & BRO. INCORPORATED, Baltimore, Md. Filed Feb. 26, 1927. Serial No. 244,928.

Nottingham

Particular description of goods.—Topcoats, Overcoats, Coats, Vests, Trousers, and Knickerbockers for Men, Youths, and Boys.
Claims use since Feb. 1, 1927.

241,260. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUTTO ENGINEERING COMPANY, INC., Detroit, Mich. Filed Mar. 25, 1927. Serial No. 246,348.

HUTTO SINGLE THREE

Particular description of goods.—Devices for Grinding Cylinders Manually or by Power.
Claims use since about Jan. 20, 1927.

241,261. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUTTO ENGINEERING COMPANY, INC., Detroit, Mich. Filed Mar. 25, 1927. Serial No. 246,349.

HUTTO TWIN THREE

Particular description of goods.—Devices for Grinding Cylinders Manually or by Power.
Claims use since on or about Jan. 29, 1927.

241,262. (CLASS 39. CLOTHING.) LAZARUS-MEYER CO., INC., New York, N. Y. Filed Apr. 1, 1927. Serial No. 246,762.

Glenmore

Particular description of goods.—Ladies' Hats.
Claims use since Mar. 10, 1927.

241,263. (CLASS 39. CLOTHING.) FRIEDLANDER BROS., Moultrie, Ga. Filed May 24, 1927. Serial No. 249,473.

YOUR MONEY'S WORTH

Particular description of goods.—Overalls. Dress and Work Shirts, Pants, Men's, Women's, and Children's Hats and Caps, Ties, and Scarfs.
Claims use since Mar. 5, 1927.

241,264. (CLASS 39. CLOTHING.) PERKINS DRY GOODS COMPANY, Dallas, Tex. Filed May 31, 1927. Serial No. 249,804.

RIDGEWAY

Particular description of goods.—Men's and Boys' Overalls and Work Pants, Work Shirts, Knit Underwear, and Dress Shirts.
Claims use since February, 1927.

241,265. (CLASS 39. CLOTHING.) MCLOUGHLIN MANUFACTURING COMPANY, Indianapolis, Ind. Filed Aug. 13, 1927. Serial No. 253,423.

TRIPL-STRAP

Particular description of goods.—Textile-Fabric Underwear for Men, Women, and Children.
Claims use since on or about Mar. 1, 1927.

241,266. (CLASS 39. CLOTHING.) LEON LYONS, doing business as Lyons Hose Protector Company, Omaha, Nebr. Filed Aug. 27, 1927. Serial No. 254,043.

Peerless

Particular description of goods.—Hose Protector to be Adhesively Secured to the Inner Surface of the Upper Heel of a Shoe.
Claims use since Jan. 15, 1927.

241,267. (CLASS 39. CLOTHING.) EXCELLO RUBBER COMPANY, INC., New York, N. Y. Filed Sept. 6, 1927. Serial No. 254,393.

Marinette

Particular description of goods.—Rubber and Oilskin Articles of Clothing—viz, Suits, Coats, Overalls, Aprons, Hats, Caps, Slickers, Capes, Ponchos, and Leggings.
Claims use since June 1, 1926.

241,268. (CLASS 37. PAPER AND STATIONERY.) MORRISON FOUNTAIN PEN CO., New York, N. Y. Filed Oct. 29, 1927. Serial No. 256,788.

Morton

Particular description of goods.—Fountain Pens and Pencils.
Claims use since about Oct. 10, 1926.

241,269. (CLASS 39. CLOTHING.) SAGNER & SILBER, Baltimore, Md. Filed Nov. 11, 1927. Serial No. 257,443.

Englishtown

Particular description of goods.—Men's and Boys' Clothing—Namely, Coats, Pants, Vests, and Overcoats.
Claims use since Jan. 15, 1927.

241,270. (CLASS 32. FURNITURE AND UPHOLSTERY.) LACK MANUFACTURING COMPANY, Paducah, Ky. Filed Jan. 12, 1928. Serial No. 260,022.

Sho-aLL

Particular description of goods.—Display Racks or Fixtures for Displaying Neckties.
Claims use since Mar. 7, 1927.

241,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHAMBERLAIN COMPANY, Pittsburgh, Pa. Filed Jan. 17, 1928. Serial No. 260,214.

NO-FUME

Particular description of goods.—A Cleansing Substance Particularly Adaptable for Use in Cleansing Water-Closets, Sewers, Drains, Pipes, Cesspools, Ice-Box Drains, Garbage Cans, Garage Floors, Greasy Tools, Automobile Radiators, and Analogous Uses.
Claims use since 1917.

241,272. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLLIN TERRY, doing business as C. Terry Herb Co., New York, N. Y. Filed Mar. 6, 1928. Serial No. 262,686.

TERRY'S

Particular description of goods.—Systemic Tonic and Regulator Tea.
Claims use since Jan. 1, 1924.

TRADE-MARK REGISTRATIONS RENEWED

30,527. LAGER BEER. Registered August 31, 1897. AKTIENBRAUEREI ZUM LÖWENBRÄU IN MÜNCHEN, Munich, Germany, a Corporation of Germany. Renewed August 31, 1927.

31,433. STEEL PENS. Registered March 22, 1898. C. BRANDAUER & CO. Renewed March 22, 1928, to C. Brandauer & Company, Limited, Birmingham, England, a Corporation of Great Britain, successor.

31,559. WHISKY. Registered May 17, 1898. BERNARD & Co. Renewed May 17, 1928, to Bernard & Co. (Leith Distillery) Ltd., Leith, England, a Corporation of Great Britain, assignee.

31,578. CERTAIN NAMED MEATS AND COMPOUNDS. Registered May 24, 1898. SWIFT AND COMPANY, Chicago, Ill., and St. Paul, Minn. Renewed May 24, 1928, to Swift and Company, Chicago, Ill., a Corporation of Illinois.

31,713. A CERTAIN NAMED MEDICAL PREPARATION. Registered June 21, 1898. JOHN LINDEN, Cleveland, Ohio. Renewed June 21, 1928.

31,861. LUBRICATING OILS. Registered August 9, 1898. VACUUM OIL COMPANY, Rochester, N. Y. Renewed August 9, 1928, to Vacuum Oil Co., New York, N. Y., a Corporation of New York.

31,907. TEXTILE MATERIAL WITH FLEXIBLE WATERPROOF COATING. Registered August 30, 1898. THE KERATOL COMPANY, Newark, N. J., a Corporation of New Jersey. Renewed August 30, 1928.

57,618. MINCEMEAT. Registered November 13, 1906. WHIPPLE CO-OPERATIVE COMPANY. Renewed November 13, 1926, to Lewis E. Whipple, Natick, Mass., trustee of The Whipple Company, a Common-Law Trust of Massachusetts, assignee by mesne assignments.

63,113. CREAM SEPARATORS. Registered June 4, 1907. ALBAUGH BROS. DOVER & CO. Renewed June 4, 1927, to Albaugh-Dover Manufacturing Company, Chicago, Ill., a Corporation of Illinois, successor.

66,522. A TOILET CREAM. Registered December 10, 1907. OGDEN AND SHIMER. Renewed December 10, 1927, to Harry C. Ogden, Middletown, N. Y., assignee by mesne assignments.

66,647. A COUGH MIXTURE. Registered December 17, 1907. OGDEN AND SHIMER. Renewed December 17, 1927, to Harry C. Ogden, Middletown, N. Y., assignee by mesne assignments.

67,088. PENCILS, ERASING RUBBER, AND PENHOLDERS. Registered January 14, 1908. BLEISTIFT-FABRIK VORM. JOHANN FABER A.-G., Nuremberg, Germany, a Corporation of Germany. Renewed January 14, 1928.

67,089. PENCILS AND ERASING RUBBER. Registered January 14, 1908. BLEISTIFT-FABRIK VORM. JOHANN FABER A.-G., Nuremberg, Germany, a Corporation of Germany. Renewed January 14, 1928.

67,090. CERTAIN PENCILS. Registered January 14, 1908. BLEISTIFT-FABRIK VORM. JOHANN FABER A.-G., Nuremberg, Germany, a Corporation of Germany. Renewed January 14, 1928.

67,098. PRINTED BOOKS, PAMPHLETS, AND MAGAZINES. Registered January 14, 1908, to Glen Agassiz Bernard, New York, N. Y. Renewed January 14, 1928, to Pierre A. Bernard, Nyack, N. Y., successor.

67,337. MIXED PAINTS AND VARNISHES. Registered January 28, 1908. SOCIETE LE RIPOLIN (SOCIETE ANONYME FRANCAISE DE PEINTURES LAQUERS ET D' ENDUITS SOUS-MARINS, PROCEDES LEFRANC & BRIDGLER REUNIS), Paris, France, a Corporation of France. Renewed January 28, 1928.

67,753. OUTLET BUSHINGS FOR ELECTRIC WIRING PURPOSES. Registered February 18, 1908. CROUSE-HINDS COMPANY, as assignee of Appleton Electric Company. Renewed February 18, 1928, to Crouse Hinds Company, Syracuse, N. Y., a Corporation of New York, assignee.

68,001. LAWN MOWERS. Registered March 3, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 3, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, assignee.

68,011. HAMMERS. Registered March 3, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 3, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, assignee.

68,012. NONCUTTING PLIERS, NONCUTTING PINCERS, WRENCHES, AND PUTTY KNIVES. Registered March 3, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 3, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, assignee.

68,013. PICKS, GRUB HOES, TROWELS, SHOVELS, AND SPADES. Registered March 3, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 3, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, assignee.

68,051. COATS, PANTS, VESTS, AND OVERCOATS. Registered March 3, 1908. H. M. LINDENTHAL AND SONS. Renewed March 3, 1928, to Ed V. Price & Co., Chicago, Ill., a Corporation of Illinois, assignee.

68,052. ICE SKATES. Registered March 3, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 3, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, assignee.

68,186. NECKTIES. Registered March 10, 1908. H. C. COHN AND COMPANY, Rochester, N. Y. Renewed March 10, 1928.

68,206. STATIONARY AND MARINE INTERNAL-COMBUSTION ENGINES. Registered March 17, 1908. THE "NEW WAY" MOTOR COMPANY, Lansing, Mich., a Corporation of Michigan. Renewed March 17, 1928.

68,255. CERTAIN CLOTHING. Registered March 17, 1908. HERMAN BROTHERS COMPANY, Lincoln, Nebr. Renewed March 17, 1928, to The Knorr Mercantile Company, Wichita, Kans., a Corporation of Kansas, assignee by mesne assignments.

68,317. KNITTED WAISTS. Registered March 24, 1908. JOHN F. QUINN. Renewed March 24, 1928, to Pearl Waist Co. Inc., Cohoes, N. Y., a Corporation of New York, successor.

68,369. SILVER-PLATED FLATWARE, HOLLOW WARE, AND TABLEWARE. Registered March 31, 1908. WM. A. ROGERS LIMITED, Toronto, Canada, and Niagara Falls, N. Y., a Corporation of Ontario, Canada. Renewed March 31, 1928.

68,717. WRITING PAPER, WRITING TABLETS AND PADS, AND ENVELOPES. Registered April 28, 1908. THE AMERICAN NEWS COMPANY. Renewed April 28, 1928, to The American News Company, Inc., New York, N. Y., a Corporation of New York, successor.

68,785. RAISINS AND DRIED FRUITS. Registered April 28, 1908. WILLIS PIKE. Renewed April 28, 1928, to Sun-Maid Raisin Growers of California, Fresno, Calif., an Incorporated Cooperative Association of California, assignee.

68,840. HOSE SUPPORTERS. Registered April 28, 1908. THE WARNER BROTHERS COMPANY, Bridgeport, Conn., a Corporation of Connecticut. Renewed April 28, 1928.

68,898. CERTAIN CHEMICALS. Registered May 5, 1908. NEW YORK QUININE & CHEMICAL WORKS LIMITED, New York, N. Y. Renewed May 5, 1928, to The New York Quinine and Chemical Works, Inc., Brooklyn, N. Y., a Corporation of New York, assignee.

68,917. WHEAT FLOUR. Registered May 5, 1908. J. OLNEY NORRIS, Baltimore, Md. Renewed May 5, 1928, to Holt & Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

68,934. CERTAIN MEDICINES. Registered May 5, 1908. FRIEDRICH ADOLF RICHTER, Rudolstadt, Germany, and New York, N. Y. Renewed May 5, 1928, to F. Ad. Richter & Co. of New York, Brooklyn, N. Y., a Corporation of New York, assignee.

68,935. CERTAIN MEDICINES. Registered May 5, 1908. FRIEDRICH ADOLF RICHTER, Rudolstadt, Germany, and New York, N. Y. Renewed May 5, 1928, to F. Ad. Richter & Co. of New York, Brooklyn, N. Y., a Corporation of New York, assignee.

68,955. RUBBER BOOTS AND SHOES AND RUBBER SOLES. Registered May 12, 1908. NATIONAL INDIA RUBBER COMPANY, Bristol, R. I., a Corporation of Rhode Island. Renewed May 12, 1928.

69,026. PICKLES. Registered May 12, 1908. MACONOCHIE BROS. LTD., London, England, a Corporation of Great Britain. Renewed May 12, 1928.

69,087. HOSIERY. Registered May 19, 1908. PARAMOUNT KNITTING COMPANY. Renewed May 19, 1928, to Bear Brand Hosiery Co., Chicago, Ill., a Corporation of Illinois, assignee.

69,336. CASH CARRIERS AND PACKAGE CARRIERS. Registered June 9, 1908. AIR LINE CARRIER CO., Chicago, Ill. Renewed June 9, 1928, to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts, successor.

69,474. FLOURS MADE FROM WHEAT. Registered June 16, 1908. WESTERN FLOUR MILL COMPANY, Davenport, Iowa. Renewed June 16, 1928, to International Milling Company, Minneapolis, Minn., a Corporation of Delaware, assignee by mesne assignments.

69,524. RUBBER WATER BOTTLES AND RUBBER SYRINGE BAGS. Registered June 16, 1908. NATIONAL INDIA RUBBER COMPANY, Bristol, R. I., a Corporation of Rhode Island. Renewed June 16, 1928.

69,593. BLUE FOR LAUNDRY PURPOSES. Registered June 23, 1908. RECKITT & SONS LIMITED, Hull, England. Renewed June 23, 1928, to Reckitts (U. S. A.), Ltd., Hull, England, and New Brunswick, N. J., a Corporation of Great Britain, assignee.

69,706. WATCHES AND CLOCKS. Registered July 7, 1908. THE WESTERN CLOCK MFG. CO. Renewed July 7, 1928, to Western Clock Company, La Salle, Ill., a Corporation of Illinois, assignee.

69,871. CERTAIN ELECTRICAL CONDUCTORS AND CABLES. Registered July 14, 1908. STANDARD UNDERGROUND CABLE COMPANY, Pittsburgh, Pa. Renewed July 14, 1928, to General Cable Corporation, New York, N. Y., a Corporation of New Jersey, assignee.

69,879. STAMPED SHEET-METAL WARE. Registered July 14, 1908. THE CENTRAL STAMPING COMPANY, New York, N. Y., a Corporation of New York. Renewed July 14, 1928.

69,936. HAIR TONIC, DANDRUFF REMOVER, AND SHAMPOO PREPARATIONS. Registered July 21, 1908. FRED W. FITCH, Boone, Iowa. Renewed July 21, 1928, to F. W. Fitch Company, Des Moines, Iowa, a Corporation of Iowa, assignee.

70,069. TIMBER, LOGS, LUMBER, AND LUMBER MANUFACTURES. Registered July 28, 1908. THE REES-SCOTT COMPANY, LTD., New Orleans, La., a Corporation of Louisiana. Renewed July 28, 1928.

70,258. A HAIR WASH. Registered August 18, 1908. THE KOKO MARICOPAS COMPANY LIMITED, London, England, an Incorporated Company of Great Britain. Renewed August 18, 1928.

70,342. WHEAT FLOUR. Registered August 25, 1908. THE DURST MILLING COMPANY, Dayton, Ohio, a Corporation of Ohio. Renewed August 25, 1928.

70,412. COTTON DUCK. Registered August 25, 1908. JOHN BOYLE & CO. INC., New York, N. Y., a Corporation of New York. Renewed August 25, 1928.

70,415. CANNED FRUITS AND VEGETABLES, TAPIOCA, CORNSTARCH, AND EXTRACT OF VANILLA. Registered August 25, 1908. HERMAN KUSSY. Renewed August 25, 1928, to Herman Kussy Company, Newark, N. J., a Corporation of New Jersey, successor.

70,440. CERTAIN LANTERNS. Registered September 1, 1908. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Renewed September 1, 1928, to Simmons Hardware Company, New Haven, Conn., a Corporation of Missouri.

LABELS

REGISTERED APRIL 17, 1928.

33,838.—*Title:* WHITE CAP MARSHMALLOWS. For Candy. ALBERTA CANDY COMPANY, INC., San Francisco, Calif. Published February 13, 1928.

33,839.—*Title:* ORIENTALS. For Candy. BECKETT CANDY CO., Shelby, Ohio. Published August 30, 1927.

33,840.—*Title:* CARNATION 'FROM CONTENTED COWS.' For Evaporated Milk. CARNATION MILK PRODUCTS CO., Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash. Published January 30, 1928.

33,841.—*Title:* ROMANCE. For Cigarettes. DELUX TOBACCO COMPANY, Portsmouth, Ohio. Published February 14, 1928.

33,842.—*Title:* THUNDERBOLT. For Tire Patches. FRED J. HAGERLING, St. Louis, Mo. Published February 15, 1928.

33,843.—*Title:* THUNDERBOLT. For Tire Patches. FRED J. HAGERLING, St. Louis, Mo. Published February 15, 1928.

33,844.—*Title:* THUNDERBOLT. For Tire Patches. FRED J. HAGERLING, St. Louis, Mo. Published February 15, 1928.

33,845.—*Title:* HEIDE'S CANDIES OF QUALITY 10-G-3. For Candy. HENRY HEIDE, INC., New York, N. Y. Published November 1, 1927.

33,846.—*Title:* JACOBS REMEDY. For Remedy for Coughs and Colds. W. W. JACOBS, doing business as Jacobs Remedy Company, Louisville, Ky. Published February 1, 1928.

33,847.—*Title:* ALL O. K. For Vegetables. A. O. KOLBERG, McAllen, Tex. Published December 30, 1927.

33,848.—*Title:* HIND'S ROYAL. For Canned Figs. LAND OWNERS PACKING CO., Los Angeles and San Francisco, Calif. Published October 13, 1927.

33,849.—*Title:* LEWIS' SINGLE BINDER, STRAIGHT 5¢ CIGAR. For Cigars. FRANK P. LEWIS CIGAR CO., Peoria, Ill. Published January 1, 1928.

33,850.—*Title:* MISS AMERICA HUMAN HAIR NET. For Hair Nets. H. A. LOEB & CO., Chicago, Ill. Published January 15, 1928.

33,851.—*Title:* TONI-KAPS. For Tonic Capsules. DENNIS B. LONG, Battle Creek, Mich. Published December 22, 1927.

33,852.—*Title:* LAX-KAPS. For Laxative Capsules. DENNIS B. LONG, Battle Creek, Mich. Published December 22, 1927.

33,853.—*Title:* ZION OCEAN-FLYER POPS. For Candy. THE MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Published February 24, 1928.

33,854.—*Title:* AUNT EDNA'S CHATEAU CHOCOLATES. For Candy. THE MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Published February 24, 1928.

33,855.—*Title:* AUNT EDNA'S GAY PAREE CHOCOLATES. For Candy. THE MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Published February 24, 1928.

33,856.—*Title:* AUNT EDNA'S SEASIDE CHOCOLATES. For Candy. THE MILWAUKEE PAPER BOX CO., Milwaukee, Wis. Published February 24, 1928.

33,857.—*Title:* SCHULTZ ANIMAL COMPOUND. For Lure for Foxes, Wolves, and Coyotes. NATIONAL FOX & WOLF SCENT SUPPLY CO., Chilhowee, Mo. Published February 11, 1928.

33,858.—*Title:* JUNOY, FRAGRANT DEPILATORY. For Depilatory. HELEN MILLER NOYES, Carthage, Ill., and New York, N. Y. Published December 20, 1927.

33,859.—*Title:* MI-OWN. For Coffee. SAMUEL L. PFEFFERKORN, doing business as Louis Pfefferkorn, Baltimore, Md. Published January 16, 1928.

33,860.—*Title:* RADIO QUESTIONAIRE. For An Educational and Amusement Device. RADIO QUESTIONAIRE CORP., Boston, Mass. Published February 20, 1928.

33,861.—*Title:* RATH'S BLACK HAWK PORK DAINTIES. For Smoked Butts. THE RATH PACKING COMPANY, Waterloo, Iowa. Published December 1, 1927.

33,862.—*Title:* RED BIRD. For Chili Con Carne. RED BIRD CHILLI COMPANY, St. Joseph, Md. Published February 25, 1928.

33,863.—*Title:* COUGH-NIX. For Cough Medicine. MAX REISNER, Cleveland, Ohio. Published October 10, 1927.

33,864.—*Title:* SACKETT SMOKING TOBACCO DENICOTINED. For Tobacco Products for Smoking. HUBERT SACKETT, New York, N. Y. Published February 1, 1928.

33,865.—*Title:* SILVA-BROS. For Grape Syrup. SILVA BROS., Mills, Calif. Published December 9, 1927.

33,866.—*Title:* KORN KURE. For Compounds for Treating Corns. THE STEVENS-WILEY MFG., CO., INC., Philadelphia, Pa. Published December 31, 1927.

33,867.—*Title:* SUPER SERVICE. For Powdered Graphite. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,868.—*Title:* SUPER SERVICE. For Tire Talc. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,869.—*Title:* SUPER SERVICE. For Flake Graphite. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,870.—*Title:* SUPER SERVICE. For Touch-Up Enamel. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,871.—*Title:* SUPER SERVICE. For Tire Plaster Patches. SUPER SERVICE CORPORATION, Omaha, Nebr. Published December 15, 1926.

33,872.—*Title:* MUR-COP. For Paint. WESTCOTT, SLADE & BALCOM COMPANY, Providence, R. I. Published February 18, 1928.

PRINTS

REGISTERED APRIL 17, 1928.

10,776.—*Title:* THE DAY YOU DISCOVER YOU HAVE A SQUARE FACE. For Venetian Toilet Preparations. ARDEN CHEMICAL CO., INC., doing business as Elizabeth Arden, New York, N. Y. Published February 24, 1928.

10,777.—*Title:* STRENGTH. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published February 18, 1928.

10,778.—*Title:* THEY ALWAYS HOLD. For Clamp Nails. CLAMP NAIL COMPANY, Chicago, Ill. Published January 3, 1928.

10,779.—*Title:* DIXIE KING. For Mattresses. COTTON BELT MANUFACTURING COMPANY, Rocky Mount, N. C. Published September 1, 1926.

10,780.—*Title:* GREATER EVEN THAN ITS BEAUTY IS THE PERFORMANCE OF THE NEW FORD CAR. For Automobiles. FORD MOTOR COMPANY, Detroit, Mich. Published January 7, 1928.

10,781.—*Title:* THE NEW FORD CAR—AN ANNOUNCEMENT OF UNUSUAL IMPORTANCE TO EVERY AUTOMOBILE OWNER. For Automobiles. FORD MOTOR COMPANY, Detroit, Mich. Published November 28, 1927.

10,782.—*Title:* IMPORTANT FACTS ABOUT THE NEW FORD CAR. For Automobiles. FORD MOTOR COMPANY, Detroit, Mich. Published November 29, 1927.

10,783.—*Title:* NEW FORD CAR EXCEEDS ALL EXPECTATIONS. For Automobiles. FORD MOTOR COMPANY, Detroit, Mich. Published December 5, 1927.

10,784.—*Title:* MORE THAN A NEW AUTOMOBILE MORE THAN A NEW MODEL. For Automobiles. FORD MOTOR COMPANY, Detroit, Mich. Published December 17, 1927.

10,785.—*Title:* FIRST PICTURES OF THE NEW FORD CAR. For Automobiles. FORD MOTOR COMPANY, Detroit, Mich. Published December 1, 1927.

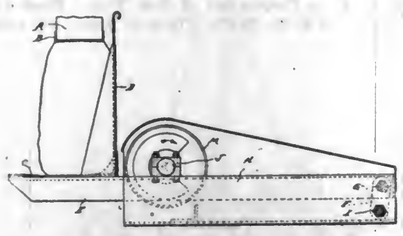
10,786.—*Title:* SUGGESTIONS. For Soda-Fountain Supplies. J. HUNGERFORD SMITH CO., Rochester, N. Y. Published February 1, 1928.

10,787.—*Title:* IN ALL HISTORY NEVER BEFORE SUCH GOOD BREAD. For Bread. ROBERT L. WHIPPLE, Worcester, Mass. Published February 2, 1928.

REISSUES

APRIL 17, 1928.

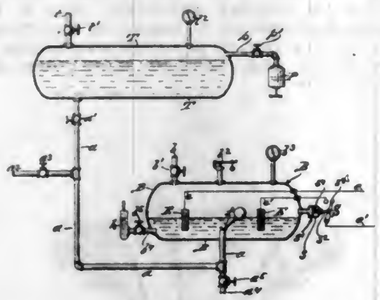
16,934. BAG-FILLING MACHINE. ANTONY WERTENBRUCH, Detroit, Mich., assignor to Larrowe Milling Company, Detroit, Mich., a Corporation of Ohio. Filed Dec. 5, 1927. Serial No. 237,962. Original No. 1,616,016, dated Feb. 1, 1927, Serial No. 67,984, filed Nov. 9, 1925. 9 Claims. (Cl. 226—55.)



6. The combination with means for discharging material into the mouth of a container, of a support for the bottom and one side of the container comprising a platform and a vertically extending wall mounted on said platform, said platform adapted to be mounted on a frame comprising a pair of horizontally extending parallel bars, and means for imparting an oscillatory movement to said frame in a vertical plane and in a direction to press the wall against said container on reversal from downward to upward movement of the platform.

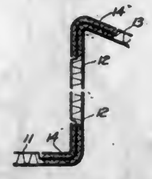
9. The combination with means for discharging material into the mouth of a receptacle, of a support for said receptacle, means for imparting to said support a gyratory movement in a vertical plane and in a direction to press the material by its inertia against one side of said receptacle during and subsequent to reversal from downward to upward movement of said support.

16,935. ELECTRICAL STEAM GENERATION. THEOBALD H. NOLL, Bronx, N. Y., assignor to Andrew J. Dispenza. Filed May 10, 1927. Serial No. 190,849. Original No. 1,539,692, dated May 26, 1925, filed Aug. 31, 1923, Serial No. 660,287. 16 Claims. (Cl. 219—40.)



1. In electrical steam heating apparatus of the character designated, the combination of a liquid reservoir tank, means for injecting air under pressure thereinto, a boiler connected with said reservoir tank by means which admit of the transfer of liquid from said tank to said boiler, electrodes positioned in said boiler and connected with an electric circuit, and an exit service steam conduit connected with said boiler, substantially in the manner and for the purpose set forth.

16,936. BOX CONSTRUCTION. CARL R. SHAFER, Detroit, Mich., assignor to Box Patents Corporation, Bordentown, N. J., a Corporation of New Jersey. Filed May 21, 1926. Serial No. 110,827. Original No. 1,417,776, dated May 30, 1922, Serial No. 413,182, filed Sept. 27, 1920. 4 Claims. (Cl. 229—49.)

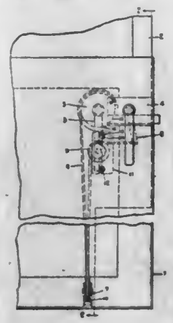


1. As a new article of manufacture, a container having walls made of cellular material having an inset cellular reinforcement, the installation of which changes the original shape of the cells of the reinforcement and of the material.

16,937. FUEL FOR USE IN INTERNAL-COMBUSTION ENGINES. SAMUEL ISERMAN, Summit, N. J., and WALDEMAR VERNET and EDMUND QUINCY MOSES, New York, N. Y., assignors, by mesne assignments, to Frank J. Hall and L. B. Rattermann, Cincinnati, Ohio. Filed Mar. 10, 1928. Serial No. 260,800. Original No. 1,654,259, dated Dec. 27, 1927, Serial No. 727,426, filed July 22, 1924. 11 Claims. (Cl. 44—9.)

1. A fuel ingredient for removing carbon from the cylinders of internal combustion engines, said ingredients containing 1.4 ditoluido anthraquinone as a coloring matter.

16,938. OPERATING MEANS FOR AUTOMOBILE-DOOR LATCHES. FREDERICK KLEINSMITH, Indianapolis, Ind., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 15, 1925. Serial No. 30,601. Original No. 1,484,031, dated Feb. 19, 1924, Serial No. 526,188, filed Dec. 31, 1921. Renewed Oct. 19, 1923. 11 Claims. (Cl. 296—48.)

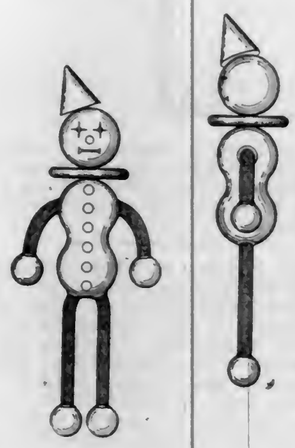


1. The combination with an automobile door having a sliding panel therein, of a latch at one side of the path of the panel, an operating handle at the opposite side of the path of said panel, a sheave in the lower portion of said door, and a flexible member extending from said handle to said latch and beneath said sheave for removing the flexible member from the path of the panel.

DESIGNS

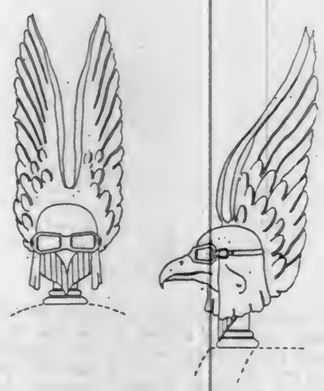
APRIL 17, 1928.

74,911. DOLL. EDWIN V. BABBITT, Fairhaven, Mass. Filed Jan. 12, 1926. Serial No. 16,029. Term of patent 14 years.



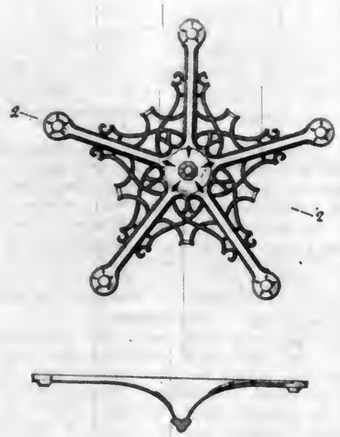
The ornamental design for a doll substantially as shown.

74,912. RADIATOR CAP. LENORE BOATRIGHT, Sausalito, Calif. Filed Aug. 18, 1927. Serial No. 23,139. Term of patent 3½ years.



The ornamental design for a radiator cap as shown.

74,913. BODY FRAME FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1928. Serial No. 25,011. Term of patent 3½ years.



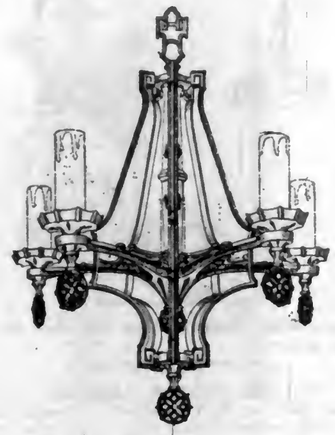
The ornamental design for a body frame for lighting fixtures or similar articles, as shown.

74,914. CANOPY FOR ELECTRIC-LIGHTING FIXTURES OR SIMILAR ARTICLES. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1928. Serial No. 25,012. Term of patent 3½ years.



The ornamental design for a canopy for electric lighting fixtures or similar articles, as shown.

74,915. CHANDELIER OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1928. Serial No. 25,013. Term of patent 3½ years.



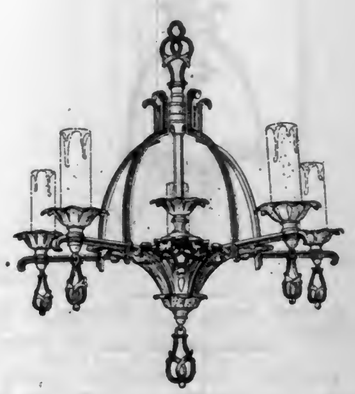
The ornamental design for a chandelier or similar article, as shown.

74,916. ELECTRIC WALL-BRACKET PLATE OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1928. Serial No. 25,092. Term of patent 3½ years.



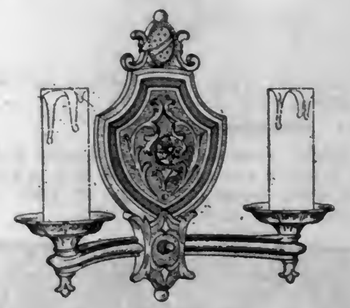
The ornamental design for an electric wall bracket plate or similar article, as shown.

74,917. CHANDELIER OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1928. Serial No. 25,093. Term of patent 3½ years.



The ornamental design for a chandelier or similar article as shown.

74,918. ELECTRIC WALL-BRACKET PLATE OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1928. Serial No. 25,094. Term of patent 3½ years.



The ornamental design for an electric wall bracket plate or similar article, as shown.

74,919. CHANDELIER OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1928. Serial No. 25,095. Term of patent 3½ years.



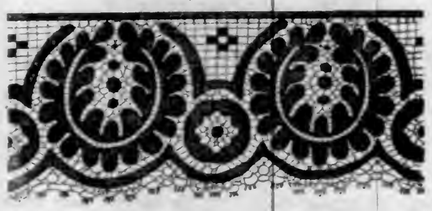
The ornamental design for a chandelier or similar article, as shown.

74,920. ELECTRIC WALL-BRACKET PLATE OR SIMILAR ARTICLE. JOHN A. BOEHRINGER, Springfield, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1928. Serial No. 25,096. Term of patent 3½ years.



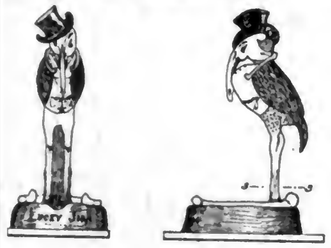
The ornamental design for an electric wall bracket plate or similar article, as shown.

74,921. LACE. ALPHONSE M. DODD, Warwick, R. I., assignor to Phenix Lace Mills, Phenix, R. I., a Corporation of Rhode Island. Filed Mar. 17, 1927. Serial No. 21,173. Term of patent 3½ years.



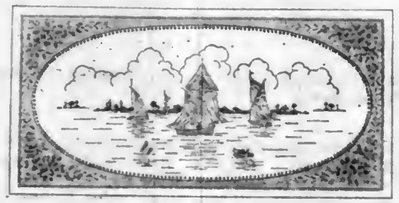
The ornamental design for lace, substantially as shown.

74,922. ASH TRAY OR SIMILAR ARTICLE. DORIS M. EATON, Springfield, Mass. Filed Jan. 18, 1928. Serial No. 24,911. Term of patent 7 years.



The ornamental design for an ash tray or similar article, as shown.

74,923. RUG OR SIMILAR ARTICLE. OSCAR W. FAUSER, Bellerose, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Nov. 19, 1927. Serial No. 24,207. Term of patent 7 years.



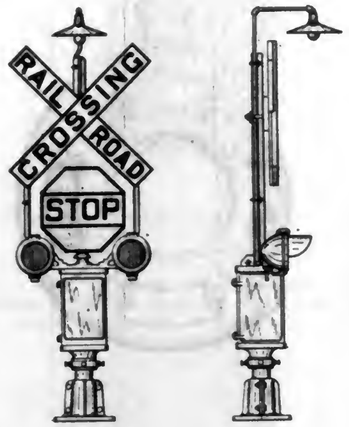
The ornamental design for a rug or similar article, substantially as shown.

74,924. COMBINED SALT AND PEPPER SHAKER. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 2, 1927. Serial No. 20,937. Term of patent 7 years.



The ornamental design for a combined salt and pepper shaker substantially as shown.

74,925. TRAFFIC SIGNAL. FRANK W. GRISWOLD, Minneapolis, Minn. Filed Nov. 4, 1927. Serial No. 24,008. Term of patent 14 years.



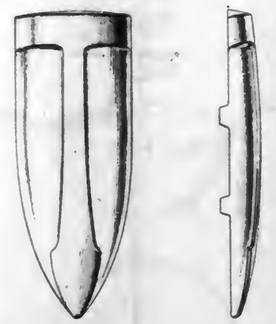
The ornamental design for a traffic signal, as shown.

74,926. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y., assignor to Benjamin & Edward J. Gross Co. Inc., New York, N. Y. Filed July 30, 1927. Serial No. 22,961. Term of patent 3½ years.



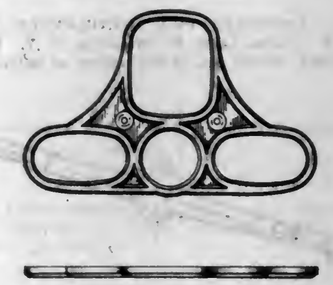
The ornamental design for a finger ring or article of similar nature, as shown.

74,927. CLAMP PLATE. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,614. Term of patent 14 years.



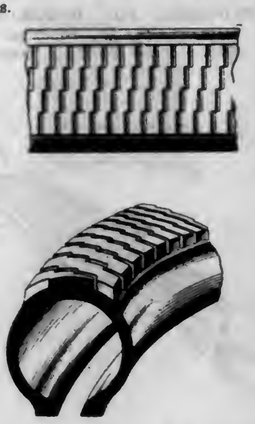
The ornamental design for a clamp plate substantially as shown.

74,928. SIGNAL FACEPLATE. ALLAN ROLAND PYE JOHNSON, Toronto, Ontario, Canada. Filed Aug. 12, 1927. Serial No. 23,074. Term of patent 7 years.



The ornamental design for a signal face plate, as shown.

74,929. TIRE. ROBERT H. KEATON, San Francisco, Calif. Filed July 25, 1927. Serial No. 22,858. Term of patent 14 years.



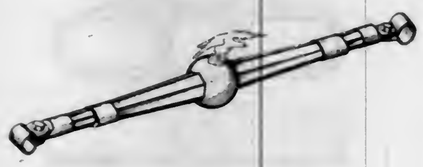
The ornamental design for a tire, substantially as shown.

74,930. LAMP STAND. IRWIN H. KRAVITT, Philadelphia, Pa. Filed Apr. 30, 1927. Serial No. 21,799. Term of patent 14 years.



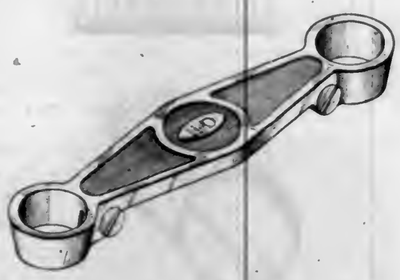
The ornamental design for a lamp stand as shown.

74,931. CROSSBAR FOR MOTOR-CYCLE HANDLEBARS. JAMES LAKE, Jr., Brooklyn, N. Y. Filed Jan. 18, 1928. Serial No. No. 24,914. Term of patent 7 years.



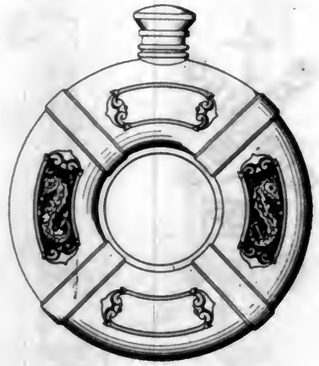
The ornamental design for a crossbar for motorcycle handlebars substantially as shown.

74,932. STABILIZER FOR MOTOR-CYCLE FRONT FORKS. JAMES LAKE, Jr., Brooklyn, N. Y. Filed Jan. 18, 1928. Serial 24,915. Term of patent 7 years.



The ornamental design for a stabilizer for motor-cycle front forks substantially as shown.

74,933. FLASK. FREDERICK W. LAUER, Chicago, Ill. Filed Jan. 27, 1928. Serial No. 25,055. Term of patent 14 years.



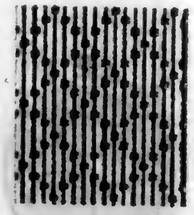
The ornamental design for a flask, as shown.

74,934. COMBINED DISPLAY STAND AND CASE. SAMUEL B. LAVICK, Chicago, Ill. Filed May 23, 1927. Serial No. 22,134. Term of patent 7 years.



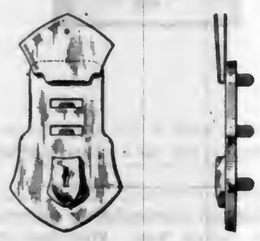
The ornamental design for a combined display stand and case, as shown.

74,935. PILE FABRIC. JOHN LEIPER, New York Mills, N. Y., assignor to New York Mills Corporation, New York Mills, N. Y., a Corporation of New York. Filed May 25, 1926. Serial No. 17,845. Term of patent 7 years.



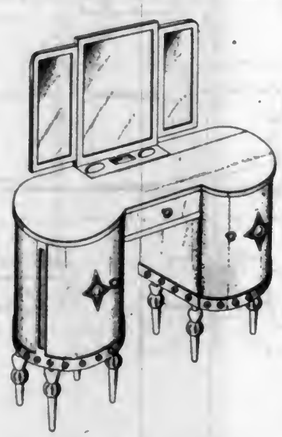
The ornamental design for a pile fabric as shown.

74,936. LOCK FRAME OR SIMILAR ARTICLE. MITCHELL LEVENTHAL, Brooklyn, N. Y. Filed Sept. 14, 1927. Serial No. 23,409. Term of patent 7 years.



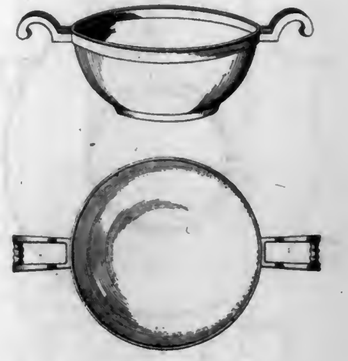
The ornamental design for a lock frame or similar article as shown.

74,937. COMBINATION DESK AND DRESSING TABLE. GEORGE MAIER, Evansville, Ind. Filed Dec. 31, 1927. Serial No. 24,724. Term of patent 14 years.



The ornamental design for a combination desk and dressing table, as shown.

74,938. CITRUS-FRUIT SERVING DISH. REGINA MANN, New London, Conn. Filed Oct. 19, 1927. Serial No. 23,798. Term of patent 3½ years.



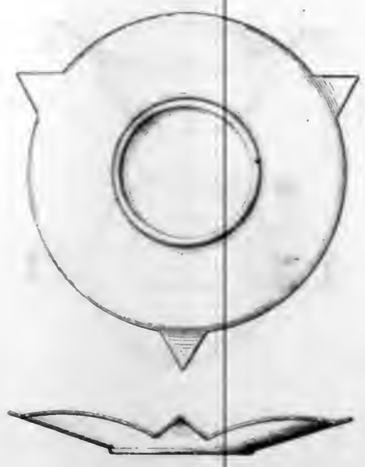
The ornamental design for a citrus fruit serving dish as shown.

74,939. FLAG STAND. IDA K. MARTIN, Minneapolis, Minn. Filed Jan. 16, 1928. Serial No. 24,894. Term of patent 14 years.



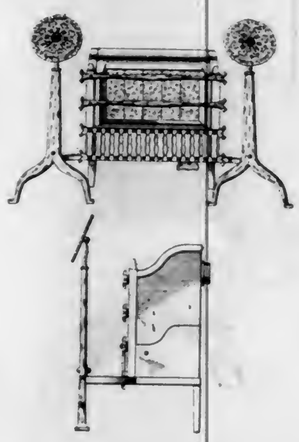
The ornamental design for a flag stand, as shown.

74,940. SANDWICH TRAY OR SIMILAR ARTICLE. ROBERT E. MCELDOWNEY, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed Feb. 8, 1928. Serial No. 25,265. Term of patent 3½ years.



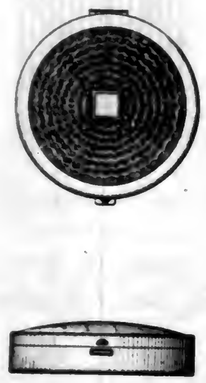
The ornamental design for a sandwich tray or similar article, as shown.

74,941. HEATER. ANTHONY A. NIEBERDING, Brookpark, Ohio. Filed Jan. 26, 1927. Serial No. 20,510. Term of patent 7 years.



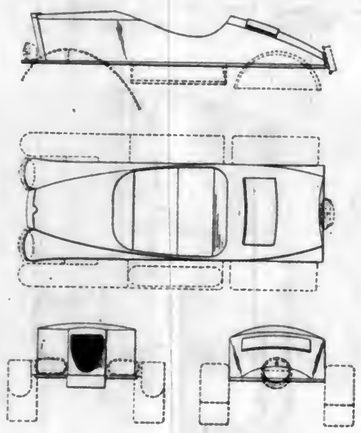
The ornamental design for a heater as shown.

74,942. VANITY CASE. ARTHUR H. NOBLE, Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Filed Nov. 23, 1927. Serial No. 24,248. Term of patent 14 years.



The ornamental design for a vanity case, as shown.

74,943. COMBINED AUTOMOBILE BODY AND HOOD. COY ORSETT, Boston, Mass. Filed Aug. 20, 1927. Serial No. 23,158. Term of patent 14 years.



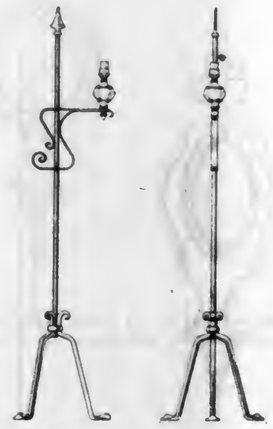
The ornamental design for a combined automobile body and hood as shown.

74,944. FLOWER SCONCE OR SIMILAR ARTICLE. JOHN R. PEIRCE, 3d, and GEORGE MASON ANDREWS, 2d, Phoenixville, Pa. Filed Aug. 23, 1926. Serial No. 18,812. Term of patent 3½ years.



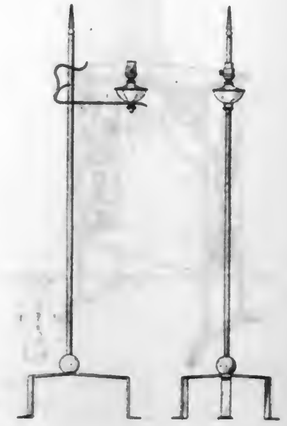
The ornamental design for a flower sconce or similar article, as shown.

74,945. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Feb. 4, 1928. Serial No. 25,201. Term of patent 3½ years.



The ornamental design for a bridge lamp, as shown.

74,946. BRIDGE LAMP. JOHN B. SALTERINI, New York, N. Y. Filed Feb. 4, 1928. Serial No. 25,202. Term of patent 3½ years.



The ornamental design for a bridge lamp, as shown.

74,947. TABLE FOR RADIO RECEIVING SETS AND THE LIKE. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 9, 1928. Serial No. 24,784. Term of patent 7 years.



The ornamental design for a table for radio receiving sets and the like, as shown.

74,948. TABLE FOR RADIO RECEIVING SETS AND THE LIKE. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 9, 1928. Serial No. 24,785. Term of patent 7 years.



The ornamental design for a table for radio receiving sets and the like, as shown.

74,949. LIGHTING-FIXTURE BACKPLATE OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed Feb. 10, 1928. Serial No. 25,358. Term of patent 7 years.



The ornamental design for a lighting fixture backplate or article of analogous nature substantially as shown.

74,950. LIGHTING-FIXTURE BACKPLATE OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed Feb. 10, 1928. Serial No. 25,359. Term of patent 7 years.



The ornamental design for a lighting fixture backplate or article of analogous nature substantially as shown.

74,951. LIGHTING-FIXTURE BACKPLATE OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed Feb. 10, 1928. Serial No. 25,360. Term of patent 7 years.



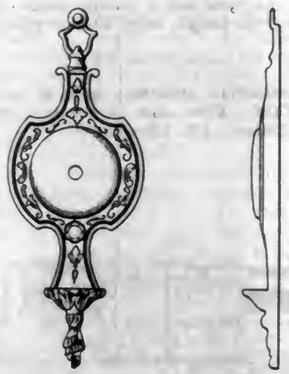
The ornamental design for a lighting fixture backplate or article of analogous nature substantially as shown.

74,952. LIGHTING-FIXTURE BACKPLATE OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed Feb. 10, 1928. Serial No. 25,361. Term of patent 7 years.



The ornamental design for a lighting fixture backplate or article of analogous nature substantially as shown.

74,953. LIGHTING-FIXTURE BACKPLATE OR ARTICLE OF ANALOGOUS NATURE. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co., a Corporation of New Jersey. Filed Feb. 10, 1928. Serial No. 25,362. Term of patent 7 years.



The ornamental design for a lighting fixture backplate or article of analogous nature substantially as shown.

74,954. COMBINED ELECTRIC-LAMP HOLDER AND REFLECTOR. ROBERT SWIMMER, New York, N. Y. Filed Mar. 30, 1925. Serial No. 12,953. Term of patent 7 years.



The ornamental design for a combined electric lamp holder and reflector, as shown.

74,955. BOOK END OR SIMILAR ARTICLE. THOMAS S. WOODWARD, Leetonia, Ohio. Filed July 19, 1927. Serial No. 22,810. Term of patent 14 years.



The ornamental design for a book end or similar article as shown.

PATENTS

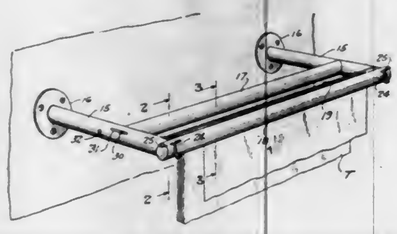
GRANTED APRIL 17, 1928.

1,666,062. CIGARETTE. HARRY ALEXANDER, Allentown, Pa. Filed Mar. 27, 1926. Serial No. 97,976. 1 Claim. (Cl. 131—52.)



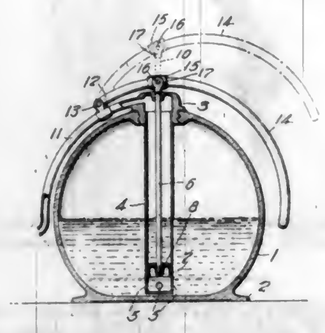
A cigarette comprising a tubular noncombustible tobacco containing receptacle of relatively heavy flexible material, said receptacle having an end crimped inwardly so as to lie well within the receptacle body, the inward crimping of said end defining a plurality of connected flap-like folds the contiguous surfaces of opposite ones of which are in normal contact adjacent their inner ends whereby to confine the ashes and tobacco against dropping out, and said flap-like folds yielding slightly under suction from the opposite end of said tubular receptacle to permit a draft to be drawn through the cigarette while smoking.

1,666,063. TOWEL RACK. ANDREW W. AUSREY, Los Angeles, Calif. Filed Aug. 12, 1926. Serial No. 128,858. 5 Claims. (Cl. 211—16.)



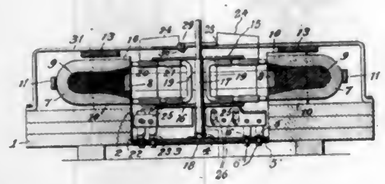
1. A towel rack comprising a frame having a stationary part and a removable part, the latter including companion towel clamping members one of which is secured between the other member and the stationary part, co-acting latching means on the stationary part and the said other member for securing the removable part to the stationary part to prevent removal of the towels, and means for locking the latching means against release.

1,666,064. LIQUID-DISPENSING PUMP. LUCY COTTON AMENT, New York, N. Y. Filed Sept. 9, 1927. Serial No. 218,510. 4 Claims. (Cl. 221—80.)



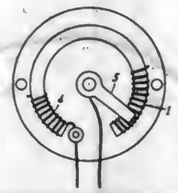
1. In combination, a liquid container, a pump therein for removing the contents, a spout for receiving the contents from the pump and a pivoted handle for operating the pump, the handle being slidably fulcrumed to the spout.

1,666,065. MAGNETIC MOTOR. OLAF R. ANDERSON, Pasadena, Calif. Filed Apr. 1, 1924. Serial No. 703,570. 4 Claims. (Cl. 172—36.)



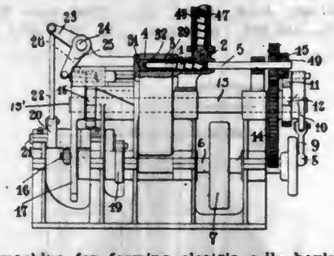
1. A motor of the character described comprising a base having a recess formed therein, contacts secured to the base within said recess, a plurality of permanent magnets of alternate polarity arranged on the base around the recess, a rotor operable in the recess, a plurality of electromagnets carried by the rotor, insulating strips secured to the rotor, and contacts secured to the insulating strips, said last mentioned contacts adapted to engage the contacts within the recess of the base for changing the polarity of the electromagnets.

1,666,066. RESISTANCE COIL. NOEL ASHBRIDGE, Wanstead, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 4, 1924, Serial No. 684,282, and in Great Britain Jan. 5, 1923. 9 Claims. (Cl. 201—55.)



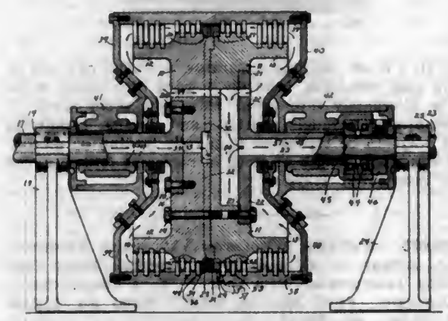
5. A bare resistance coil comprising a supporting structure of insulating material, a conductive covering of low permeability for said supporting structure, an insulating covering for the conducting covering, a winding of resistance wire around the insulating covering, and a slider cooperating therewith.

1,666,067. MACHINE FOR MAKING DRY-CELL ELEMENTS. ROBERT BAILLIE and MATTHEW ATKINSON ADAM, London, England; said Baillie assignor to said Adam. Filed Feb. 26, 1925, Serial No. 11,848, and in Great Britain Mar. 3, 1924. 1 Claim. (Cl. 18—5.)



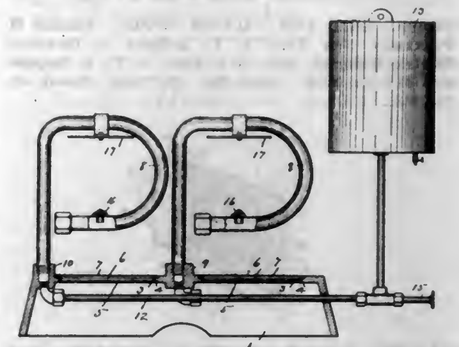
In a machine for forming electric cells having a depolarizer mass, a mould, means for feeding said depolarizer mass into said mould, means for inserting a carbon electrode in said mould and means carried by said electrode for spacing said electrode from the walls of the mould, said spacing means comprising a washer at each end of the electrode, one of said washers being slidably mounted on the electrode.

1,666,068. STEAM TURBINE. ALONZO W. BENNETT, New Haven, Conn. Filed June 14, 1927. Serial No. 198,718. 17 Claims. (Cl. 253—85.)



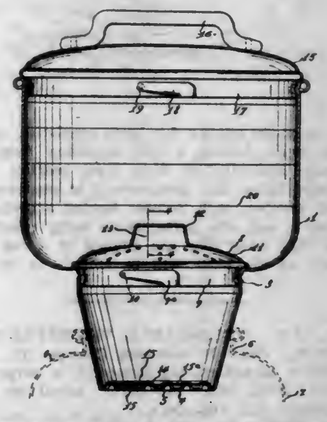
1. A steam turbine, having a stator-member consisting of two stator-disks, each of which has a substantially flat face and is provided with an outwardly-extending supporting-arm; means for securing the said stator-disks together with the flat face of one disk engaging the flat face of the other disk; standards connected to each supporting-arm for preventing the rotation of the said stator-member; a hollow, cylindrical rotor-member enveloping the said stator-member; and bearings interposed between each of the opposite side-walls of the said stator-member and the said supporting-arms.

1,666,069. OIL BURNER. WILLIAM BORKOWICZ, Baltimore, Md., assignor of one-fourth to John Borkowicz, Baltimore, Md. Filed Mar. 24, 1925. Serial No. 17,885. 1 Claim. (Cl. 158—63.)



An oil burner comprising a raised hollow base having a number of air vents in its sides and a number of openings in its upper surface, each opening having a flange on its lower edge, a number of burners each having one end connected to the base adjacent to one of said openings and its opposite end bent over said opening and provided with a nipple, a baffle plate secured to each of said burners above said nipples, a baffle plate secured to each of said burners above said nipples, a supply tank, a pipe connected to each of said burners and each having a valve therein, a supply pipe connecting said burners with the supply tank, a flanged pan fitted in each of said openings under said burners and having its flanged edge resting on the flanged edge of said openings, a wire gauze piece resting on the upper flange of each of said pans, and an asbestos disk resting in each of said pans below the flange thereof and leaving a space between the gauze piece and said asbestos disk.

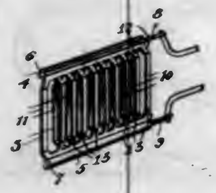
1,666,070. COFFEE MAKER. CHARLES E. PAGE, Los Angeles, Calif. Filed Jan. 30, 1928. Serial No. 250,446. 6 Claims. (Cl. 53—3.)



1. In a coffee maker, the combination of a container in the form of a metal water bowl of relatively large

diameter, said bowl having an extension of reduced diameter at its lower end, constituting a receptacle for the ground coffee, and adapted to be received in the upper opening of a coffee pot, said reduced extension having an integral bottom with corrugations formed therein with the principal perforations in the side walls of the corrugations, and operating to support a sheet of filter paper with the ground coffee disposed above the same, and a perforated cover for the reduced extension operating as a bottom for the said water bowl.

1,666,071. GRID FOR VACUUM TUBES. GEORGE H. PERRYMAN, New York, N. Y., assignor to Perryman Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed May 22, 1926. Serial No. 110,863. 1 Claim. (Cl. 250—27.5.)



An article of the class described consisting of a sheet metal plate provided with a plurality of spaced integral ribs, one series of said ribs being bent outwardly from the body of the plate, a second series of said ribs alternating with the first series and being bent outwardly in an opposite direction whereby a channel is provided between both series of ribs, each of the ribs of both series being provided with a pair of bends, with one bend located near each of the points of junction of each rib with the body of the plate whereby both series of ribs in substantial parallelism with each other and with the body of the plate, and the longitudinal side edges of the body of the plate being curled in reverse directions for their entire length to provide grooves for the reception of supporting wires.

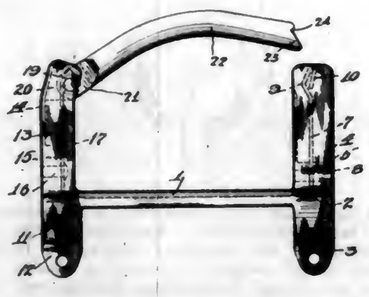
1,666,072. SPINNER. CHARLES P. SCHILPP, Cleveland Heights, Ohio, assignor to William A. Foss, Cleveland, Ohio. Filed Aug. 17, 1927. Serial No. 213,503. 6 Claims. (Cl. 43—45.)



6. A one-piece spinner for lures consisting of a plate of sheet metal having a cut extending from its circumference inwardly to form two bearing members, one member being bent transversely to separate it from the other member, each member having a perforation to fit around a rod, the perforations being relatively disposed so that when they are aligned by a rod, the general plane of the plate will be oblique to the axis of rod.

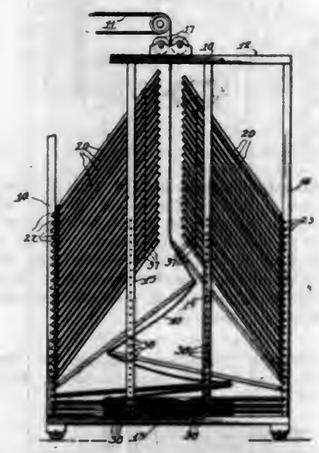
1,666,073. RELEASABLE VESTIBULE-CURTAIN HANDLE. JOHN B. SMOUSE, Chicago, Ill., assignor to Morton Manufacturing Company, a Corporation of Illinois. Filed Mar. 14, 1927. Serial No. 175,094. 12 Claims. (Cl. 105—24.)

1. The combination with a car vestibule curtain and a car vestibule curtain hook, of a handle base section secured to said curtain, a resilient support in said handle base section, a handle bar pivoted on said resilient support, and a spring latch in said handle base section adapted to be frictionally engaged on one end of said



handle bar to hold the same latched in a closed position under normal operating conditions and releasable under abnormal operating conditions when said handle bar is subjected to abnormal tensional strains.

1,666,074. STOCK-STORAGE APPARATUS. ADOLF A. STEINHILBER, Rock Island, Ill. Filed June 6, 1927. Serial No. 196,987. 5 Claims. (Cl. 211—45.)



1. In a stock handling apparatus, a frame, two sets of trays each extending inwardly toward each other so as to be alternately interleaved with each other when in substantially parallel position, and means permitting said trays to be separated to permit loading or unloading of a single length of stock in recurrent folds between said interleaved trays.

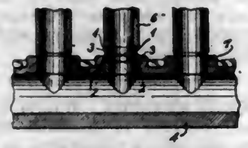
1,666,075. METER. WHOLSTON VANDERBILT STOCKTON, Jr., Albany, N. Y., assignor to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Jan. 14, 1926. Serial No. 81,166. 1 Claim. (Cl. 73—1.)

In a meter, the combination of a casing having a port, a pipe connection adapted to be secured to said casing and provided with a baffle chamber for covering said port and having a peripheral wall and a front wall, a conduit opening into said chamber through said peripheral wall, a downwardly curved baffle projecting rearwardly from the front wall of said chamber to the casing between said port and said conduit, said peripheral



wall having a recess portion effectively positioned opposite said conduit opening to intercept the end of a tampering wire or the like.

1,666,076. ECONOMIZER. ALFRED UPER, Bochum, Germany. Filed Nov. 30, 1921, Serial No. 518,973, and in Germany Dec. 1, 1920. 1 Claim. (Cl. 285—45.)



In a header and tube connection, a header having a tube receiving opening provided with an inner cylindrical seat portion of uniform diameter throughout and an outer conical locking recess whose outer end opens through a face of the header and is of a diameter coinciding substantially with the diameter of the cylindrical seat portion and whose inner end is of greater diameter than said cylindrical seat portion, whereby an annular shoulder is formed at the intersection of the seat portion and recess, the inclined side wall of said recess tapering uniformly between said shoulder and said face of the header, a tube having an end provided with a cylindrical portion of the same diameter as the body of the tube and fitting in and having a ground joint engagement with the cylindrical seat portion of the opening in the header and formed in rear of said cylindrical portion with an annular locking groove lying wholly within the circumference of the body of the tube and presenting at its inner end an annular shoulder alining with the annular shoulder of the locking recess in the header, said groove being of greater length than the depth of the locking recess and extending beyond the said face of the header, and a wedge-shaped metallic packing compressed in said recess and groove and against said shoulders and coacting with the inclined wall of the recess to hold the seat portion of the tube into engagement with the seat portion of the opening.

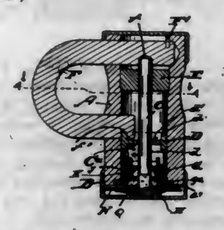
1,666,077. FILM CONTAINER. ALEXANDER FERDINAND VICTOR, Davenport, Iowa. Filed June 24, 1926. Serial No. 118,254. 9 Claims. (Cl. 242—71.)

1. A film container consisting of a walled storage chamber, a walled receiving chamber, and a substantially straight flat member providing a neck connecting said chambers in spaced relation, the walls of said chambers forming at all times a rigid portion of the



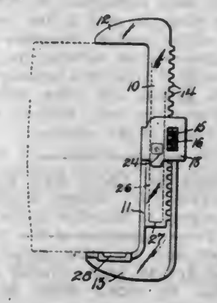
container and are provided adjacent said neck with slits through which the film is passed from one chamber along the neck and into the other chamber.

1,666,078. LOCK. HARRY WILLIAMS, Detroit, Mich. Filed May 18, 1927. Serial No. 192,206. 5 Claims. (Cl. 70—113.)



1. In a device of the character described, a lock barrel; a manually rotatable cap fitted to one end of the lock barrel; a rotatable and longitudinally movable bolt secured to the cap having a projecting tongue; a staple extending through lateral openings into the lock barrel, one leg of said staple being longer than the other and provided with a socket to receive the end of the longitudinally movable bolt; a plunger secured to said bolt having an annular flange adapted to enter a peripheral groove in the short leg of the staple synchronously with the entry of the bolt in the socket in the long leg of the staple; a serrated click plate sleeved upon the bolt and adapted to rotate therewith and through which the bolt has a limited longitudinal movement; a ball supported in the wall of the lock barrel over which the click plate travels to produce a series of audible sounds; a spring located between the click plate and the rotatable cap; and a plurality of co-ordinating tumblers sleeved upon the bolt adapted to cooperate for adjustment with reference to each other through the manual rotation of the cap, whereby the tumbler mechanism may be so positioned that the bolt may be released from locking engaging with the staple or the tumblers rearranged to secure the bolt against the release of the staple.

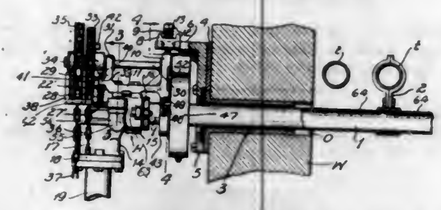
1,666,079. CLAMP. JAMES ANDERSON, Elizabeth, N. J. Filed Apr. 5, 1927. Serial No. 181,070. 2 Claims. (Cl. 144—299.)



1. A clamp comprising two arms in sliding engagement one having teeth on one edge and the other having a transverse opening, and a wedge slidable in the

opening and having inclined teeth to engage the teeth of the arm, the wedge having the teeth terminate short of one end and having a flange on each end to prevent the wedge from being entirely withdrawn.

1,666,080. SOOT BLOWER FOR BOILERS. LEO JOHN BAYER, St. Louis, Mo. Filed Nov. 1, 1926. Serial No. 145,690. 5 Claims. (Cl. 122—392.)



1. A soot blower for boilers including a head, a rotatable blower tube, and a steam supply pipe for said tube, said head comprising a suitable standard supported from the wall of the boiler, a valve casing suspended by said standard and connecting the tube with the supply pipe, an anti-friction bearing for the tube suspended by the standard, a stuffing-box in the valve casing for supporting and packing the end of the tube, and means for actuating the blower tube.

1,666,081. HAIRBRUSH. WILLIAM H. BLAKE, Attleboro, Mass., assignor to James E. Blake Co., Attleboro, Mass., a Corporation of Massachusetts. Filed Dec. 8, 1927. Serial No. 238,549. 2 Claims. (Cl. 132—86.)



1. In a hair brush, a shell, a flange upon the shell, a filler block in the shell provided with a longitudinal hole, a second block in the shell embraced by the flange and engaging the filler block, bristles in the second block, and a comb slidably mounted in the hole and engageable at one end with the shell.

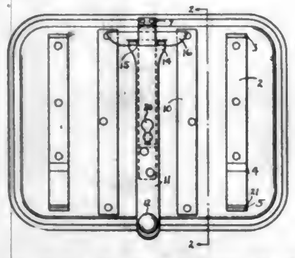
1,666,082. PERMANENT FINISH VEGETABLE MATERIAL AND PROCESS OF PRODUCING SAME. ALBERT BODMER, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1923, Serial No. 631,374, and in Germany Apr. 15, 1922. 15 Claims. (Cl. 8—20.)

1. Method of treating vegetable fibrous material (yarns and goods made therefrom) to chemically structurally alter the fibres to give to the material a permanent finish, which method comprises treating the material with a concentrated cellulose dissolving mineral acid in the presence of a suitable heterocyclic base containing a pyridin nucleus and which will stabilize the reaction by retarding its rate without inhibiting the ultimate desired extent of the reaction.

1,666,083. VEGETABLE YARN AND FABRIC WITH WOOLLIKE EFFECTS. ALBERT BODMER, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y., a Corporation of New York. Original application filed Apr. 11, 1923, Serial No. 631,374, and in Germany Apr. 15, 1922. Divided and this application filed Apr. 12, 1923. Serial No. 631,745. 6 Claims. (Cl. 8—20.)

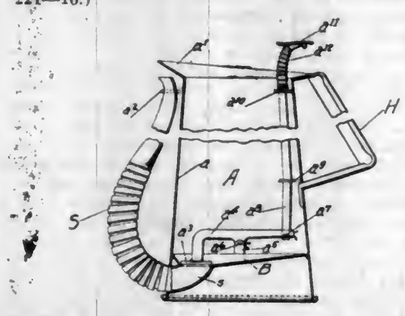
1. Vegetable fibrous material (yarns and goods made therefrom) the fibres of which have been structurally altered by chemical treatment, which treatment comprises a treatment with a suitable concentrated mineral acid in the presence of a suitable heterocyclic compound having pyridin characteristics for the purpose, to produce a permanent finish wool-like effect.

1,666,084. ADJUSTABLE TRAY SUPPORT. MAURICE S. BRIGHT, Houston, Tex. Filed Dec. 15, 1925. Serial No. 75,526. 6 Claims. (Cl. 45—51.)



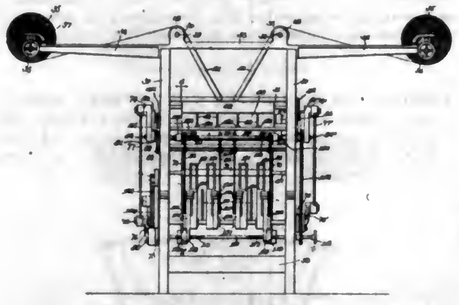
1. In a device of the character described a tray, stationary legs on the bottom thereof adjacent one side, a central bracket between said legs, the central portion of said bracket being spaced from said tray to form a track, an adjustable leg comprising a strip of rigid metal having a foot at one end and having a slot adjacent the other end to receive said bracket and slide on said track, lateral arms on the end of said leg adjacent said slot, said slot being formed at a predetermined distance from the upper end, whereby both sides of said slot will engage said track and said arms will engage said tray when said adjustable leg is swung on said track as a pivot into supporting position.

1,666,085. LIQUID MEASURE. WALTER R. BROOKINS, Dayton, Ohio, assignor to Brookins Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed May 2, 1927. Serial No. 188,246. 3 Claims. (Cl. 221—16.)



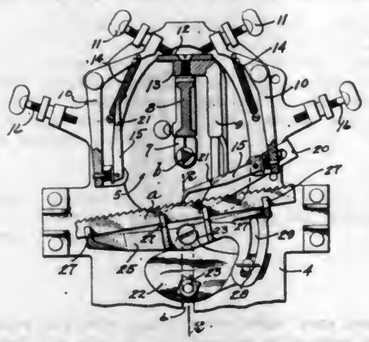
1. A liquid measure having in combination, a side wall and a handle secured to the outer surface of the side wall at the back near the top thereof, a bottom horizontally secured within said side wall and spaced above the bottom thereof, an eccentrically placed outlet in said bottom near its front, said bottom sloping downwardly in all directions toward said outlet, a flexible metal discharge spout connected to said bottom underneath said outlet, a valve normally closing said outlet, a lever pivotally mounted between its ends on said bottom, said valve secured to one end of said lever, a push rod pivotally secured to the other end of said lever, guide means secured to the inner surface of said side wall slidably supporting said push rod, and means for holding said rod in raised position normally closing said valve.

1,666,086. ARTICLE FORMING AND FOLDING MACHINE. SAMUEL J. CAMPBELL, Green Bay, Wis., assignor to Hudson & Sharp Machine Company, Green Bay, Wis., a Corporation of Wisconsin. Filed Aug. 13, 1926. Serial No. 128,931. 18 Claims. (Cl. 270—66.)



1. In a cutting and folding machine, the combination with means for feeding a plurality of strips of material and doubling each strip and feeding said doubled strips side by side; mechanism operating on all of said folded strips simultaneously for cutting a plurality of articles therefrom; a folding mechanism, comprising a single folding blade operating on a plurality of said folded articles simultaneously to double said folded article, thereby producing quarter-folded articles.

1,666,087. TILTING SAW GUIDE. FREEMAN E. COLLIER, Minneapolis, Minn., assignor to Foley Saw Tool Company, Incorporated, Minneapolis, Minn., a Corporation of Minnesota. Filed Mar. 19, 1927. Serial No. 176,660. 2 Claims. (Cl. 76—35.)



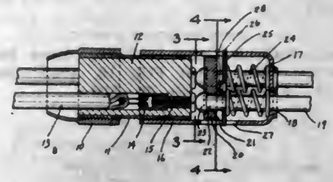
2. In a saw filing machine, a file holder, means for imparting filing action to the file holder, a tilting saw guide attachment comprising a bearing plate, means for rigidly securing the bearing member to the saw filing machine, a member intermediately pivoted to the bearing plate to rock about an axis in the filing plane and transversely thereof, and a bifurcated saw-holding lug on said member on each side of its pivot, and means for securing the guide member in different adjustment.

1,666,088. ROOFING. JOSEPH W. FARR, Oak Park, Ill. Filed Oct. 4, 1926. Serial No. 139,291. 3 Claims. (Cl. 108—7.)

1. An articulated roofing comprising a plurality of weather resisting elements of asphalt composition of curvilinear transverse conformation, a series of upstanding parallel supports, caps of cementitious material secured to said supports and entering the reverse depressions of and secured to said tile elements, and transverse base members disposed parallel with each other and obliquely with said supporting members secured to said supporting members.

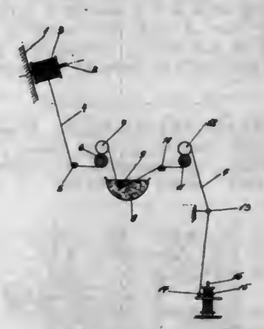


1,666,089. CONNECTER FOR ELECTRIC CIRCUITS. HARRY C. FOSTER, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed July 25, 1927. Serial No. 208,070. 6 Claims. (Cl. 173—328.)



1. A multiple circuit socket for three or more current conducting lines including a plug receiving and detachably supporting tubular shell, a terminal plate yieldingly mounted therein, at least three current conducting members extending thru the plate for plug contact terminal engagement, yielding means positioned between the end of the shell and said terminal plate, and a compensating plate having a rocking connection with the terminal plate and against which the yielding means bears, whereby the current conducting members are assured of positive plug contact.

1,660,090. PROCESS FOR THE AFTERTREATMENT OF FRESHLY-SPUN ARTIFICIAL SILK. FRANZ JOSEF GAHLERT, Dresden-Loschwitz, Germany. Filed July 28, 1926, Serial No. 125,355, and in Germany June 9, 1925. 3 Claims. (Cl. 117—2.)

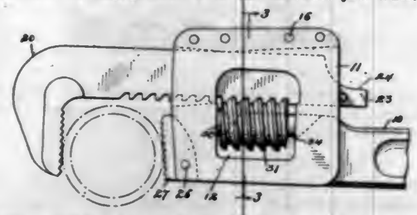


1. A process for treating freshly spun artificial silk, consisting in treating the thread of artificial silk with a softening agent, in stretching the softened thread, and in retwisting this thread.

1,666,091. WRENCH. JULIAN A. GILES, Derby, Conn. Filed July 12, 1926. Serial No. 121,898. 13 Claims. (Cl. 81—157.)

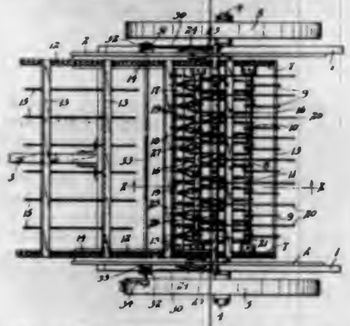
1. A wrench having a head; a fixed jaw; a movable jaw associated with the fixed jaw so as to have a rocking and lengthwise movement relatively thereto; a worm

for imparting lengthwise movement to the movable jaw, having a separable toothed engagement therewith; and means for mounting the worm, whereby the same will maintain its engagement with the movable jaw while the



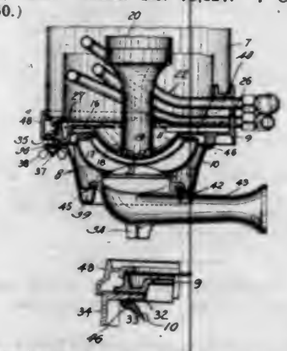
same is rocked relatively to the fixed jaw and also movable into and out of its engagement with the movable jaw in a circular path, the center of which is adjacent to one end of the worm.

1,666,092. HAY-LOADING DEVICE. MIKE HEGERLAND, Woodville, Wis. Filed Feb. 16, 1923. Serial No. 619,374. 4 Claims. (Cl. 56—359.)



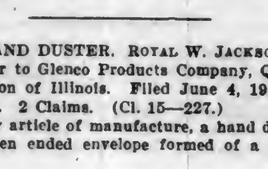
1. A hay loading machine having in combination, a frame, a wheel-carrying axle mounted therein, an elevator driven from said axle, a reel, comprising rows of teeth, secured on said axle and rotated thereby for delivering to said elevator, a bar disposed forwardly of said reel adjacent the upper side thereof, and stripper members comprising wires or rods secured in pairs to said bar, the wires or rods of each pair extending downwardly over the top of said reel in substantially parallel relation, around said reel and upwardly in diverging relation to said bar.

1,666,093. WATER-HEATER BASE. ROBERT C. HOYT, Oakland, Calif., assignor to Hoyt Heater Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 23, 1925. Serial No. 70,827. 7 Claims. (Cl. 122—250.)



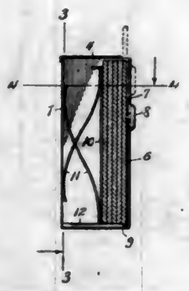
1. A water-heater base adapted to support therein the burner for the heater, said base comprising an upper and a lower element; legs for supporting the heater provided with lateral dovetail extensions shaped to be driven into corresponding dovetail grooves provided in the underside of the upper element; and sealing means between the elements for additionally securing the legs to the upper element and for joining the elements so that products of combustion can not escape from the sides of the base, the said sealing means seated in a circumferential groove provided between the elements including the driven legs.

1,666,094. WATER-HEATER GAS BURNER. ROBERT C. HOYT, Oakland, Calif., assignor to Hoyt Heater Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 23, 1925. Serial No. 70,829. 2 Claims. (Cl. 122—250.)



1. In a water heater having a base provided with an annular chamber at the bottom thereof for the collection of products of condensation and unburned products of combustion from the heater, a burner connected with a gas-supply source and secured within said base, said burner having an annular flange integral therewith and provided with a peripheral bead on the underside of said flange extending over said chamber.

1,666,095. GUM-STICK HOLDER. ALVIN L. JACKSON, Logan, Okla. Filed Feb. 19, 1923, Serial No. 619,798. Renewed Jan. 30, 1928. 1 Claim. (Cl. 206—40.)

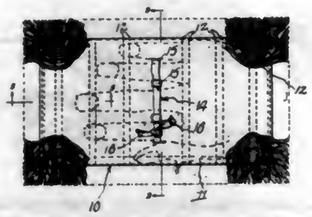


A gum stick holder comprising a receptacle adapted to contain gum sticks disposed side by side, and having an open end for the insertion of gum sticks, a cover slidably removable on said open end and in the closed position having one end spaced from the adjacent side of the receptacle, thereby providing an ejecting opening, an ejecting member slidably mounted on the inner side of said side of the receptacle in alinement with said opening and having means for engaging and forcing an adjacent gum stick through said opening, and means for normally forcing the gum sticks against said ejecting member.

1,666,096. HAND DUSTER. ROYAL W. JACKSON, Quincy, Ill., assignor to Glenco Products Company, Quincy, Ill., a Corporation of Illinois. Filed June 4, 1927. Serial No. 196,437. 2 Claims. (Cl. 15—227.)

1. As a new article of manufacture, a hand duster comprising an open ended envelope formed of a continuous

piece of flexible material having rubbing material attached to opposite sides thereof, and a line of lacings



connecting opposite sides of said envelope at a plurality of points across the central portion thereof to form openings for the fingers of the hand.

1,666,097. IMPRESSION TRAY. ROLLAND R. JONES, Minneapolis, Minn. Filed Aug. 25, 1926. Serial No. 131,364. 6 Claims. (Cl. 32—6.)



1. An impression tray comprising a body portion having a lingual wall, an occlusal wall and a proximal wall, a flange issuing outwardly from said occlusal wall substantially parallel to said lingual wall and extending in the opposite direction therefrom, and an ear formed on said flange co-operating with said proximal wall for resisting internal pressure.

1,666,098. BATHING CAP. GEORGE P. KAUL, Detroit, Mich. Filed Aug. 5, 1926. Serial No. 127,383. 2 Claims. (Cl. 2—68.)



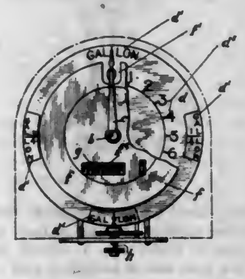
1. A bathing cap of the class described, comprising: an elastic water-proof crown forming member; a reinforcement mounted on said crown at its forward side adjacent its edge; a flexible peak of comparatively stiff material secured to said reinforcement inwardly of the edge thereof and adapted for tilting to operative or inoperative position.

1,666,099. DECORATIVE ORNAMENT. RUSSELL B. KINGMAN, Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a Corporation of Rhode Island. Filed Sept. 21, 1927. Serial No. 220,928. 5 Claims. (Cl. 41—10.)



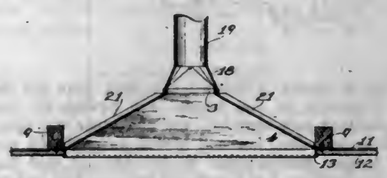
1. A decorative ornament, comprising a substantially rigid base element of desired shape and a decorative surface element enveloping said base element, said surface element consisting in a metallic fabric knitted from flat ribbon-like wire to provide a multiplicity of light reflecting facets.

1,666,100. DIAL INDICATOR FOR GASOLINE PUMPS, ETC. WILLIAM L. MARDEN, New York, N. Y., assignor to Neptune Meter Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1927. Serial No. 163,825. 1 Claim. (Cl. 235—121.)



In a dial indicator for gasoline pumps, the combination of a fixed dial having thereon two concentric rows of figures of different denominations, a pointer for coaction with the outer row of figures, a rotatable notched dial concentric with the pointer and arranged to disclose through the notch one at a time the figures of the inner row, said disc having also a sight opening, a totalizing register disclosed through the sight opening in the disc when the disc is in zero position, and means to actuate the pointer and the disc, whereby the totalizing register is concealed during operation of the pump.

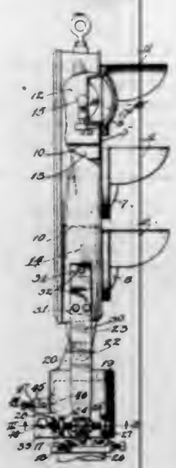
1,666,101. COMBINATION VENTILATOR AND CANOPY. REGINALD G. W. MAYHOOD, San Leandro, Calif. Filed May 10, 1926. Serial No. 108,060. 1 Claim. (Cl. 98—42.)



In combination, parallel ceiling joists of the character described, a sheet metal canopy having a flange extending outwardly from its bottom end, means for securing the

said flange to the bottom faces of the joists, and a second flange extending downwardly from the inner margin of the first flange, the second flange serving as an abutment for and being co-extensive with a ceiling secured to the bottom of the floor joists.

1,666,102. SIGNAL-LIGHT-SUPPORTING STRUCTURE. DANIEL J. MCCARTHY, Elgin, Ill., assignor to Chicago Railway Signal & Supply Company, Carpentersville, Ill., a Corporation of Illinois. Filed Sept. 30, 1926. Serial No. 138,587. 3 Claims. (Cl. 248—220.)



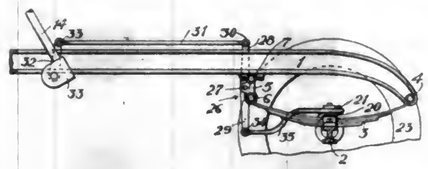
1. In a light signal device, a support therefor, a sleeve rotatable on the support having a pair of spaced arms projecting radially therefrom, a second sleeve rotatably mounted on the first sleeve having a pair of radially projecting lugs with confronting loose bores and a threaded bolt extending through the bores and a tailed nut in threaded engagement on the bolt, said lugs encompassing the said arms of the first sleeve and the tail of said nut positioned intermediate and adapted to movably engage said arms, and screw means to lock the first sleeve in position on its support.

1,666,103. WRENCH. BERNARD MCGILVRAY, Quincy, Mass. Filed Mar. 29, 1926. Serial No. 98,069. 3 Claims. (Cl. 81—184.)



1. In a wrench, a handle; two main jaws one immovable relatively to said handle and having its working face inclined and serrated, and the other movable relatively to said fixed jaw and having an unbroken working face always perpendicular to the axis of said handle; and an auxiliary jaw interposed between and slidable towards and from said main jaws and adapted to be locked to either, said auxiliary jaw being wedge shaped with an inclined working face serrated and opposed to the serrated face of the fixed jaw.

1,666,104. STEERING GEAR FOR MOTOR VEHICLES. JOHN F. MCMURTRIE, Springfield, Mass., assignor of one-half to William W. Hopkins, Springfield, Mass. Filed Apr. 24, 1926. Serial No. 104,339. 8 Claims. (Cl. 280—93.)



1. In a steering mechanism for motor vehicles, the combination with the forward axle of the chassis frame, and the forward spring which is located between the said axle and the chassis frame, of a shackle lever pivotally attached to the chassis frame at one end and to the other end of which lever the rear end of the said spring is pivotally attached, the forward end of the spring being attached to the chassis frame, a steering box attached to the chassis frame, a two arm lever which is pivotally secured to the shackle lever, a link connection from one end of the two arm lever to the steering knuckle of the vehicle, and a link interposed between the other end of the two arm lever and the steering box, whereby the compression and deflection of the spring will automatically maintain the distance constant between the steering box and the axle.

1,666,105. BOX. ARTHUR R. MOSLER, New York, N. Y. Filed Dec. 7, 1926. Serial No. 153,071. 3 Claims. (Cl. 206—52.)

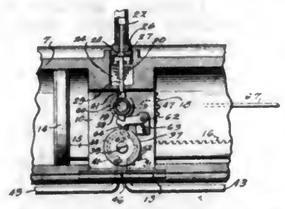
1. A box for containing clamp supply parts including a clamp band roll, the sides of the box having a slot through which the band may be withdrawn, and a removable tray forming a partition for dividing the interior of the box into a compartment for the band roll and a compartment for the other supply parts.

1,666,106. SPOON. MAX NORMAN, Brooklyn, N. Y. Filed Jan. 3, 1927. Serial No. 158,479. 6 Claims. (Cl. 30—22.)



4. A spoon of the class described, the head and handle portions of which are of stiff, fibrous material, the handle portion where it joins the head portion extending in a rib forming a groove on the under face of the head portion, and said handle portion being tubular in form.

1,666,107. WINDSHIELD CLEANER. JOHN X. PHILLIPS, Jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed June 30, 1923. Serial No. 648,818. 19 Claims. (Cl. 121—164.)



1. In a windshield cleaner, a fluid pressure motor comprising a casing, a movable member mounted in said casing to be actuated by differential pressure, a conduit connected to said motor, a main supply valve controlling the flow of fluid through said conduit, an automatic valve to alternately place said motor casing on opposite sides of said movable member in communication with said conduit, and means for locking said automatic valve against operation, and closing said main supply valve.

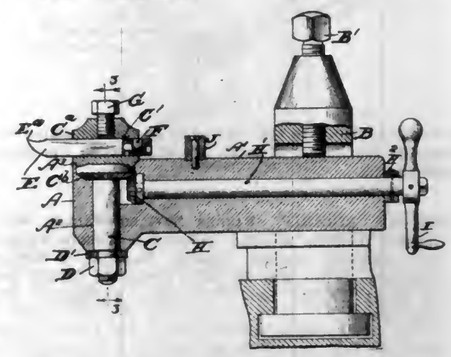
19. In a windshield cleaner motor comprising a casing, a piston movable therein, valve mechanism for applying operating pressure alternately to the opposite sides of the piston, a shaft operable by the piston, said piston being movable beyond its normal path of travel when said valve mechanism is arrested from actuation, means for arresting said valve mechanism, a valve for shutting off the supply of fluid pressure to said valve mechanism, and a sleeve slidable on the shaft and having a part for rendering said arresting means operative upon movement of the sleeve on the shaft whereby said piston may override its normal path of travel, said sleeve also having a part normally out of its operative plane of movement and adapted to be brought into said operative plane upon movement of said sleeve to actuate the arresting means, said second part acting to render said shut-off valve operative.

1,666,108. WINDSHIELD CLEANER. JOHN X. PHILLIPS, Jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Jan. 7, 1924. Serial No. 684,823. 5 Claims. (Cl. 121—164.)



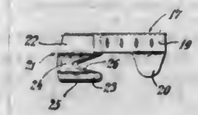
1. In a windshield cleaner, a casing, a movable member mounted in said casing, a disk arranged in said casing, means controlled by the movement of said movable member for oscillating said disk, an arm pivotally connected to said disk, a valve supporting member connected to said arm, a spring arranged on said arm and engaging said member, said spring being compressed when said disk and said arm are oscillated to move said valve supporting member, and a member for being moved into the path of said valve supporting member on either side thereof for effecting a parking of the movable member in either end of the casing.

1,666,109. RADIUS TOOL. ANDREY SHEBERASHENKO, Detroit, Mich. Filed Apr. 10, 1925. Serial No. 22,115. 1 Claim. (Cl. 29—98.)



A radius tool comprising a tool stock having a laterally projecting shank and provided therein with a longitudinal bore extending from one end of the shank and terminating at the tool stock interiorly thereof, said tool stock being provided with a vertical bore intersected by the said longitudinal bore and enlarged at its upper end, the enlarged end being surrounded by an annular shoulder, a vertical spindle having an enlarged head seated on the annular shoulder of the stock and fitting in the enlarged portion of the vertical bore and entirely filling the same and provided at its lower face below said annular shoulder with a horizontal gear, a horizontal spindle mounted in the longitudinal bore and provided at its inner end with a gear meshing with the said gear, means for mounting a tool on the enlarged head of the vertical spindle, and means for rotating the horizontal spindle.

1,666,110. FASTENING MEANS AND OPERATING MEMBER THEREFOR. NOEL STATHAM, Irvington-upon-Hudson, N. Y. Filed May 2, 1925. Serial No. 27,427. 8 Claims. (Cl. 24—205.)
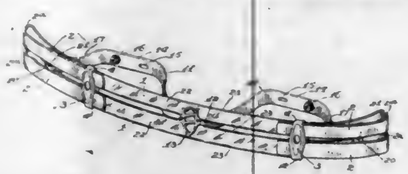


1. Operating means for a longitudinally disposed series of cooperating pairs of fasteners, comprising a main body portion and a depending substantially centrally disposed key portion, said key portion being adapted to enter in between and to open cooperating pairs of the fasteners and being provided with a channel for receiving a portion of each one of the fasteners of each pair of fasteners, said key portion being provided with a cutaway guiding portion.

1,666,111. AUTOMOBILE BUMPER. VICTOR SUSSIN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed July 6, 1926. Serial No. 120,659. 6 Claims. (Cl. 293—55.)

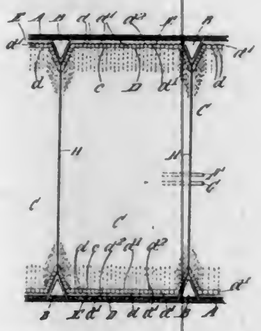
3. A bumper for motor vehicles comprising a flat spring impact bar mounted edgewise vertically and having its opposite end portions looped by being flexed forwardly and inwardly and lapped against the forward surface of the bar, clamps applied over the lap of the

loop ends for closing the loops and a mounting bar having a middle portion arched forwardly for connection to the impact member at its middle and having end



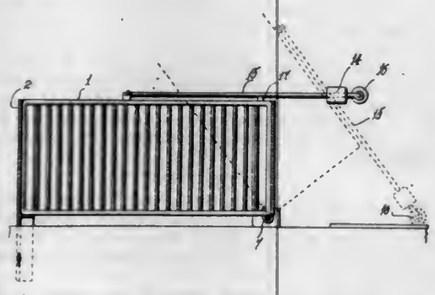
portions attached to the rear parts of the respective end loops of the impact member laterally beyond the aforesaid clamps.

1,666,112. AIRSHIP. BARNES NEVILLE WALLIS, Westminster, London, England, assignor to Airship Guarantee Company, Limited, London, England, a British Company. Filed May 29, 1925, Serial No. 33,680, and in Great Britain June 12, 1924. 8 Claims. (Cl. 244—3.)



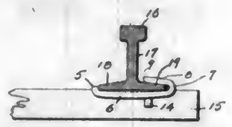
2. A hydrogen gas bag for an airship provided externally with a surrounding envelope comprising inner and outer walls and partitions which serve to connect together said outer and inner walls, some of said partitions being gas-tight and some non gas-tight.

1,666,113. MECHANISM FOR OPENING AND CLOSING GATES, WINDOWS, AND SIMILAR STRUCTURES. FREDERICK E. WELLFARE, Dallas, Tex. Filed Aug. 21, 1926. Serial No. 130,581. 4 Claims. (Cl. 39—44.)



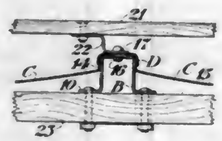
1. A device of the character described comprising a vertically swinging gate adapted to be swung from horizontal to oblique position about a pivot located at one corner thereof, and a rod carried at the top of said gate and extending outwardly therefrom, the outer end of said rod serving as one support for said gate when in raised position.

1,666,114. RAIL ANCHOR. BENJAMIN B. BETTS, St. Louis, Mo. Filed Jan. 24, 1927. Serial No. 163,048. 5 Claims. (Cl. 238—330.)



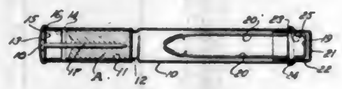
1. A rail anchor formed of a single bar of spring material circular in cross section and adapted to contact with the opposite edges of the base flanges of a railway rail at longitudinally spaced apart points and be out of contact with the underside of said flanges throughout the greater portion of their width, said anchor having a downturned end adapted to abut the side of a railway tie.

1,666,115. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed May 29, 1926. Serial No. 112,509. 8 Claims. (Cl. 108—5.4.)



1. A car roof comprising side plates, carlines extending from side plate to side plate, roof sheets extending from side plate to side plate between carlines, said roof sheets having upwardly offset marginal portions resting on the tops of said carlines, and seam covers positively secured to said carlines and straddling said carlines and the upwardly offset marginal portions of the sheets, said seam covers snugly embracing the upwardly offset marginal portions of the sheets engaged therewith, thereby firmly clamping said portions to said carlines.

1,666,116. EYELASH APPLICATOR. EARL C. BUNNELL, Stratford, Conn. Filed Apr. 9, 1926. Serial No. 100,937. 7 Claims. (Cl. 128—260.)

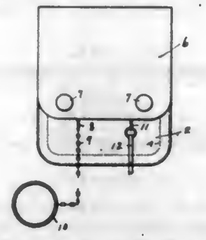


1. A device of the character described, comprising an enclosing body, a container for coloring material removably secured therein, a coloring material spreader adapted to enter said container, and an applicator for the coloring material removably fitted in said enclosing body.

1,666,117. CASE FOR LICENSES, ETC. ELLIS R. BURRELL, Baltimore, Md. Filed Dec. 10, 1926. Serial No. 153,787. 1 Claim. (Cl. 150—40.)

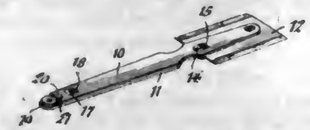
A case for licenses etc. comprising two pieces of suitable material secured together at their edges and having pockets therebetween, a metal frame between said two pieces of material and having one end projecting below

the other, a flap secured to said case and adapted to fold over the said pockets, fasteners for holding said flap in position over said pockets, a chain secured to



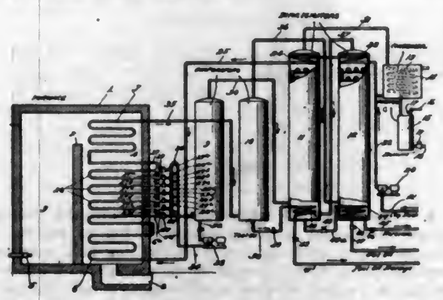
one end of said frame and having a key ring secured thereto, and a hook secured to the lower end of the frame over which said key ring is adapted to fit.

1,666,118. RAZOR-BLADE HOLDER. JOSEPH P. COLGROVE, Buffalo, N. Y. Filed Jan. 14, 1925. Serial No. 2,423. 2 Claims. (Cl. 80—25.)



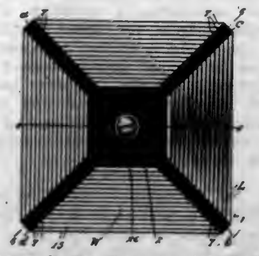
1. A blade holder, comprising a pair of separable bars movable lengthwise relatively to each other and each having a head-portion, and a handle-portion, the head-portion of one bar having a forwardly-facing hook and that of the other bar having a rearwardly-facing hook, the latter interlocking with an opening in the other bar, the bar which carries the first-named hook extending beyond the front end of the other bar while the latter shorter bar is adapted to clamp the blade between itself and the longer bar, and means for holding said bars against relative longitudinal displacement.

1,666,119. PROCESS FOR CONVERTING PETROLEUM HYDROCARBONS. WALTER M. CROSS, Kansas City, Mo. Filed July 20, 1925. Serial No. 44,781. 3 Claims. (Cl. 196—73.)



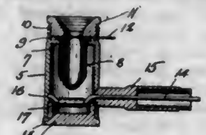
1. A process of distilling petroleum hydrocarbons, comprising the steps of heating the oil in a preliminary heating stage to a temperature to vaporize the lighter hydrocarbons, passing said heated oil to a vaporizing stage and there separating the liquid and volatilized material, returning the liquid products for further heating to vaporize additional fractions of higher boiling points, and passing the reheated material to a separate vaporizing stage and controlling the relative heating to which the charging stock and recycled stock are subjected by limiting the extent of their circulation through the heating zone.

1,666,120. COIL. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1924. Serial No. 744,465. 3 Claims. (Cl. 175—359.)



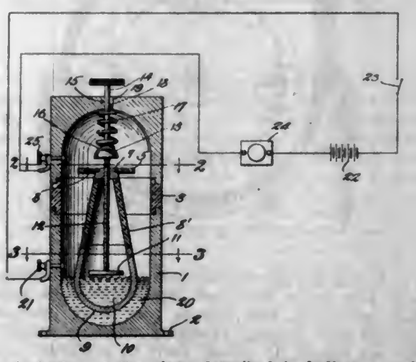
1. In a device of the character described including a rectangular shaped core provided with chamfered edges to form angular faces diametrically opposite, strips superimposed upon said diametrically opposite chamfered edges of said core to form arms, said arms being at right angles to the adjacent arms and lying in the same plane as the diametrically opposite arm, slots in said strips, and a winding rectangular in form supported upon said strips in said slots to maintain said winding in spaced relation, said winding being effective to bind said strips in position to form a self-supporting structure whereby said winding maintains said strips and said strips support said winding to form a coil.

1,666,121. AMALGAMATOR. FREEMAN DAVIS and LOYD DAVIS, Centerville, Iowa. Filed Jan. 17, 1927. Serial No. 161,618. 5 Claims. (Cl. 259—72.)



1. An amalgamator including a body portion, a container supported in the body portion, a removable measuring member supported on the upper end of the body portion, a valve disposed between the upper end of the container and mensuring member for controlling the passage of material to the container, and means for agitating the container to amalgamate the material contained therein.

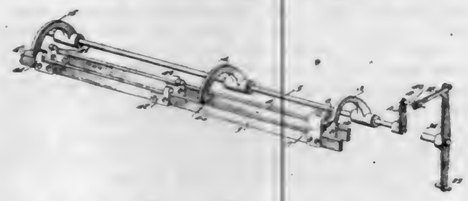
1,666,122. CIRCUIT CLOSER. JONATHAN W. DENNISTON, Bedford, Ind. Filed May 19, 1926. Serial No. 110,245. 3 Claims. (Cl. 200—52.)



1. A device of the class described including a casing having upper and lower portions of conducting material

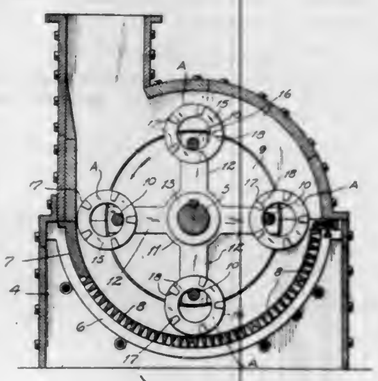
but insulated from each other, said portion being included in a circuit, a hollow pendulum suspended within the casing from the upper member for swinging movement in any direction, said pendulum being electrically connected to the upper member of the casing, the lower portion of the pendulum constituting a container of conducting material insulated from the upper portion which is connected to the casing, a contact suspended within the pendulum from the upper portion thereof, a mercury conductor interposed between the lower portion of the pendulum and the lower member of the casing, and a mercury conductor within the lower portion of the pendulum and normally close to but out of contact with the contact within the pendulum.

1,666,123. PLATING ATTACHMENT. JOHN J. EGAN and EUGENE GREGOR, Northampton, Mass., assignors to McCallum Hosiery Company, Northampton, Mass., a Corporation of Massachusetts. Filed Apr. 30, 1925. Serial No. 24,408. 10 Claims. (Cl. 66—137.)



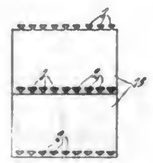
1. In a stocking knitting machine the combination comprising a friction rod, friction arms thereon, thread carrier rods, each of said thread carrier rods having a fork for engaging one of said friction arms to travel therewith, and lugs for engagement with said friction arms to permit the said carrier rods to lag, said friction arms, forks and lugs being so arranged that when one of said friction arms is in engagement with the fork of any one of said carrier rods, the carrier rods for the following threads are actuated by the engagement of said friction arms with their said lugs.

1,666,124. PULVERIZING MACHINE. ERNST H. ELZEMEYER, St. Louis, Mo., assignor to American Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 9, 1925. Serial No. 61,563. 6 Claims. (Cl. 83—11.)



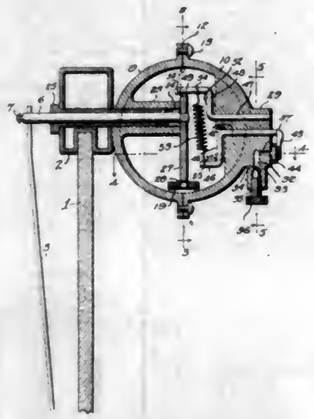
1. A ring for pulverizing machines comprising an annular body whose inner and outer surfaces are substantially concentric, said annular body being provided at one side with laterally extending annularly spaced lugs that are spaced far enough apart to constitute hammer faces and diggers.

1,666,125. CARD REGISTER. DAG AGNAR ENGSTRÖM, Stockholm, Sweden. Filed July 29, 1925, Serial No. 46,733, and in Sweden Aug. 23, 1924. 2 Claims. (Cl. 129—2.)



1. In a card register comprising a box or casing and rolls journalled in said casing, a plurality of connected cards adapted to be wound on said rolls, each card having near one edge a plurality of openings and at the opposite edge having integral therewith a plurality of hooked members lying in the plane of the card, said openings having a shape corresponding to that of the hooked members, whereby said hooked members on one card may be interlocked with or separated from the openings in the adjacent card without being bent.

1,666,126. AUTOMATIC WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 3, 1923. Serial No. 666,367. 6 Claims. (Cl. 121—164.)



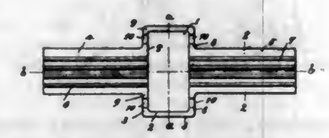
1. Valve actuating mechanism for windshield cleaner motors comprising a motor casing having an exteriorly arranged valve seat, said valve seat having fluid passages communicating with the ends of the casing and a suction passage interposed between said passages, a valve movable on the seat to connect the suction passage alternately with each fluid passage, an arm journaled in said casing and connected to the valve for shifting the same on its seat, the inner end of said arm being extended toward said rack member, a second arm journaled in the casing and extending away from the rack member within the casing, said second arm having a lateral extension operable by and during movement of a moving part of the motor, and a spring connecting the two arms together for moving the first arm to effect a shifting of the valve following a preliminary movement of the second arm by either lug of said segmental gear.

1,666,127. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Apr. 15, 1924. Serial No. 706,748. 15 Claims. (Cl. 121—164.)



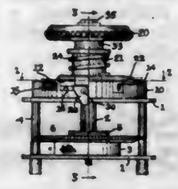
1. Valve actuating mechanism for windshield cleaners having a casing, a movable member mounted in said casing and adapted to be actuated by a difference in pressure in the opposite ends of the casing, and means actuated by the movement of said member to alternately establish communication between the opposite ends of said cylinder and a source of operating pressure, said means comprising an element connected to said movable member, a spring means arranged on said element, a pivotally mounted valve supporting member adapted to be engaged by said spring means, a valve carried by said supporting member, means for positively locking said valve supporting member in either of two positions, and means for releasing said locking means.

1,666,128. STEAM GENERATOR. ATTILIO FRANCO, Milan, Italy. Filed Feb. 11, 1925, Serial No. 8,590, and in Italy Feb. 11, 1924. 6 Claims. (Cl. 122—54.)



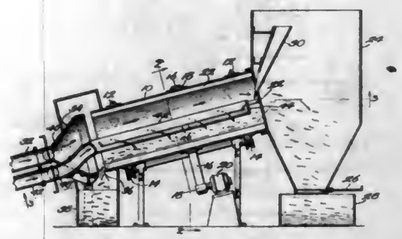
1. A boiler comprising, a central furnace provided with cross walls, and a bank of fire tubes mounted in either cross wall of said furnace and extending parallel to the boiler axis, said furnace cross walls having portions projecting laterally of said tube banks, said portions provided with openings for longitudinal firing.

1,666,129. TIME SWITCH. WALTER A. FRANTZ, Cleveland, Ohio. Filed Jan. 21, 1924. Serial No. 687,509. 9 Claims. (Cl. 200—36.)



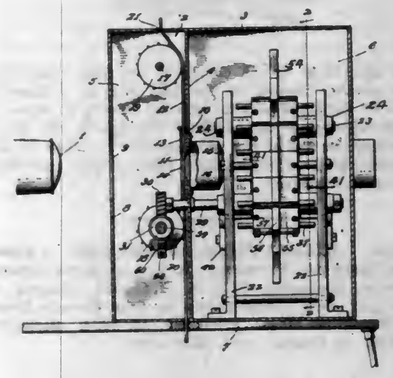
1. In a time switch, a stationary member having a discontinuous circular track terminating in an abrupt shoulder, a movable member adapted to sweep over said track and to jump abruptly from said shoulder, means for rotating said member in opposite directions, and means operative upon the approach of said member toward said shoulder in the opposite direction from which the jump occurred for elevating said member automatically to contact with the track.

1,666,130. MICA-SEPARATING MACHINE. LOUIS T. FREDERICK, Valparaiso, Ind., assignor to Chicago Mica Company, Valparaiso, Ind., a Corporation of Illinois. Filed Aug. 16, 1926. Serial No. 129,374. 3 Claims. (Cl. 125—24.)



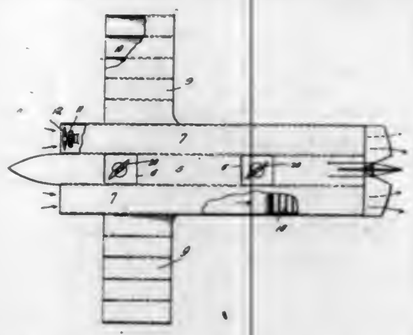
1. A machine for separating mica flakes having a rotating tumbling drum, baffles within the drum for tumbling the loosened mica slabs, and an air blast pipe having an opening adjacent to the inside of the drum and facing in a direction opposite to the direction of rotation of the drum for blowing the loosened flakes from the mica blocks.

1,666,131. MOTION-PICTURE-PROJECTION APPARATUS. MCCLELLAN C. FULLENLOVE, Toledo, Ohio, assignor of thirty per cent to Albert J. Buchheit and twenty-five per cent to Walter V. Ghislin, Park Ridge, Ill., and twenty per cent to William Buchheit, Asbury Park, N. J. Filed Jan. 15, 1926. Serial No. 81,489. 12 Claims. (Cl. 88—16.8.)



1. In motion picture projection apparatus, an optical system including a fixed objective lens, means for continuously moving a film past the said lens, a series of objective lenses movable across the focal axis of the fixed objective lens in a rectilinear path parallel with the plane of the picture area of the film, the said movable objective lenses having spaced parallel upper and lower margins and being of a height equal to the height of the picture areas of the film, and means for moving said lenses in consonance with the movement of the film and automatically grouping successive lenses in marginal engagement with one another as they successively pass the focal axis of the fixed objective lens and in optical registration with the respective successive picture areas of the film, the marginal engagement of the lenses registering with the lines of demarcation between successive picture areas.

1,666,132. AEROPLANE. MAURICE GALLET and ADOLPH B. ANDERSON, Poughkeepsie, N. Y. Filed July 28, 1927. Serial No. 209,044. 3 Claims. (Cl. 244—18.)



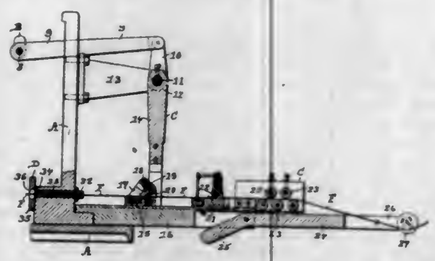
1. In an aeroplane, a body comprising a pair of longitudinally extending tubular side members, the bottoms of which adjacent their rear ends are depressed, to form compartments and turbines journaled in the side members so that their blades move longitudinally of the side members and in the compartments, being actuated by currents of air through the side members.

1,666,133. HAIR CLASP AND METHOD OF PRODUCING THE SAME. CLARK A. GIBSON, Shelbyville, Ill., assignor to Sta-Rite Hair Pin Company, Shelbyville, Ill., a Corporation of Delaware. Filed June 4, 1927. Serial No. 196,543. 6 Claims. (Cl. 132—41.)



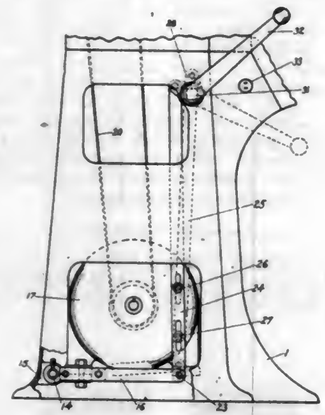
1. A hair clasp of the character described comprising a wire member formed of two legs and an ornamental element of hardened plastic material having a groove in one side extending substantially throughout its length and having one leg of the wire member attached to said ornamental element throughout substantially the whole length of said groove.

1,666,134. WIRE-CUTTING MECHANISM. ALBERT ABBE GRISWOLD, Providence, R. I., and ALVIN CARROLL GODDARD, Richmond Hill, N. Y.; said Goddard assignor, by mesne assignments, to John Francis Chevalier, Brookline, Mass. Filed Oct. 22, 1924. Serial No. 745,150. 2 Claims. (Cl. 140—140.)



1. A wire cutting mechanism comprising a hardened tubular steel wire cutting bushing secured in the frame of a machine and having a small flat wire bore and a squared off wire cutting end, a flat cutting plate having a comparatively large round cutting aperture, the circular edge of the aperture forming a continuous cutting edge larger than the small flat wire bore of the cutting bushing and secured to a slide of the machine and bearing against the squared off wire cutting end of the wire cutting bushing, said slide having up and down movements for the purpose as described.

1,666,135. BELT-TENSIONING DEVICE FOR THREADING MACHINES AND THE LIKE. LESLIE S. HALL, Erie, Pa., assignor to Williams Tool Corporation, Erie, Pa. Original application filed Feb. 18, 1924, Serial No. 693,604, and in Canada Mar. 20, 1924. Divided and this application filed Mar. 25, 1925. Serial No. 18,245. 2 Claims. (Cl. 308—11.)



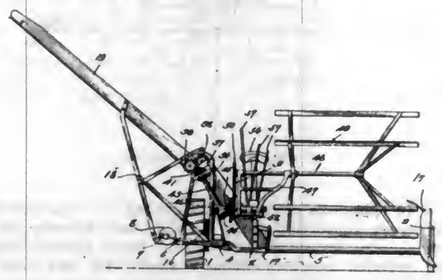
1. In combination with a power machine including an upright frame, rotatable means mounted in upper portion of said frame, a platform pivoted in said frame below said rotatable means, a motor on said platform, a substantially vertical link in said frame secured at its lower end to and supporting the free side of said platform, a stub shaft in said frame carrying at one end an arm secured to the upper end of said link, driving means between said motor and said rotatable means, means on said stub shaft for rotating the same to raise and lower said link whereby the tension of said driving means is relieved, and means for locking said link in raised position.

1,666,136. STEAM-ACTUATED AIR INJECTOR. LLOYD E. HARTER, Richmond, Ind., assignor to Crown Fuel Saver Company, Richmond, Ind., a Corporation of Indiana. Filed July 8, 1926. Serial No. 121,251. 1 Claim. (Cl. 110—60.)



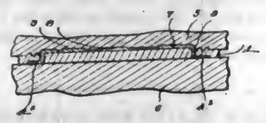
A secondary air injector, to be employed in connection with a furnace or the like, and comprising a pluralitw of cone-shaped rings spaced apart and integrally connected to form air inlets between each two and leading from the outside to the interiors thereof, a steam jet nozzle concentric with said rings and adapted to direct a jet of steam through the centers of all of said rings, means for detachably connecting said nozzle with one of said rings which is most remote to the ring to which said nozzle is connected, an air discharge nozzle extending from the outer end of said stem and formed flattened and fan-shaped horizontally with a slot formed through the end thereof for the discharge therethrough of air, and a dividing pier connecting the upper and the lower portions of said air discharge nozzle.

1,666,137. HARVESTER. HENRY HEUER, Cobb, Wis. Filed Sept. 13, 1924. Serial No. 737,527. 1 Claim. (Cl. 56—185.)



In a harvester of the class described, the combination with a main supporting wheel and a laterally extending frame supported at one end thereby, an endless apron moving from one side to the other of the frame, a sickle bar mounted for reciprocation in front of the apron, and a reel mounted for rotation above the sickle bar; of a structure extending over and laterally beyond the main supporting wheel upper and lower endless aprons for elevating material delivered from the apron on the first named frame, a longitudinal shaft supported by said structure at the outer side of the main wheel, means for transmitting motion from one end of said shaft to the sickle bar, means for transmitting motion from the other end of said shaft to the aprons, and mechanism for transmitting motion from the aprons to the reel.

1,666,138. ORNAMENTED ARTICLE AND METHOD OF MAKING THE SAME. GUY R. HOUGHTALING, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Filed Jan. 11, 1926. Serial No. 80,489. 4 Claims. (Cl. 41—10.)



1. An ornamental article comprising a piece formed of soft sheet metal and having an opening therein and an endless groove and an insert formed of soft sheet metal lying in flowed intimate contact with the first mentioned piece, and having its marginal edges flowed and coincident with the inner wall of the endless groove of the first mentioned piece, said insert having a prong extending therefrom through the opening of the first mentioned piece and deflected on the rear face of the latter.

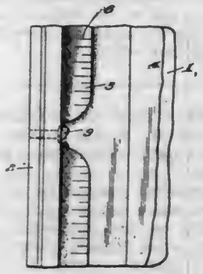
1,666,139. TRUCK FOR STOVES OR THE LIKE. JOHN ADOLPH JOHNSON, Meriden, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 20, 1925. Serial No. 51,285. 3 Claims. (Cl. 280—61.)

1. In a truck for stoves, or the like, a sheet metal frame including a central dished leg receiving portion, spaced radially extending caster mounting portions bent outwardly from said central portion, and reinforcing flanges extending along said mounting portions and the



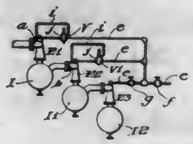
periphery of said leg receiving portion at each side of the bend between said portions, and casters swivelly supported on said mounting portions.

1,666,140. FORM-LOCATING MEANS. LOUIS G. JULIHN, Washington, D. C., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Apr. 12, 1926. Serial No. 101,593. 2 Claims. (Cl. 197—127.)



1. In combination, a flat platen, a locator disposed at one edge of the platen and having a convexly curved semi-circular face, and a work sheet movable on the platen past the locator to different line positions by pressure exerted on the sheet and having a locator engaging edge formed of alternately reversed curves of the same arc of a circle providing equi-distantly spaced arcuate indentations for receiving said face of the locator to determine line positions of the sheet and a line of intermediate arcuate cams movable on the locator when pressure is exerted on the shet in the longitudinal direction of the line of indentations and cams.

1,666,141. EJECTOR CONTROL. GOTTDANK L. KOTHNY, Strafford, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 30, 1925. Serial No. 40,515. 8 Claims. (Cl. 230—104.)



1. The method of comprising elastic fluid in stages, which comprises entraining and raising the pressure of elastic fluid in each of successive stages by elastic motive fluid in each stage, substantially completely discontinuing application of elastic motive fluid in an earlier of said stages by the motive fluid in response to rise to predetermined magnitude of the suction pressure in said earlier stage, whereby in continuing the operation a greater weight of elastic fluid is compressed per unit of elastic motive fluid utilized.

1,666,142. RIM SPREADER. PATRICK J. MCCRINK, Detroit, Mich. Filed Sept. 2, 1926. Serial No. 133,185. 1 Claim. (Cl. 157—1.)

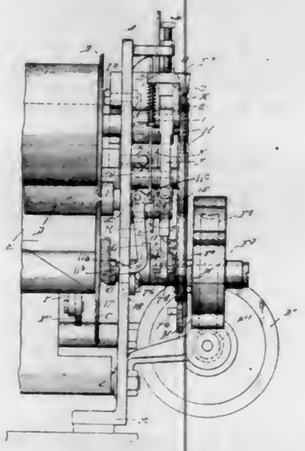


A rim spreader of the class described comprising a pair of bars pivotally connected together at one end, a pair of arms, each connected at one end pivotally to the opposite end of said bars; means for connecting said arms in pivotal relationship to each other adjacent their free ends; a slot bearing arm fixedly connected to the free end of one of said bars and projecting toward the other of said bars; and a tooth bearing arm pivotally connected to the free end of the other of said bars and engaging in said slot for resisting movement of said bars inwardly towards each other.

1,666,143. COMPOSITION OF MATTER FOR USE IN EDGING FABRICS. TILLIE MILLER, Cheyenne, Wyo. Filed May 26, 1927. Serial No. 194,534. 1 Claim. (Cl. 134—13.)

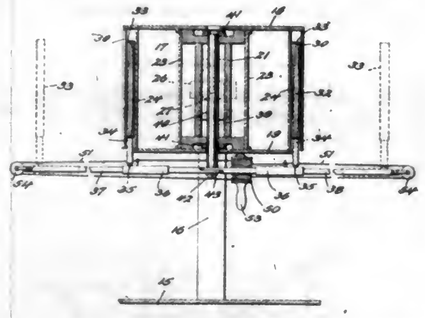
The herein described composition of matter for use in edging fabrics, which consists of the following ingredients substantially in the proportions stated, to wit, shellac 15 parts; rosin 5 parts; stearic acid 5½ parts; and a metallic powder 5½ parts.

1,666,144. BRAKE DEVICE. OSCAR PETERSON, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1926. Serial No. 97,004. 8 Claims. (Cl. 84—134.)



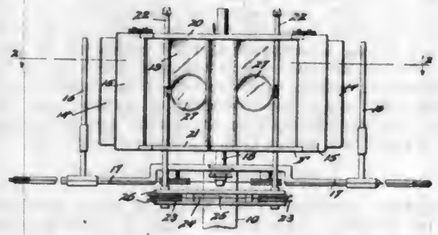
1. In means of the character set forth, the combination with sheet-feeding and rewinding mechanism comprising a music roll, a take-up roll, and a reversible electric motor for driving the rolls, of a brake for the take-up roll, and means actuated by said motor controlling the application of said brake, said means maintaining the brake in braking position during rewinding and in released condition during the music-playing operation.

1,666,145. REFLECTING AND REFRACTING DEVICE FOR STEREOSCOPES. WILLIAM P. REAVES, Greensboro, N. C. Filed Aug. 29, 1923. Serial No. 659,983. 2 Claims. (Cl. 88—29.)



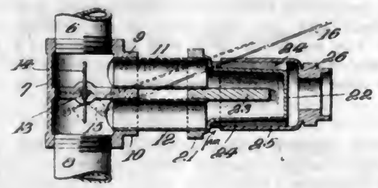
1. In apparatus of the class described, in combination, two lenses, supporting means for the lenses whereby they are mounted for rotatory movement about parallel axes and swinging movement about a single axis, and means for attaching said supporting means to a mirror frame.

1,666,146. REFLECTING AND REFRACTING DEVICE FOR STEREOSCOPES. WILLIAM P. REAVES, Greensboro, N. C. Filed Sept. 26, 1923. Serial No. 664,954. 5 Claims. (Cl. 88—29.)



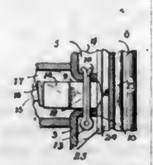
1. In an apparatus of the class described, in combination, a frame, mirrors mounted on the frame and arranged at an angle to each other, two lenses for each mirror, the axes of the lenses of each set intersecting at an angle of 90° and the lenses being adjustable into or out of operative position.

1,666,147. AIR HEATER FOR CHARGE-FORMING DEVICES. ALBERT G. REDMOND, Indianapolis, Ind., assignor to The Marvel Carbureter Company, Flint, Mich., a Corporation of Indiana. Filed Dec. 15, 1919. Serial No. 344,931. 1 Claim. (Cl. 257—241.)



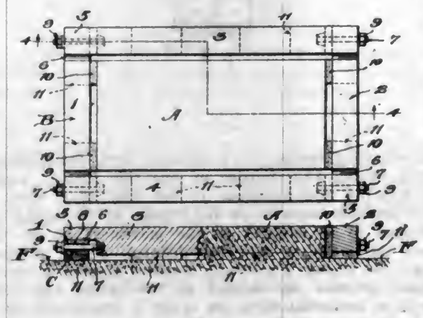
The combination with an internal combustion engine having an intake manifold and exhaust manifold, of a charge forming device connected to the intake manifold and having an air inlet, a casting arranged at the outlet of said exhaust manifold having a valve for controlling the passage of exhaust gases therethrough, said casting having outlet and inlet apertures, a tubular shaped member having a closed end and provided with a longitudinally disposed partition terminating short of its closed end and connected to said apertures of said casting by pipes forming a passageway for the exhaust gases when said valve is in closed position, said tubular member being provided with longitudinally disposed fins and a shell of a larger diameter than said tubular member arranged over said tubular member upon said fins, said shell being connected to the air inlet of said carbureter.

1,666,148. GRAVE VAULT. HERBERT R. RICK, Kent, Ohio. Filed Aug. 10, 1926. Serial No. 128,470. 1 Claim. (Cl. 27—35.)



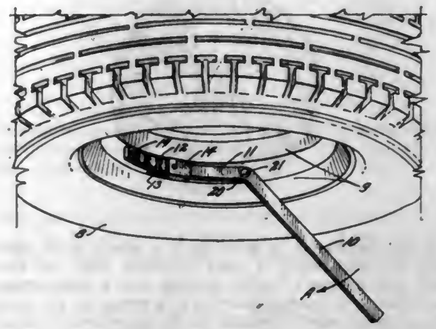
A grave vault comprising a base having depending marginal walls provided with outstanding flanges at their lower edges, the outer edge portions of said flanges being bent upwardly and inwardly to provide a pocket, a continuous gasket extending about the walls and seated in said pocket, said walls having tongues cut horizontally therefrom and bent outwardly to form openings and tongues extending outwardly from opposite margins thereof, housings mounted beneath said base in enclosing relation to said openings, latches in said housings spring pressed outwardly through said openings, the tongues extending outwardly from the walls at opposite margins of the openings being perforated to receive removable fasteners for holding the latches in an inoperative position, and a casing open at its bottom and having walls resting upon said gasket and adapted to be engaged by said latches to securely hold the casing in engagement with said base.

1,666,149. MOUNTING FOR MACHINERY. SIEGFRIED ROSENZWEIG, New York, N. Y. Filed July 30, 1925. Serial No. 47,116. 3 Claims. (Cl. 72—77.)



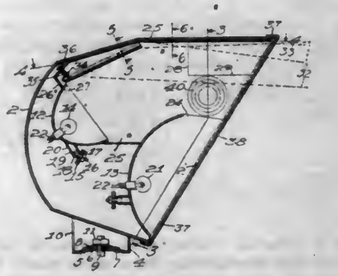
1. A mounting for machinery comprising a building part, a frame surrounding said building part and spaced therefrom, sound and vibration insulating elements adapted to be interposed between said frame and said building part and also between said frame and the floor of the building, and means for clamping certain parts only of said frame against the insulating material positioned between the frame and said building part.

1,666,150. TIRE-CASING SPREADER. JOSEPH P. SHEVLIN and STUART E. NORTON, Denver, Colo. Filed Aug. 26, 1927. Serial No. 215,724. 6 Claims. (Cl. 152—27.)



6. A tire casing spreader comprising a handle; a lever projecting from said handle; a lug projecting adjacent the junction between said handle and said lever; a sleeve adapted to surround said lever; a second lug projecting from said sleeve, said sleeve being slidable upon said lever; means for locking said sleeve in predetermined positions upon said lever, the opening in said sleeve for the reception of said lever being larger at one extremity than at the other; a tongue projecting inwardly into the enlarged portion of said opening notches in said lever adapted to receive said tongue and spring actuated means arranged to move said sleeve on said lever so as to maintain said tongue in any desired one of said notches.

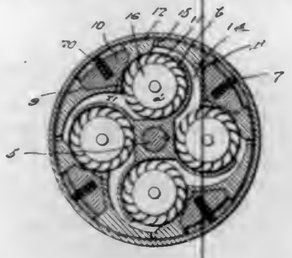
1,666,151. AUTOMOBILE HEADLIGHT. RALPH BERNARD STIERT, Sapulpa, Okla. Filed Dec. 27, 1926. Serial No. 157,296. 4 Claims. (Cl. 240—41.)



1. A headlight of the type described, comprising a casing having a detachable glass front, a reflector disposed adjacent said glass front, a source of light for said reflector disposed between the reflector and said glass front, said reflector being arranged to project light to a distance relatively near the headlight, an inner casing disposed within said casing, said inner casing having corrugations and arranged to reflect light, a reflector disposed near the rear end of said first named casing and partially encased by said inner casing, said

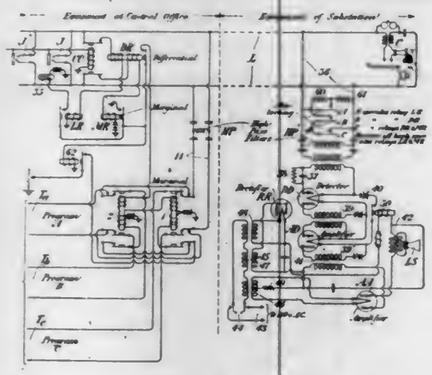
second named reflector having a source of light disposed in front thereof and arranged to project a beam of light against said corrugations, whereby the beam of light is reflected to a distance relatively far from the car.

1,666,152. TRANSMISSION MECHANISM. KARL JOSEF STRIGL, New York, N. Y. Filed Feb. 2, 1928. Serial No. 251,355. 9 Claims. (Cl. 74—34.)



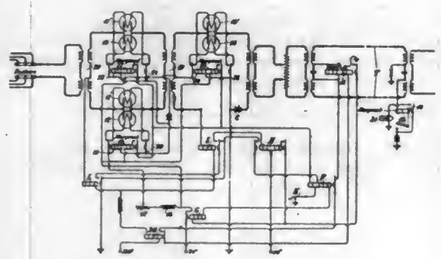
1. In combination, a drive shaft, a driven shaft alined with the drive shaft, a block rotatable with the drive shaft and having a radial cylinder and a compartment connected by a conduit therewith, a piston in the cylinder, a pocket wheel rotatable in the compartment, means urging the piston inwardly of the cylinder, a pinion operatively connected with the wheel, and a gear on the driven shaft meshing with the pinion.

1,666,153. PROGRAM-SELECTING CIRCUITS. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 10, 1923. Serial No. 679,736. 9 Claims. (Cl. 179—2.)



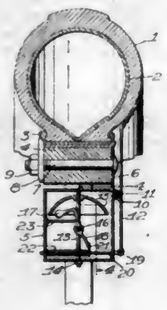
5. In a program transmission system, a subscriber's telephone line terminating in a subscriber's telephone apparatus at the subscriber's station, switching means at the central office whereby connections may be established between said subscriber's line and another subscriber's line, a plurality of trunks at the central office upon which programs may be impressed, relay operated switching means independent of said first mentioned switching means at the central office for establishing connections between any one of said trunks and said line to the exclusion of the others, and means at the subscriber's station for controlling the switching operation of said relay means while the receiver is on the switch hook.

1,666,154. DISTRIBUTION OF PROGRAMS OVER WIRES. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 12, 1924. Serial No. 725,643. 3 Claims. (Cl. 179—171.)



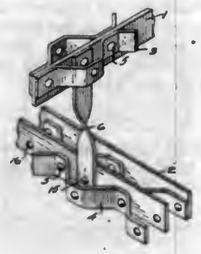
2. In a transmission circuit, an amplifier comprising a normal vacuum tube and circuits therefor, a spare vacuum tube, a current supply circuit for energizing the filament of said normal tube, a marginal relay connected in parallel with said filament, said marginal relay remaining deenergized while current flows through said filament and adapted to be energized when the filament burns out, and means controlled by said marginal relay for switching said spare tube into the amplifier circuit in place of the normal tube.

1,666,155. PNEUMATIC-TIRE SIGNAL. LEWIS H. UNGLESBY, Baton Rouge, La., assignor of one-half to Merrill H. Hughes, Baton Rouge, La. Filed Oct. 25, 1926. Serial No. 144,105. 1 Claim. (Cl. 116—34.)



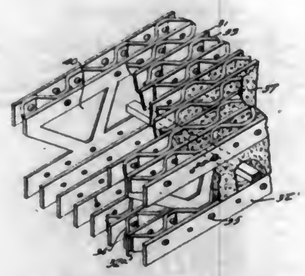
A signaling device for pneumatic tires, comprising a casing having an extension on one side thereof, means for securing said extension to the felly of a wheel, a lever pivotally mounted on the outside of the casing and arranged to be engaged by the movement of the tire when the latter is partially deflated, a bell disposed within the casing, a pivotally mounted clapper, a spring-pressed slidable bar carried by the casing and being pivotally connected with the lever, a finger carried by said slidable bar and arranged to engage one end of said pivoted clapper for initially moving and subsequently releasing the latter, and a spring connected to said clapper for retracting the same after its release by the finger.

1,666,156. ARMORED REENFORCED-CONCRETE SLAB. JOHN A. VOSKAMP, New York, N. Y., assignor to Irving Iron Works Company, a Corporation of New York. Filed Oct. 25, 1926. Serial No. 143,808. 12 Claims. (Cl. 94—8.)



1. A reenforced concrete structure comprising, in combination, a plurality of parallel spaced-apart supporting sills and a reenforced concrete slab supported thereby, said slab having two reticular reenforcing members embedded therein and lying in substantially parallel planes, one, near the lower surface thereof, having tension members extending across said supporting sills and the other, near the upper surface thereof, arranged crosswise of the first mentioned reticular member.

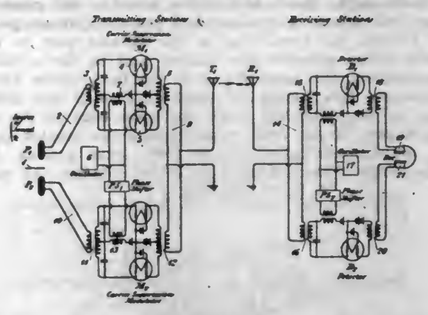
1,666,157. ARMORED REENFORCED-CONCRETE SLAB. JOHN A. VOSKAMP, New York, N. Y., assignor to Irving Iron Works Company, a Corporation of New York. Filed Oct. 25, 1926. Serial No. 143,809. 2 Claims. (Cl. 94—8.)



1. A structure adapted to serve as a reenforcement in concrete slabs, which structure comprises the combination of two similar gratings, each composed of a series of straight bars and a series of bent strips, each of which strips is located between, and fastened to, the straight bars of either side of it, a few of said straight bars uniformly spaced apart being wide enough to extend from one grating to the other and form an element in each, and having the portions between said gratings cut away into skeleton form.

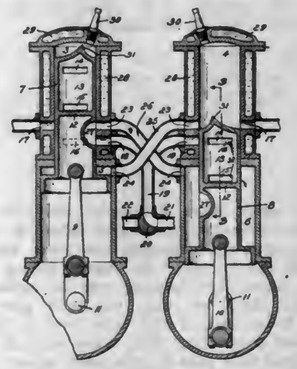
1,666,158. SYSTEM FOR BINAURAL TRANSMISSION OF SIGNALS. HERMAN A. AFFEL, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 31, 1925. Serial No. 78,710. 6 Claims. (Cl. 179—15.)

1. In a system for the binaural transmission of signals, the combination with a transmitting circuit of two similar input circuits connected therewith, each having a microphone and a modulator, a source of carrier



current common to both modulators, and a phase shifter interposed between the said source and one of the said modulators.

1,666,159. INTERNAL-COMBUSTION ENGINE. JEAN A. H. BARKEIJ, Los Angeles, Calif. Filed Apr. 30, 1924. Serial No. 710,075. 9 Claims. (Cl. 123—59.)

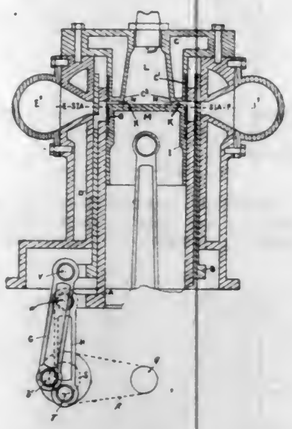


3. In a valveless two stroke cycle engine, in combination, a pair of differential cylinders with differential pistons therein operatively connected to a crankshaft for opposite reciprocation, transfer passages connecting the upper end of each large cylinder bore with a transfer port in the lower end of the adjacent small cylinder bore, ports connected to the atmosphere in the lower ends of each of said small bores below said transfer ports, and passages in said trunks adapted to connect said transfer and atmospheric ports when their respective pistons have reached the upper ends of their strokes.

1,666,160. SLEEVE-VALVE INTERNAL-COMBUSTION ENGINE. JEAN A. H. BARKEIJ, Los Angeles, Calif. Filed Mar. 26, 1925. Serial No. 18,456. 4 Claims. (Cl. 123—75.)

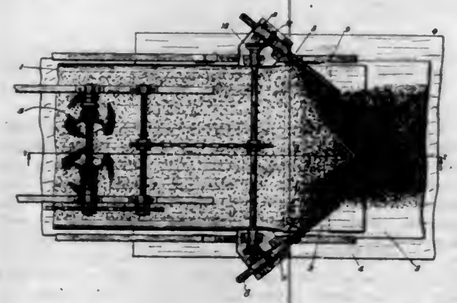
1. In a sleeve valve internal combustion engine, comprising a cylinder, two concentric sleeve valves within said cylinder, a reentrant head within said sleeves and a reciprocating piston within the inner one of said sleeves, an exhaust port opposite an inlet port in said cylinder communicating with the space inside said sleeves and below said head, and exhaust port opposite an inlet port in the inner sleeve at its upper end at about the same level, an exhaust port opposite an inlet port in the outer sleeve, said exhaust port above the level of the inlet port, connecting rod attached to said sleeves at their lower ends, said connecting rods attached to cranks on an eccentric shaft, the connecting rod of

the outer sleeve attached to a crank which moves ahead of that of the inner sleeve, said eccentric shaft rotating at half engine speed, said sleeves covering and uncovering their exhaust and inlet ports and the cylinder ports as follows, the lower edge of the exhaust port in the outer sleeve uncovers the exhaust port in the cylinder downwardly, the exhaust port in the inner sleeve being uncovered downwardly in cooperation with the lower edge of the detachable head, the lower edge of the exhaust port in the outer sleeve closing the exhaust port in the cylinder upwardly, its lower edge passing the upper edge of the exhaust port in the cylinder; the inlet



port in the outer sleeve uncovering the inlet port in the cylinder upwardly, the upper edge of the inlet port in the outer sleeve passing the lower edge of the inlet port in the cylinder; the lower edge of the inlet port in the inner sleeve passing over the lower edge of the reentrant head to cover the inlet port in this sleeve, the lower edge of this inlet port in this sleeve having passed downwardly this lower edge of the head to uncover this inlet port in this inner sleeve; the inlet port in the outer sleeve covering the inlet port in the cylinder downwardly, the upper edge of the inlet port in the outer sleeve passing over the lower edge of the inlet port in the cylinder.

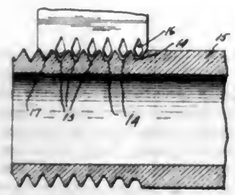
1,666,161. DELIVERY GUIDE. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1924. Serial No. 737,237. 7 Claims. (Cl. 198—188.)



1. In a device of the character described, an endless travelling mixing and conveying belt, an end pulley over which said belt passes and rotating directing delivery guides in marginal contact with the upper face of said belt travelling thereunder, and marginally located adjacent the discharging end of the mixing and conveying belt.

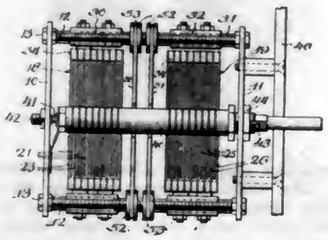
3. In a device for continuously discharging plastic material including an endless conveyor belt, means for inclining a portion of the belt adjacent its discharge end, delivery guides on each side of the inclined portion and under which the belt travels, and means arranged on the underside of the belt maintaining the inclined portion in contact with said guides.

1,666,162. THREAD CUTTER. HARVEY P. BOSTAPH, Detroit, Mich. Filed Aug. 6, 1923. Serial No. 655,944. 2 Claims. (Cl. 10—111.)



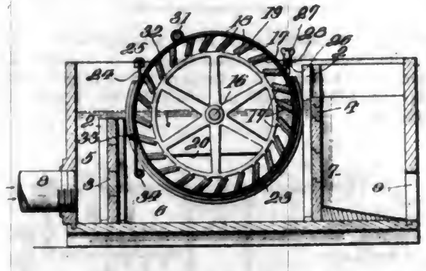
1. A threading device comprising a cutting member having cutting teeth formed thereon, said teeth having a recess formed in the advancing face of said teeth adjacent to and inwardly of the cutting edge thereof; and a guide tooth, free from a cutting edge, adapted for riding in the channels formed and for resisting the backward thrust of said member.

1,666,163. RADIOCONDENSER. PAUL A. CHAMBERLAIN, Chicago, Ill. Original application filed July 2, 1924, Serial No. 723,617. Divided and this application filed Jan. 22, 1926. Serial No. 82,934. 3 Claims. (Cl. 175—41.5.)



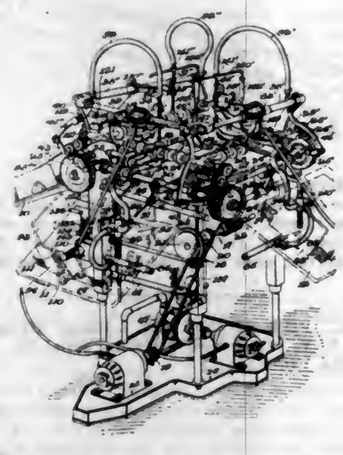
1. A multiple variable condenser comprising, in combination, a pair of end plates, frame members interconnecting said end plates, a plurality of independent sets of stator plates, insulation means interposed between said frame members and each of said sets of stator plates, whereby one set of said stator plates is substantially insulated from another set of said stator plates, a shaft journaled in said end plates, sets of rotor plates carried by said shaft and arranged to be interleaved between said sets of stator plates whereby the mutual capacity between said sets of plates may be simultaneously varied by rotation of said central shaft.

1,666,164. APPARATUS FOR AERATING AND SCREENING LIQUID. FRED B. CHAPPELL, Glens Falls, N. Y., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y., a Corporation of New York. Filed Apr. 11, 1922. Serial No. 551,564. 10 Claims. (Cl. 210—190.)



1. An apparatus of the kind described comprising a receptacle, a foraminated cylinder revolubly mounted in said receptacle having a plurality of pockets disposed beneath the foraminous surface thereof, means for scaling said pockets, said pockets being adapted to collect water on the ascent of said pockets and to collect air on the descent of said pockets for aerating and cleaning the surface of said cylinder.

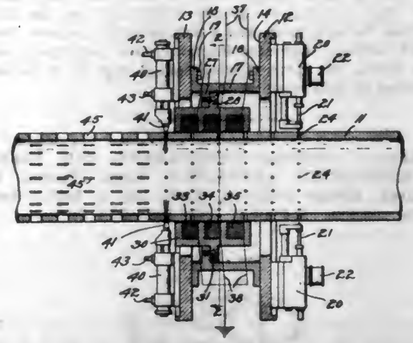
1,666,165. SHEET-FEEDING MACHINE. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1925. Serial No. 15,641. 26 Claims. (Cl. 271—64.)



1. In a device of the character described, the combination of a plurality of receivers angularly disposed with relation to each other, and means for successively delivering sheets from a common pile into said receivers.

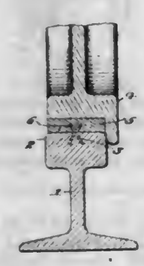
1,666,166. METHOD OF CUTTING SLOTS IN METAL. CLARENCE J. COBERLY, Los Angeles, Calif., assignor to Kobe, Inc., Los Angeles, Calif., a Corporation of California. Filed Dec. 2, 1925. Serial No. 72,690. 8 Claims. (Cl. 148—9.)

1. A method of forming a slot in a piece of metal and determining the rate of quench of the walls of said slot, said method comprising: uniformly heating an extensive area of said metal; directing a cutting jet through said metal in an interior portion of said extensive heated area to form a slot in said metal, the difference in temperature between the walls of said slot and said extensive area of metal being much less than otherwise, due to said



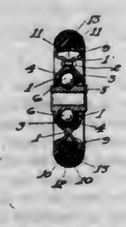
uniform heating of said extensive area; and permitting said metal to cool gradually, the temperature of said extensive area determining the rate of quench of the walls of said slot.

1,666,167. RAILWAY RAIL, WHEEL, AND BRAKE SHOE. JOHN LAURENCE CONNOLLY, New York, N. Y. Filed Sept. 27, 1927. Serial No. 222,867. 4 Claims. (Cl. 238—148.)



1. The combination of a rail provided with a substantially inverted V-shaped groove containing friction material, and a wheel having a peripheral groove of the same shape as that in the rail and containing friction material adapted to contact with the material in the rail.

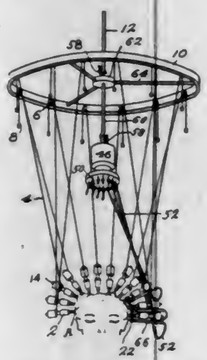
1,666,168. SKATE ROLLER. EUGENE A. COPELAND, Worcester, Mass., assignor to The Samuel Winslow Skate Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 6, 1927. Serial No. 196,915. 1 Claim. (Cl. 208—181.)



A skate roller comprising a pair of annular side plates assembled in opposed relation to make a substantial contact with each other on a circle intermediate their inner

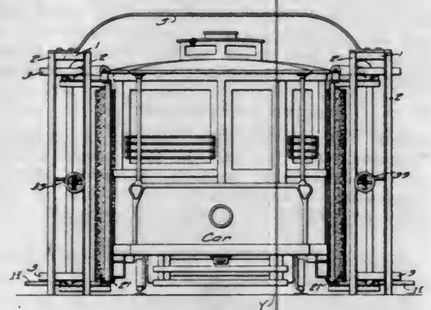
and outer peripheries, fastening means to hold said plates together, on said intermediate circle of contact, said plates, both inwardly and outwardly of said circle of contact, being laterally flared, a pair of cooperating ball race sections disposed within said inner lateral flaring portions of said plates, balls in said race sections, a hub with a peripheral groove which provides the inner raceway for said balls, and a circular tread member interposed between the outer lateral flaring portions of said side plates, the latter having spaced lugs to fit in slots provided by said tread member.

1,666,169. COOLING ATTACHMENT FOR PERMANENT-WAVING APPARATUS. LOUIS VICTOR DORANGE, Kansas City, Mo. Filed July 5, 1927. Serial No. 203,523. 8 Claims. (Cl. 132—36.)



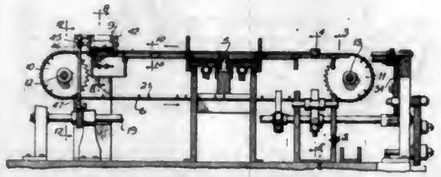
1. In combination with permanent hair waving apparatus including curling pins, devices adapted to be applied to said curling pins and having air chambers with outlets directed towards the scalp, and means for forcing air through said chambers and said outlets.

1,666,170. VEHICLE SIDE AND WINDOW WASHING MACHINE. JAMES R. FITZPATRICK, New York, N. Y. Filed July 27, 1926. Serial No. 125,139. 3 Claims. (Cl. 15—53.)



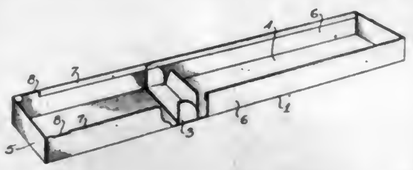
1. In a vehicle side and window washing machine the combination of spaced means defining a vehicle passageway, each of such means comprising an upstanding stationary frame for a brush carriage; of a brush carriage supported by said frame and movable toward and away from the passageway; cooperating means between said frame and carriage for supporting the latter movably on said frame; a plurality of vertical shafts revolubly journalled in said carriage; brushes carried by said shafts adapted to clean a vehicle by contact therewith; brush driving mechanism carried by said carriage and movable therewith with respect to said frame, said mechanism comprising motor means and gearing operated thereby for driving the brushes; a water supply apparatus for the brushes; and means under control of an operator for adjusting the brushes into and out of working position, toward and away from the passageway.

1,666,171. SHEET-HANDLING MECHANISM. PAUL A. GOLLNICK, Chicago, Ill., assignor to Spiegel, May, Stern Co., Chicago, Ill., a Corporation of Illinois. Filed May 12, 1926. Serial No. 108,502. 23 Claims. (Cl. 271—1.)



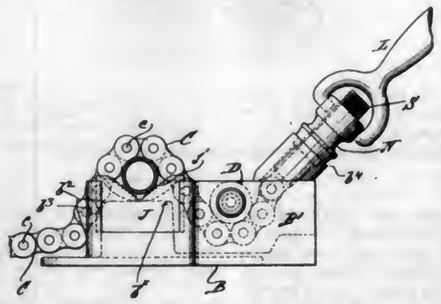
1. In a device adapted for the flatwise handling of sheets, an endless conveyer having projecting parts adapted to engage apertures in said sheets for feeding them through a predetermined path.

1,666,172. TRAY. PAUL A. GOLLNICK, Chicago, Ill., assignor to Spiegel, May, Stern Company, Chicago, Ill., a Corporation of Illinois. Filed June 11, 1927. Serial No. 198,171. 15 Claims. (Cl. 101—47.)



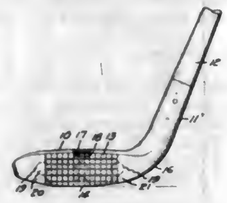
1. A device of the class described, comprising a tray, a follower slidably supported in said tray, said follower being also tiltable, and interengaging means on said tray and follower for frictionally securing said follower against shifting when the latter is tilted to one position.

1,666,173. PIPE CHAIN VISE. HENRY HEIDE, New York, N. Y. Filed June 9, 1925. Serial No. 35,864. 6 Claims. (Cl. 81—19.)



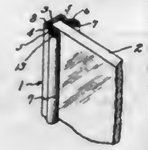
1. A chain vise of the character designated comprising a base, means thereon for supporting an article to be clamped, a clamping chain, means for holding one end of said chain, an adjustive tightening screw connected with the other end of said clamping chain, a stationary abutment sleeve projecting from said supporting means and inclined upwardly and outwardly at an angle to said base, a power nut engaging said screw and bearing upon said abutment sleeve for moving said screw in an upward and outward direction to tighten said chain, and a deflector interposed between said adjustive tightening screw and the means of support for the article to be clamped.

1,666,174. GOLF PUTTER. ELMER R. HOLLAND, San Francisco, Calif. Filed Mar. 17, 1927. Serial No. 175,963. 2 Claims. (Cl. 273—77.)



2. A golf putter comprising a head of aluminum having a striking face, a bulged rear side and a sole, said head having a plurality of recesses disposed at spaced points along the sole of the head, a like number of recesses disposed at spaced points along the rear side of the head and spaced apart substantially the same distance as said first named recesses, and weighting material within said recesses.

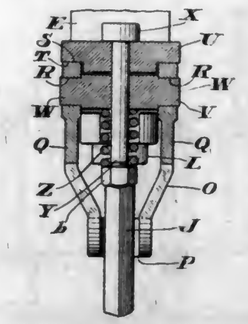
1,666,175. WINDOW GUIDE. ELMER M. KENNEDY, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 3, 1925. Serial No. 20,500. 2 Claims. (Cl. 296—44.5.)



1. A runway for a glass panel comprising a channel shaped member of flexible material, and reinforcing means for said channel shaped member including a wire extending longitudinally of said channel shaped member having alternately arranged oppositely extending successive substantially symmetrical loops disposed in the sides of said channel member, the sides of each loop being substantially parallel and inclined with respect to the longitudinal median line of said runway, the inner ends of the parallel sides of the loops on one side of said median line connecting to the inner ends of the parallel sides of the loops on the other side of the median line and forming therewith flat substantially V-shaped portions that are disposed in and reinforce the base of said channel shaped member.

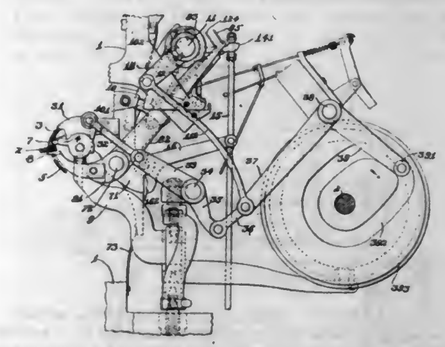
1,666,176. STEEL RETAINER FOR ROCK DRILLS. EARL B. LEAR, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 16, 1927. Serial No. 199,258. 3 Claims. (Cl. 121—32.)

1. A steel retainer for a rock drill, comprising in combination a front head, an enlargement on the front head having seating surfaces on one side thereof, a floating pin beneath the enlargement and extending transversely of the front head, means for guiding the pin, a retainer pivoted on the pin having end surfaces shaped to conform to the



seating surfaces, and a spring on the said guiding means exerting a pressure on the pin for holding the end surfaces firmly against the seating surfaces.

1,666,177. SEWING MACHINE. FRANK W. MERRICK, Boston, Mass. Filed July 15, 1925. Serial No. 43,635. 9 Claims. (Cl. 112—48.)

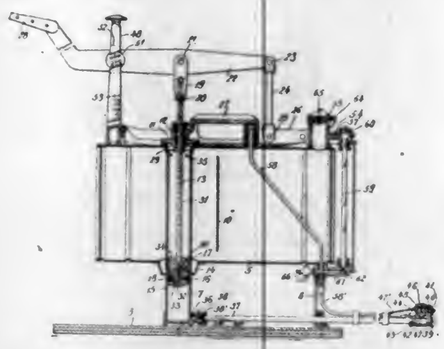


1. In a sewing machine, the combination with a work-penetrating and feeding implement, a presser movable toward and from the plane of the work engaging with one side of the work, an automatic presser-lift by which pressure of the presser upon the work is relieved at time of feed-movement, and a work-table or support for the other side of the work movable toward and from the plane of the work of means acting to move the work-table or support out of contact with the latter side of the work for and during the feed-movement so that as the latter occurs the work is advanced without necessary contact with either the presser or the work-table or support.

1,666,178. DISPENSING APPARATUS. JOSEPH D. NEULS, Los Angeles, Calif., assignor to California Cyanide Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 25, 1925. Serial No. 39,588. 5 Claims. (Cl. 221—103.)

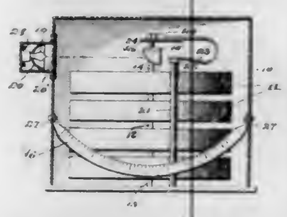
1. In an apparatus for delivering liquids which consists of a cylinder and a piston in the cylinder for ejecting the liquid therefrom, a lever operable to reciprocate the piston and means for limiting the ejecting stroke of the lever, this means comprising a rack divided by a web, holes in the rack on both sides of the web and adjustable pins adapted to fit in these holes, the pins on one side of

the rack limiting the movement of the lever to permit the ejection of a measured quantity of liquid and the pins



on the other side of the rack limiting the movement of the lever to permit the ejection of a multiple of the first mentioned quantity.

1,666,179. PRECISION ALTIMETER. DACHE M. REEVES, Lee Hall, Va. Filed Apr. 10, 1922. Serial No. 551,348. 4 Claims. (Cl. 73—4.)



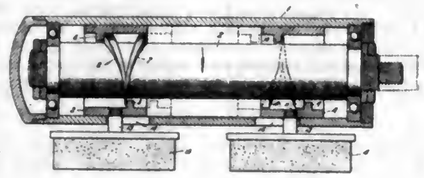
1. An altimeter comprising an expansible means, a source of artificial light and means movable in a vertical path by said expansible means for deflecting a light ray at different angles in accordance with the degree of expansion and contraction of the expansible means.

1,666,180. LIGHT-WEIGHT GYPSUM PRODUCTS. CARLISLE K. ROOS and MURRELL G. ALLISON, Fort Dodge, Iowa, assignors to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1924. Serial No. 745,419. 2 Claims. (Cl. 106—34.)

2. The process for increasing the bulk and decreasing the weight of gypsum products which consists in adding 2.3 parts by weight of a solution of sodium silicate to the gauging water therefor, in mixing it with one hundred parts of calcined gypsum, in rendering plastic the gypsum and forming the product of the resultant mass, and in allowing it to set.

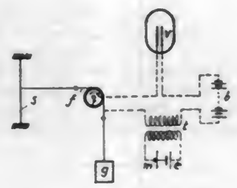
1,666,181. PORTABLE POLISHING TOOLS. RICHARD SCHMID and WALTER WEZEL, Stuttgart, Germany, assignors to Biax Flexible Shaft Co., Incorporated, a Corporation of New York. Filed July 7, 1926, Serial No. 121,003, and in Germany July 31, 1925. 2 Claims. (Cl. 51—170.)

1. In a polishing tool, the combination of a casing; reciprocable sleeves mounted in and guided by said casing; a revoluble shaft carried by said casing and surrounded by said sleeves; driving connections between



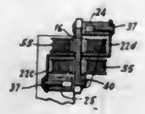
said shaft and said sleeves; polishing elements mounted on said sleeves; and means for applying power to revolve said shaft.

1,666,182. ELECTRICAL OPERATING APPARATUS. JOHANNES MICHAEL SCHMIERER, Gross-Lichterfelde, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1925, Serial No. 24,662, and in Germany Nov. 19, 1923. 5 Claims. (Cl. 179—108.)



4. The method of detecting weak electrical oscillations which consists of applying them to a glow discharge device in the state of pre-glow discharge and thereby operating an electro-mechanical device.

1,666,183. ELECTROMAGNETIC TRANSLATING DEVICE. LAZARUS SHAPIRO, New York, N. Y. Filed Apr. 11, 1927. Serial No. 182,555. 8 Claims. (Cl. 179—119.)

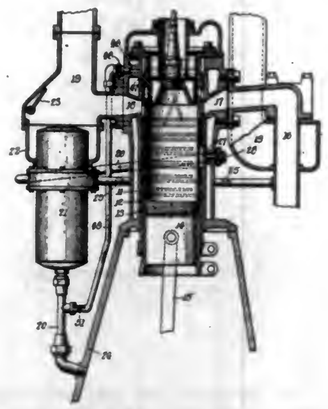


1. In an electro-magnetic translating device having an air gap, an armature co-operating with said gap, a mounting for said armature, a portion of said device and said mounting having co-operating surfaces extending parallel to the plane of vibration of the armature, and means for securing said mounting to said portion of the device permitting relative movement of said co-operating surfaces to permit of adjustment of the armature in said plane of vibration.

1,666,184. SLEEVE TYPE OF INTERNAL-COMBUSTION-ENGINE LUBRICATION. RALPH L. SKINNER and EDMOND H. LAMBERT, Detroit, Mich., assignors to Skinner Automotive Device Co., Inc., Detroit, Mich., a Corporation of California. Filed Sept. 13, 1926. Serial No. 135,046. 13 Claims. (Cl. 123—196.)

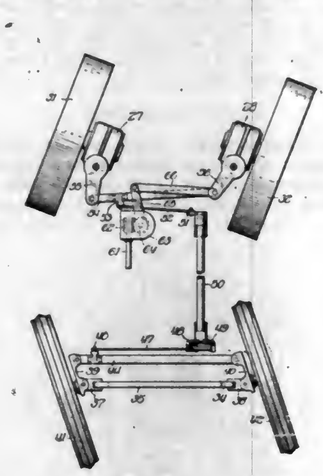
1. In an internal-combustion engine, the combination of an engine-cylinder having intake and exhaust ports,

sleeve means in said cylinder controlling said ports, means to move said sleeve means, a reciprocatory piston in said sleeve means, means to lubricate said cylinder, sleeve means and piston, and additional means to intro-



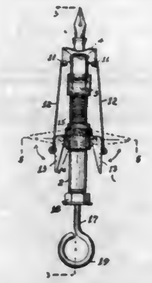
duce lubricant into the sealing-head compartment of the engine and to remove at least a part of such lubricant after it has passed down a portion of the length of said sleeve-means.

1,666,185. GARDEN TRACTOR. GEORGE T. STRITE, Port Washington, Wis., assignor of two-thirds to Harry W. Bolens, Port Washington, Wis. Filed July 2, 1923. Serial No. 648,921. 3 Claims. (Cl. 280—9.1.)



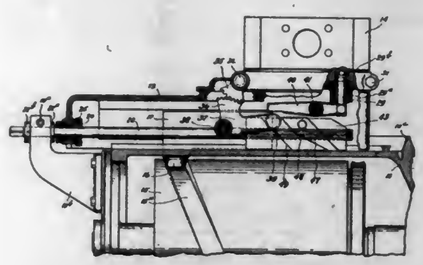
1. In a vehicle having front and rear wheels, means of ordinary type for steering certain of the wheels, and supplemental means connecting the steered wheels and other wheels, said means comprising a shaft adapted to be rotated by steering movement of the steered wheels, a yoke rotated by said shaft, a slide on said yoke and means for moving the slide and connecting it to the other wheels whereby the other wheels may be selectively caused to steer with, or opposite to the steered wheels or to remain unaffected by steering movement of the steered wheels.

1,666,186. DEVICE FOR CLEANING FOUNTAIN PENS. WOO TONG, Cleveland, Ohio. Filed Aug. 8, 1927. Serial No. 211,373. 8 Claims. (Cl. 141—1.)



1. A device for cleaning the detachable pen section of a fountain pen, comprising a cylinder, a piston within said cylinder, and means supported by said cylinder for holding and drawing said pen section axially against said cylinder.

1,666,187. TURRET MECHANISM FOR MACHINE TOOLS. JOHN J. N. VAN HAMERSVELD, Cleveland, Ohio, assignor to The Warner and Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 4, 1924. Serial No. 753,869. 17 Claims. (Cl. 29—44.)



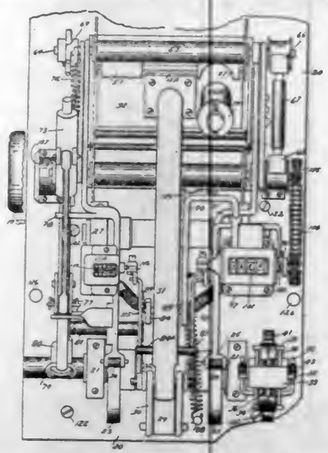
1. In a machine tool of the turret type, a bed, a turret slide movable along the bed, a turret carried by the slide, a member supported by the bed independently of the slide and having a device for causing the indexing of the turret during the movement of the slide, and adjusting means connected to the slide and to said member for simultaneously adjusting both.

10. In a machine tool of the turret type, a bed, a turret slide movable back and forth along the bed and provided with a turret, a ram normally connected with the turret slide for reciprocating the same, means for locking the turret to the slide, devices for actuating the locking means, and for indexing the turret while the slide is being given its normal movement, and means for adjusting the slide relative to the ram and at the same time maintaining a fixed relation between the slide and said devices.

1,666,188. PRINTING PRESS. RALPH G. WHITLOCK, Los Angeles, Calif. Filed June 25, 1925. Serial No. 39,558. 40 Claims. (Cl. 101—93.)

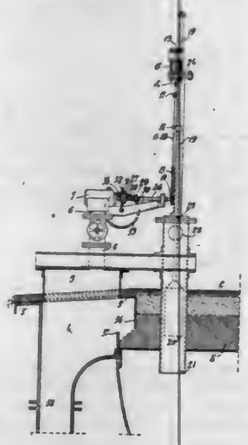
1. In combination, a printing means; a printing arm therefor; means for actuating said printing arm to lower

said printing means for printing purposes and for alternately elevating the same; and means operating coordi-



nately with said printing means for holding the matter being printed to prevent removal of the same and the insertion of other matter during one printing operation.

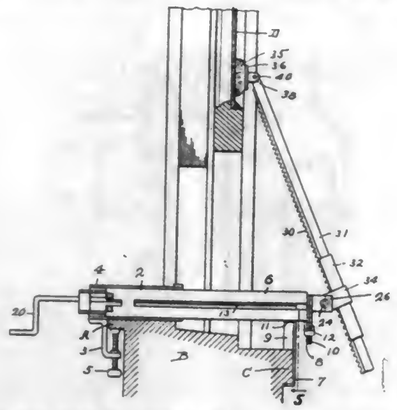
1,666,189. WASHING APPARATUS FOR COALS. PHILIPPE WOLF, Paris, France. Filed June 28, 1926, Serial No. 119,016, and in France July 3, 1925. 2 Claims. (Cl. 209—491.)



1. In an apparatus for washing coals, in combination, a perforated bed on which the materials to be washed are disposed in layers with the lightest materials at the top, a piston device for intermittently forcing water through said bed and the materials thereon, a chamber communicating with the bed through which the heavier materials are evacuated, a float responsive to the pulsations of water through said materials, a valve controlling communication of said chamber with the atmosphere and means operated by said float for governing said valve.

1,666,190. WINDOW WASHER. JOHN E. ZOOK, Kansas City, Mo. Filed May 23, 1927. Serial No. 193,509. 1 Claim. (Cl. 15—103.)

In a machine of the character described, a frame adapted to be secured to a window sill, a window cleaning device, a rack, a guide for said rack, a yoke to which said guide is fixed, a plate rockably mounted at the forward portion of the frame and provided with bearings in which a shaft is journaled, a gear wheel mounted.

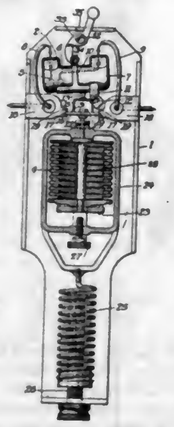


upon said shaft for driving the rack, intermeshing bevel gears for driving said shaft, and a drive shaft mounted in the frame and upon which one of said bevel gears is mounted.

1,666,191. METHOD OF TREATING MAGNETIZABLE MATERIALS. ADOLPH FRANCIS BANDUR, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1924. Serial No. 755,370. 10 Claims. (Cl. 178—45.)

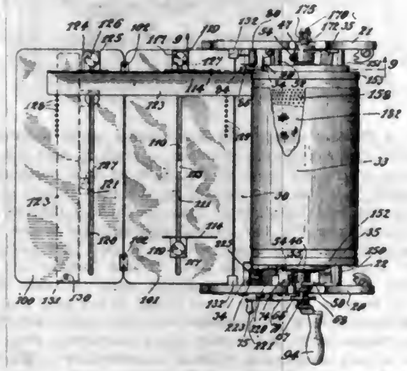
1. A method for improving the magnetic characteristics of magnetizable materials, which consists in locally flash heating said material to a high temperature, cooling the material, and controlling the rate of cooling to cause a rapid loss of heat in the material from a temperature not below 500° C.

1,666,192. THERMOSTAT. JOHN E. BOLLING, Chicago, Ill., assignor to Drying Systems, Inc., Chicago, Ill., a Corporation of Illinois. Filed May 21, 1925. Serial No. 31,826. 9 Claims. (Cl. 236—1.)



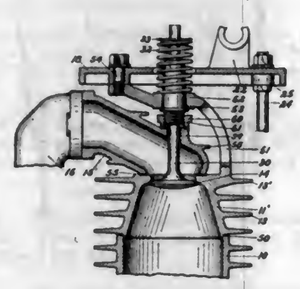
1. In a device of the class described, the combination with control means for temperature regulating equipment, of a support, an expansion element on said support, a yoke carried by said expansion element so as to be actuated thereby, a spring arranged to resist expansion of said element, and a stop for limiting the expansion of said element, said spring and stop being adjustable for varying the range of movement of said element, said element being arranged to immediately actuate said control means upon a reversal in the direction of movement of said element.

1,666,193. STENCIL-DUPLICATING MACHINE. ERNEST J. BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1925. Serial No. 61,172. 18 Claims. (Cl. 101—118.)



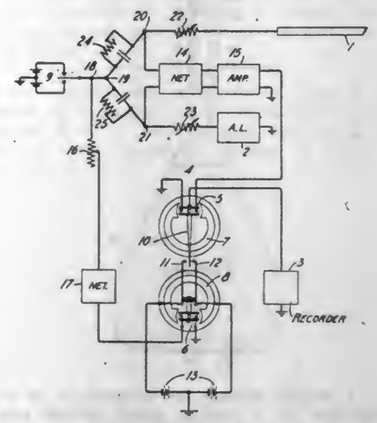
1. In an apparatus of the character described, in combination, a rotatable printing cylinder, a releasable detent for the cylinder, positively preventing rotation of the cylinder in one direction until the detent is released, and another releasable detent for the cylinder, positively preventing rotation of the cylinder in the opposite direction until this detent is released.

1,666,194. AIR-COOLED INTERNAL-COMBUSTION ENGINE. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed June 8, 1921. Serial No. 475,954. 4 Claims. (Cl. 123—171.)



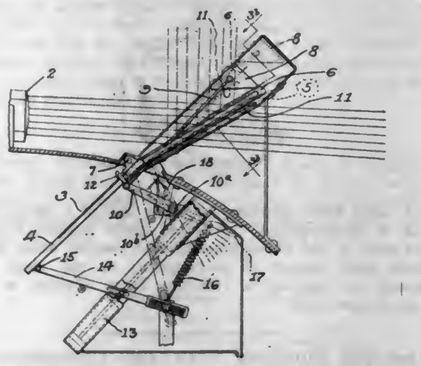
1. An air cooled engine including a cylinder and a cylinder head having a central exhaust valve seat, heat conducting and radiating means immediately adjacent thereto arranged to cool said seat, an exhaust pipe section connected to said head immediately surrounding said valve seat, a heat insulated gasket at said connection and a valve stem guide supported from said head independently of said exhaust pipe.

1,666,195. DUPLEX TELEGRAPH SYSTEM. ALLISON A. CLOKEY, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 18, 1927. Serial No. 190,999. 7 Claims. (Cl. 178—69.)



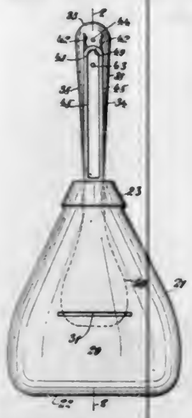
1. A duplex system terminal arrangement comprising a main and an artificial line, a source of current for transmitting signals, a translating device responsive to incoming signals, and means for neutralizing disturbing effects due to imperfect balance between the main and artificial lines, said means including independently movable members arranged to move simultaneously in the same direction in response to outgoing signals and the unbalance currents produced thereby, so as to prevent relative movement therebetween and the subsequent operation of said translating device.

1,666,196. VERTICAL BEACON. HERMANN F. CUNTZ, Hartford, Conn. Filed Aug. 16, 1922. Serial No. 582,171. 15 Claims. (Cl. 240—1.)



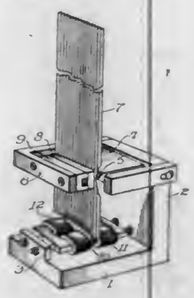
1. A beacon for guiding aircraft at night, comprising a source of light beam, means for controlling the projection of said beam skyward and means for varying the angle a limited amount from the vertical, means for progressively varying said angularity of the beam synchronously with the speed of movement of the source of light along the ground, whereby ground motion of the source continuous in a substantially horizontal direction is accommodated with vertical angular change of the beam in a ratio to keep a point of the beam at a predetermined height above the source in a fixed position, for the purpose described.

1,666,197. EXPANDIBLE VAGINAL SYRINGE. AARON DOLMATCH, Bayonne, N. J. Filed Aug. 16, 1926. Serial No. 129,422. 4 Claims. (Cl. 128—244.)



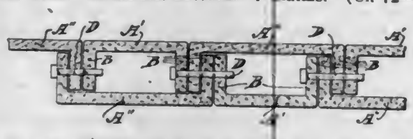
1. In a vaginal syringe the combination of a compressible bulb for a fluid, a pocket formed with the wall of the bulb, a nozzle having openings extending from the bulb and fingers having a shank formed therewith, said shank located in said pocket of the bulb, a compression of the bulb simultaneously swinging said fingers outwardly from the wall of the nozzle and discharging the fluid from the bulb through the openings of the nozzle.

1,666,198. LOUD SPEAKER. HENRY M. DRESSEL, Chicago, Ill. Filed Apr. 7, 1926. Serial No. 100,332. 4 Claims. (Cl. 179—115.)



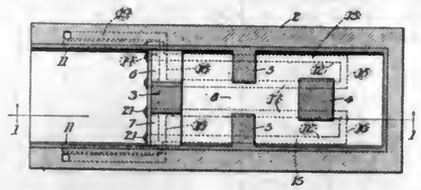
1. In a sound producer, a frame having a linear bearing, a longitudinally corrugated plate secured between the ends to the linear bearing, said bearing being transverse with respect to corrugations of the plate, and means for applying a vibrating force effective at one end of said plate.

1,666,199. BUILDING UNIT AND CONSTRUCTION. FRANCIS W. FITZPATRICK, Evanston, Ill. Filed Sept. 22, 1926. Serial No. 137,044. 7 Claims. (Cl. 72—39.)



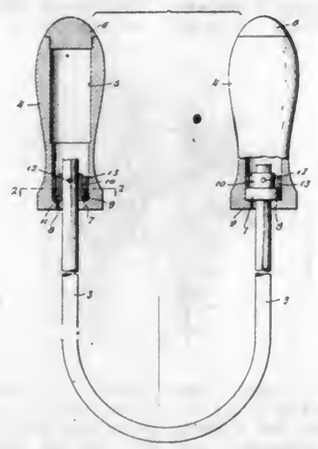
1. A wall construction comprising an assemblage of channel units, each channel unit being made up of a relatively long body having spaced edge flanges and the said units being arranged so that the units at the outer side of the wall have their edge flanges projecting inwardly and the units at the inner side of the wall have their edges projecting outwardly, the said edge flanges overlapping one another and means securing the said edge flanges together and passing transversely through the overlapped portions.

1,666,200. FURNACE. IRA W. FOLTZ, Chicago, Ill. Original application filed Oct. 16, 1920, Serial No. 417,443. Divided and this application filed Sept. 17, 1923. Serial No. 663,177. 3 Claims. (Cl. 110—82.)



1. A furnace comprising surrounding walls forming a fire-box and combustion chamber, a grate in said fire-box located above the level of the floor of said combustion chamber, a bridge wall located at the rear of said grate, a pier on said bridge wall near the middle thereof and extending from the top thereof substantially to the roof of said furnace, the front surface of said pier being at right angles with the side walls of said furnace and the lateral sides thereof being paralel with the side walls of the furnace, and wing piers joined to the side walls of said furnace at a point rearwardly and equidistant from said bridge wall, said wing piers extending from the floor of said combustion chamber substantially to the roof thereof, the front surfaces of said wing piers being at right angles with the side walls of said furnace, a pier located rearwardly from said wing piers near the middle of said combustion chamber and extending from the floor thereof substantially to the roof thereof, the front surface of said pier being at right angles with the side walls of said furnace.

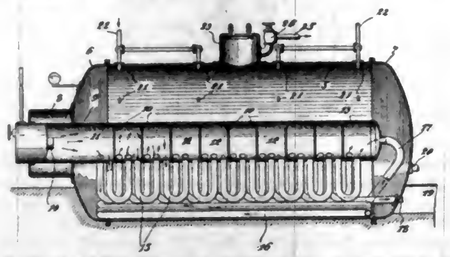
1,666,201. JUMPING ROPE. ISIDORE M. GOLDSTEIN, Brooklyn, N. Y., assignor to Morris Becker, Brooklyn, N. Y. Filed Sept. 30, 1926. Serial No. 138,617. 3 Claims. (Cl. 272—75.)



1. A device of the character described including a rope, handles therefor, an antifriction device carried by each handle and including cooperating members one of which

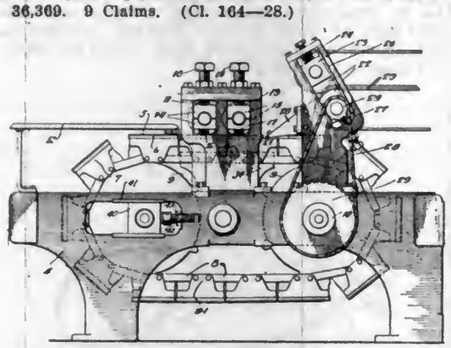
is rotatable relative to the other and to said handle, means for securing one end of said rope to the first named member, and a collar in each handle engageable with said other member of the device therein and in spaced relation to said first named member for retaining said device in position.

1,666,202. STEAM BOILER. KARL HAMM, Hartford, Conn. Filed May 14, 1926. Serial No. 109,055. 8 Claims. (Cl. 122—41.)



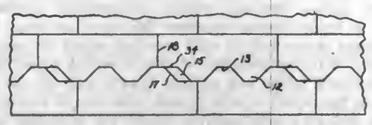
8. In a steam boiler, a boiler shell, a plurality of chambers arranged serially within said shell in axial alignment, depending tubes connecting said chambers, a fluid supply heating medium for one end chamber, means for discharging the gases and products of combustion from the other end chamber, and a coil connected to the discharge and arranged in the shell below the depending tubes.

1,666,203. SHINGLE MACHINE. NORMAN P. HARSHBERGER, Chicago, Ill. Filed June 11, 1925. Serial No. 36,369. 9 Claims. (Cl. 164—28.)



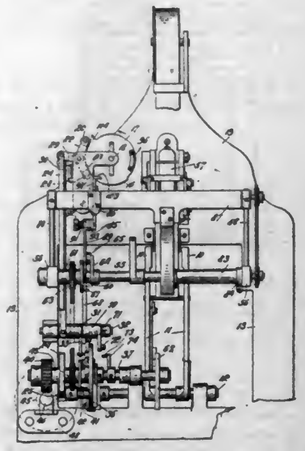
8. In a machine for cutting articles from a relatively flat sheet of material, a block mounted for movement in a substantially straight path, a cutting member projecting from said block for cutting the sheet, strippers mounted adjacent said block for stripping the articles therefrom, and fingers fixed to the ends of said strippers and adapted to pass immediately over the surface of said blocks upon which said knives are mounted.

1,666,204. SHINGLE. NORMAN P. HARSHBERGER, Chicago, Ill. Filed June 16, 1926. Serial No. 116,279. 13 Claims. (Cl. 164—17.)



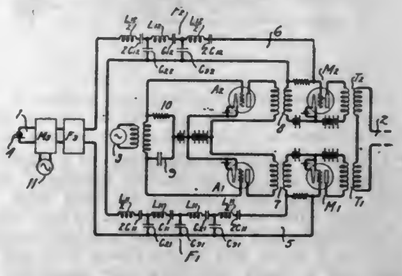
10. A method of cutting shingles from a strip of shingle material which consists in severing the strip longitudinally along a line having bends therein, so as to form similar and equal projections and recesses on the two severed edges, until a certain point is reached, and from this point in severing the strip along two bent lines meeting at another point, thus severing from the strip a waste piece, and in then from the point of meeting severing the strip longitudinally along another line similar to the first mentioned line, and in severing the strip transversely across some of the narrow portions of the severed strips.

1,666,205. BUNDLING MACHINE. JOSEPH J. HART, Newark, N. J., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed Sept. 23, 1926. Serial No. 137,202. 4 Claims. (Cl. 93—93.)



1. A machine of the character described having, in combination, means for gathering together the articles to be made into a bundle, a carrier for receiving the gathered articles, means for wrapping a binder around the articles, means for applying adhesive to the binder, a shaft on which the carrier is mounted, a constantly driven sleeve journaled on the shaft, means for operatively connecting the sleeve and the shaft to cause the latter to make a complete rotation, and means for temporarily disconnecting the sleeve from the shaft during the rotation of the latter to permit the adhesive to set.

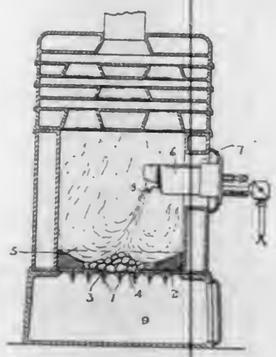
1,666,206. MODULATION SYSTEM. RALPH V. L. HARTLEY, South Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Jan. 15, 1925. Serial No. 2,483. 20 Claims. (Cl. 179—171.)



19. A method of producing a single side-band carrier modulated wave which comprises generating a modulating frequency band, converting said band into two por-

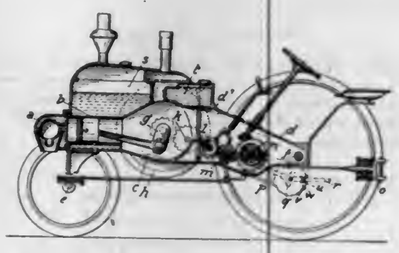
tions which have the same frequency characteristics but in which there is between the components of the same frequencies occurring in the respective portions, a phase difference which is the same for all components, and utilizing such portions.

1,666,207. METHOD OF AND MEANS FOR BURNING OIL. ARTHUR P. HOLDEN and PHILIP MORGAN, Toronto, Ontario, Canada. Filed Mar. 19, 1926. Serial No. 96,073. 6 Claims. (Cl. 158—4.)



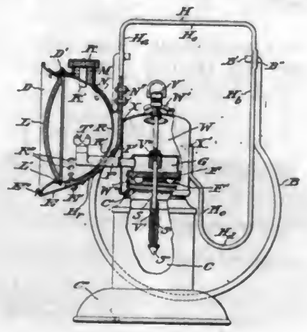
1. A method of burning oil consisting in directing a stream of atomized oil downwardly into a fire-box and igniting the same, and directing a concentrated stream of preheated air upwardly to meet and spread the downwardly directed flame laterally outward in all directions.

1,666,208. MOTOR VEHICLE WITH HORIZONTAL ENGINE. FRITZ HUBER, Mannheim, Germany, assignor to Heinrich Lanz Aktiengesellschaft, Mannheim, Germany, a Corporation of Germany. Filed Jan. 22, 1926. Serial No. 83,058, and in Germany Jan. 23, 1925. 4 Claims. (Cl. 180—54.)



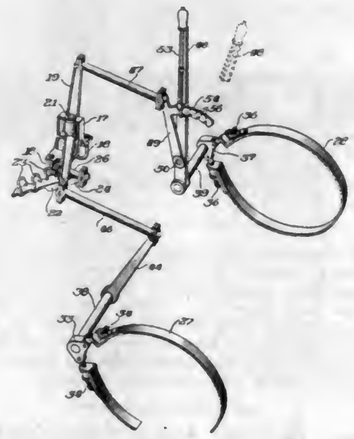
1. In a motor vehicle, the combination of a single casting comprising a horizontal internal combustion engine cylinder, a crank casing carrying the crank shaft, part of a cooling water container supported on said cylinder and crank casing, and part of a fuel container supported on said crank casing, said casting having a vertical rear surface, and a casing containing gear mechanism and crrying the rear axle, the vertical front of said gear casing being adapted to be detachably secured to the rear vertical end of said casting.

1,666,209. OUTDOOR LAMP. WILLIAM F. HUNT, New Brighton, N. Y., assignor to The Oxweld Railroad Service Company, a Corporation of Delaware. Filed June 30, 1924. Serial No. 723,382. 12 Claims. (Cl. 240—1.)



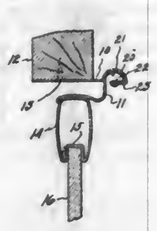
1. In a portable lamp, the combination of a case carrying lighting means at the front side thereof, a handle for said lamp secured to the front and rear sides of said case and having sections thereof spaced from the top and rear side of said case, and a bail connected to said handle and foldable down alongside said case.

1,666,210. TRACTOR STEERING MECHANISM. GEORGE C. JETT, Milwaukee, Wis., assignor of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Original application filed Sept. 27, 1922, Serial No. 590,848. Divided and this application filed Nov. 16, 1925. Serial No. 69,262. 7 Claims. (Cl. 180—9.2.)



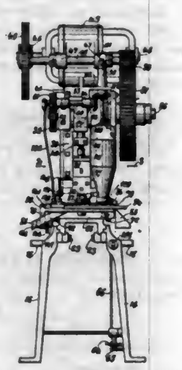
1. A steering mechanism for vehicles having differentially driven driving wheels comprising, a steering wheel, a single brake member for each driving wheel operatively connected to said steering wheel for selective operation whereby rotation of said steering wheel in one direction will apply one of said brakes and in the other direction the other of said brakes, and means independent of and adjacent said steering wheel for applying one of said brakes when said steering wheel is operated to apply the other whereby said brakes may be applied simultaneously.

1,666,211. WINDSHIELD HINGE. HOMER G. KELLOGG, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 22, 1926. Serial No. 96,045. 3 Claims. (Cl. 296—92.)



1. A hinge consisting of a pair of metal plates each having a bead adjacent one edge, and having said edge turned in, the bead and inturned edge of one of said plates being of such dimentions as to embrace the bead and inturned edge of the other of said plates and contact therewith substantially throughout when said hinge is in closed position, the outer inturned edge extending beyond and over the inner inturned edge.

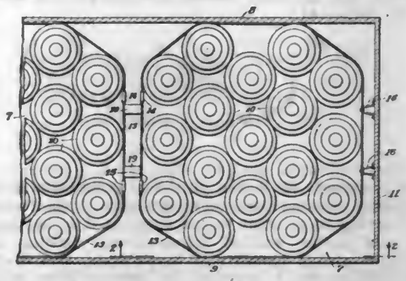
1,666,212. POWDER PRESS. WILLIAM G. KENDALL, Newark, N. J. Filed Dec. 4, 1925. Serial No. 73,172. 6 Claims. (Cl. 226—71.)



6. In a powder press the combination of a table having openings for the disposal of any powder that may be spilled thereon, a rotatable disc having openings for receptacles and for charges of powder for said receptacles pivoted to the upper face of said table, a charging hopper with its outlet located over said disc and in the path of the openings thereof, a scraper bearing on the upper face of the disc to scrape off powder spilled thereon, a reciprocating cross head guided in the press, pressing dies reciprocating with the cross head to simultaneously compress powder in the receptacles and means to eject the receptacles from the openings in said disc and from the press after the powder has been compressed in the receptacles.

1,666,213. METHOD OF LOADING FREIGHT CARS. JOHN W. LESLIE, Evanston, Ill., assignor to Consolidated Steel Strapping Company, Chicago, Ill., a Corporation of Delaware. Filed July 17, 1926. Serial No. 123,244. 10 Claims. (Cl. 105—369.)

1. The method of loading containers in a vehicle which consists in strapping a plurality of containers together so as to form a unit and providing buffer elements positioned so as to contact with said strap at a point

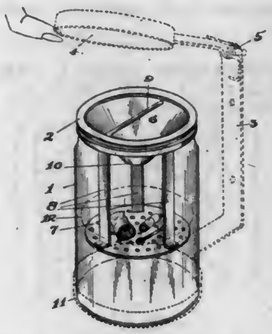


where the latter is free from the containers so as to take up the energy which may be imparted through movement of the containers in the vehicle.

1,666,214. METHOD OF COATING CORES. JOHN SHIRLEY LITTLE, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1926. Serial No. 102,714. 11 Claims. (Cl. 92—41.)

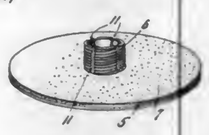
1. A method of coating a core in strand form consisting in subjecting the core to a liquid containing pulp in the presence of soap in such manner that pulp is applied thereto, and then forming the pulp around the core to constitute a coating conforming with the core and retained on the core by a felting of the pulp fibers.

1,666,215. SANITARY RECEPTACLE FOR CIGAR, CIGARETTE, AND MATCH STUBS. HENRY J. MILLER, San Francisco, Calif. Filed Dec. 16, 1922. Serial No. 607,387. 2 Claims. (Cl. 131—51.)



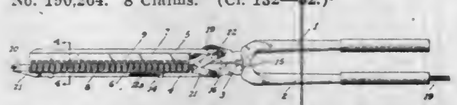
1. A sanitary receptacle for the reception of cigar, cigarette, and match stubs and the like, comprising a container adapted to contain a liquid, a removable receptor apertured at its upper end to receive the material to be collected and adapted to be inserted within said container, said receptor having a bottom portion spaced from said apertured top and provided with openings to permit the liquid content of the receptacle to pass therethrough, and spacing members disposed between the apertured top and the bottom portion of said receptor to openly space the latter from said container to permit the solid content of said receptor to be removed laterally therefrom after the receptor has been removed from said container.

1,666,216. SUPPORT FOR THREAD COPS. JAMES R. MOWAT, Kearny, N. J., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 1, 1926. Serial No. 138,820. 2 Claims. (Cl. 242—141.)



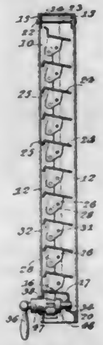
1. A support for a cop of thread comprising, a disk, a hollow bushing projecting upwardly from the disk and having an external thread adapting it to be screwed into the bottom end of the cop, said bushing being provided with a plurality of longitudinal slots dividing the bushing into a plurality of resilient walls adapted to press yieldingly against the inner surface of the cop, the front faces of the slots acting to cut a thread in the bottom of the cop as the bushing is screwed therein, and a pad of yielding material covering the upper surface of the disk and against which the bottom of the body of thread is adapted to press when the bushing is screwed fully into the bottom of the cop.

1,666,217. HAIR-WAVING IMPLEMENT. WILLIAM L. NANCOLAS, Modesto, Calif. Filed May 10, 1927. Serial No. 190,204. 8 Claims. (Cl. 132—32.)



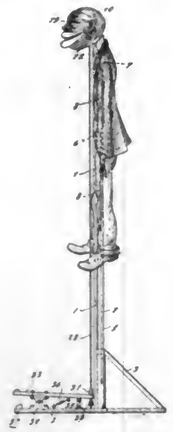
1. A hair-waving implement comprising opposed jaws between which the hair to be waved is placed transversely, heating means for the hair mounted in connection with one jaw, means for clamping the hair along one side of the jaws, means on the other side of the jaws preventing movement of the hair longitudinally of the implement while permitting free sliding movement of the hair transversely of the jaws, and means for drawing the hair lengthwise in the implement between the sides of the jaws.

1,666,218. VENTILATOR. ANDREW L. RIKER, Fairfield, Conn. Filed Oct. 1, 1925. Serial No. 59,891. 9 Claims. (Cl. 98—107.)



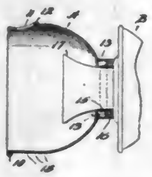
4. In a device of the character described, a frame plate and a louver having an ear pivoted on said plate, the plate including an annular flange, the ear having drawn metal entering the annular flange, and the frame plate having an inwardly set portion adjacent the louver pivot adapted to be situated contiguous with an end of said louver.

1,666,219. AMUSEMENT DEVICE. CHARLES ROBLES, Brooklyn, N. Y. Filed July 10, 1925. Serial No. 42,686. 29 Claims. (Cl. 46—40.)



5. In an amusement device, an upright vibratory standard, a figure characterization supported by said standard adjacent its upper part, a plurality of approximately taut flexible guy members connected at one end to the upper part of said standard, passing through portions of the figure, and anchored at their other ends, whereby when the standard receives its vibratory impulses the figure will shake in the portions through which the guy members pass, and means for imparting vibratory movement to said standard.

1,666,220. TELEPHONE MUFFLER. GEORGE W. SCHULTZ, Bowers, Pa. Filed May 24, 1927. Serial No. 193,756. 1 Claim. (Cl. 179—188.)

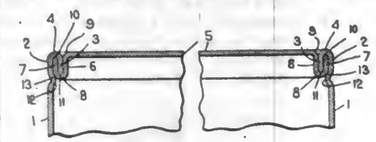


In combination with a telephone transmitter having a metal face and a hard rubber flaring mouthpiece screwed therein, a voice muffler consisting of a metal cup having a neck portion bent to form an annular shoulder in a plane perpendicular to the axis of the cup and a sleeve coaxial with said cup, and a soft rubber washer secured on said shoulder, so that when the threaded end of the transmitter mouthpiece is inserted through said sleeve and screwed up to its normal position said sleeve will be frictionally engaged with the conical surface of the mouthpiece and said washer will be pressed firmly against the metal face of the transmitter.

1,666,221. CONTAINER. HARRY SEBELL, Boston, Mass. Filed Jan. 29, 1924. Serial No. 689,228. 1 Claim. (Cl. 220—66.)

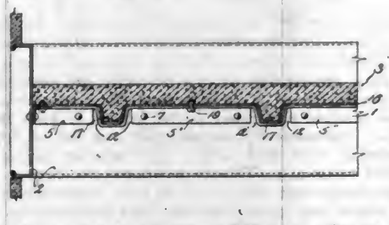
A metal container comprising a body having an opening therein and a closure removably retained in said opening and having a central portion and a rim comprising an inner flange and an outer flange uniformly spaced from each other throughout their extent but

connected to provide a recess in the closure to receive a sealing compound, said flanges being parallel and lying substantially perpendicular to said central portion, said body being formed with an annular bead which engages the closure and which is resilient laterally, the end of the body around the opening being turned over said outer flange into the space between said flanges to provide a recess in the body to receive a sealing compound and to press the outer flange between the body and said body



end, the body end being pressed between said flanges, whereby the closure is held in position closing the opening by the frictional engagement of the outer flange with the body and end thereof, and by the frictional engagement of the body end with the flanges and by the engagement of the bead with the closure, but the closure may be removed from the opening by pressing downwardly on the closure adjacent the inner flange to disengage the flanges from the container end and force the closure over said bead.

1,666,222. STAIR-LANDING CONSTRUCTION. ARTHUR L. SMITH, Melrose, Mass., assignor to The A. L. Smith Iron Works, Chelsea, Mass., a Corporation of Massachusetts. Filed July 9, 1926. Serial No. 121,354. 10 Claims. (Cl. 189—43.)



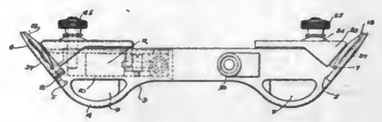
1. A structural support, comprising a continuous member having a stirrup element therein and another member in a plane at an angle to the first member and joined thereto along a common edge.

1,666,223. ELECTRIC-FIXTURE SUPPORT. WHITMAN SYMMES, San Francisco, Calif. Filed Oct. 23, 1922. Serial No. 596,322. 1 Claim. (Cl. 247—20.)



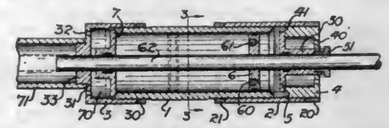
The combination with an outlet box having a plaster ring, of a bracket secured to the rear face of said box and disposed centrally within said box, an attaching plate secured to said bracket and provided with a plurality of screw threaded apertures, said plate and apertures being disposed eccentrically with respect to said box, a receptacle plate having a plurality of holes spaced substantially evenly from the center thereof and screws extending through the holes in the receptacle plate and engaging in the holes in the attaching plate.

1,666,224. HAIR CLIPPER. NESTOR N. TOMASULO, Philadelphia, Pa., assignor to Evelyn Julian, Philadelphia, Pa. Filed Sept. 30, 1925, Serial No. 59,744. Renewed Mar. 1, 1928. 16 Claims. (Cl. 30—1.)



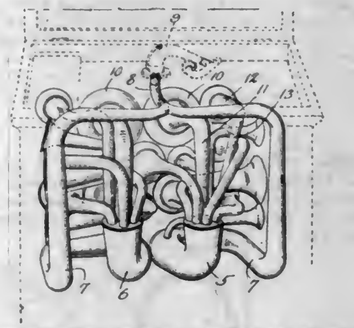
1. A power operated hair clipper comprising a casing, a clipper element at one end, means for operating said element and an air chamber below said operating mechanism.

1,666,225. CLUTCH-OPERATING DEVICE. FREDERICK K. WARD, Seattle, Wash. Filed May 5, 1927. Serial No. 188,925. 3 Claims. (Cl. 192—109.)



1. A dash pot attachment for spring-applied power transmitters, comprising a pneumatic cylinder and piston, one anchored and the other connected with the spring-actuated parts, a piston rod extending in both directions from the piston and a controlling valve at each end of the cylinder movable between open and closed positions by frictional engagement with the piston rod, said valve seating to be held closed by the air under the action of the piston when moving in the direction required for applying the power.

1,666,226. MUSICAL INSTRUMENT. EDWIN M. WEAVER, Reading, Pa. Filed Sept. 8, 1926. Serial No. 134,198. 1 Claim. (Cl. 181—27.)

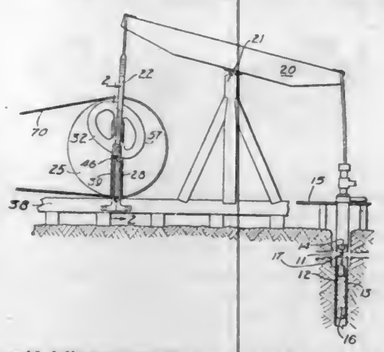


In a device of the character described, a pair of pipes merging into a substantially short pipe to be connected with a phonograph tone arm, said pipes having enlarged end portions defining sound tubes, plugs fitted in the ends of the tubes, said plugs having a plurality of openings, said openings being of various sizes, and horns fitted in the openings to receive sound waves from the sound tubes.

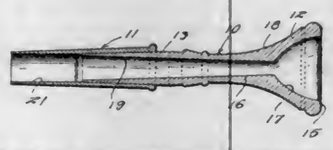
1,666,227. PUMP-OPERATING MECHANISM. EDGAR G. WILLRICH, Los Angeles, Calif. Filed Aug. 19, 1926. Serial No. 130,302. 4 Claims. (Cl. 74—14.)

1. In combination: a pump having a pump plunger; a string of sucker rods attached to said plunger; a walking beam, said string of sucker rods being attached to

said walking beam; a pitman joined to said walking beam; a band-wheel assembly, a cam connected to said band-wheel assembly; a follower connected to said pitman, said follower operating on a cam face of said cam; a vertical guide; and a slide associated with the lower end of said pitman, said slide operating in said vertical guide.

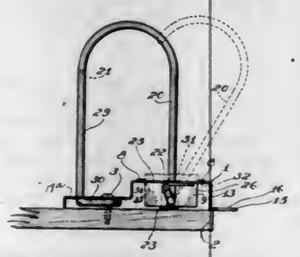


1,666,228. MOUTHPIECE FOR HORNS. WILLIAM WOLFE, Ebensburg, Pa. Filed Dec. 28, 1926. Serial No. 157,585. 1 Claim. (Cl. 84—398.)



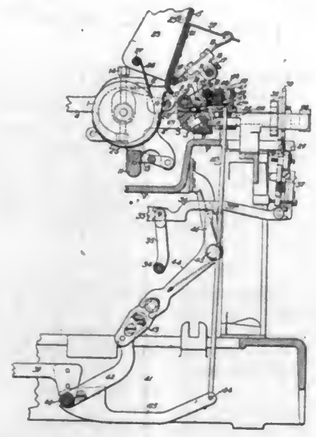
A pipe section for converting the type of instruments of analogous character consisting of a sleeve section having an exterior surface tapered longitudinally and provided with an internal bore having at one end a tapered surface, the taperings of the said surfaces being of the same pitch whereby a mouthpiece having exterior dimensions corresponding with the dimensions of the exterior surface of the sleeve may fit snugly within the tapered surface of the internal bore, and the other end of the interior bore having a cylindrical surface of the same diameter as the major diameter of the bore of the mouthpiece.

1,666,229. FILING DEVICE. ULYSSES S. ARMSTRONG, New Kensington, Pa., assignor to Armstrong & White, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1926. Serial No. 156,447. 3 Claims. (Cl. 129—11.)



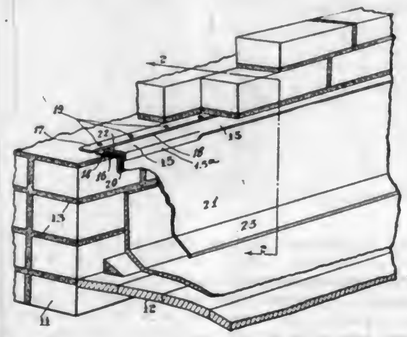
1. A filing device comprising in combination a base having a plurality of filing posts consisting of an integral member projecting upwardly from the base and rigidly secured thereto, a plurality of integrally formed retaining arms in cooperative alignment with said posts and pivotally mounted on said base, and an elongate spring borne by the base, the axial portion of said retaining arms being provided with an offset section bearing upon said spring and movable in a flat arc lying in the general plane of the longitudinal extent of said spring, whereby said spring frictionally resists the opening and closing movements of said retaining arms.

1,666,230. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed July 5, 1924. Serial No. 724,186. 39 Claims. (Cl. 197—176.)



1. In a typewriting or like machine, the combination of a carriage; and means for controlling the movement of the carriage comprising a feed pinion, a plurality of members independently movable into and out of holding engagement with said pinion, each member having one or more teeth and normally positioned to have a path of movement that will bring it into engagement with said pinion, and means whereby said members are successively and automatically disengaged from said pinion at given points in the travel of the carriage by co-operation with said pinion.

1,666,231. ROOF FLASHING. ARTHUR BLOXHAM, Montreal, Quebec, Canada. Filed May 23, 1925. Serial No. 32,368. 1 Claim. (Cl. 108—26.)



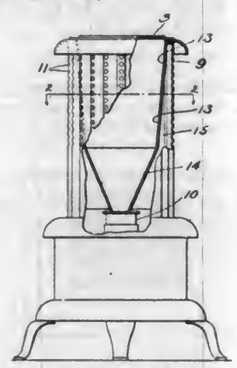
A flashing holder formed of a single sheet of material shaped to provide a U shaped guide having relatively long upper and lower legs spaced apart and adapted to project beyond the face of the wall in which the holder is embedded, said lower leg being folded upon itself to provide a double thickness of material, said folded portion being extended beyond the curve of the U in parallel relation thereto and being formed with a ridge located close to said curve, the two thicknesses of material forming the lower leg being bent to extend downwardly from a point located between the curve of the U and the terminal of the upper leg, a flashing arranged in contact with the outer surface of the inwardly extending portion of the lower leg and provided at its upper edge with a flange fitted in the space reserved between the two legs, the portion of the upper leg which normally projects outwardly beyond the downwardly bent portion of the lower leg being bent downwardly to clamp the flashing against the correspondingly bent portion of the lower leg.

1,666,232. METHOD OF MAKING MOSAICS. SIDNEY HOLLIS BOYNTON, Los Angeles, Calif. Filed July 16, 1927. Serial No. 206,251. 3 Claims. (Cl. 18—61.)



1. The method of making mosaic comprising filling a rubber matrix having a mosaic design with cementitious inlay material to provide inlays separated by joints, placing a cementitious foundation material against said inlay material so as to bond therewith, causing said cementitious materials to harden, removing said matrix, and filling the joints with pointing material.

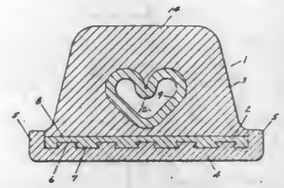
1,666,233. HEATER. JAMES H. CAMPBELL, Cambridge, Mass., assignor of one-half to James D. Moore, Boston, Mass. Filed Apr. 4, 1927. Serial No. 180,630. 4 Claims. (Cl. 126—93.)



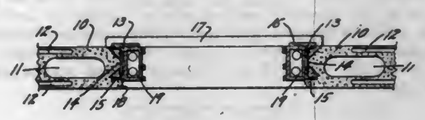
1. A heater of the class described comprising a burner, a vertical cylindrical drum housing the burner, said drum having openings in its side walls, and a deflector within and concentric with the drum, said deflector being of less diameter than the drum to provide an annular space between it and the drum, the deflector extending down from an imperforate top cover of the drum substantially to the top of the burner.

1,666,234. MANUFACTURE OF CUSHION-TIRED WHEELS. JULIEN F. CULLEN, Portland, Oreg. Filed June 26, 1923. Serial No. 647,822. 5 Claims. (Cl. 18—55.)

1. The process of making "solid" cushion tires which comprises only partially vulcanizing a resilient tubular core body sufficiently to retain a filler, incorporating a relatively non-compressible filler in said body, incorporating the body within a solid rubber body on a one piece metallic rim and enclosing the same within said body and the rim, vulcanizing the core and tire body to a point sufficient to create a unitary homogeneous structure with the core vulcanized to the wall of the solid rubber body and without destroying the resiliency of the core, and finally removing the filler.

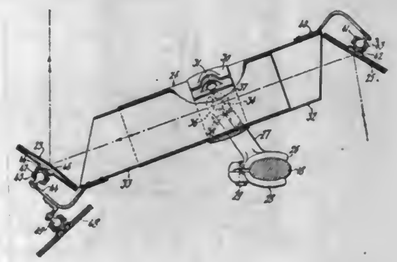


1,666,235. BUILDING CONSTRUCTION. FRITZ HUGO FRANSON, Denver, Colo. Filed Sept. 28, 1926. Serial No. 138,151. 5 Claims. (Cl. 72—98.)



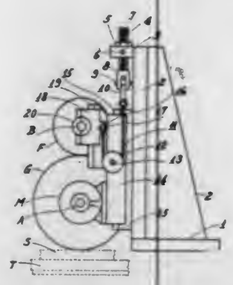
1. In a building having walls of cast material with window and door openings therethrough; angle frames surrounding said openings and forming corners therefor; and ties secured to said angle frames and extending within said walls.

1,666,236. SIGHT INSTRUMENT FOR AUTOMOBILES. SYDNEY W. FUERTH, Maplewood, N. J. Filed Jan. 19, 1927. Serial No. 162,003. 1 Claim. (Cl. 88—1.)



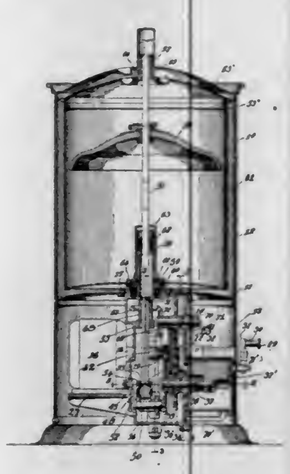
In a forward sight-instrument for automobiles, the combination of a barrel, said barrel open at both ends, parallel mirrors at the ends of the barrel, said mirrors cooperative to reflect back to the driver objects in front and to one side of the car, a clamp securing means securing said instrument to the side post of the automobile, said securing means including a bracket-arm having at one end a bracket-post clamp, and having at its outer end an annular clip, said barrel being held to said bracket by means of said clip, and a universal joint connecting said barrel to said bracket-arm or base.

1,666,237. AUTOMATICALLY-ADJUSTABLE GRINDING WHEEL. ALBERT M. FULLER, Pittsburgh, Pa. Filed Feb. 27, 1922. Serial No. 539,421. 16 Claims. (Cl. 51—166.)



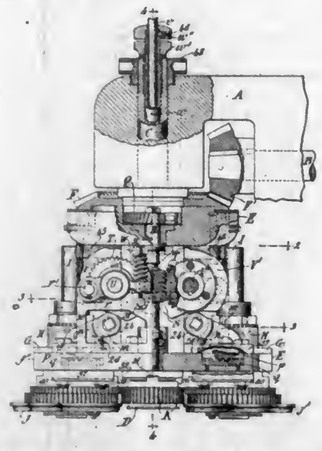
1. A grinding mechanism comprising a circular rotary abrasive member, a circular non-abrasive rotary follower member, having a common plane of rotation with the abrasive member and contacting tangentially at its periphery with the periphery of the abrasive member, the abrasive member being constantly urged towards the stock being ground and the follower towards the axis of the abrasive member, and a connection between the abrasive member and the follower member whereby travel of the abrasive member toward the stock is governed by travel of the follower toward the abrasive member.

1,666,238. WASHING MACHINE. ALEXANDER GRAYDON, Buffalo, N. Y. Filed Oct. 18, 1921, Serial No. 508,597. Renewed Feb. 5, 1924. 21 Claims. (Cl. 74—14.)



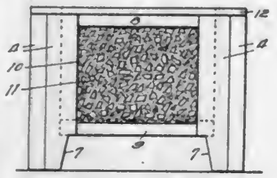
1. In a device of the class described, a rotatable and reciprocable shaft, a gear on said shaft, a gear case adapted to contain a lubricant enclosing a portion of the shaft, a removable cover on said case, a gearing adapted either to reciprocate or to rotate said shaft, means for driving said gearing, and controlling means for said gearing operable from the exterior of said casing, said gearing being mounted upon the said cover whereby the gearing may be assembled thereon before application of the cover to the case.

1,666,239. CAN-HEADING MACHINE. CHARLES GUERITEY, Passaic, N. J., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed Dec. 31, 1926. Serial No. 158,283. 28 Claims. (Cl. 113—24.)



1. A can-heading machine having a can-supporting mandrel and a seamer of complementary contour, adapted respectively to hold and seam a non-circular can, with means for positively producing a relatively rotary motion between the seamer and mandrel whereby the seamer contour is maintained in complementary relation to the non-circular contour of the can being seamed, and means for moving the seamer toward the mandrel to seam the can and away from it to clear the can, combined with means for maintaining the seamer always in a plane at right angles to the axis of the can and with its seaming surface in the plane of the seam.

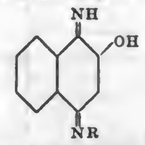
1,666,240. FLOWER AND PLANT BOX. BARNEY A. HUBERT, Pine Lawn, Mo. Filed June 15, 1925. Serial No. 37,039. 1 Claim. (Cl. 47—34.)



A flower and plant box comprising four side walls, a bottom member provided with a drain opening, a pair of supporting legs fixed to each corner of the box terminating at their lower ends in feet below the lower plane of the bottom member with the outer side faces of the legs and feet forming a vertically disposed V-shaped groove in plan view, which groove extends from the top face of the box to the lower face of each pair of feet, a filler strip receivable in each of the vertically disposed grooves and extending from the top face of the box to the lower face of the feet, a narrow marginal strip and a second narrow marginal strip fixed to each side wall between the supporting legs to provide a facial depression for each side wall, a mosaic panel disposed in each facial depression with its outer face substantially flush with the outer faces of the supporting legs, the marginal strips, and the second marginal strips; and facing strips covering the upper faces of the side walls, supporting legs, corner filler strips and the first-mentioned marginal strips.

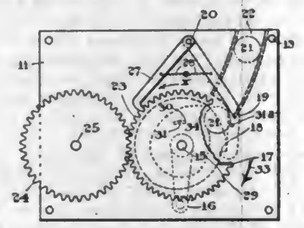
1,666,241. MANUFACTURE OF NEW DERIVATIVES OF NAPHTHOQUINONES. ROBERT LANTZ, Paris, and ANDRÉ WAHL, Enghien, France, assignors of one-half to Societe Anonyme des Matieres Colorantes & Produits Chimiques de Saint-Denis, Paris, France. Filed Jan. 21, 1926, Serial No. 82,878, and in France Jan. 21, 1925. 2 Claims. (Cl. 260—56.)

1. As new products, the derivatives of imino-1-hydroxy-2-naphthoquinone corresponding to the general formula:



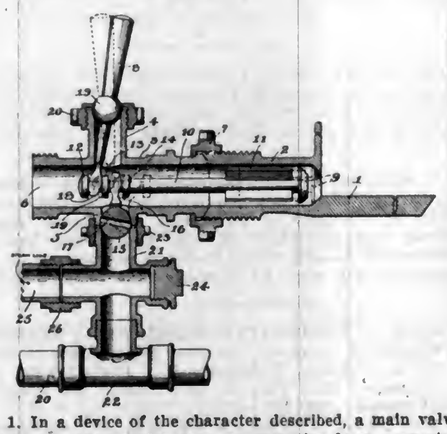
wherein R designates an aromatic radical.

1,666,242. COIN-CONTROLLED MECHANISM FOR USE WITH VENDING MACHINES. LYNN T. LEET, Montreal, Quebec, Canada. Filed Feb. 23, 1926. Serial No. 90,109. 4 Claims. (Cl. 194—63.)



1. Coin controlled mechanism comprising, a frame, a shaft rotatably mounted in the frame, a plurality of discs rotatably mounted on the shaft, a coin receiving pawl secured to the shaft to rotate therewith and positioned between the discs, means connecting the pawl to the discs to allow a predetermined free movement between them, a locking pawl engaging with notches formed in the discs to prevent movement of them in one direction and so positioned that it may be released by a coin held in the coin receiving pawl, and means to prevent rotation of the discs in the opposite direction.

1,666,243. DRIP VALVE. EDWARD MANNING, Rutland, Vt., assignor to Manning Manufacturing Company, Rutland, Vt. Filed Dec. 29, 1926. Serial No. 157,835. 2 Claims. (Cl. 277—10.)



1. In a device of the character described, a main valve having a casing and a stem, an operating lever connected with the stem for opening and closing the valve, a drip valve in the casing connected with the stem in such a manner that when the operating lever moves to open the main valve, the drip valve will close and vice versa, means for sterilizing the valve mechanism when the main valve is closed, and the drip valve is open.

1,666,244. ADJUSTABLE STRAIGHTEDGE. BERNARD E. MCLAUGHLIN, Melrose Park, Ill. Filed Dec. 28, 1926. Serial No. 157,505. 4 Claims. (Cl. 33—75.)



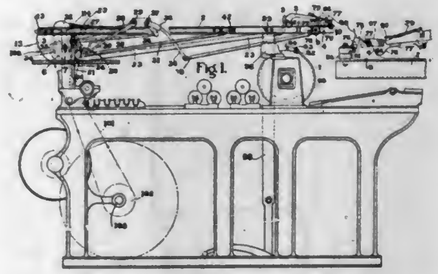
1. An adjustable straight edge comprising a body member, a flexible strip member, screw members rotatably journaled in the flexible strip member having engagement in the body member for axial movement therein upon rotation to adjust the strip member relative thereto, and a retaining member mounted on the edge of the strip member for retaining said strip member and the adjusting screw members in assembled relation.

1,666,245. PROCESS OF CLOSING CAVITIES IN TREES. ELBERT PEETS, Cleveland, Ohio. Filed July 15, 1925. Serial No. 43,715. 2 Claims. (Cl. 47—8.)



1. For cavities in trees, a closing curtain consisting of a plurality of plates supported by a means permitting the movement, relatively to the tree, of the edge portions of said plates adjacent to said tree.

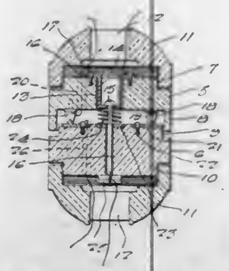
1,666,246. SHEET-DELIVERY APPARATUS FOR USE ON PRINTING MACHINES. ARTHUR WILLARD RANGER, London, England. Filed Jan. 5, 1927, Serial No. 159,197, and in Great Britain Jan. 8, 1926. 6 Claims. (Cl. 101—279.)



1. A sheet delivery apparatus for a printing machine comprising means including grippers for gripping a sheet and withdrawing it from the cylinder of the machine without making rubbing contact with any part, a support of the roller blind type adapted to unroll and to roll up below said sheet so as to receive and to relinquish it respectively without rubbing contact, and a reciprocatory endless tape carrier adapted to co-operate with said

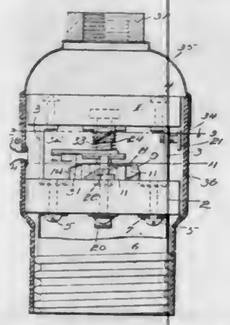
support, so that as said support rolls up and reliquishes the sheet the tapes of said carrier travel relatively to their rollers and are thereby extended beneath the sheet to receive it without rubbing contact between said sheet and the tapes of said carrier.

1,666,247. ELECTRIC CORD SWIVEL CONNECTER. CLARENCE SCHULDT, Des Plaines, Ill. Filed Mar. 27, 1925. Serial No. 18,725. 1 Claim. (Cl. 173—324.)



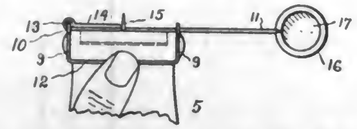
A device of the class described including a pair of blocks of non-conducting material, one of said blocks provided with a centrally located bore, an annular flange on one face, and a reduced externally threaded extension on the other face, a U-shaped conductor in the bore having its ends offset, screws extending through the offset ends into the said block, the intermediate portion of the conductor being apertured, a pair of brushes disposed on the face of the said block, the other block provided with a centrally disposed bore, a reduced extension on its inner face, and a reduced threaded extension on its outer face, a ring disposed on the inner face of the last mentioned block, screws for holding said ring in place, a washer disposed on the inner face of said last mentioned block, said brushes adapted to wipe over said ring, a bolt extending thruogh the aperture of the U-shaped conductor, through the bore of the second block, means for holding the bolt in place, a spring disposed between the washer and the intermediate portion of the U-shaped conductor and tensioned by said bolt, both of said blocks being provided with off-center openings, and a pair of caps threadedly engageable with the reduced extensions of the blocks.

1,666,248. THREE-WAY LAMP SOCKET. CLARENCE SCHULDT, Des Plaines, Ill. Filed July 22, 1925. Serial No. 45,340. 1 Claim. (Cl. 173—354.)



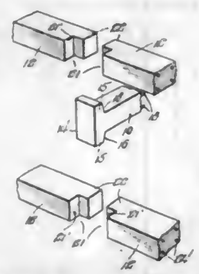
A circuit controlling and operating mechanism for three way lamp sockets, comprising a pair of insulating plates, means mounting said plates in spaced parallel relation, circularly arranged ratchet teeth formed on one plate, a pair of single contacts arranged on adjacent ratchet teeth, a double contact mounted on a pair of adjacent ratchet teeth in diametrically opposed relation to the first mentioned pair of ratchet teeth, said double contact being formed of a single strip of substantially semi-circular sheet material having the opposite end portions offset in spaced parallel relation to correspond with the offset of said adjacent ratchet teeth, and a manually operable switch having the central portion rotatably mounted between the plates and the ends adapted to engage one of the single contacts and one offset portion of said double contact in each position of rotation.

1,666,249. BOTTLE OPENER. FERDINAND H. SCHULTZ, Council Bluffs, Iowa. Filed Feb. 4, 1927. Serial No. 165,835. 1 Claim. (Cl. 65—47.)



A cap remover for use with disc caps seated in depressed ledges of the mouths of milk bottles and wherein the bottles have annular beads at the upper ends of their necks, comprising an anchoring frame curved to the configuration of one side of the neck and adapted to fit thereagainst beneath said bead, said frame comprising a length of wire having its oposite ends extending upwardly at substantially right angles to the intermediate part of the frame and rolled over to provide pivot eyes, a shaft member of wire extending through said eyes of the frame and having one end returned upon itself about the adjacent eye and extending along the shaft member to a point thereof intermediate said eyes, the returned extremity of said shaft having a curved tapering hook projecting spirally from one side of the shaft member and adapted to engage in an adjacent underlying portion of the disc cap whereby upon rotation of the shaft member said spirally positioned hook is adapted to engage in the cap and elevate the same from the depressed ledge in the bottle neck.

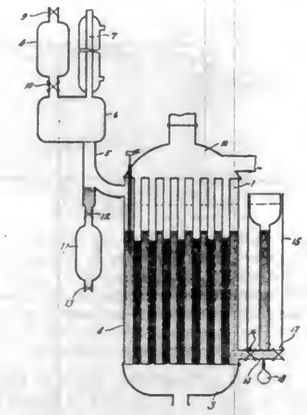
1,666,250. CRIBBING. EARL C. ALEXANDER, Chicago, Ill., assignor to Massey Concrete Products Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 23, 1925. Serial No. 32,249. 5 Claims. (Cl. 61—47.)



1. A cribbing structure comprising a plurality of headers having T-shaped ends and having flat sides, and a plurality of stretchers of rectangular shape lying transversely and alternately on said headers and having sufficient of the ends of said stretchers removed to form a complementary space for receiving said T-shaped ends.

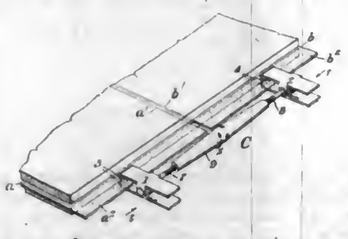
1,666,251. TEMPERATURE-REGULATING SYSTEM. CHESTER E. ANDREWS, Carnegie, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 19, 1927. Serial No. 169,572. 11 Claims. (Cl. 260—172.)

1. A method of varying the boiling point of two-phase, liquid-vapor temperature-regulating systems in which the liquid phase contains a plurality of components at least one of which is normally solid and which system includes reflux condensing means for the vapor phase, which com-



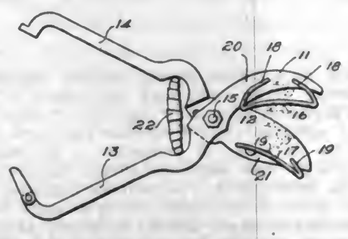
prises varying the composition of the reflux condensate before returning the latter to the main body of the liquid phase of the system.

1,666,252. METHOD OF SPLICE-LAMINATING GLASS. LOUIS BARTELSTONE, Flatbush, N. Y. Filed July 27, 1926. Serial No. 125,211. 4 Claims. (Cl. 49—81.)



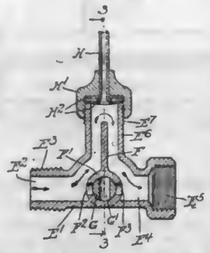
1. The method of splice-laminating glass which consists in forming an edge of each of two sheets of non-brittle material so that said edges are counter-parts; placing the counterpart edges in abutting contact; placing these abutted sheets between plates of glass; holding the abutted sheets against relative movement, and applying pressure upon the glass plates to effect cohesion between the glass and the two intervening sheets.

1,666,253. STEM-GRIPPING PRUNING SHEARS. FELIX H. BLINCOE, Long Beach, Calif., assignor of one-fourth to Glenn M. Peterson, Los Angeles, Calif. Filed Feb. 24, 1926. Serial No. 90,238. 3 Claims. (Cl. 30—24.)



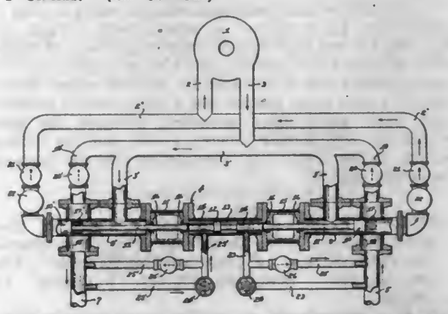
1. In a device of the general character described: a pair of shearing jaws pivotally connected; and cooperating movable members, spaced therefrom, for the gripping of a part cut off by the closing of said jaws, one of said gripping members being resiliently supported, from one of said shearing jaws, by insertion therethrough near the rear edge thereof, one of said jaws being provided with a gripping edge and neither of said jaws being adapted at any time to overlie the last mentioned jaw, although both of said gripping members are adapted to so overlie the other of said jaws at the completion of a closing movement as to hold the cut branch in a slightly inclined position relatively to said jaws, with its end braced against said abrupt edge.

1,666,254. GASOLINE RESERVE. HAROLD M. COOPER, Marshalltown, Iowa. Filed Jan. 8, 1926. Serial No. 80,108. 1 Claim. (Cl. 158—46.5.)



A reserve supply attachment for fuel tanks consisting of a casting having a straight tubular portion with open ends adapting it to be attached to the fuel line, and having also an intermediate vertical tubular portion disposed at right angles to the first-named tubular portion and connecting therewith intermediate its ends, a partition in the said intermediate tubular portion terminating short of the open end thereof, and forming a barrier to the fluid passage through the horizontal tubular portion, the portion of the partition in the horizontal tubular part of the attachment being formed into a hollow cylindrical enlargement shaped to constitute a valve seat, such enlargement having openings which are respectively beside the open ends of the horizontal portion of the attachment, a valve seated in said enlargement provided with a cross opening adapted to register with the openings through the valve seat and put them in communication with each other or to intercept such communication accordingly as the valve is adjusted and a vent tube connected with the open end of the vertical tubular part of the attachment the several passages through the casting and the valve being disposed opposite the open ends of the tubular parts for ready cleaning when the attachment is disconnected.

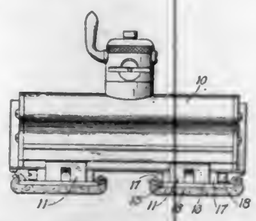
1,666,255. HYDRAULIC PUMPING POWER. WILLIAM G. COREY, San Francisco, and CHARLES A. TROW, Coalinga, Calif. Filed Mar. 29, 1926. Serial No. 98,119. 4 Claims. (Cl. 60—52.)



1. In an apparatus for the described purpose, means adapted to supply fluid under pressure; a fluid pressure actuated motor device comprising a cylinder and a plunger

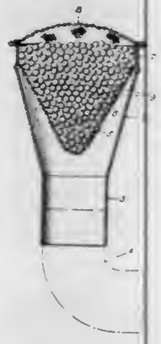
operable therein; a conduit connecting said device with said fluid supply means; a valve controlled by said device for cutting off its communication with said conduit; and means controlled by the rise in pressure of the fluid in said conduit caused by the closing of said valve for cutting off the supply of fluid from said supply means to said conduit.

1,666,256. RUBBING MACHINE. GUSTAF H. EKSTROM, Rockford, Ill., assignor to C. Paul Parker, trustee, Evanston, Ill. Filed June 11, 1923. Serial No. 644,565. 3 Claims. (Cl. 51—175.)



2. A rubbing machine having, in combination, a bearing slide, a downwardly displaced attaching portion on said slide, parallel downwardly extending projections on said portion, and two pad holders pivotally secured to said projections, said pad holders being mounted in parallel closely spaced relation on fixed pivotal axes extending in the direction of reciprocation.

1,666,257. EXHAUST SILENCER. WILLIAM HENRY GRAHAM FURNIVALL, DAVID BERTHA MCLAREN, and EDGAR JACOB LASCHINGER, Johannesburg, Transvaal, South Africa. Filed Sept. 17, 1925. Serial No. 56,830. 2 Claims. (Cl. 137—160.)



1. An exhaust silencer comprising a casing having an imperforate upper portion of substantially uniform section and a lower downwardly tapered portion and formed with an inlet at its smaller end, a cover screen above the upper portion and a downwardly tapered screen extending below said upper portion and a loose mass of hardened steel balls which when quiescent occupies the space within the downwardly tapered screen and the uniform section of the casing but incompletely fills the space between the screens.

1,666,258. REFRIGERATOR DOOR. EARL R. HAMMOND, Fremont, Nebr., assignor to Crystal Refrigerating Co., Fremont, Nebr., a Corporation of Nebraska. Filed Oct. 12, 1927. Serial No. 225,717. 9 Claims. (Cl. 20—35.)

2. In a refrigerator, the combination of a door casing provided with inner and outer metallic wall plates, a metallic edge facing plate, the metallic wall plates contiguous to the edge being spaced to afford a socket recess, an insulating compressible gasket socketed within said recess, and a door provided with inner and outer metallic wall plates and a metallic edge plate, the edge

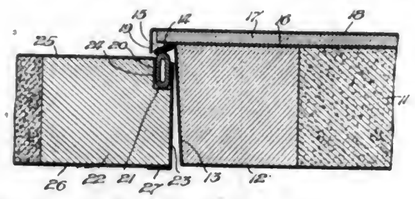
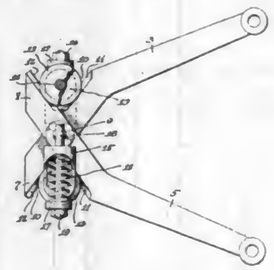


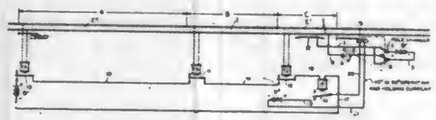
plate being shouldered to afford an abutment adapted to engage said gasket when the door is closed, and the door being provided with a metallic surfaced panel, a gap being provided between the surfacing of the panel and the metallic edge plate of the door, substantially as described.

1,666,259. SHOCK ABSORBER. OTTO A. KRENKE, Port Huron, Mich., assignor of one-half to Ernest L. Powers, Port Huron, Mich. Filed Feb. 7, 1927. Serial No. 166,416. 9 Claims. (Cl. 267—20.)



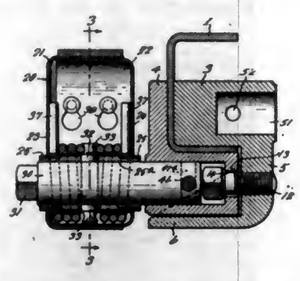
1. A shock absorber comprising pivotally connected members affording V-ways, anti-frictional bearings in said V-ways, and compound equalizers supported from said bearings and adapted to resist retraction of said V-ways by a pivotal movement of said members.

1,666,260. TRAIN-CONTROL SYSTEM. CLAUDE A. LYON, Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed May 5, 1926. Serial No. 106,818. 13 Claims. (Cl. 246—28.)



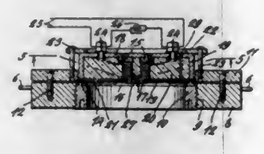
1. In a train control system, roadside apparatus for transmitting traffic controlling indications to vehicle carried apparatus, and track controlled circuits controlling the operation of said roadside apparatus for governing the character of indication to be transmitted thereby, said track controlled circuits including mechanism for producing one transmittable indication in said roadside apparatus for trains having a length less than a predetermined length and for producing another and different transmittable indication in said roadside apparatus for trains having a length exceeding the said predetermined length.

1,666,261. SHOCK ABSORBER. BONNIE L. MALLORY, Cleveland Heights, Ohio. Filed Jan. 11, 1926. Serial No. 80,495. 11 Claims. (Cl. 267—8.)



1. A shock absorbing device for use with two relatively movable members comprising a stud supported for rotary adjustment by one of said members, an elongated body journaled on the stud, a spring having a part anchored to the stud and a part co-acting with the body whereby the spring tends to rotate the body in one direction, a flexible element having one of its ends attached to the body and its opposite end fastened to the other of said members, said element exerting a pull upon the body in opposition to the spring, means for angularly adjusting the stud with respect to the member whereby it is carried, and means for locking the stud in any of a plurality of adjusted positions.

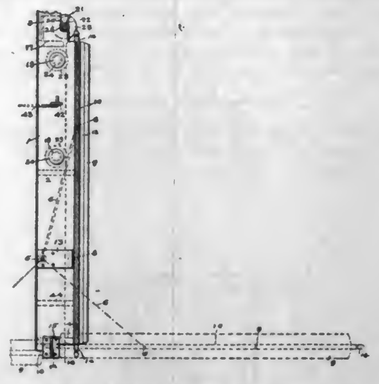
1,666,262. SOUND TRANSMITTER. HARRY A. MILLS and WILLIAM D. PYLE, Denver, Colo. Filed Jan. 26, 1927. Serial No. 163,638. 1 Claim. (Cl. 179—138.)



A transmitter for radio broadcasting comprising, in combination, a ring having its inner surface threaded, a clamping ring of substantially the same size as the first mentioned ring, a diaphragm having its outer edge located between the rings, means for forcing the rings towards each other so as to clamp the diaphragm, a third ring having its outer surface threaded and in co-operative engagement with the threaded surface of the first mentioned ring, a separator ring between the last mentioned ring and the diaphragm and means for preventing the separator ring from rotating with respect to the diaphragm whereby the latter will not be subjected to friction when the third ring is rotated.

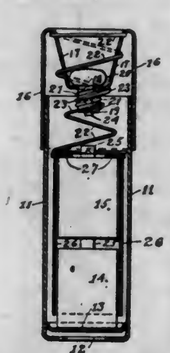
1,666,263. PORTABLE COMBINATION DESK. LEWIS E. MYERS, Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and Harold H. Rockwell, trustees. Filed Mar. 27, 1918, Serial No. 396,589. Renewed July 15, 1920. 3 Claims. (Cl. 45—51.)

1. In portable desks, a suitable frame having a plurality of notches formed in the sides thereof to accommodate roller extensions and having a scroll compartment near one end, a removable scroll carrying unit comprising top, bottom and end members, scroll rollers in said unit having a scroll mounted thereon, roller extensions terminating in knobs projecting outside the holder and beyond the edges of the frame, enlargements on such extensions for turning the rollers, a board pivoted to the frame adapted to cover the scroll unit to



protect the same, elastic means for holding the scroll unit in position in the frame, and separate means for holding the board in closed position.

1,666,264. FLASH LIGHT. HAROLD OLANETA, Brooklyn, N. Y. Filed May 23, 1927. Serial No. 193,547. 3 Claims. (Cl. 240—10.5.)



1. In a flashlight a casing, enclosing batteries and comprising an upper part and a lower part, a lamp, a threaded stem thereon, an opening in said upper part, for said stem to pass therethrough, and a spring, for separating said batteries from said stem, said spring having thereon one or more coils, to fit between the threads on said stem, thereby keeping said lamp in position.

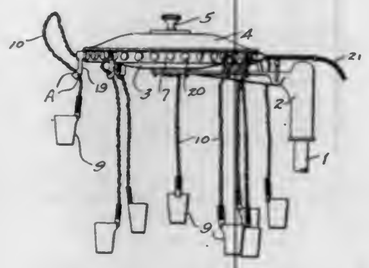
1,666,265. TONGUE-BLADE HOLDER. JOSEPH E. ROSENFELD, Battle Creek, Mich. Filed Apr. 23, 1927. Serial No. 186,028. 1 Claim. (Cl. 128—15.)



The combination with a flash light barrel, a battery carried in said barrel and a lamp deriving light from said battery carried by said barrel, of a portable split

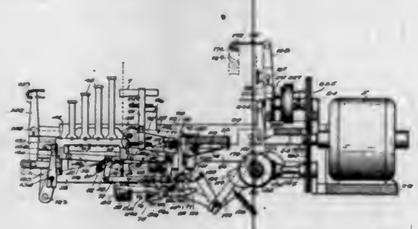
holding member carried by said barrel, said member having an elongated projection formed opposite its split portion and extending in substantially parallel alinement with said barrel, said extension having underly curved edges between said split portion and its outer end, a stop formed at the juncture of said split holding portion of said member and said extension, whereby a tongue blade may be held in an operable position.

1,666,266. HAIR-WAVING APPARATUS. WILLIAM G. SHELTON, St. Louis, Mo. Filed Feb. 9, 1928. Serial No. 253,018. 14 Claims. (Cl. 132—36.)



1. In a hair waving heating machine, a dome, a wired member within said dome, a plurality of electric terminals mounted on said member, a series of open-ended slots in said dome, lifts detachably seated in said slots, heater cords adjustably carried by said lifts and terminals on said cords for engaging said terminals on said member.

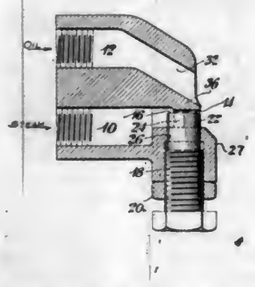
1,666,267. WRITING MACHINE. DANIEL W. SHIEK, Aurora, Ill., assignor to S. E. Miller, trustee, Aurora, Ill. Filed Apr. 24, 1925. Serial No. 25,524. 14 Claims. (Cl. 197—17.)



1. In apparatus of the kind described, a plurality of impression members, keys, spring-actuated mechanism controlled by said keys for actuating the impression members, power driven means for tensioning the springs of the spring-actuated mechanism, means independent of said spring-actuated mechanism and controlled by the keys for actuating said impression members, and means for rendering said spring-actuated means functionally inoperative.

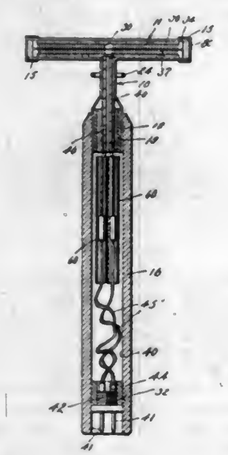
1,666,268. OIL BURNER. EDWARD SKILLMAN, Bartlesville, Okla., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed June 12, 1926. Serial No. 115,465. 7 Claims. (Cl. 299—141.)

1. A fuel oil burner comprising a body having a steam passage therein, the outlet of the passage being formed by two opposed parallel plane surfaces one of which is constituted by a screw adjustably mounted in the body, a fuel nozzle extending back and upwardly from said plane surfaces at an acute angle with respect thereto whereby fuel oil issuing from the fuel nozzle is received



at an acute angle on the sheet of steam issuing from between said plane surfaces, the bore of the fuel nozzle being circular in cross-section and the end thereof being formed on a slant which is substantially perpendicular to the plane surfaces of the steam outlet.

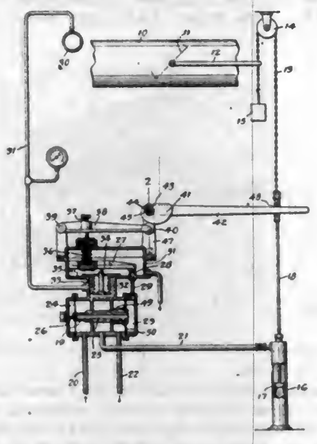
1,666,269. HAIR CURLER. LULAH M. SMIDT, Los Angeles, Calif. Filed July 29, 1924. Serial No. 728,852. 5 Claims. (Cl. 132—33.)



1. A hair curler comprising two sections arranged together to form a main part and a projection, a cap applied to the outer ends of the main part of the sections to hold them together, and a handle applied to the ends of the projecting parts of the sections to hold them together.

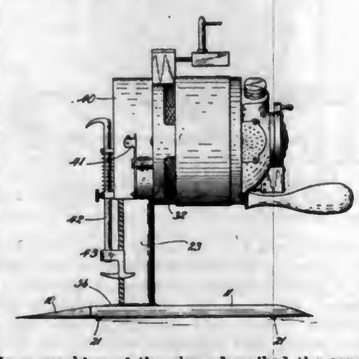
1,666,270. COMPENSATION FOR REGULATION. STEN ERIC BERNHARD SÖDERBERG, New York, N. Y., assignor to Arca Regulators, Inc., New York, N. Y., a Corporation of Virginia. Filed July 6, 1925. Serial No. 41,707. 10 Claims. (Cl. 137—78.)

1. In a liquid pressure operated regulator, in combination, a relay housing, means to discharge a stream of liquid into said housing, a baffling member to control said stream of liquid, means to move said baffling member, a main regulating member affected by changes of pressure in said stream of liquid and return motion mechanism in-



cluding a cam movable in response to movement of the regulating member, and means operated by said cam acting on said baffling member.

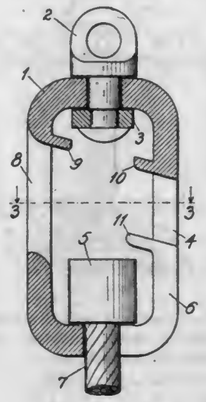
1,666,271. CUTTING MACHINE. ADOLPH SPIELMAN, Philadelphia, Pa. Filed Dec. 13, 1923. Serial No. 680,481. 10 Claims. (Cl. 164—74.)



1. In a machine of the class described the combination of a base plate, a channeled standard, a driving wheel and idlers operatively mounted above the standard, an idler of relatively large diameter the faces of which are disposed in a plane paralleling the base plate, an endless cutting band or chain having a continuous cutting edge adapted to pass down through the standard with its cutting edge exposed in vertical position, thence around the idler below the standard with its cutting edge in horizontal position and thence upward through standard with its cutting edge hidden and in vertical position and around said driving wheel and idlers above the standard with the cutting edge in horizontal position, and means for shifting the cutting band runs out of alignment.

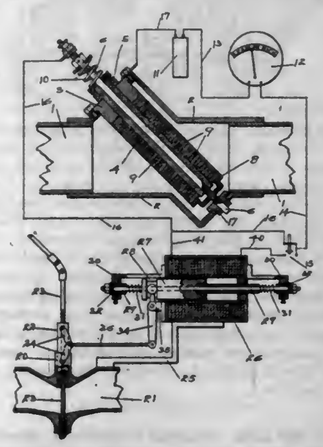
1,666,272. LOGGING HOOK. CHARLES WILLIAM SPIERING, Cathlamet, Wash., assignor of one-fourth to T. C. Black, Cathlamet, Wash. Filed Aug. 20, 1927. Serial No. 214,250. 3 Claims. (Cl. 24—128.)

1. A logging hook, comprising a tubular housing closed at the top and bottom, a swivel attached to the top of the housing, the bottom of the housing being adapted to hold the ferrule of the choker, a round hole in the side wall of the housing, an oblong hole in the side wall of the housing opposite the round hole, the upper edge of the oblong hole being higher than the upper edge of the



round hole, a ridge in the interior of the housing at the bottom of the round hole, and a slot in the housing, said slot extending from the bottom of the round hole, through the ridge to the bottom of the housing.

1,666,273. ELECTRIC TESTER. ARTHUR L. SMITH, Portland, Oreg. Filed June 28, 1926. Serial No. 119,072. 4 Claims. (Cl. 23—253.)

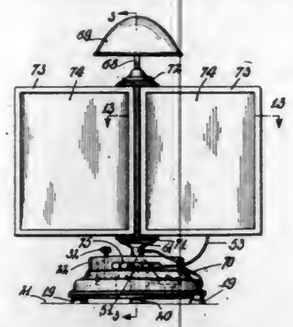


1. In an electrical tester: an electro-chemical analyzing unit mountable in the path of the products of combustion from a fuel burning device; an electrical recording instrument; and an electric circuit connecting said analyzing unit and said instrument.

1,666,274. AUTOMATIC ROTARY BOOK-DISPLAY DEVICE. MICHAEL V. VENTRELLA, New York, N. Y. Filed Apr. 18, 1927. Serial No. 184,591. 9 Claims. (Cl. 40—104.)

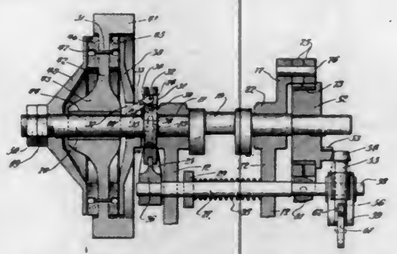
1. An advertising device, comprising a base with feet of such height so as to tilt backwardly, a cover therefor, a bracket adjustably secured on the cover, a projecting post, supported by the bracket, a top and bottom leaf holder on the post, leaves supported from the leaf hold-

ers, and due to the obliquely backward tilt of the base, and the post thereon, the leaves assume a position with the front two leaves substantially in a plane, and a leaf



turning device on the base and beneath the cover, and having a projecting finger adapted to turn the said leaves periodically in succession.

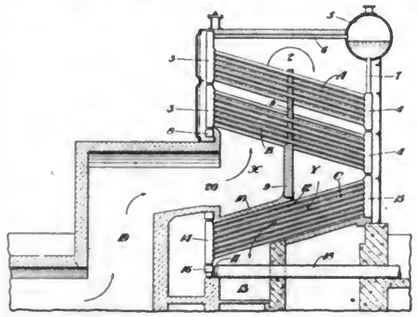
1,666,275. POWER PRESS. HARRY C. H. WALSH, Chicago, Ill. Filed Nov. 1, 1926. Serial No. 145,415. 11 Claims. (Cl. 192—144.)



4. In a machine of the class described, the combination of a cranked shaft, and a reciprocating head actuated thereby, a driving element freely mounted upon the shaft, a clutch element slidably mounted upon and rotatable with the shaft, a toggle mechanism adapted when actuated to bring the clutch element toward the driving element to effect a clutching relation therewith, a spring actuated thrust rod having engagement with the toggle mechanism and adapted when released to throw the toggle mechanism into clutching relation by spring pressure, a roller carried by the thrust rod, a disk carried by the shaft and provided on its rear face with a cam elevation adapted to engage said roller to retract the roller and the thrust rod to release the clutch, substantially as described.

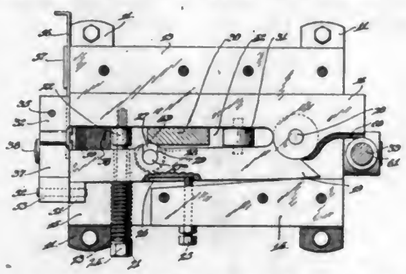
1,666,276. BOILER. GEORGE L. WELLER, Elyria, Ohio, assignor to National Tube Company, a Corporation of New Jersey. Filed Apr. 16, 1927. Serial No. 184,329. 1 Claim. (Cl. 122—7.)

A waste-heat boiler comprising a heating chamber, a plurality of banks of tubes inclined from front to back of said chamber, tube headers connecting the tubes of said banks at each end, an expansion and steam drum above said banks of tubes, means connecting said headers with said expansion and steam drum, a baffle wall extending vertically in said heating chamber intermediate the front and back walls of said chamber so as to divide said chamber into primary and secondary heating zones, an inlet for the waste-heat gases communicating with said primary heating zone, an outlet passageway for the waste-heat gases communicating with said secondary heating zone, a bank of tubes extending longitudinally of and inclined from back to front of said outlet passageway, tube headers connecting the rear ends of the tubes of said last bank and communicating with the tube headers connecting the rear ends of the tubes of said first named banks of tubes, other tube headers connecting the forward ends of the tubes of said last named bank of



tubes, a combined feedwater and blow-off drum communicating with all of the tube headers, connecting the forward ends of the tubes of said last named bank of tubes, and a stack line communicating with said outlet passageway below the forward end of said last bank of tubes.

1,666,277. WIRE-STRIPPING MACHINE. JESSEE MERCER WHITE, Philadelphia, Pa. Filed Aug. 6, 1927. Serial No. 211,048. 16 Claims. (Cl. 81—9.5.)



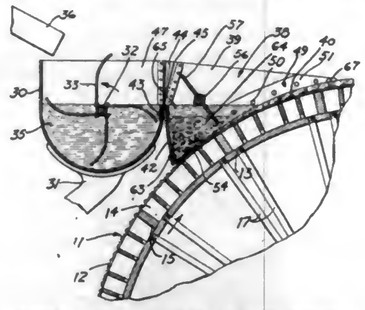
2. A stripping machine including a fixed gripping jaw, a rockable gripping jaw, means tending to hold said jaws together, a slidable stripping element, a swingable stripping element hinged to the slidable stripping element, means tending to move said elements toward each other, means for moving said elements relatively to the jaws, and means for opening the jaws and separating the stripping elements.

1,666,278. HOLLOW BRACING UNIT. HARRY WOODHEAD and CLINTON W. STOVER, Cleveland, Ohio. Filed July 28, 1926. Serial No. 125,395. 4 Claims. (Cl. 280—106.)



1. A tubular bracketed frame brace consisting of a section of drawn steel tubing upset at its end to provide a thickened tapered portion, flanges extending integrally therewith and outwardly from the thickened portion at an angle, the metal of the flanges being highly compressed and the metal at the edge of the thickened portion between the flanges being stronger than the metal of both the flanges and tube.

1,666,279. CAKE FORMER FOR CONTINUOUS ROTARY FILTERS. ROBERT O. BOYKIN, Los Angeles, Calif., assignor to N. Russell Vail, Los Angeles, Calif. Filed Mar. 3, 1926. Serial No. 91,967. 8 Claims. (Cl. 210—199.)



1. A vacuum filter comprising: a filter medium; means for moving said filter medium; a distributor for retaining a body of mixture above said filter medium, the lower part of said body of mixture contacting said filter medium; a reservoir for said mixture, by means of which said mixture is supplied to said distributor; and means for flexibly connecting said distributor to said reservoir.

1,666,280. MATTRESS. HENRY G. BRANDWEIN, Chicago, Ill. Filed Nov. 21, 1921. Serial No. 516,822. 3 Claims. (Cl. 5—356.)



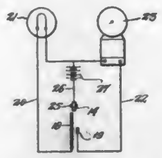
1. A mattress of the kind described, comprising a pair of superimposed sheets, filling material therebetween, and a narrow strip of material extending along the inner surface of one of said covers and adapted to contact with and be secured at spaced intervals to the inner surface of the other cover to form tufting therebetween.

1,666,281. MAIL BOX. AMBROSE E. DEIBERT, Seattle, Wash. Filed June 4, 1927. Serial No. 196,564. 3 Claims. (Cl. 200—57.)



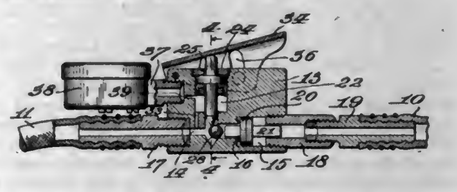
1. The combination with a mail box having a normally closed, spring pressed, outer door and a slotted inner door, and means for limiting the opening movement of the inner door, of a circuit maker within the box normally open when the outer door is closed, and means for closing the circuit maker when the outer door is opened.

1,666,282. PRESSURE-FLUCTUATING ALARM FOR MINES. RAY C. FAGAN, Spangler, Pa. Filed Oct. 29, 1924. Serial No. 746,657. 3 Claims. (Cl. 200—83.)



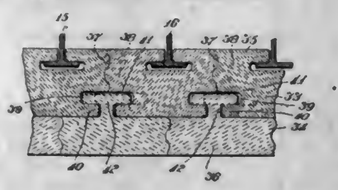
1. In a pressure-fluctuating alarm, a circuit closer comprising a pair of relatively long and short contacts disposed oppositely to each other and arranged so that the short contact is approximately midway the ends of the long contact, a switch arm pivotally mounted for reciprocation between the said contacts and having brushes adapted for engagement with the contacts when the said arm is moved inwardly between the contacts, and means for moving the switch arm inwardly between the said contacts.

1,666,283. COMBINED TIRE-INFLATING VALVE AND GAUGE. GEORGE E. FARLEY, Southgate, Calif., assignor to Service Equipment Co., Southgate, Calif., a Corporation of California. Filed June 23, 1925. Serial No. 39,014. 11 Claims. (Cl. 277—21.)



6. In a device of the class described, a valve body provided with a main fluid pressure duct in which is formed a valve seat, a valve normally resting on said seat and adapted to be maintained in such position by fluid pressure, said valve being provided with a stem, a manually operable plunger arranged for operation within said member, the inner end of which plunger projects into said main duct and a ball arranged for movement within said main duct between the inner end of said plunger and the adjacent end of the valve stem.

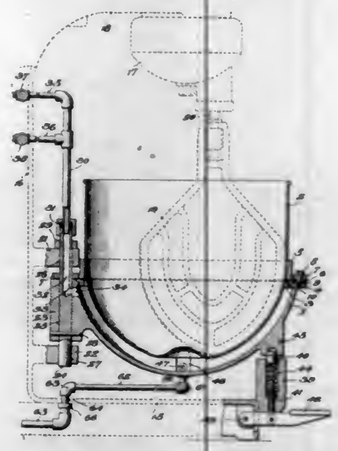
1,666,284. CONSTRUCTION OF FURNACE WALLS AND ARCHES. WILLIAM A. GILCHRIST, Chicago, Ill. Filed Feb. 20, 1920. Serial No. 360,190. 14 Claims. (Cl. 110—99.)



1. A furnace wall or roof comprising in combination, two layers of blocks of different character with respect to their heat insulating and refractory properties, the blocks of one layer being of heat insulating material and

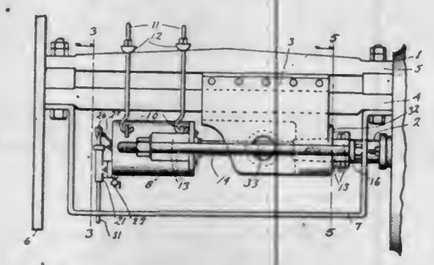
the blocks of the other layer being of refractory material and having portions interlockingly engaged with portions of said heat insulating blocks and being supported thereon and covering the same upon the inside of the furnace.

1,666,285. MIXING MACHINE. HERBERT H. HACKSTEDDE, Cincinnati, Ohio. Filed June 21, 1924. Serial No. 721,452. 9 Claims. (Cl. 257—108.)



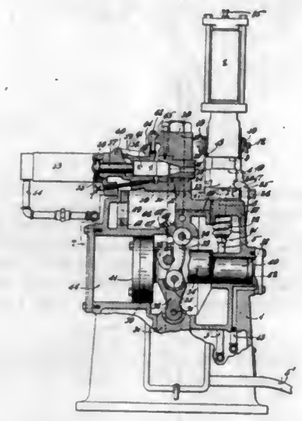
3. In a mixing machine, the combination with a base, a standard, and beater actuating means carried by the standard and overhanging the base, of a bowl-holder carried by the standard and mounted to swing upon a vertical axis, a bowl removably supported within the bowl-holder and spaced from the walls thereof, means for supplying a tempering fluid through the axis of movement of the bowl-holder to the space between the holder and the bowl, a drain pipe, and a pipe connection leading from the bowl-holder to the drain pipe and swiveled to the latter in alignment with the axis of movement of the bowl-holder.

1,666,286. PISTON KICKER. EVERET HOLLOWELL, Kansas City, Kans. Filed Feb. 15, 1926. Serial No. 88,395. 3 Claims. (Cl. 29—85.)



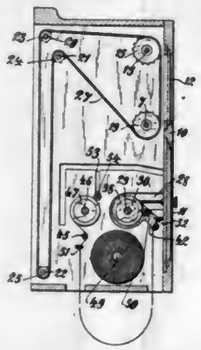
1. In a piston kicker for removing piston rods from the cross-heads of locomotives, a pair of supporting bars adapted to rest transversely upon the guide bar of a locomotive, a cylinder, a plunger in said cylinder, a plunger rod projecting from said plunger and said cylinder, a plurality of bolts detachably engageable with said cylinder whereby said cylinder can be suspended rearwardly of the cross-head from said supporting bars, said plunger rod adapted to bear against the piston rod when said cylinder is so suspended, a pair of clamp bars adapted to be positioned on opposite sides of the piston rod and bear against the front end of the cross-head adjacent the piston rod, bolts to connect said clamp bars and said cylinder, and a pump connected to said cylinder.

1,666,287. FORGING MACHINE. FRANK A. HALLECK, Oak Park, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 2, 1919. Serial No. 294,268. 25 Claims. (76—5.)



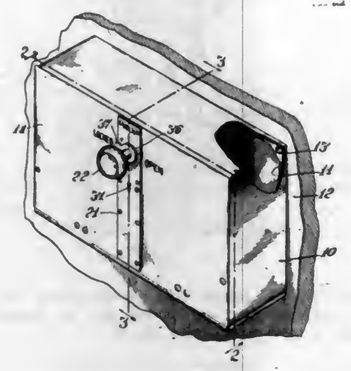
1. In a forging machine, a tool, a movable die operated thereby, an anvil die disposed in alinement with the path of movement of said other die, and means for normally insuring that the first mentioned die will take a given position with respect to the anvil die including means for exerting a force on said first mentioned die and means cooperating therewith for varying the force exerted by said force exerting means upon said first mentioned die.

1,666,288. COMBINED TOWEL SERVICE AND ADVERTISING DEVICE. CARL HELMRICH, New York, N. Y. Filed Feb. 1, 1926. Serial No. 85,243. 1 Claim. (Cl. 312—38.)



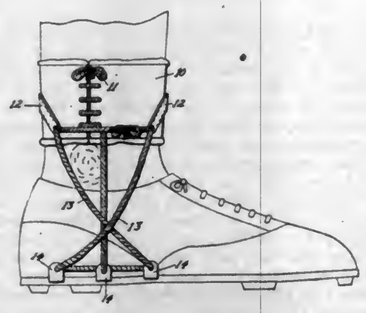
A towel service device, consisting in combination with a casing, of a pair of rollers, a roll of clean toweling adapted to engage one of said rollers, the other of said rollers receiving the soiled toweling, a plurality of guide rolls and bars in position to guide said toweling, a spindle journalled in the casing having a flattened end, a sliding crank mounted on said flattened end, a stop in the casing projecting into the path of said sliding crank, a spring pressed button in the front wall, and a rod attached to said button to abut against the head of said sliding crank to disengage the same from the path of said stop.

1,666,289. MILK-BOTTLE CONTAINER. TRYGVE IVERSEN, Chicago, Ill. Filed Aug. 16, 1926. Serial No. 129,331. 2 Claims. (232—41.)



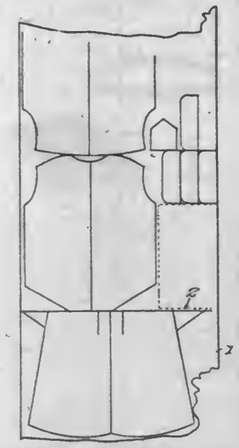
1. In a device of the type described, the combination of housing means adapted completely to enclose the contents and comprising a pivotally mounted door, a hooked member mounted on the body of said housing, a disk revolubly mounted on the door, hook means carried by the disk adapted upon a slight rotation when the door is closed to engage said hooked member, and locking means mounted on the door adapted upon continued rotation of the disk to lock the disk against reverse movement.

1,666,290. ANKLE BRACE. HARRY LEIGH JOHNSTON, Indianola, Iowa. Filed Oct. 29, 1926. Serial No. 144,963. 2 Claims. (Cl. 128—166.)



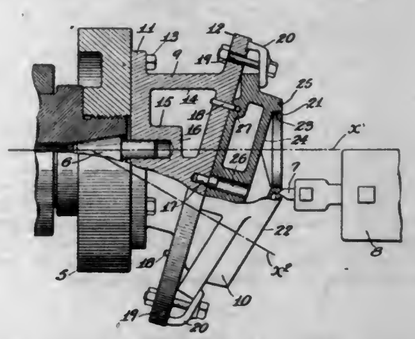
1. An improved ankle brace, comprising in combination a shoe, an ankle strap, means for adjustably securing it to a wearer's ankle above the ankle joint, and a limiting device attached to the ankle strap and to the sole of the shoe, and of such length that when properly adjusted to the wearer's foot it will permit of a limited lateral tilting movement of the shoe sole and will limit said lateral tilting movement in one direction when it has passed beyond a certain predetermined point, said limiting means being connected to the ankle strap and shoe in such positions that when it is properly adjusted to fit the wearer's foot it will not interfere with the up and down movement of the wearer's foot about the ankle joint.

1,666,291. SHIRT-MAKING SYSTEM. MORRIS L. KAPLAN, Hazleton, Pa. Filed May 18, 1927. Serial No. 191,180. 2 Claims. (Cl. 2—243.)



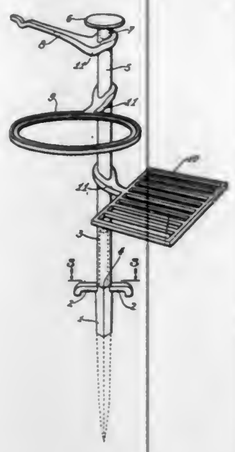
1. A system of shirt making comprising the steps of first laying out a pattern of the parts in a piece of material, then cutting out a blank section of the material, subjecting said blank section to a shrinking treatment, and finally laying out a pattern for the collar or the neck band of the shirt on said section.

1,666,292. WORK-PIECE-SUPPORTING FIXTURE FOR TURNING MACHINES. CARL H. KNUDSEN, Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del., a Corporation of Delaware. Filed June 19, 1924, Serial No. 720,942. Renewed July 1, 1927. 5 Claims. (Cl. 82—40.)



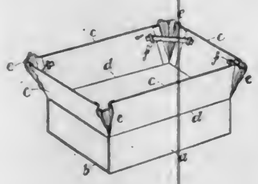
1. A fixture of the class described having faces angularly disposed with reference to each other, means on one of said faces for centering the fixture on the rotatable member of a turning machine, means for centering and alining a workpiece on the other face of said fixture whereby angularly disposed faces of said workpiece may be moved and retained in position in a plane at right angles to the axis of the rotatable member of the machine.

1,666,293. CAMP-FIRE OUTFIT. FRANK D. LORTON, St. Louis, Mo., assignor to Emil Nathan, trustee. Filed Nov. 22, 1921. Serial No. 517,030. 1 Claim. (Cl. 126—30.)



A campfire outfit, comprising, a supporting stake having a blade adapted to be forced into the ground, a pedal for forcing the same, and a fluted shank above said pedal and terminating in a shoulder, a standard fitting freely but snugly over said shank to be supported on said shoulder, and racks adjustably mounted on said standard.

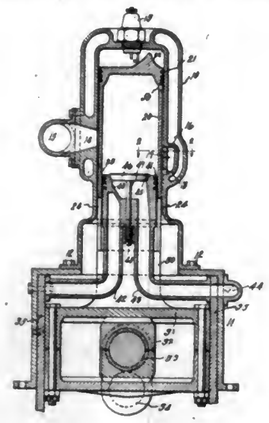
1,666,294. MATCH BOX, ASH TRAY, AND OTHER BOXES AND TRAYS. LELIA DOWNES-MARTIN, Christchurch, England. Filed Apr. 27, 1926. Serial No. 104,991, and in Great Britain Oct. 1, 1925. 4 Claims. (Cl. 229—6.)



1. A box comprising an outer casing, a tray or drawer adapted to fit inside the casing, and members hingeably affixed to the casing, the said members constituting a tray in the open position and adapted to be folded over the sides of the casing when not in use.

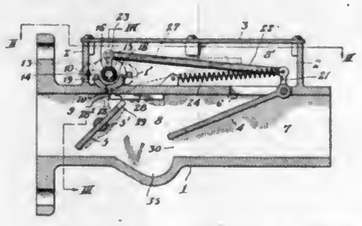
1,666,295. INTERNAL-COMBUSTION ENGINE. WARD W. MARVIN, Royal Oak, Mich. Filed Mar. 4, 1927. Serial No. 172,621. 1 Claim. (Cl. 123—74.)

In an internal combustion engine of the two-stroke cycle type, a cylinder having a piston reciprocable therein, a stationary piston head mounted within said piston and provided with an intake valve, supporting means for said head including an intake conduit, packing rings for said piston and for said head, a conduit connecting the interior of the piston above said head and the cylinder above said piston when the latter is in its lowest position, a forked skirt on said piston, a divided piston rod fixed to the piston and adapted to actuate a crankshaft, and means for compelling a rectilinear movement



of said rod and piston, said forked piston and divided piston rod providing an opening for the passage therethrough of said supporting means.

1,666,296. CARBURETOR. CLAYTON E. MONOSMITH and DAVID J. MONOSMITH, Spencer, and OLNEY B. MONOSMITH, Lorain, Ohio, assignors of one-fourth to George W. Saywell, Cleveland, Ohio. Filed Nov. 20, 1922. Serial No. 602,032. 14 Claims. (Cl. 261—50.)

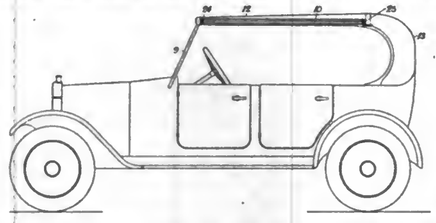


13. In carburetors, the combination of a casing formed at one end with a motor connection and at the other end with an airopening; a spring-loaded suction-actuated valve for said opening; a throttle valve; a port formed in the casing in the rear of said throttle valve; a concave boss formed exteriorly of the casing, said port intersecting said boss; an auxiliary casing forming a chamber communicating with the main casing through the said port and also communicating with the main casing adjacently behind said air valve; means forming a conduit adapted to communicate with a source of fuel supply and having a fuel port and a movable valve controlling said fuel port, said last-named valve permitting fuel discharge into said auxiliary chamber within said boss and adjacent said casing port; means connecting said air valve and said fuel valve to move the latter proportionately to the movements of the former; and means for regulating said proportion.

1,666,297. TOP FOR MOTOR VEHICLES. CLARENCE LONGTON NORMANDALE, Yeovil, England. Filed Sept. 28, 1925, Serial No. 59,049, and in Great Britain Nov. 5, 1924. 4 Claims. (Cl. 296—98.)

1. In a motor vehicle, a top structure having a rigid closed-in back portion and an opening in the upper portion, said top at its forward end being permanently

secured to and supported by the wind screen of the vehicle, roller blinds disposed longitudinally of the top adjacent said opening and adapted to be drawn inwardly



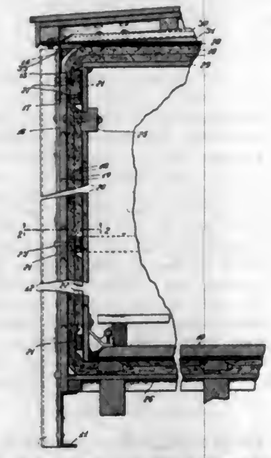
and transversely to close the opening, a housing for each blind, and automatic interlocking members carried by said blinds for maintaining them in closing position.

1,666,298. CURTAIN RING. ARTHUR J. NORRIS, Greenwich, Conn. Filed Jan. 26, 1927. Serial No. 163,647. 2 Claims. (Cl. 156—21.)



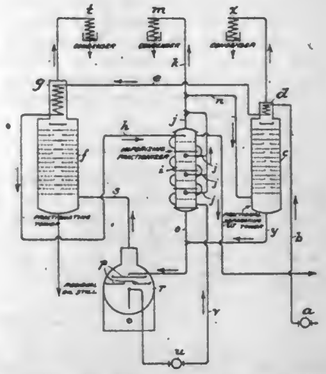
2. A curtain ring, comprising, a split ring having two extremities, one extremity having a flat portion bounded by an out-turned flange at one end, and a part of the ring at the other end, the other extremity forms a hollow bridge against the flat portion, a screw through the bridge projecting through the flat portion, a nut for the screw held fast by the out-turned flange and part of the ring.

1,666,299. CAR CONSTRUCTION. KARL F. NYSTROM, Chicago, Ill. Filed Apr. 19, 1924. Serial No. 707,570. 7 Claims. (Cl. 105—355.)



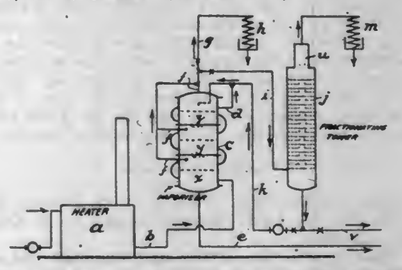
1. In a steel frame car provided with steel carlines, a blind ceiling and a main ceiling, spaced apart, and outer sheathing and inner sheathing spaced apart, insulating material disposed between the outer and inner sheathing, extending upward and continuing intermediate of the blind ceiling and the main ceiling, cleats suspended from the carlines, disposed beneath the insulating material and constituting nailing strips for the main ceiling, sub-posts and girths arranged between the insulating material and the inner sheathing, the sub-posts and girths being provided with bolt-head receiving sockets, bolts extending through to the car exterior for securing the sub-posts and girths in place, and a sealing medium for the heads of the bolts extending to the car exterior.

1,666,300. PROCESS AND APPARATUS FOR SEPARATING GASOLINE FROM CRUDE OIL. ARTHUR E. PEW Jr., Bryn Mawr, and HENRY THOMAS, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 23, 1924. Serial No. 694,471. 9 Claims. (Cl. 196—128.)



1. The process of vaporizing mineral oil which comprises heating mineral oil to a distilling temperature and flowing a stream of said hot oil within a still at successively higher elevations and dividing the hot oil flowing at each elevation into confined, multiple, spaced apart streams, flowing mineral oil to be vaporized into the upper part of the still and so disseminating it that it passes into heat exchange relation, but out of contact, with said first mentioned hot oil streams and distributes itself in thin films in heat exchange relation with successively lower oil streams and with progressively hotter multiple oil streams at successively lower elevations so as to produce an intensive heating action and progressive fractional vaporization as well as the substantially complete vaporization of fractions having boiling points below the progressively rising temperatures to which the downflowing distributed and disseminated oil is subjected.

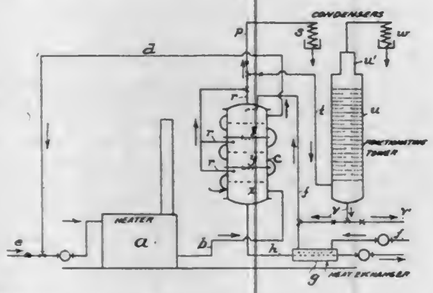
1,666,301. PROCESS AND APPARATUS FOR DISTILLING MINERAL OIL. ARTHUR E. PEW, Jr., Bryn Mawr, and HENRY THOMAS, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 23, 1924. Serial No. 694,472. 7 Claims. (Cl. 196—128.)



5. The process of vaporizing mineral oil which comprises heating oil to a temperature required to vaporize

the heaviest constituents that it is desired to vaporize, flowing a stream of such hot oil toward a vaporizing chamber, dividing said stream into a multitude of fine streams and flowing said streams in multiple in confined spaced-apart paths repeatedly through said vaporizing-chamber and at successively higher elevations, consolidating the multitude of fine streams after they flow through said vaporizing chamber at one elevation and before they flow through the vaporizing chamber at a higher elevation, and after the oil has so flowed through the vaporizing chamber at the highest elevation again consolidating the flowing oil and allowing it to flow downward through said vaporizing chamber and so disseminating it in its downward flow that it passes into heat-exchange relation, but out of contact, with said multiple hot oil streams and distributes itself in thin films in heat-exchange relation with successively hotter oil streams at successively lower elevations so as to produce an intensive heating action and progressive fractional vaporization and the substantially complete vaporization of fractions having boiling points below the progressively rising temperatures to which the downflowing distributed and disseminated oil is subjected.

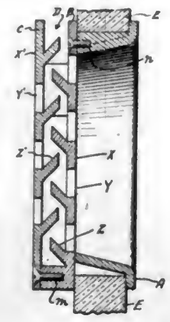
1,666,302. PROCESS AND APPARATUS FOR DISTILLING MINERAL OIL. ARTHUR E. PEW, Jr., Bryn Mawr, and HENRY THOMAS, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 23, 1924. Serial No. 694,473. 4 Claims. (Cl. 196—128.)



3. The process of vaporizing mineral oil which comprises heating a mineral oil to a distilling temperature of the oil to be vaporized and flowing a stream of said hot oil within a still at successively higher elevations and dividing the hot oil flowing at each elevation into confined, multiple, spaced apart streams, flowing an independent stream of mineral oil to be vaporized into the upper part of the still and so disseminating it that it passes into heat exchange relation, but out of contact with said hot oil streams and distributes itself in thin films in heat exchange relation with successively lower oil streams and with progressively hotter multiple oil streams at successively lower elevations so as to produce an intensive heating action and progressive fractional vaporization as well as the substantially complete vaporization of fractions having boiling points below the progressively rising temperatures to which the downflowing distributed and disseminated oil is subjected, and reheating the cooled oil of the first stream after it flows out of heat exchange relation with the oil of the second stream and recirculating it as hereinbefore specified.

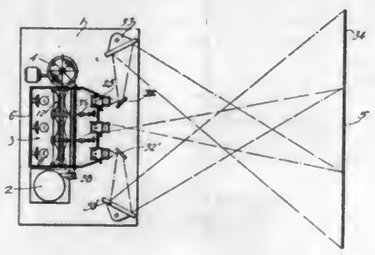
1,666,303. AMPLIFIER. JOSEPH PLATT, Detroit, Mich. Filed Feb. 17, 1926. Serial No. 88,871. 2 Claims. (Cl. 89—36.)

1. In a construction of the kind described, the combination of two sets of shields in parallel, and spaced relation, each set of shields consisting of individual shields arranged parallel to each other and inclined to the plane of the set with a space between adjacent



shields, the sets being so arranged with reference to each other that a shield in one set shall cover a space in the other set.

1,666,304. PROJECTING MACHINE. BARTON A. PROCTOR, New York, N. Y., assignor, by mesne assignments, to News Projection Corporation, New York, N. Y., a Corporation of New York. Filed July 31, 1924. Serial No. 729,308. 9 Claims. (Cl. 88—24.)

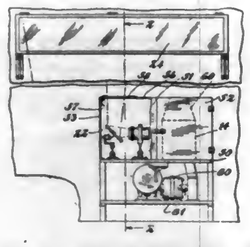


9. The combination with a ticker tape having printed thereon a single row of successive configurations, of a plurality of adjacent light apertures disposed to the rear of said tape so that the light rays from said apertures will simultaneously be projected through successive adjacent portions of the tape and project images of the printed matter formed on said tape, a lens for each light aperture to receive the images projected from its light aperture, a screen for receiving the images of the printed matter so projected, and means for preventing the superimposition upon said screen of any image upon another image including reflecting means for intercepting the images projected from some of said lenses and directing them onto said screen to reproduce the printed matter on said tape in its original order of printing.

1,666,305. NEWS-PROJECTION MACHINE. BARTON A. PROCTOR, New York, N. Y., assignor to News Projection Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1926. Serial No. 82,295. 23 Claims. (Cl. 88—24.)

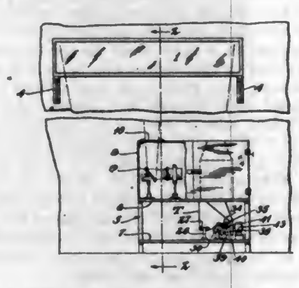
1. In a news projection machine, the combination with a stock ticker or the like, having tape printing mechanism and means for delivering the printed tape, of a light tight box supported directly below the printing

mechanism and to one side of the ticker, said box having a window in one side past which the tape moves, an opening in the side remote from the ticker, a condensing



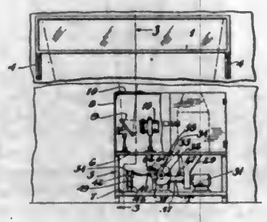
lens adjacent the window, a second condensing lens in said opening, and a mirror to reflect light from one lens to the other, so as to illuminate the tape.

1,666,306. TENSION CONTROL FOR TICKER TAPE. BARTON A. PROCTOR, New York, N. Y., assignor to News Projection Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1926. Serial No. 90,982. 17 Claims. (Cl. 88—24.)



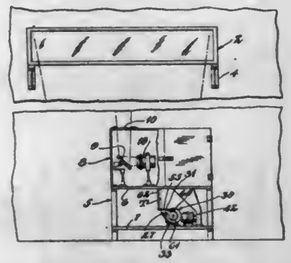
16. In a news projecting machine, the combination with a printing mechanism for printing news items on tape and the like, of a projecting mechanism, means for feeding the tape through the projecting mechanism, an abutment located between the projecting mechanism and the printing mechanism, and a finger for pressing the tape into engagement with said abutment and functioning to dissipate the jump transmitted to the tape by the printing mechanism before the tape reaches the projecting mechanism.

1,666,307. JUMP-ABSORBING MECHANISM. BARTON A. PROCTOR, New York, N. Y., assignor to News Projection Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1926. Serial No. 91,458. 10 Claims. (Cl. 88—24.)



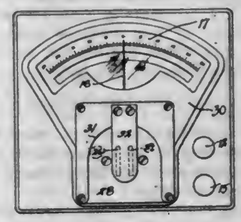
1. The combination with a printing mechanism for printing news items on a tape, of a projecting mechanism for projecting images of the items printed on the tape, means for imparting a feeding impulse to the tape after a given printing impression, a rewinding roll for winding up the tape after same has been projected, means for imparting a rotation to the said roll, means for stopping the rotation of said roll normally out of stopping position when the tape is slack and actuatable into stopping position by the tape when the tape becomes taut, and means for absorbing the jump transmitted to the tape by the starting and stopping of the rewind roll to prevent transmitting the jump to the portion of the tape located in the projecting mechanism.

1,666,308. MECHANISM FOR CONTROLLING THE TENSION OF TICKER TAPE. BARTON A. PROCTOR, New York, N. Y., assignor to News Projection Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 4, 1926. Serial No. 92,226. 13 Claims. (Cl. 88—24.)



1. The combination with a tape, of a projecting mechanism having a vertically extending projecting position, a printing mechanism for printing news items on said tape and feeding the tape forward in a vertical direction across said projecting position when printing, a lever having one end resting on said tape between said printing mechanism and said projecting position to form a loop in the tape when the tape is being fed, a rewind roll for drawing the tape past said projecting position and for winding up the tape as it is being fed and taking up the slack in said tape to raise said lever when the printing mechanism is at rest, a driving friction member, a driven friction member secured to said rewind roll and facing said driving member to be engaged thereby, a second lever cooperating with said rewind roll, and a link connecting said second lever with said first lever, said first lever being actuatable by said tape when the slack is taken up in said tape to actuate said link in turn to actuate said second lever to anchor said rewind roll against actuation with said motor.

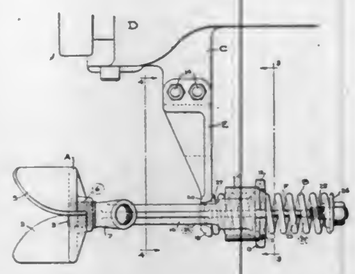
1,666,309. MAGNOMETER. JOHN N. RAY, Newark, N. J., assignor, by mesne assignments, to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed Nov. 26, 1924. Serial No. 752,431. 2 Claims. (Cl. 175—183.)



1. An apparatus for determining the magnetic properties of electromagnetic sound reproducing devices comprising a substantially horizontal test board, a guide for

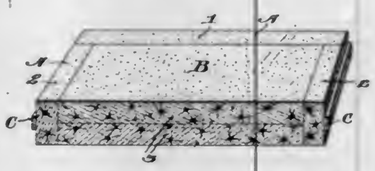
positioning an electromagnetic sound reproducing device with respect to said test board, a pair of pole pieces projecting upwardly into said test board and extending below said test board on opposite sides of a rotatable armature, an indicator carried by said armature and arranged to swing over a graduated scale, and means whereby an electromagnetic sound reproducing device when positioned on said test board in said guide may be caused to furnish magnetic flux for moving said armature and driving said indicator over said scale through distances proportional to the magnetic strength of said electromagnetic sound reproducing device.

1,666,310. AUTOMATIC TRAIN-PIPE COUPLING. JOSEPH ROBINSON, New York, N. Y. Filed Nov. 24, 1920, Serial No. 426,176. Renewed May 2, 1925. 13 Claims. (Cl. 285—58.)



1. In an automatic train pipe coupling, the combination with a coupling head and a supporting bracket therefor, of a spring for extending the head, and means to permit limited longitudinal movement of said head toward and from the bracket without movement of the spring.

1,666,311. INSULATING UNIT FOR DEADENING VIBRATION AND SOUND. SIEGFRIED ROSENZWEIG, New York, N. Y. Filed Aug. 25, 1923. Serial No. 52,393. 5 Claims. (Cl. 20—4.)

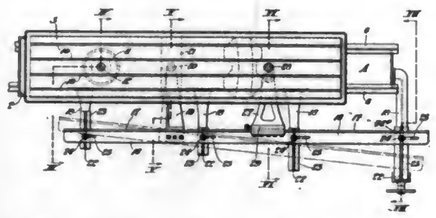


1. An insulating unit for preventing transmission of vibration and sound to buildings and the like, comprising a load carrying frame consisting of a plurality of cork strips, and a central sound deadening portion consisting of a plurality of horizontally disposed slabs of sound deadening material of less combined thickness than the height of the cork strips constituting the frame, and a clamping band surrounding the frame.

1,666,312. METALLURGICAL BRIQUETTE AND PROCESS OF USING IT. WILLIAM B. RUNYAN, Dayton, Ohio. Filed Mar. 31, 1921. Serial No. 457,567. 3 Claims. (Cl. 75—27.)

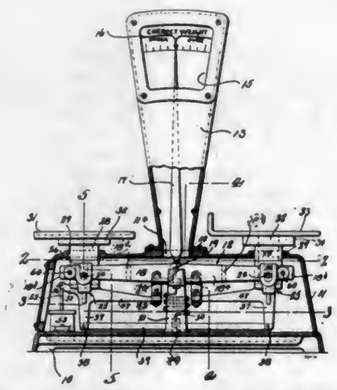
1. A briquette free from an admixture of metallic ore comprising ground coke, a silicon sand and lime, the sand and lime being present in about equal parts and in sufficient quantities to hold the carbonaceous matter together.

1,666,313. GRINDING MACHINE. OTTO SANN, Johnstown, Pa. Filed Mar. 28, 1925. Serial No. 19,005. 1 Claim. (Cl. 51—96.)



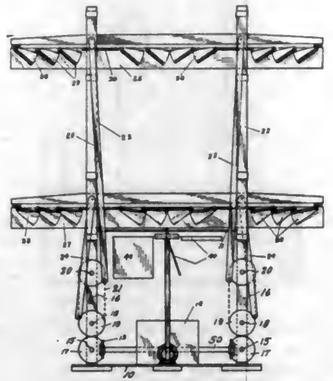
In a machine for cutting curved or arcuate grooves or paths in a work-piece, a stationary base member, a bed slidably mounted on said base and adapted to be reciprocated longitudinally thereof, a work supporting table mounted on said bed, said table being pivotally connected to said bed adjacent one end and slidably supported on said bed adjacent the other end whereby said table may be swung about said pivot transversely of said bed, a tool mounted above said table, a guide rail extending along one side of and longitudinally of said bed and arranged at an angle to the longitudinal axis of said bed, a bracket arm for supporting said guide rail, said bracket arm having one end fixedly secured to said guide rail intermediate its ends and having its other end pivotally mounted on a fixed pivot pin whose center line intersects the longitudinal center line or axis of said bed, means for moving said rail about said pivotal mounting of said bracket arm, means for locking said rail in adjusted positions, and a guide arm mounted to travel along said rail, said arm being pivotally connected to said table at a point spaced from the slidably supported end of the table a distance equal to the distance the pivotal mounting of the table is from the opposite end of the table, whereby said table will be swung transversely of said bed as said bed and table are reciprocated longitudinally so as to cause the tool to cut an arcuate path in the work-piece carried by said table.

1,666,314. EVEN-BALANCE-INDICATING SCALE. HARRY C. SCHAPER, St. Louis, Mo., assignor, by mesne assignments, to Schaper Scale Company, a Company of Missouri. Filed Feb. 28, 1926. Serial No. 90,049. 24 Claims. (Cl. 265—58.)



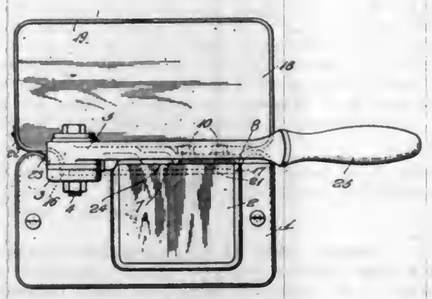
1. An even-balance scale comprising a scale beam, platform supports carried by said beam, a pivotally suspended lever operatively connected to said platform supports, a weight indicating member extending from said lever, and a resisting element anchored at one end and having its opposite end secured to said lever for controlling the movement of said weight indicating member to indicate a predetermined amount of over and under weight.

1,666,315. HELICOPTER. HENRY A. SHUMAN, Fairbury, Nebr. Filed Nov. 16, 1925. Serial No. 69,400. 3 Claims. (Cl. 244—11.)



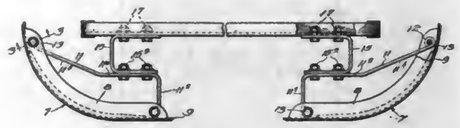
3. In a helicopter, a plane mounted for reciprocatory movement in vertical directions, and a plurality of slat valves pivotally secured to said plane and normally inclined thereto when they are in their opening position, some of said valves being angularly adjustable so that all of said valves may be parallel with each other or so that some of said valves may be oppositely inclined with reference to the others of said valves.

1,666,316. DENTAL APPARATUS. MANLEY A. SPARKS, Atlanta, Ga. Filed Apr. 9, 1927. Serial No. 182,495. 5 Claims. (Cl. 32—5.)



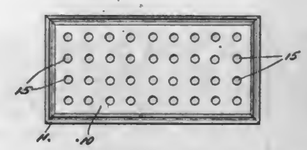
1. Dental apparatus comprising a plaster trimmer having a supporting body portion, a tray arranged to be brought adjacent the supporting body portion of said plaster trimmer, and means for interlocking said tray with the supporting body portion of said plaster trimmer, said means comprising a pair of upstanding lugs arranged to engage one side of the supporting body portion of said plaster trimmer, and spring means for forcing said lugs into engagement with the supporting body portion of said plaster trimmer.

1,666,317. BUMPER DEVICE FOR VEHICLES. HERBERT W. TINKER, Milwaukee, Wis., assignor to Federal Pressed Steel Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 17, 1926. Serial No. 102,805. 3 Claims. (Cl. 293—55.)



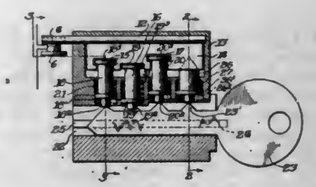
1. An impact member comprising a channel bar of arcuate form, a flexible strap member having its opposite ends pivotally connected to the said bar adjacent to the ends thereof, and means for securing said strap member to a frame.

1,666,318. BUILDING ELEMENT. FREDERICK M. VENZIE, Philadelphia, Pa. Filed July 7, 1923. Serial No. 650,018. 1 Claim. (Cl. 72—37.)



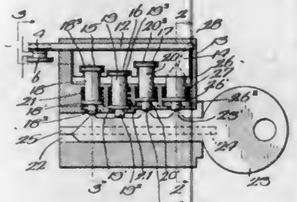
A thin, rectangular slab for building purposes having a flat inner dished upper surface, said dished part being marginally bevelled, and the outer surface of said slab being bevelled in an opposite direction with the two bevelled parts coming together to form a sharp marginal edge, the flat upper surface of said slab being provided with a plurality of shallow depressions having inclined walls so arranged that the diameter of said depresalons increase as they near the slab centre.

1,666,319. LOCK. FELIX J. WATTS, Bronson, Mich., assignor to Harry A. Douglas, Bronson, Mich. Filed Mar. 7, 1927. Serial No. 173,584. 4 Claims. (Cl. 70—47.)



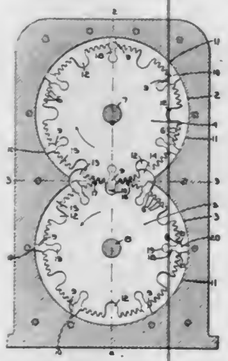
1. The combination with a motion communicating bar; of a key operated detent constrained to one position to prevent effective movement of the bar and adjustable to another position to free the bar of its restraining influence; a second key operated detent constrained to one position to permit effective movement of the bar and adjustable to another position to prevent effective movement of the bar; a member in moving relation with the bar when the bar is free of said detents; and a key receiving element with which said detents and member are assembled.

1,666,320. LOCK-CONTROLLED ELECTRIC SWITCH. FELIX J. WATTS, Bronson, Mich., assignor to Harry A. Douglas, Bronson, Mich. Filed Aug. 3, 1927. Serial No. 210,337. 6 Claims. (Cl. 200—44.)



1. The combination with a motion communicating bar; of an electric switch controlled by said bar; a detent constrained to one position to prevent effective movement of the bar and adjustable to another position to free the bar of its restraining influence; a member in moving relation with the bar when the bar is free of the detent; a key receiving element with which said detent and member are assembled; and a key having a ward formation adapted to engage and move said detent to free it from the bar and to engage and then operate the bar actuating member.

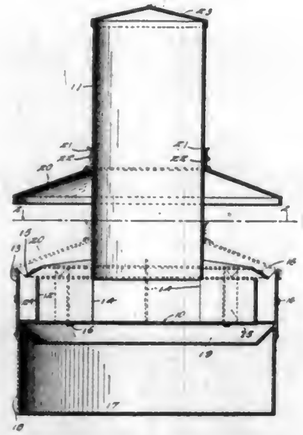
1,666,321. ROTARY MOTOR OR PUMP. ARTHUR W. WEEDEN, Quincy, Mass., assignor of three-fifths to Ella May Freeman, Quincy, Mass. Filed Feb. 16, 1927. Serial No. 168,523. 2 Claims. (Cl. 103—126.)



1. In a device of the class described, the combination with a casing having a plurality of circular chambers communicating with each other and also having inlet and outlet ports leading to said chambers, a rotor in each chamber, each rotor having gear teeth thereon which mesh with gear teeth on the other rotor, said gear teeth forming the sole driving connection between the rotors, each rotor also having blades extending peripherally therefrom beyond the gear teeth and engaging the walls of the corresponding chamber and also having recesses to freely receive the blades of the other rotor, each blade occupying the space of a single gear tooth only, whereby several of the gear teeth will be in mesh in all positions of the rotors.

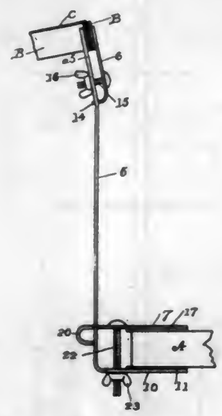
1,666,322. POULTRY FEEDER. ELMER S. WEST, Maysville, Ky. Filed Mar. 8, 1927. Serial No. 173,713. 5 Claims. (Cl. 119—52.)

1. In a poultry feeder, the combination with a structure including a hopper, a pan into which the hopper discharges, a wall surrounding the outer pan wall in spaced relation thereto, of a collecting base supporting said structure and with which the space between said wall and the pan wall communicates and means upon said wall deflecting material passing downwardly through



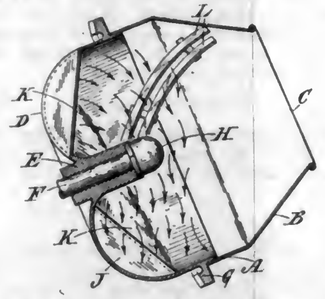
said space toward the center of the collecting base, the collecting base telescopically interiorly engaging said wall, said means likewise constituting a stop limiting downward movement of the wall upon the base.

1,666,323. EMBROIDERY-HOOP HOLDER. CLARENCE D. BALDWIN, Bellingham, Wash. Filed Aug. 3, 1927. Serial No. 210,283. 2 Claims. (Cl. 45—24.)



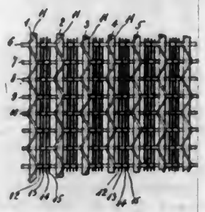
1. A clamping device of the kind described consisting of a frame member having a vertical longitudinal slot therein, a rearwardly extending jaw rigidly fastened to the lower end of said frame member, a loose jaw the forward end of which is downwardly folded forming a loop having transverse notches in the edges thereof rearwardly of said loop with a bridge between the bottoms of said notches engaged with said frame member in said slot said notches engaging said frame member whereby the lower end of said loop bears on the front of said frame member when said loose jaw is parallel with said fixed jaw behind said frame member and is vertically movable through parallel positions in said frame member slot, and a clamping bolt extended through align holes in said jaws.

1,666,324. ROTARY MIXING MACHINE. JOHN FAULDER BURN, London, and JOHN STUART LANCASTER, Warwick, England. Filed Mar. 24, 1927, Serial No. 178,060, and in Great Britain Sept. 28, 1926. 11 Claims. (Cl. 88—73.)



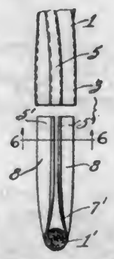
1. In a mixing machine, a rotary mixing receptacle or drum having a frusto-conical termination presenting at one end an opening of reduced diameter and closed at the other end by a basin-like base, the latter having a boss at its centre forming a bearing on which the drum may rotate, the interior of the base essentially being in the form of an inclined track and with a step to connect the high and low ends of the same for the purpose specified.

1,666,325. WOVEN ELASTIC FABRIC. LESTER B. CHISHOLM, Melrose, Mass., assignor to Everlastik, Inc., Chelsea, Mass., a Corporation of Massachusetts. Filed May 15, 1926. Serial No. 109,285. 3 Claims. (Cl. 139—421.)



1. In a woven elastic fabric, the combination comprising elastic warp strands, picks, and binder warp threads woven through the picks in the space between the elastic strands, said binder warp threads being sufficiently hard twisted to kink and automatically curl with lateral displacement away from the elastic strands when the elastic strands are contracted to an amount permitted by the drawing together of the picks.

1,666,326. LIGHTNING ROD. CHARLES D. DALLAS, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 490,052. 1 Claim. (Cl. 173—31.)



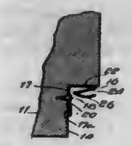
Means for connecting a transverse conductor to the open end of a longitudinally, spirally ribbed lighting rod, comprising a strap bent upon itself to encircle the conductor, each end of said strap having a rib extending longitudinally, centrally thereof, and the adjacent edges of said ends cooperating to form longitudinal ribs, whereby the ends may be compressed for insertion into the rod with the ribs on the strap ends mating with the ribs on the rod.

1,666,327. WEATHER STRIP. WILLIAM J. DENNIS, Chicago, Ill. Original application filed Apr. 11, 1924, Serial No. 705,834. Divided and this application filed June 18, 1925. Serial No. 37,988. 1 Claim. (Cl. 20—69.)



A weather strip formed of a substantially flat metal strip having one edge bent over to lie on one face thereof, the other edge bent over to form an intermediate portion having one edge lying flat against that face of the main strip onto which the first edge is folded, an outer yieldable leaf portion formed by bending the outer edge of the intermediate portion back along and away from itself, and the extreme outer edge being slightly curved away from the main strip to form a convex bearing surface.

1,666,328. WEATHER STRIP. WILLIAM J. DENNIS, Chicago, Ill. Filed Feb. 23, 1926. Serial No. 90,192. 1 Claim. (Cl. 20—69.)

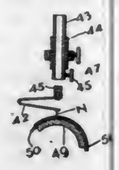


A weather strip comprising right angularly disposed leaf portions, one of said leaf portions having its outer longitudinal edge folded back upon itself toward the other leaf portion, spaced flanges formed integral with the outer longitudinal edge of the other leaf, said flanges being disposed at an angle relative to the second leaf and each other and at an acute angle to the first leaf portion, and a longitudinal arcuate portion formed in the outermost flange.

1,666,329. RECEIVING PAPER AND RECEIVING SOLUTION FOR TELAUTOGRAPHY. MARVIN FERREE, New York, N. Y., and JOSEPH WIESMAR, Cleveland, Ohio, assignors, by mesne assignments, to Telepix Corporation of America, a Corporation of New York. Filed Jan. 31, 1925, Serial No. 5,956. Renewed Sept. 21, 1927. 1 Claim. (Cl. 178—5.)

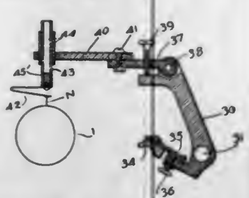
In an apparatus for electrically receiving pictures, the combination of a conductive support adapted to be directly associated with a recording needle, an absorbent pad connected to said support and having the receiving

paper located thereon, said pad and said receiving paper both containing a conductive solution adapted to be decomposed under the action of an electric current,



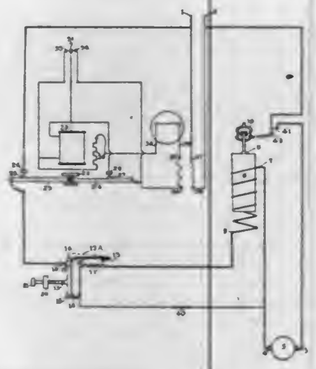
so that any current which passes from said needle to said drum passes through both said receiving paper and said pad.

1,666,330. NEEDLE HOLDER FOR TELAUTOGRAPHIC APPARATUS. MARVIN FERREE, New York, N. Y., and JOSEPH WISSMAR, Cleveland, Ohio, assignors, by direct and mesne assignments, to Telepix Corporation of America, a Corporation of New York. Filed Jan. 31, 1925, Serial No. 5,957. Renewed Sept. 21, 1927. 2 Claims. (Cl. 178—5.)



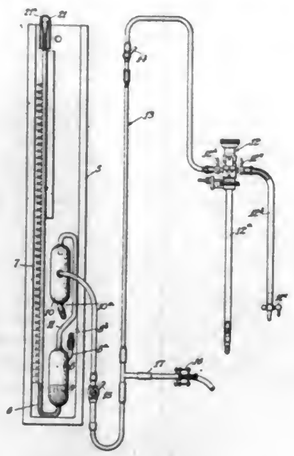
1. In an apparatus for transmitting pictures by a series of electrical pulses, a drum adapted to carry chemical paper or the like, a needle mounted upon an angular blade spring arranged substantially perpendicular to the axis of the drum, and adjustable means for immovably holding the outer end of the said blade spring with respect to said drum, said adjustable means being movable in a direction towards and away from said drum.

1,666,331. ELECTRICAL SAFETY CONTROL CIRCUIT FOR AUTOMATIC BURNER EQUIPMENT. FRANK FISCHER, Larchmont, N. Y., and ARNOLD FRANCIS VAN PELT, Interlaken, N. J., assignors to Grant Oil Burner Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 27, 1925. Serial No. 52,946. 4 Claims. (Cl. 158—28.)



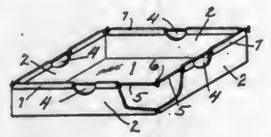
1. In an electrical control circuit for burners having gas ignition pilots, a fuel-supply motor, a heat-requiring conductor, the conductor being located adjacent to the pilot so as to be heated and thereby rendered conductive by the pilot when the pilot is ignited, the conductor being connected in series with the motor so that the motor cannot start when the pilot is not ignited, the conductor being so proportioned as to be heated by current passing through it and thereby maintained in a conductive state independently of the pilot when the motor and conductor are energized so that the motor will continue to run if the pilot goes out while the motor and conductor are energized.

1,666,332. BLADDER-PRESSURE-TESTING APPARATUS. EDWIN W. HIRSCH, Chicago, Ill. Filed May 23, 1927. Serial No. 193,399. 12 Claims. (Cl. 73—31.)



1. Apparatus for testing the pressure of the human bladder comprising means adapted to be projected into the bladder to permit the flow of urine therefrom, a pressure gauge, a measuring fluid in said gauge having a specific gravity approximating the specific gravity of the urine, conduit means between said first named means and said gauge adapted to receive the urine, variable controls carried by said conduit means, and a pressure chamber in said conduit means between said gauge and first named means for stabilizing and uniformly delivering the pressure exerted by the flowing urine to said pressure gauge and for preventing the passage of the urine into said gauge.

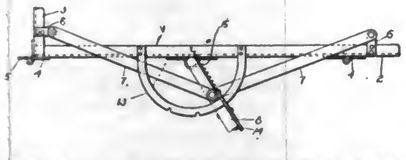
1,666,333. COLLAPSIBLE TRAY FOR EGG CRATES. NAOKICHI ISOYAMA, Los Angeles, Calif. Filed Aug. 11, 1926. Serial No. 128,546. 3 Claims. (Cl. 229—30.)



1. The collapsible tray set forth comprising a rectangular bottom plate, flaps hinged to the edges of said plate and adapted to be brought into upright position to form four sides of a tray, and wires extending along the edges of the flaps and fastened to said edges and projecting beyond the ends of the flaps and forming hooks

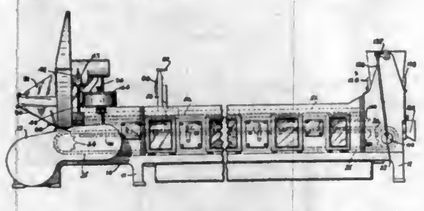
for engagement with each other to hold the flaps in upright position, and adapted to be unhooked to allow the flaps to be flattened down into the plane of the bottom plate.

1,666,334. SCRAPER. CHARLES LARSON, Chicago, Ill. Filed Mar. 23, 1927. Serial No. 177,618. 5 Claims. (Cl. 37—53.)



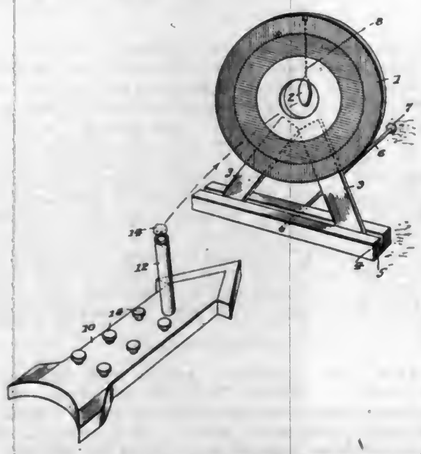
1. In a scraper, a body portion, end wings adjustably connected thereto, and manually operable means secured to said body portion for actuating said end wings simultaneously.

1,666,335. AUTOMATIC SLICING, TOASTING, AND BUTTERING MACHINE. RICHARD LENTZ, Los Angeles, Calif. Filed June 29, 1925. Serial No. 40,194. 9 Claims. (Cl. 53—5.)



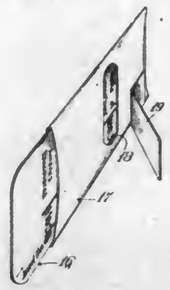
3. In a toaster, a pair of spaced elements, means to hold an article between said elements, shiftable means for moving said elements as a unit and other means for moving said elements toward and from each other.

1,666,336. TOY TARGET GAME. LOGAN L. MALLARD, Norfolk, Va. Filed July 10, 1926. Serial No. 121,587. 6 Claims. (Cl. 273—107.)



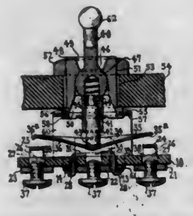
1. In a target game, a projection means including a movable base member, a flexible tubular projector removably mounted on said base and a projectile adapted for engagement with the end of said projector for discharge therefrom when the same is flexed and released.

1,666,337. MEMORIZATION DEVICE. JAMES E. MCDADE, Chicago, Ill. Filed July 6, 1925. Serial No. 41,608. 8 Claims. (Cl. 35—2.)



1. A memorization device comprising in combination a card bearing on one face a mass of data arranged in columns with related elements oppositely disposed, an envelope having a window and adapted to expose successively through the window the several sets of related elements, each set by itself, upon relative longitudinal movement of the card and envelope, and a flap carried by said envelope and movable into and out of position over said window, said flap also being provided with a window therein through which one, only, of said related elements is visible.

1,666,338. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 18, 1926. Serial No. 81,898. 10 Claims. (Cl. 200—68.)



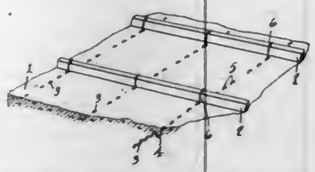
1. In an electric switch, the combination with an insulating base, of a plurality of stationary contacts carried thereby, a movable contact member supported intermediate said first mentioned contacts and having contact arms overhanging the latter, means for positively holding said movable contact in an intermediate position wherein all of said contacts are disengaged, said means comprising a pivoted lever adapted upon oscillation thereof to tilt said contact member to effect engagement of the latter with said stationary contacts selectively.

1,666,339. LUMINESCENT FUSE PLUG. LOUALLEN F. MILLER, Minneapolis, Minn. Filed Oct. 22, 1926. Serial No. 143,422. 5 Claims. (Cl. 200—121.)



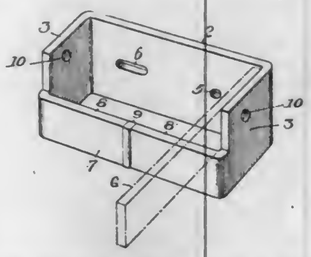
1. A fuse plug having applied thereto in the vicinity of its fuse a luminescent substance which, when the fuse is "blown," will be rendered luminescent for an extended period of time.

1,666,340. ANCHORING ELEMENT FOR CONCRETE CONSTRUCTION. ROBERT B. MITCHELL, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Jan. 26, 1927. Serial No. 163,650. 2 Claims. (Cl. 72—101.)



2. An anchoring element for use in concrete construction consisting of a corrugated rod having spaced loop-like bends therein disposed in the plane of the corrugations and providing anchoring members, the corrugations facilitating the engagement of ties with said anchoring element when the anchoring members of the element are embedded in a concrete body.

1,666,341. TREAD CARRIER. HARRY NAGIN, Pittsburgh, Pa., assignor to The Tri-Lok Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 19, 1926. Serial No. 130,138. 5 Claims. (Cl. 189—43.)



1. A tread carrier comprising a strip of metal bent to form a base adapted for attachment to a stairway riser, an integral portion extending outwardly from the base, and an integral tread supporting portion extending at an angle to the outwardly extending portion.

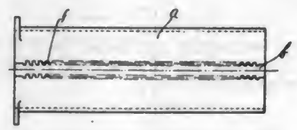
1,666,342. PROCESS FOR THE MANUFACTURE OF THYMOL FROM UMBELLULONE. ELNATHAN K. NELSON, Takoma Park, Md., assignor to the Government and the People of the United States of America. Filed Sept. 27, 1927. Serial No. 222,396. 2 Claims. (Cl. 260—154.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. The production of thymol from umbellulone by distilling California laurel oil and passing the vapors through a tube heated to 280° C. and separating the thymol formed by fractional distillation.

2. The production of thymol from umbellulone by distilling umbellulone, passing the vapors through a tube heated to 280° C. and separating thymol from the distillate by means of a solution of caustic alkali.

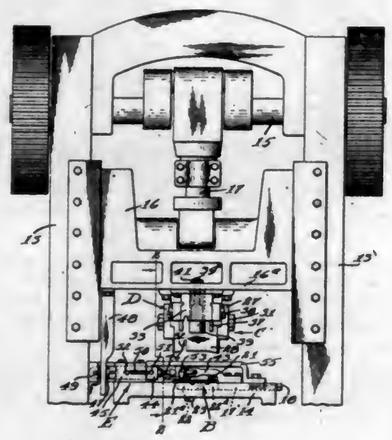
1,666,343. METHOD OF MANUFACTURING PISTON RINGS. MASATOSI OKOCHI and KEIKICHI ERIHARA, Tokyo, Japan, assignors to Zaidan Hojin Rikagoku Kenkyujo, Tokyo, Japan. Filed May 4, 1926, Serial No. 106,721, and in Japan May 16, 1925. 2 Claims. (Cl. 29—156.6.)

1. The method of making piston rings consisting in slitting a substantially cylindrical blank longitudinally and simultaneously forming joints along the edges thus provided, applying fastening means to the blank so as to



exert a closing action on the blank tangentially of and across the slit, and finally cutting said blank transversely at suitable intervals to provide individual rings.

1,666,344. TIEPLATE PUNCHING AND SHEARING PRESS. MELVIN OVESTRUD, Stillwater, Minn., assignor of one-half to Twin City Forge & Foundry Company, Stillwater, Minn., a Corporation of Minnesota. Filed Apr. 29, 1925. Serial No. 26,674. 12 Claims. (Cl. 164—15.)

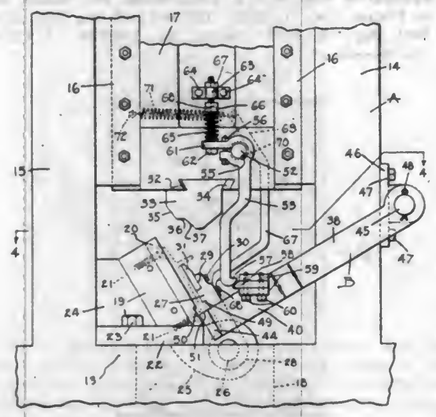


1. In a press of the class described, a frame, a bed thereon, a vertically reciprocable ram above said bed, shearing and punching elements carried by the ram, means on the bed complementing the shearing and punching elements, said elements being arranged in tandem in the direction of feed to said press, the shearing element comprising a pair of blades for severing two sections from a blank transversely thereof, the punching element comprising spaced punches for perforating two zones in the blank to be severed by said blades on a subsequent stroke of the ram, and a pair of oppositely arranged delivery chutes, each disposed to receive one of the sections severed from the blank on each stroke of the ram, one chute leading to one side of the press and the second chute to the other side of said press.

1,666,345. BENDING PRESS FOR TIE-PLATE FLANGES. MELVIN OVESTRUD, Stillwater, Minn., assignor of one-half to Twin City Forge & Foundry Company, Stillwater, Minn., a Corporation of Minnesota. Filed July 26, 1926. Serial No. 124,847. 13 Claims. (Cl. 153—25.)

1. A press for bending the flanges of tie plate sections, comprising a frame, a reciprocable ram carried by said frame, a die member mounted on said frame, a bending punch on said ram co-operating with said die

member for bending the flange of the tie plate section thereover, means operated by said ram for freeing the bent tie plate section from said die and for so holding



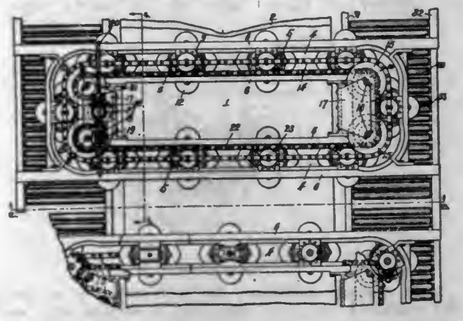
it, means for removing the bent tie plate section from the press and means operated by said removing means for releasing said freeing and holding means.

1,666,346. COMBINED MOP AND WRINGER. WILLIAM R. PAUL and JENNIE HENRY PAUL, Amarillo, Tex. Filed June 6, 1927. Serial No. 196,939. 8 Claims. (Cl. 15—120.)

1. A combined mop and wringer comprising a slotted handle, a mop holding loop slidably mounted on said slotted handle and provided with a crank projected through the slot, a crank on said shaft, a second mop holding loop provided with shanks pivotally connected to said handle, a collar slidably mounted on said handle providing a bearing for said shaft and holding said shank and second mentioned loop in line with said handle during a mopping operation, and bracing means operatively connected with said handle and collar for preventing movement of said collar on said handle during a mopping operation.

1,666,347. CONTINUOUS GLASS-POLISHING MEANS. ARCHIE W. PLATT, Toledo, Ohio, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio, a Corporation of Ohio. Filed Sept. 3, 1926. Serial No. 133,338. 9 Claims. (Cl. 51—120.)

1. In a machine of the class described, a conveyor for supporting plate glass and having a defined path of movement, a polishing unit having an endless path of movement forward and backward across the conveyor transverse to the conveyor movement with portions of its movement at the sides of the conveyor, means for



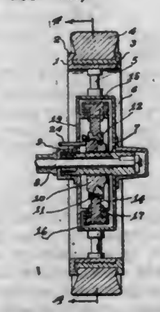
causing said unit to traverse its path of movement, and means disposed at one side of the path of movement of the conveyor for re-conditioning the polishing surface of the unit as it passes thereover.

1,666,348. RAILWAY CATTLE GUARD. CURTIS D. PRUETT, Dallas, and WILLIAM KADERNASCHKA, Troup, Tex. Filed Oct. 18, 1927. Serial No. 226,924. 3 Claims. (Cl. 256—14.)



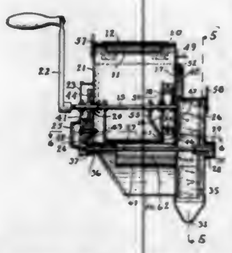
1. In a railway livestock guard, in combination with a plurality of railway ties, of spacer members secured to the adjacent ends of the ties, of trip members angularly disposed between adjacent ties, and having braces therebetween, the trip members over one half side of the road bed being in parallel planes, and those on the other half, being in parallel planes, the planes of the trip members on the first half being angularly disposed with respect to the planes of those members over the second half of the roadbed, and a plurality of triangular strips in full clearance of the rails and covering the tops of said ties, the tops of said trip members and said triangular strips being upon a plane one with the other.

1,666,349. VEHICLE BRAKING MECHANISM. ALFRED T. PETERSON, Crooked Rivers, Saskatchewan, Canada. Filed Dec. 31, 1926. Serial No. 158,318. 9 Claims. (Cl. 188—78.)



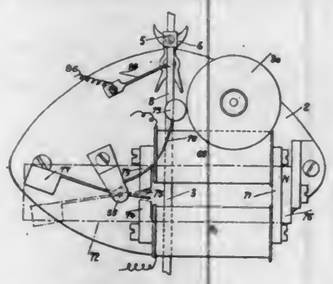
1. In a brake mechanism, an axle, a frusto-conical element rotatable thereon, a brake drum, a brake shoe engageable therewith, means to rotate said frusto-conical element, whereby the brake shoe is moved axially and radially to engage the drum.

1,666,350. DUSTING APPARATUS. WILLIAM L. PITT, Cleveland, Ohio. Filed Feb. 9, 1925. Serial No. 7,918. 2 Claims. (Cl. 43—148.)



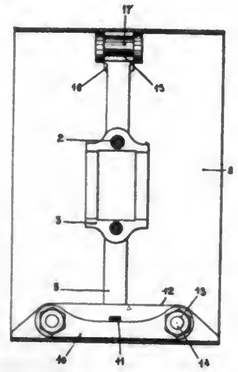
1. In dusting apparatus, the combination of a material container having a substantially vertical side wall with a discharge opening for the material adjacent the bottom thereof, a shaft extending through said container and provided with means for feeding the material to said opening and, exteriorly of the container, with a crank whereby the shaft may be rotated, a shaft arranged parallel with the first-mentioned shaft and having an impeller arranged adjacent said wall with its intake alongside said opening, a casing enclosing said impeller and having an air intake opening below said container and through which air is admitted to said casing independently of the material, a wall surrounding said intake opening and cooperating with the bottom wall of said container to form a tubular passage through which air is supplied to said intake opening, gearing arranged on the exterior of said container for driving the impeller shaft from the first-mentioned shaft, a casing for said gearing carried on a wall of said container, an exteriorly adjustable valve pivoted on the first-mentioned shaft and cooperating with said discharge opening to regulate the flow of material therethrough, and means whereby the apparatus may be supported on the body of an operator.

1,666,351. ELECTRIC STRIKING MECHANISM. SIMON ROLLIN, Tulle, France, assignor to Societe Anonyme des Anciens Etablissements Hatot, Paris, France. Filed Mar. 8, 1927, Serial No. 173,756, and in France Mar. 12, 1926. 7 Claims. (Cl. 58—38.)



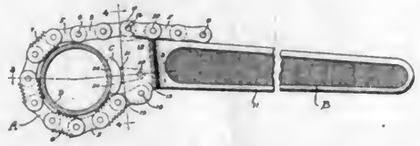
1. An electric striking mechanism for clocks comprising the clock pendulum, a reversing switch actuated by the pendulum, a polarized electromagnet, means whereby the switch is adapted to send current of alternatingly opposite direction into the electromagnet, during the striking period, the pivoting armature of the electromagnet, a striker secured thereto, a bell disposed in the path of the striker, means whereby the electromagnet when fed by current of a given direction moves the striker towards the bell and when fed by current of opposite direction moves it away from the bell, and an arrangement for controlling the number of beats of the striking mechanism.

1,666,352. SPLIT PULLEY. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France, a French Company. Original application filed Mar. 5, 1926, Serial No. 92,567, and in France Apr. 11, 1925. Divided and this application filed May 12, 1927. Serial No. 190,889. 1 Claim. (Cl. 64—18.)



A split pulley having a two part body, fastening bolts adapted to secure said body to a shaft, a split outer band arranged about the body and closed thereon at one end of the dividing diameter, fastening means for connecting the free ends of the outer band, the adjacent faces of the two parts of the body near the end of the dividing diameter opposite that to which the fastening means are located being provided with recesses, counterweights removably arranged in the said recesses and said weights being held in position upon the tightening of the fastening bolts.

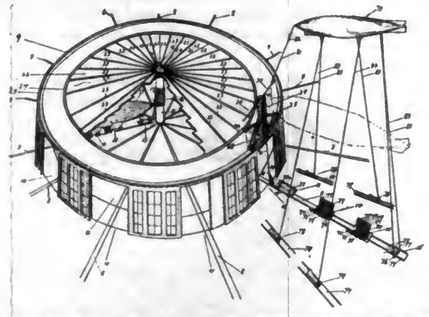
1,666,353. WRENCH. ADOLPH C. SCHELP, Colp, Ill. Filed July 14, 1924. Serial No. 725,948. 1 Claim. (Cl. 81—69.)



In a wrench, a handle, a head at one end of said handle rigid therewith and including a pair of elongated spaced plates extending transversely of the handle and providing an elongated slot with its longitudinal axis transversely of the handle, a chain pivotally connected at one end to and between the pair of plates at a point adjacent one end of the plates, means provided at the opposite end of the pair of plates for detachably connecting the free end of the chain therebetween, and a fulcrum member pivotally connected to and between the plates of the head at a point intermediate the ends of the plates, nearer to the pivotal point of attachment of the chain than to the detachable point of connection of the chain with the plates and embodying a shoe extending forwardly of the head of the wrench and having a concaved work engaging face

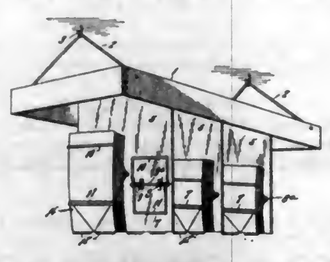
1,666,354. AIRSHIP-LANDING STATION. FREDERICK WILLIAM SCHWERDTFEGER, New York, N. Y. Filed Sept. 3, 1925. Serial No. 54,313. 7 Claims. (Cl. 244—2.)

1. A station for landing and launching airships, comprising a circular hangar, a pillar centrally located within the hangar, a number of radial tracks placed on the hangar-floor and rotatable around said central pillar, a movable mooring tower situated on a circular track placed on the periphery of the hangar-roof, an elevator device from the hangar-floor to the hangar-roof, another elevator device within said mooring tower, a series of gangways lo-



cated on the roof and communicating between said elevator devices, a system of outer tracks radial to the hangar, and means of lowering and berthing airships into vehicles movable along said radial tracks and of depositing airships in to the hangar, as described.

1,666,355. RACK OR HOLDER FOR PAPER BAGS. ALVIN SETHER, Chippewa Falls, Wis. Filed Mar. 4, 1926. Serial No. 92,229. 1 Claim. (Cl. 211—251.)



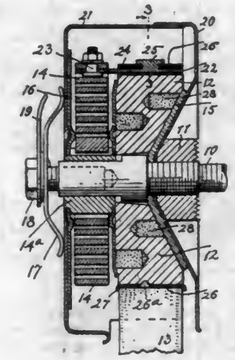
A device for the purpose indicated comprising a tray consisting of a flat sheet metal plate provided with suspension means at one end and with right-angularly disposed extensions at the opposite end, and bag supporting means carried by the tray on that face from which the extensions project, said supporting means consisting of complemental U-shaped members, a rod to which said U-shaped members are pivotally connected, bearings supporting the rod and secured to the face of the tray, and torsion springs in surrounding relation to the rod between the bearings and the pivotal connections with the U-shaped members and bearing respectively upon the face of the tray and the U-shaped members to yieldingly impel said U-shaped members toward the tray.

1,666,356. PAPER FASTENER. RAYMOND H. SMICKLE, Belvidere, N. J. Filed Apr. 4, 1927. Serial No. 180,919. 5 Claims. (Cl. 24—153.)



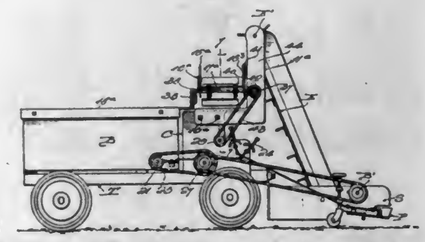
1. A paper fastener comprising a pair of pliable double ended members arranged in parallel relation, one of said members having a slot, and means in engagement with said slot for holding the members together intermediate their ends.

1,666,357. SHOCK ABSORBER. JACOB R. SNYDER, Cleveland, Ohio, assignor to The Star Rebound Controller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 10, 1924. Serial No. 742,785. 12 Claims. (Cl. 267—10.)



1. A shock absorber comprising a rotatable drum, a strap adapted to be wound onto and unwound therefrom, a spring for rotating the drum in one direction, and a combined attaching means and spring support extending from the side of the drum.

1,666,358. SNOW-REMOVING MACHINE. MARSOP SOUHIGIAN, Lawrence, Mass. Filed Nov. 4, 1926. Serial No. 146,225. 3 Claims. (Cl. 37—45.)

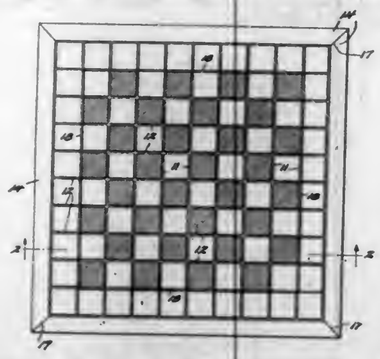


1. In a snow removing machine, the combination with a motor truck having a driver's cab; of a pair of vertical bracket plates secured to the sides of said cab and rising from the latter, snow elevating means in advance of the truck and having its upper end connected with and supported by said bracket plates, and a conveyor positioned to receive the elevated snow, said conveyor having a frame connected with and supported in part by said bracket plates.

1,666,359. GAME BOARD. HERBERT J. A. STEVES, New York, N. Y. Filed May 4, 1927. Serial No. 188,825. 1 Claim. (Cl. 273—136.)

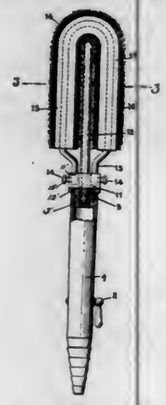
A game board having a series of equi-distant parallel continuous grooves in its surface, and another series of equidistant parallel continuous grooves at right angles thereto sub-dividing the surface into squares, and means for forming a raised border for a central group of said squares to enclose a conventional checker board, to avoid confusion in playing checkers on the same board, said means being composed of a series of removable rec-

tangular plugs inserted in the grooves bounding said central checker board portion, said plugs being of the length of a side of a square, and of greater height than



the depth of the grooves to facilitate removal, whereby said plugs are adapted for use as markers for playing squares over the entire surface of the board.

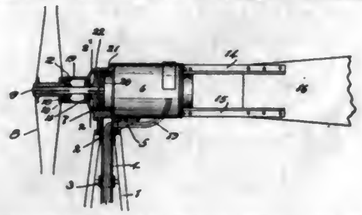
1,666,360. CLEANING DEVICE. GUGLIELMO TANCETTI, Genoa, Italy. Filed Apr. 16, 1926, Serial No. 102,527, and in Italy Sept. 30, 1925. 2 Claims. (Cl. 15—127.)



1. A device of the character described, including a fibrous mop fabric having a tubular edge, a U-shaped frame on which the tubular edge of the mop fabric is threaded, a supporting block for removably receiving the ends of the frame, set screws fore releasably securing the ends of the frame in the supporting block, the block being provided with a central longitudinal opening, a blind tube engaged with the block and lying between the sides of the frame and having a series of small perforations on the side face of the fibrous portion of the mop fabric, and a threaded nipple extending from the opposite side of the block and in alignment with the longitudinal opening, substantially as and for the purposes set forth.

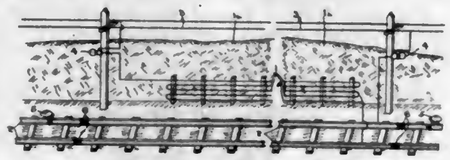
1,666,361. WINDMILL. LAURENCE THOMPSON, Warren, Manitoba, Canada. Filed Mar. 28, 1927. Serial No. 179,119. 1 Claim. (Cl. 170—37.)

In windmill construction, the combination with a horizontally disposed rotatable base plate, of an electrical generator secured to the rear portion of the base plate, a horizontally divided housing in advance of the generator, said housing having the under section thereof secured to the base plate, and the upper section thereof detachably fastened to the under section and being provided at the end remote from the generator with a bearing extension, a wind wheel shaft rotatably mounted in said extension and aligned with the generator shaft and entering the housing, a gear wheel secured to the inner end of the wind wheel shaft, a pinion secured to the forward end of the generator shaft and contained within the housing, counter shafts crossing the housing and



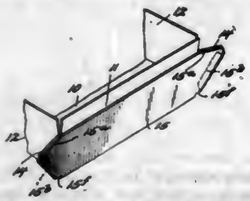
positioned parallel to the aligned shafts, and disposed equidistant at opposite sides thereof and having their ends removably mounted between the upper and lower sections of the housing, similar pinions secured to the counter shafts and meshing with the gear wheel of the windmill shaft and similar gear wheels secured to the counter shafts and meshing with the pinion of the generator shaft.

1,666,362. SAFETY DEVICE FOR RAILWAYS AND THE LIKE. PURCELL THOMAS WEBB, Christchurch, New Zealand. Filed Apr. 24, 1925, Serial No. 25,629, and in New Zealand May 2, 1924. 4 Claims. (Cl. 246—121.)



1. Means for the purpose specified, comprising an electric line erected adjacent a section of railway line to be protected, and forming part of an electric circuit containing lamps, located near the ends of said section of railway line, said lamps being adapted to be extinguished by a fall of earth or the like breaking said electric line; and signaling means for giving warning of the approach of a train, to said section of railway line, the section of railway line protected by the electric line being insulated from the rest of the railway line and also forming part of the circuit through the electric line and the lamps, and the said circuit being closed when the electric line is unbroken by the wheels and axle of a train bridging the rails of said insulated section of railway line, substantially as described.

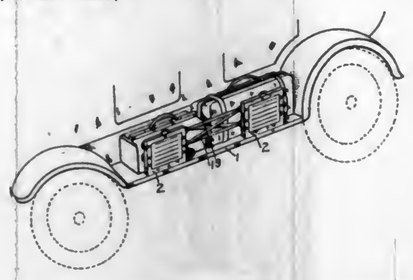
1,666,363. BAKE PAN. ANTHONY JOSEPH WILL and DAVID ALBERT FELDMAN, Baltimore, Md., assignors to The August Maag Company of Baltimore, Baltimore, Md., a Corporation of Maryland. Filed Sept. 3, 1925. Serial No. 54,367. 3 Claims. (Cl. 53—6.)



1. In combination, a rectangular bake-pan, a reinforcing and protecting plate extending along one side of

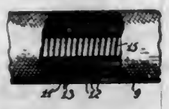
said pan, said pan having flaps at the corners folded against the ends of the pan, said plate having a portion at each end folded against the end of the pan, the folded ends of said plate overlying said folded flaps on the pan and each of said ends having one edge folded over an edge of said flap.

1,666,364. FOOT MAT AND LUGGAGE AND LIKE CARRIER DEVICE FOR MOTOR ROAD VEHICLES. WILLIAM HENRY BAUERT, Roseville, near Sydney, New South Wales, Australia. Filed June 30, 1924, Serial No. 723,358, and in Australia July 24, 1923. 1 Claim. (Cl. 280—164.)



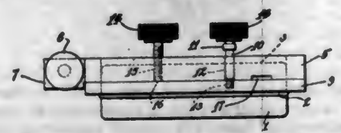
A mat and luggage carrier including a frame, means for hingedly securing said frame with the running board of a vehicle, said means including a laterally projecting pivot pin, a lever pivoted to said frame and normally occupying a position folded against the latter, said lever being movable to a position engaging the laterally projecting pivot pin.

1,666,365. NONEXPANSIVE HOSE. CLIFFORD C. BRADBURY, Glencoe, Ill., assignor to Hydraulic Brake Company, Detroit, Mich., a Corporation of California. Filed Apr. 23, 1926. Serial No. 104,051. 1 Claim. (Cl. 137—90.)



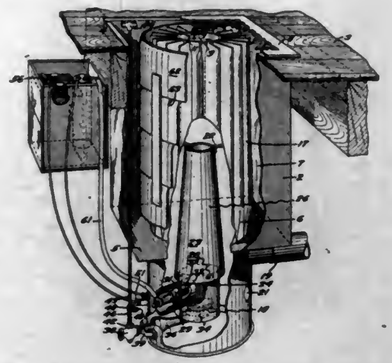
A flexible hose adapted to withstand high internal pressure without appreciable expansion, comprising a helix of relatively non-compressible wire circular in cross section and having its adjacent turns contacting one another, said helix having the outer surface ground away to form a substantially cylindrical outer surface lying in a plane externally of the mid-point of the wire, and an elastic tube about said helix tensioned so as to exert high radial pressure on the outer cylindrical surface of the coil.

1,666,366. CAN OPENER. JOSEPH CERECHINO, Los Angeles, Calif. Filed June 21, 1927. Serial No. 200,851. 4 Claims. (Cl. 220—43.)



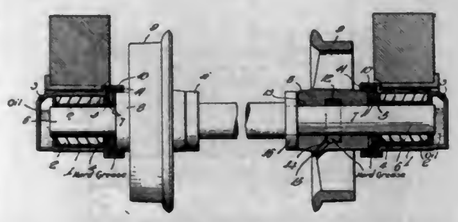
1. In a device of the class described, the combination of a clamp ring, a ring movably secured to the clamp ring, and means for moving the said latter ring from the clamp ring.

1,666,367. HEATING DEVICE. LOUIS F. CLAUSING, Burlingame, Calif., assignor to Royal Metal Works, San Francisco, Calif., a Copartnership consisting of Louis F. Clausing and Max Schwartz. Filed Nov. 10, 1923. Serial No. 674,096. 3 Claims. (Cl. 126—116.)



1. A heater comprising an open top box, heat radiating means in said box, and a plurality of rings disposed one above another and spaced apart so as to leave open spaces therebetween for passage of air from the outer to the inner column, the spaces being in a vertical series, said rings being disposed between the radiating means and the box.

1,666,368. JOURNAL BOX, BEARING, WHEEL, AND AXLE ASSEMBLY. THOMAS R. COOK, Scranton, Pa., assignor to The Hudson Coal Company, Scranton, Pa. Filed Mar. 28, 1927. Serial No. 179,016. 1 Claim. (Cl. 308—109.)

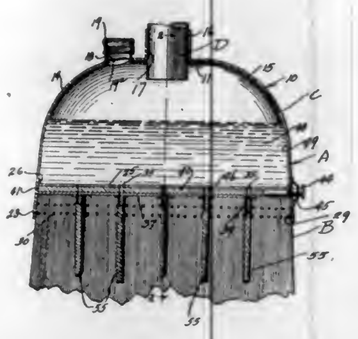


An assemblage of the class described comprising a journal box having an oil-filled reservoir and a bearing supplied with oil from said reservoir, an axle extending into said journal box and bearing, thrust means on the axle abutting one end of the journal box, a wheel whose hub is loose on the axle and abuts said thrust means, the aforesaid end of said journal box being provided with a shroud which surrounds the aforesaid thrust means and the adjacent end of said hub, said hub having a recess in communication with its interior, and a hard grease filling in said recess, said hard grease filling serving not only to lubricate the hub and axle but being adapted to creep out of the hub into the aforesaid shroud to lubricate the aforesaid thrust means, to pack said shroud against entrance of foreign matter and to prevent leakage of oil from the journal box along the axle.

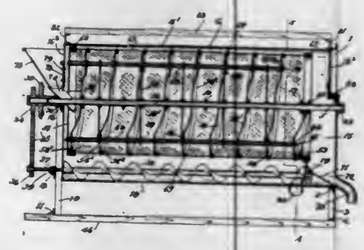
1,666,369. DUST-LAYING BROOM. MARY R. DEHLING, Wausau, Wis. Filed Aug. 19, 1926. Serial No. 130,256. 3 Claims. (Cl. 15—182.)

1. In a broom the combination of a metallic receptacle having a liquid receiving compartment therein, handle means connecting with the receptacle, said receptacle

including a bottom and a depending peripheral skirt portion below the bottom, flexible broom straws having their upper ends within the skirt portion immediately below the bottom of the receptacle, stitching extending between the wall portions of the skirt portion for stitching the straws to the skirt portion of the receptacle, and means for feeding liquid from the receptacle into the broom straws, including long flexible tubes extending from the bottom wall of the receptacle down thru the straws in embedded relation therein and having outlets adjacent the lower ends of said broom straws.



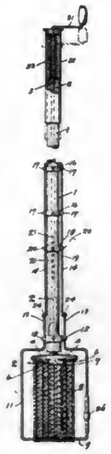
1,666,370. GRAIN CLEANER. DANIEL WEBSTER DETWILER, Rosebud, Alberta, Canada. Filed May 27, 1927. Serial No. 194,752. 15 Claims. (Cl. 209—297.)



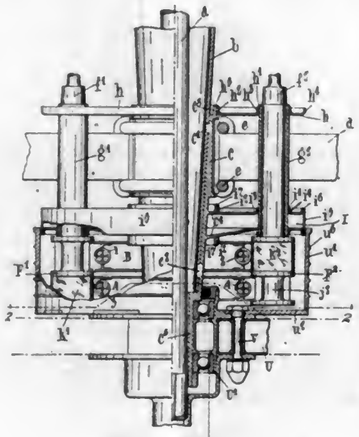
3. In a grain cleaning machine, the combination with a casing, of a rotatably mounted and driven shaft therein, a helical flange mounted concentrically to the shaft and spaced therefrom and having a clamping web and directed substantially at right angles to the longitudinal axis of the shaft, means for rigidly supporting the flange from the shaft to cause it to rotate therewith, a cylindrical wire mesh screen enveloping the flange and bearing on the web, a helical member surrounding the screen, said screen being clamped between the helical member and the clamping web and means for feeding grain into one end of the screen.

1,666,371. MOP. ALBERT DE ROSE, Gilroy, Calif. Filed May 12, 1925. Serial No. 29,766. 2 Claims. (Cl. 15—120.)

1. A mop of the character described comprising a tubular handle, a slidable and rotatable shaft extending through said handle, a wiping element, means secured to the lower end of the shaft for supporting one end of the wiping element in proximity to the lower end of the handle, a frame pivoted to the handle and supporting the other end of the wiping element, elastic means secured to the handle and engaging the upper end of the frame tending to maintain the frame in a plane passing through the axis of the handle, and a crank secured to the upper end of said shaft.

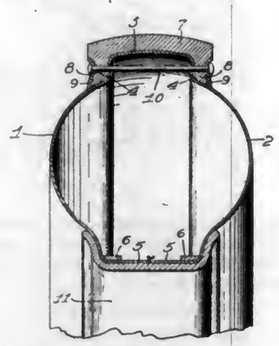


1,666,372. VEHICLE BRAKE. JENÖ FEJES, Budapest, Hungary. Original application filed May 28, 1926, Serial No. 112,343. Divided and this application filed Dec. 30, 1926. Serial No. 158,068. 4 Claims. (Cl. 188—78.)



4. A self-contained unit for attachment to the rear axle of a motor or like vehicle comprising in combination a supporting boss (c), main supporting spring, means for attaching the latter spring to the said boss, two flanged sheet iron supports (h, I) edge-welded to said boss, tubes (g_1, g_2) to which the said flanged sheet iron supports are edge-welded, spindles (f_1, f_2) mounted on the said tubes (g_1, g_2) a cylindrical and a cam-like extension (f_1k_1—f_2k_2) on the said spindles, two pairs of brake shoes mounted on the said cylindrical and cam-like extensions of the spindles (f_1,f_2) and each made of strips of sheet iron welded at their edges, some of which strips have flanges to allow edge-welding being effected, and springs between the brake shoes of each pair, as set forth.

1,666,373. SPRING STEEL TIRE. FELIX S. FELDHEIM, Evanston, Ill., assignor of one-half to Victor Karbowski, Chicago, Ill. Filed Oct. 1, 1926. Serial No. 138,038. 2 Claims. (Cl. 152—8.)



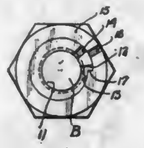
1. A device of the type described comprising a body portion having resilient side portions, an annular head portion, and annular grooved portions disposed between said side portions and said head portion, a tread disposed upon said head portion, bead portions integral with said tread and receivable in said grooved portions, retainer rings disposed adjacent said bead portions, means extending through said grooved portions, said bead portions, and cooperating with said retainer rings for securing said tread in place, inwardly extending flange portions integral with said side portions, and reinforcing rings disposed upon said flange portions adjacent the inner walls of said side portions.

1,666,374. GARDEN TOOL. TONY C. GATTI, Pascogoula, Miss. Filed Apr. 19, 1926. Serial No. 103,137. 2 Claims. (Cl. 97—66.)



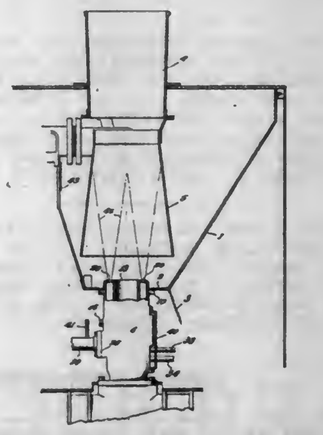
1. A tool head of the character described, comprising a body having a longitudinal edge formed to set up a plurality of ground working teeth, each tooth being bent at its face to project at an obtuse angle with respect to one face of the plate, said plate further having the central portion thereof cut away to provide an ear bent outwardly at right angles to the face of the plate for the attachment of a handle thereto, and said other longitudinal edge having a portion thereof bent at an obtuse angle to one face of the plate body to set up a weeding blade extending throughout the length of said other longitudinal edge, and a reinforcing flange formed across each end of said plate body to prevent bending of the same while in use.

1,666,375. LOCK NUT. IGINO GUIDUCCI, Tivoli, Rome, Italy. Filed Jan. 26, 1927. Serial No. 163,696. 1 Claim. (Cl. 151—19.)



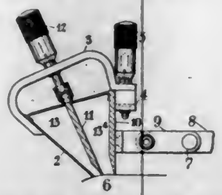
In a lock nut device adapted to be applied to the threaded portion of a bolt over a nut engaging said threaded portion, the combination of an outer member separate from said nut and having an inner eccentric wall, an inner member separate from said nut and said outer member and located within said outer hollow member, said inner member being longitudinally slidable with respect to said outer member, said resilient member having an outer eccentric wall corresponding to the inner eccentric wall of said outer member, the length of the radius of the outer eccentric wall of said resilient member increasing in the direction of the locking movement thereof, said inner resilient member being annular and having an internal thread corresponding to the thread of the bolt.

1,666,376. EXHAUST NOZZLE. WINFIELD SCOTT HAINES, Dunmore, Pa., assignor to Peter Garfield Seigle, Dunmore, Pa. Filed Apr. 22, 1927. Serial No. 185,894. 5 Claims. (Cl. 230—96.)



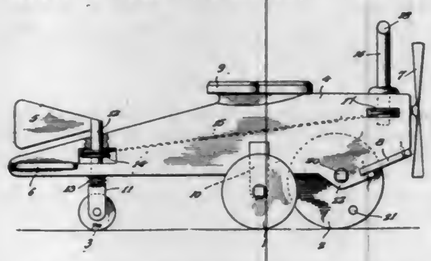
1. An exhaust nozzle for locomotives comprising a single casting having a gas and smoke chamber in its upper portion and provided with vertical partitions forming the sides of said chamber and defining with the sides of the casting passages for exhaust steam from the engine cylinders, and vertically spaced webs extending across the body between the partition to define an exhaust chamber, the upper web forming the bottom of the smoke and gas chamber and having a central opening establishing communication between the exhaust chamber and the smoke and gas chamber and the walls of the casting at the ends of the exhaust chamber having openings to receive exhaust pipes from the locomotive auxiliaries.

1,666,377. CELLULOSE-DERIVATIVE FILM AND METHOD OF MAKING THE SAME. HENRY JAMES HANDS, Chiswick, London, England, assignor to Spicers, Limited, London, England. Filed Jan. 25, 1927, Serial No. 163,540, and in Great Britain Sept. 24, 1926. 3 Claims. (Cl. 18—57.)



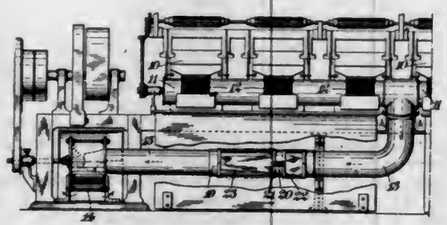
1. Sheets of cellulose ester compositions exhibiting a gradual variations in property from one face to the other face of the sheet.

1,666,378. CHILD'S TOY. JOHN ELDRIDGE HARNER, Dodge City, Kans. Filed Feb. 9, 1927. Serial No. 166,974. 3 Claims. (Cl. 208—42.)



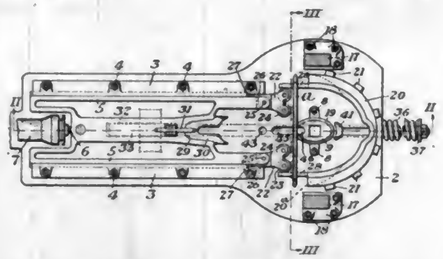
1. A toy comprising an elongated body, centrally disposed wheels, a front wheel and a rear wheel, the rear wheel being supported in a frame having a pivotally mounted stem adapted to receive a limited vertical movement, a front post, pulleys secured to the stems of the post and rear wheel frame, and a flexible connection between the pulleys of the posts and rear wheel frame to admit of a turning of the latter for steering.

1,666,379. WASTE-COLLECTING DEVICE FOR COMBING AND LIKE MACHINES. WALTER HARTLEY, Bolton, England, assignor to Dobson & Barlow Limited, Bolton, England, a British Company. Filed Jan. 22, 1926, Serial No. 82,992, and in Great Britain May 15, 1925. 10 Claims. (Cl. 19—115.)



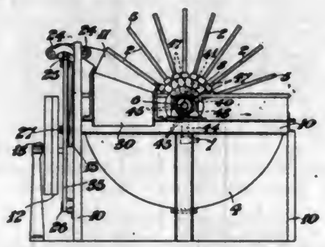
1. In a waste-collecting device of the type described, the combination with a principal waste collector, of a pipe leading therefrom, a stop abutment in the interior of said pipe, an auxiliary waste-collecting bag with a stiffened mouth located in said pipe in such a way that the mouth is directed towards the principal waste collector and the back of the mouth lies against the stop abutment, and means for applying suction to the pipe to draw the stream of fluff-laden air from the principal collector through the bag and thereby draw the back of the mouth of the bag against the stop abutment.

1,666,380. APPARATUS FOR MAKING CHAINS. ALBERT G. HEINLE, Crafton, Pa., assignor of three-eighths to Thomas A. McQuaide, Pittsburgh, Pa. Filed July 23, 1924. Serial No. 727,651. 18 Claims. (Cl. 59—27.)



1. Apparatus for forming chain links, comprising a fixed forming die having a peripheral groove, and unitary means for bending the bar into link form in said groove in a single operation.

1,666,381. ROTARY FILTER. HENRY SELBY HELE-SHAW, REGINALD COLLES BEAUFOY STILLMAN, and JOSEPH ALLEN PICKARD, London, England. Filed Nov. 30, 1925, Serial No. 72,109, and in Great Britain Dec. 19, 1924. 12 Claims. (Cl. 210—196.)



1. In combination, a container for a body of fluid to be filtered, a rotatable filter operable therein, said filter comprising filter units disposed radially to and longitudinally of the axis of rotation of the filter and movable into and out of the body of fluid, and means operable over the surfaces of said filter units for removing accumulated material therefrom.

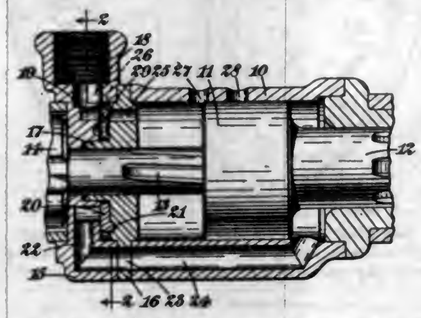
1,666,382. MUSIC CHART. HALESIA D. HOFFMEISTER, Los Angeles, Calif. Filed Mar. 9, 1927. Serial No. 173,997. 3 Claims. (Cl. 84—471.)



2. A music chart comprising a backing, strips extending longitudinally thereon in vertically spaced relation to each other and indicating staff lines, said strips having

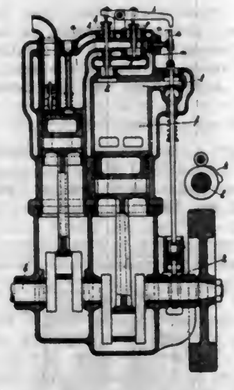
lower marginal portions secured to said backing and upper portions free, and elements provided with note indicating characters, said elements being provided with tongues extending in overlying relation to their rear faces and adapted to engage between the backing and free portions of said strips to suspend the elements from the strips in overlying relation thereto.

1,666,383. ROCK DRILL AND LIKE TOOL. ARTHUR TREVE HOLMAN and PERCY MYNORS HOLMAN, Camborne, England, assignors to Holman Brothers Limited, Camborne, Cornwall, England, a British Company. Filed July 13, 1926, Serial No. 122,180, and in Great Britain June 3, 1926. 3 Claims. (Cl. 121—22.)



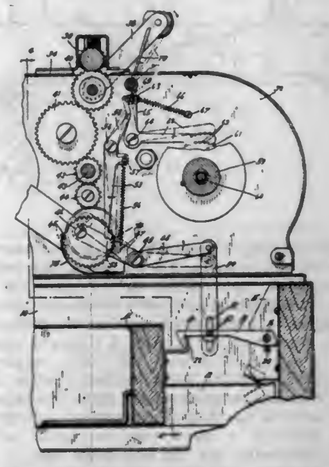
1. In a fluid-operated rock-drill, the combination with a cylinder structure of a plate valve terminating near one end of a diameter thereof in a straight edge affording a rib extending from one face of the valve, a recess in an end wall of the cylinder structure for receiving said valve in a plane transverse to the cylinder axis, a groove in one face of said recess to receive said rib about which the vale is adapted to oscillate, and at least one passage through said valve to permit fluid to pass to opposite faces of the valve.

1,666,384. METHOD OF OPERATING EXPLOSIVE ENGINES. OSCAR WALFRID HULT, Stockholm, Sweden. Filed Feb. 28, 1923, Serial No. 621,919, and in Sweden Mar. 7, 1922. 7 Claims. (Cl. 123—75.)



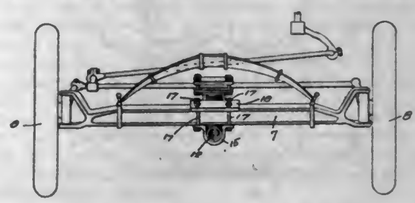
1. The method of operating an internal combustion engine, in which the working stroke is followed by an exhaust stroke and a charge stroke, which comprises compressing a combustible fluid, cooling said compressed combustible fluid, expanding a given volume of said compressed and cooled fluid while performing work and thereby cooling the fluid further, compressing the cooled and expanded fluid and using the fluid thus obtained for developing power under explosion in the working cylinder of said engine.

1,666,385. AUTOGRAPHIC-REGISTER CASH DRAWER. LOUIS JENSEN, Chicago, Ill., assignor to United Autographic Register Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1926. Serial No. 97,297. 16 Claims. (Cl. 235—22.)



1. A device of the kind described comprising a hollow base, a drawer movable therein, a latch for maintaining the drawer normally closed, a rocking device for operating the latch, a gear train and actuating means therefor, and an eccentrically mounted element operated by the gear train whereby to actuate said rocking device and release the latch, said element adapted to gravitate out of co-operative relation with the gear train to cease operating the rocking device.

1,666,386. AUTOMOBILE STEERING MASTER. CHARLES A. JOHNSON, Sacramento, Calif. Filed Dec. 1, 1926. Serial No. 151,987. 1 Claim. (Cl. 280—94.)



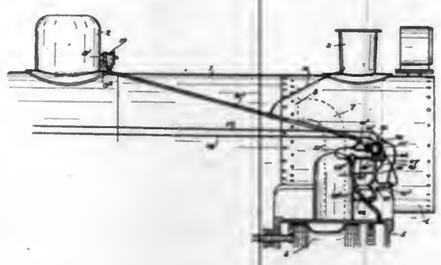
In combination with the axle of an automobile, a steering mechanism comprising an operating link moving parallel to the axle, a spring fixed relative to the axle and supported thereby so as to extend toward the operating link, a ring encircling said ring and a swiveled connection between the ring and the link.

1,666,387. TORCH TIP. GEORGE I. JONES, Buffalo, N. Y., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Mar. 31, 1927. Serial No. 179,911. 6 Claims. (Cl. 158—27.4.)



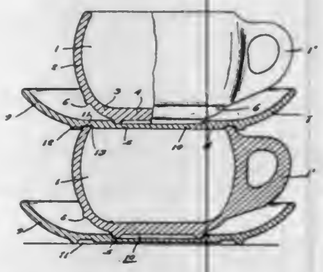
4. A chromium-plated torch tip.

1,666,388. ATTACHMENT TO LOCOMOTIVE. PETER BENJAMIN KAMEDISH, Winnipeg, Manitoba, Canada, assignor of one-third to Samuel Thomas Starr and one-third to Charles Henry Forrester, sr., Winnipeg, Manitoba, Canada. Filed Dec. 10, 1921. Serial No. 521,418. 6 Claims. (Cl. 121—137.)



1. In a drifting attachment to locomotives, the combination with the locomotive cylinders, the throttle and the live steam pipe leading to the cylinders from the throttle, of a steam supply valve in direct communication with the boiler, means for unseating the valve coincident with the closing of the throttle, a normally closed steam cut-off valve connected with the steam supply valve, a double check valve, a pipe connection between the double check valve and the steam cut-off valve, a steam pipe connection between the double check valve and the cylinder exhaust passages, a steam pipe connection between the double check valve and the live steam pipe, a pipe connection between the steam cut-off valve and the live steam pipe, and means whereby a reduction of pressure in the live steam pipe effects the opening of the steam cut-off valve.

1,666,389. CUP AND SAUCER. JAMES L. MANDER, Winnipeg, Manitoba, Canada. Filed Nov. 11, 1926. Serial No. 147,805. 6 Claims. (Cl. 65—15.)

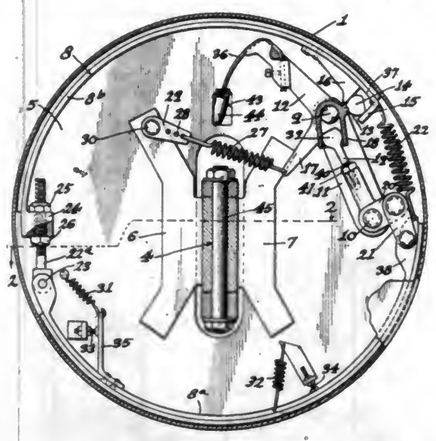


1. A saucer having a pocket in the upper face thereof of a size to receive the base of a cup and a continuous channel in the underface thereof of a size to fit the mouth of the aforesaid cup.

5. A cup having outwardly bulging side walls and terminating at the bottom in a base flange and provided above the flange and on the outer face thereof with a circumscribing horizontally disposed shoulder, the shoulder appearing beneath the line of greatest diameter of the cup.

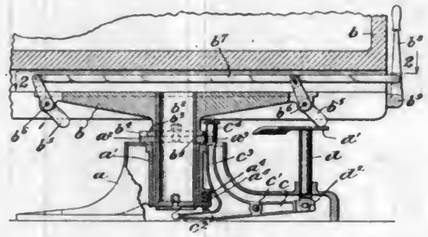
1,666,390. VEHICLE BRAKE SYSTEM. DONALD MARLEY, Los Angeles, Calif., assignor of one-half to Francis J. Moore, Minneapolis, Minn. Filed Nov. 16, 1923. Serial No. 675,104. 17 Claims. (Cl. 188—194.)

4. In a brake comprising a drum secured to a ground wheel and a plate secured to a spindle casting, a pair of levers pivotally mounted relatively to said plate and mechanically interconnected, the first of said levers being provided with an operating arm to which a flexible cord



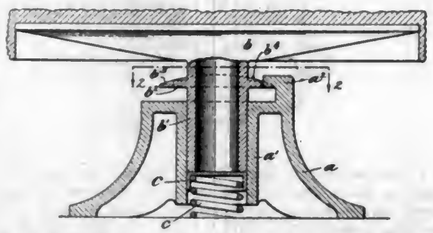
is connected, and provided also with a comparatively short interconnecting arm adapted to engage a comparatively long operating arm upon the second of said levers.

1,666,391. SEAT. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 27, 1926. Serial No. 137,919. 4 Claims. (Cl. 155—96.)



1. In a seat wherein the seat frame is mounted to rotate in a base, latch means carried by the base to engage the seat frame to prevent its rotation and means upon the seat frame to engage the latch in predetermined angular positions of the seat frame to release the latch.

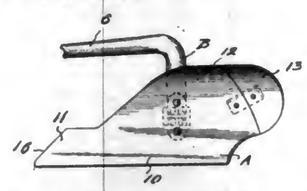
1,666,392. SEAT. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 27, 1926. Serial No. 137,920. 1 Claim. (Cl. 155—96.)



In a seat wherein the seat frame is supported in the base with capability for relative movements, a base seat frame mounted therein, a flange on the seat frame, a

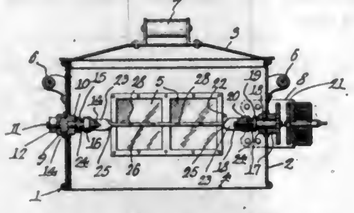
plurality of double cam faces carried by the flange, notches between the cam faces, a dog carried by the base and a spring resisting downward movement of the frame to engage the dog with the notches and cam faces.

1,666,393. CULTIVATOR SHOVEL. JOHN C. MECKLENBURG, Hancock, Minn. Original application filed Oct. 20, 1923, Serial No. 669,833. Divided and this application filed Dec. 19, 1924. Serial No. 756,966. 1 Claim. (Cl. 97—203.)



A cultivator shovel constructed from a single blank of sheet metal including a body portion, a weed cutting nose formed on the body portion and extending an appreciable distance forwardly thereof, a downwardly inclined cutting edge on said nose, the body portion and nose being disposed at an angle to the vertical and to the longitudinal axis of the cultivator beam, and an outwardly and rearwardly curved mold board carried by the upper edge of the body, the rear edge of the body portion being curved upwardly and rearwardly to merge with the downwardly and forwardly curves of the rear edge of the mold board.

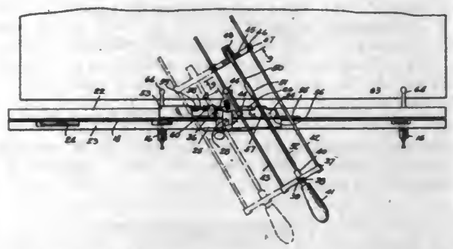
1,666,394. ROASTER. BEN E. MIOLIN, Archbald, Pa. Filed May 9, 1927. Serial No. 190,113. 1 Claim. (Cl. 53—5.)



In a device of the class described, a casing, a shaft supported for rotation in the casing, a spit comprising side members, and overlapped end members having slots, the shaft passing through the slots, a connecting element slidable in the slots on one side of the shaft, and a clamping device binding the overlapped end members on the shaft.

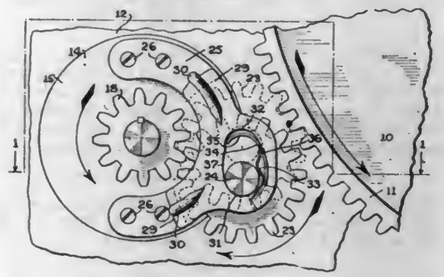
1,666,395. APPARATUS FOR SHARPENING HAND-SAWS. LOUIS S. MILLER, Los Angeles, Calif. Filed Oct. 21, 1925. Serial No. 64,008. 4 Claims. (Cl. 76—31.)

4. A saw sharpening apparatus comprising a saw holder including a plurality of spaced clamps and jaws in the form of angle bars between which a saw blade is adapted to be rigidly clamped throughout its length, the bars being arranged to provide vertical portions extending in opposite directions vertically and so as to dispose horizontal portions of the bars in different horizontal planes, a carriage comprising members having their confronting sides grooved to receive the edges of the horizontal portions of the angle bars so as to slidably support the carriage on the bars, one of said members having a lateral extension slidably associated with the other member, a clamping head on the other member, a socket member on the other member, means for securing the carriage member, clamping head and socket member together against relative movement, a file holder comprising adjustably connected frames slidably associated with the socket member and between which a file is adapted to be supported for engagement with the teeth of a saw in said jaws so that sharpening of the teeth of the saw will be effected upon reciproca-



tion of the file holder, and a gage comprising a body slidably mounted on one of the angle bars and having a fixed stop engageable by the said first member of the carriage for limiting the advancing movement of the carriage and an adjustable stop engaging the member for limiting the advancing movement of the gage.

1,666,396. ENGINE-STARTING APPARATUS. HAROLD PENDER, Philadelphia, Pa. Filed Jan. 22, 1920. Serial No. 353,328. 20 Claims. (Cl. 74—7.)



1. In engine starting apparatus, in combination, an engine driven gear, an auxiliary starting motor, a gear driven from said starting motor, a third gear, and means mounting said third gear in a position normally in engagement with said second gear and out of engagement with said first gear and laterally offset therefrom and shaped to permit bodily movement of said third gear and guide it laterally into mesh with said first gear in a path non-concentric with respect to the axis of said second gear upon said motor being driven in a predetermined direction.

1,666,397. TIRE CHAIN CLIP. JAMES L. PIATT, Wilkes-Barre, Pa., assignor to Paul S. Warriner, Wilkes-Barre, Pa. Filed June 25, 1927. Serial No. 201,396. 5 Claims. (Cl. 152—14.)

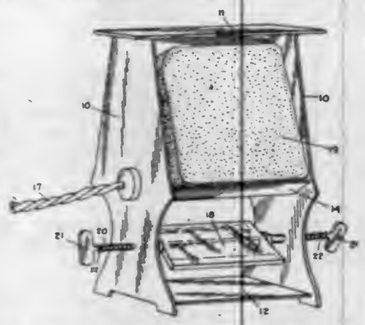


1. A tire chain clamp constructed to fit over the tread of the tire and clamp a portion of the chain contiguous opposite inclined sides inwardly of the widest part, said clamp being shaped to be out of contact with

said tire at its widest part to securely hold said chain against the tire under increase of the tire width with partial deflation.

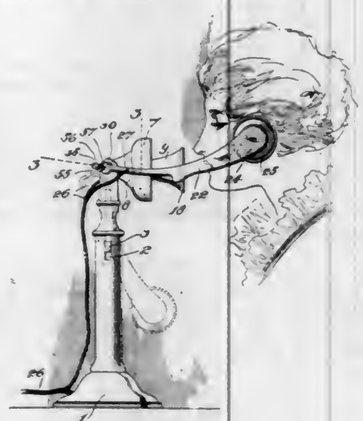
2. A tire clamp constructed to fit over the tire tread and cooperate with the opposite inclined sides of the tire inwardly of its widest part, said clamp being shaped to be out of contact with said tire at its widest part, the sides of said clamp being shaped to engage and retain a tire chain adjacent the tire and said clamp, and the clamping portions being shaped to facilitate sliding in and out on contact with the ground under lateral bulging of the tire and while clamping the sides of the tire.

1,666,398. VISIBLE TOASTER. GEORGE W. PIERCE, Lincoln, Nebr. Filed Sept. 27, 1927. Serial No. 222,307. 2 Claims. (Cl. 35—5.)



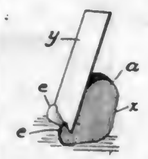
1. In combination with a toaster comprising a stand having a rack for supporting a slice of bread and a heating member spaced from said rack, a mirror adjustably secured to said stand and being adapted to reflect the bread surface which is being toasted, and means for yieldably holding said mirror in adjusted position.

1,666,399. TELEPHONE INSTRUMENT. JOHN J. RADEL, Newark, N. J. Filed Aug. 20, 1925. Serial No. 51,385. 6 Claims. (Cl. 179—153.)



1. A telephone-instrument comprising a standard having perforated ears, said standard being further provided with a make and break control, laterally extending rods mounted in said perforated ears, means upon said rods for preventing displacement of the same from said ears, a transmitter pivotally mounted upon portions of said rods, collars upon said rods, an arm pivotally mounted upon each rod against the collar thereon, a spring and adjusting nut upon each rod for maintaining the relative positions of the arms against said collars, each arm being provided with a rearwardly extending member, a receiver carried by each arm, and means associated with the members of said arms, whereby movement of one arm and its member will produce a movement of the other arm and its member, one of said arms cooperating with said make and break control.

1,666,400. PLACE-CARD SUPPORT. HARRY M. ROSE, Philadelphia, Pa. Filed Jan. 29, 1927. Serial No. 164,630. 1 Claim. (Cl. 40—149.)



An easel for place cards which comprises a sheet of cardboard whose lower edge is notched midway of its length and which otherwise extends substantially straight and is adapted to rest on a flat surface and whose upper edge is notched midway of its length, said notches being in vertical alignment and being adapted to facilitate the bending of a card on a vertical center line to form two hinged-together wings adapted to extend in planes diverging from such vertical center line, the free ends of the wings being provided with ears adjacent the lower edge, the upper edge of each wing being convexly curved in opposite directions from the upper central notch so as to extend sucessively upwardly from the upper central notch and thence downwardly to the end ears of the wings and merging therewith to form crotches adapted to support a place card along its lower edge, the width of each wing, measured vertically, being of maximum width along a vertical line relatively distant from its hinged and free ends.

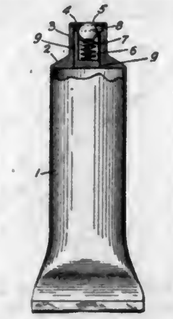
1,666,401. METAL TUBE. JULIUS L. SUSSMAN, Kew Gardens, N. Y., assignor to Steel & Tubes, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 10, 1925. Serial No. 68,154. 2 Claims. (Cl. 41—10.)



1. An ornamented tube, including a main tubular body portion made up of a strip of comparatively thick sheet metal with its side edges butt-welded together to form a longitudinal seam, and a strip of thinner metal extending substantially the full length of the tube and of such width and so bent as to cover more than one-half of the surface of the tube, said strip having a portion intermediate of its edges embossed to present an ornamental design and having its opposite parallel side edges extending inwardly and resiliently engaging the opposite sides of the tube, said second mentioned strip serving to cover the seam of the plane tube and having such resiliency that it is held in place solely by the frictional engagement with the plane tube and snugly adheres to the latter.

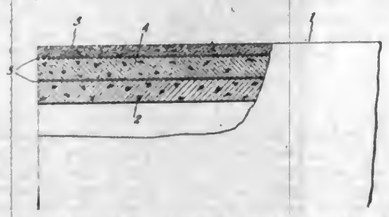
1,666,402. COLLAPSIBLE TUBE. ALEXANDER PAUL WOOD, Schenectady, N. Y., assignor of two-sevenths to Venie Wood Appel, New York, N. Y. Filed Nov. 6, 1925. Serial No. 67,220. 1 Claim. (Cl. 221—60.)

A tube provided with an outlet opening, said tube being also provided with a chamber therein and with a passageway forming communication between the interior of said tube and said outlet opening, a spring in said chamber and a ball engaged by said spring and movable into or out of said chamber, said ball normally closing said outlet opening under the influence of said spring,



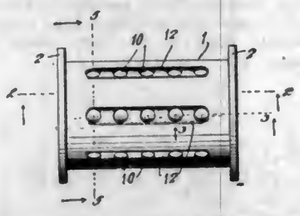
said ball being positioned in said chamber and extending into said passageway and being thereby subject to the influence of pressure of the contents of said tube therein for moving said ball away from said outlet opening and into said chamber.

1,666,403. PLATEN ROLLER FOR TYPEWRITERS. MIHRAN H. ALEXANIAN, Coytesville, N. J. Filed July 22, 1926. Serial No. 124,301. 2 Claims. (Cl. 91—67.8.)



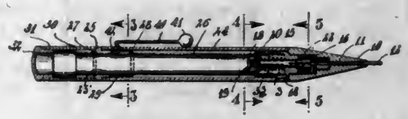
1. A platen roller having a velvety surface of finely divided cork, said surface formed on a more coarsely ground layer of cork, and means for cementing the two layers together.

1,666,404. SPOOL. HENRY BAUCKER, Newark, N. J., assignor to American Aluminum Ware Company, a Corporation of New Jersey. Filed Feb. 24, 1927. Serial No. 170,577. 2 Claims. (Cl. 242—118.)



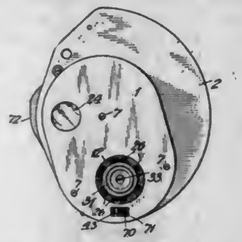
1. A spool comprising a substantially cylindrical tubular body, a pair of end plates of a diameter greater than that of said body and each having a central threaded opening and a countersink around one end of said opening, said plates each having a groove on its face opposite said countersink to receive one end of said body, and a tie member extending co-axially through said body and having its end portions threaded and each fitted into said opening in one of said end plates and its extremity upset into the corresponding countersink so as to overlie said end plate with the upset portion below the plane of the corresponding side of said end plate.

1,666,405. MAGAZINE PENCIL. MYRON H. CALDWELL and IDA GREEN, New York, N. Y.; said Green assignor to Arthur C. E. Hamilton, Mount Vernon, N. Y. Filed July 26, 1926. Serial No. 124,813. 2 Claims. (Cl. 120—17.)



1. In a magazine lead pencil, the combination with a pencil casing having arranged therein a slidable tube provided with a tapered portion urged against a locking sleeve by a spring to clamp a lead in position, passing therethrough, of a bushing attached to the casing, slidably supporting the tube, and formed with slots, a limiting element secured to the inner end of the tube, and provided with projecting elements slidably engaging in the said slots, and a cylinder formed with projecting curved cam elements engageable against the projecting elements of the limiting element, the said cylinder being rotatably mounted within the pencil, and adapted for manual turning, to move the tube against the action of its associated spring to unclamp the lead passing through the tube.

1,666,406. OPTICAL INSTRUMENT. HANS CLEMENT, New York, and BERNARD M. BARRON, Mount Vernon, N. Y., assignors to General Optical Company, Inc., a Corporation of New York. Filed Nov. 7, 1922. Serial No. 599,601. 17 Claims. (Cl. 88—22.)



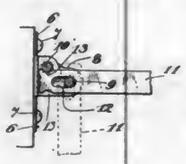
15. In an optical instrument, a supporting frame, a plurality of lens carrying elements supported by said frame for movement into eye examination positions singly and in various optical combination, transfer means between said elements for actuating one of them to bring a new lens into examination position for each movement of a given extent of the other element, and an indicating device separate from and connected to so as to be operated concomitantly with said other element and including means for indicating by successive direct individual readings the characteristics of the lenses and lens combinations which are in examination positions at any time.

1,666,407. GOGGLE NOSE BRIDGE. WILLIAM NEVINS COOK, New York, N. Y., assignor to E. B. Meyrowitz, Inc., a Corporation of New York. Filed Nov. 22, 1926. Serial No. 149,854. 10 Claims. (Cl. 88—43.)



6. A goggle comprising lens frames, a pair of nose-bridge members hinged thereto and having horizontal portions in telescopic engagement, one of said engaging portions being contractile, and means for contracting said engaging portion.

1,666,408. CURTAIN HOLDER. HUBERT DALTON, Stamford, Conn. Filed Oct. 21, 1926. Serial No. 143,035. 2 Claims. (Cl. 156—33.)



1. A curtain holder comprising a bracket member adapted to be attached to a window casing and having spaced parallel ears, a pair of pins extending between and fixed in said ears out of horizontal alignment with each other and spaced apart longitudinally of said ears, and a curtain holding arm formed of flat bar stock and slidably engaged at one of its ends between said ears and having a longitudinal slot through which one of said extends, and said arm being also provided in one of its longitudinal edges with a notch to receive the other of said pins when the arm is moved inwardly between the ears to thereby retain the arm in a horizontally disposed operative position and said arm adapted to be moved outwardly on the first named pin and disengaged from the second named pin to swing downwardly to a vertically pendant position.

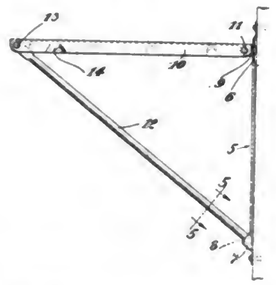
1,666,409. CURTAIN HOLDER. HUBERT DALTON, Stamford, Conn. Filed Oct. 21, 1926. Serial No. 143,036. 2 Claims. (Cl. 156—33.)



1. A curtain holder comprising a pair of separate bracket members adapted to be attached to a window frame in vertically spaced relation to each other, a pair of rods pivotally connected at one of their ends in such a manner as to be capable of suspension in longitudinal alignment or in angular relation, the other end of one rod being pivoted to the upper bracket member, and the other end of the second rod adapted to be detachably supported upon the lower bracket member to sustain said first named rod in a horizontally projecting position with respect to the upper bracket member, and transversely extending means adjacent the connected ends of said rods to prevent displacement of a supported curtain.

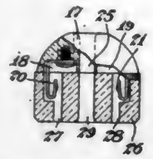
1,666,410. CURTAIN HOLDER. HUBERT DALTON, Stamford, Conn. Filed Oct. 21, 1926. Serial No. 143,037. 2 Claims. (Cl. 156—33.)

1. A curtain holder comprising an elongated bracket member adapted to be vertically positioned upon one side of a window frame and fixed thereto, said bracket member being formed of sheet metal with a longitudinally extending rib and at its lower end being provided with an apertured boss constituting a socket, a curtain holding arm pivotally connected at one of its ends with the upper end of said bracket plate, and a rod pivotally connected at one end to the other end of said arm and



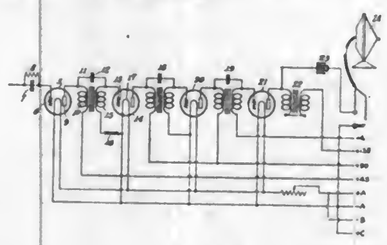
adapted to be engaged at its free end in said socket, to support said curtain holding arm in a substantially horizontal position with respect to the bracket plate.

1,666,411. ELECTRIC CONNECTER SOCKET. HENRY D'OLIER, Jr., Bridgeport, Conn. Filed Dec. 14, 1925. Serial No. 75,165. 4 Claims. (Cl. 173—343.)



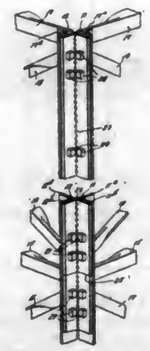
1. An electrical socket device for use with suspension means, and an electrical connecter provided with contacts and with a passage, associated therewith, said socket device including a body having plugging electrical contacts at one end for engagement with the contacts of the connecter, a hanger secured to and projecting from said body at said end thereof and adapted to project through the said passage and formed to be readily connectible to and disconnectible from the suspension means, and means at the opposite end of the body to support an electric light bulb.

1,666,412. AUDIOFREQUENCY AMPLIFIER. HAROLD P. DONLE, Meriden, Conn., assignor to Donle Electrical Products Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Oct. 16, 1926. Serial No. 141,998. 5 Claims. (Cl. 179—171.)



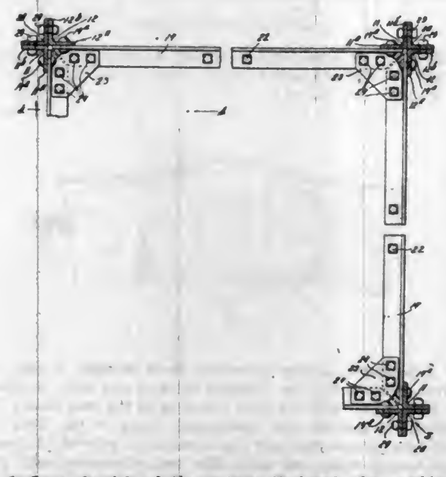
4. In an audio frequency amplifier having an inductive grid circuit, a resistance inserted in said circuit, said resistance having an impedance which is only a small fraction of the impedance of said circuit, but a resistance several times that of the total resistance of said circuit.

1,666,413. FABRICATED-DERRICK CONSTRUCTION. CLARENCE B. FOSTER, Glendale, Calif., assignor of one-sixth to Frederick L. Feisthamel, one-sixth to Arthur J. Carr, and one-sixth to Thomas A. Collins, Los Angeles, Calif. Filed July 17, 1926. Serial No. 123,136. 9 Claims. (Cl. 189—13.)



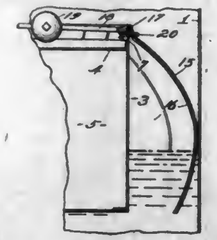
1. In a derrick of the nature disclosed, the combination of: adjacent sides each formed of a plurality of vertically aligned complete pre-assembled panel sections, with the panel sections of each side laterally spaced from those of the adjacent sides; intermediate corner legs disposed at the respective corners of the derrick and positioned between the horizontally adjacent panel sections; and means for securing said legs to said panel sections to connect the sides of the derrick together.

1,666,414. FABRICATED DERRICK. CLARENCE B. FOSTER, Glendale, Calif., assignor of one-sixth to Frederick L. Feisthamel, one-sixth to Arthur J. Carr, and one-sixth to Thomas A. Collins, Los Angeles, Calif. Filed July 17, 1926. Serial No. 123,137. 11 Claims. (Cl. 189—13.)



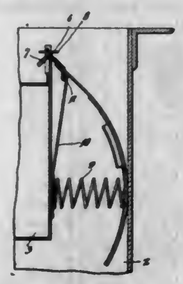
1. In a derrick of the nature disclosed, the combination of: adjacent sides each formed of a plurality of vertically aligned complete pre-assembled panel sections, with the panel sections of each side laterally spaced from those of the adjacent sides; intermediate corner legs disposed at the respective corners of the derrick and positioned between the horizontally adjacent panel sections; means for securing said legs to said panel sections to connect the sides of the derrick together; and means for connecting the panel sections of the adjacent sides independently of the intermediate corner legs.

1,666,415. FLOATING DECK OR COVER FOR OIL TANKS. CHARLES R. GALLAGHER, Fullerton, Calif., assignor to Universal Holding Company, Los Angeles, Calif., a Corporation of Delaware. Filed Sept. 22, 1924. Serial No. 739,122. 7 Claims. (Cl. 220—26.)



3. A buoyant deck for oil tanks having a circular series of sealing plates surrounding and pivotally mounted on the deck and adapted to move in vertical planes, the upper ends of said sealing plates being pivoted to the deck and the sealing plates being curved outwardly into engagement with the oil tank and hence curved inwardly and terminating in the liquid supporting the deck.

1,666,416. FLOATING DECK. ALVAH M. GRIFFIN, Los Angeles, Calif., assignor to Universal Holding Company, Los Angeles, Calif., a Corporation of Delaware. Filed Sept. 27, 1926. Serial No. 137,940. 5 Claims. (Cl. 220—26.)

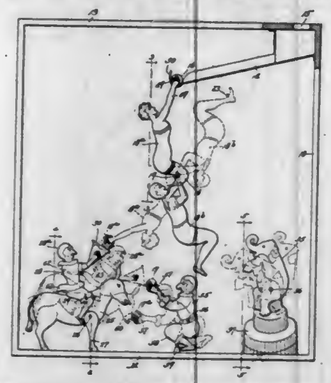


1. A floating deck for oil tanks having a circular series of sealing plates surrounding and pivotally mounted on the deck, the sealing plates being adapted to swing outwardly into engagement with the tank wall, springs normally urging said sealing plates into an outer position, and spring supporting bars engaging the inner ends of said springs, said spring supporting bars being secured to said sealing plates at one end and depending therefrom the other end of the spring supporting bars engaging and supporting said springs.

1,666,417. GRAVITY-OPERATED FIGURE TOY. WILLIAM W. HARRIS, New York, N. Y. Filed July 7, 1923. Serial No. 650,181. 2 Claims. (Cl. 46—40.)

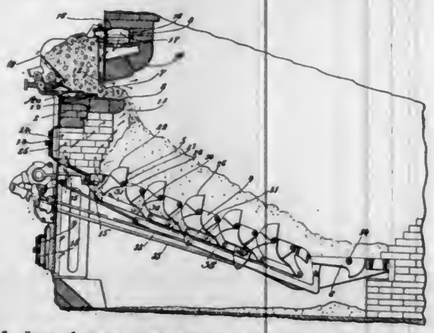
1. In a gravity operated figure toy, the combination of an upright support, a base for the supports, a runway for marbles on said background, a figure pivotally mounted on said support and having a receiving and holding device positioned to receive a marble when delivered from said runway, said figure being pivoted slightly above its center of gravity, said marble receiving and holding device serving to transfer the marble while said figure is rotated from its upright position to a position horizontally below

its pivot, a second figure pivotally mounted on said support and including a device for receiving a marble, said second-named figure being pivoted at a point substantially below its center of gravity, said marble receiving device being positioned to receive a marble after transfer thereto by said marble receiving and holding device of said first-named figure and a third figure pivotally mount-



ed on said support and disposed to normally hold said second figure in a predetermined position, whereby upon placing a marble in said runway, said marble successively rotates said first-named figure, and is transferred by said first-named figure to said second-named figure, and said second-named figure is rotated directly by said marble and indirectly rotates said third-named figure.

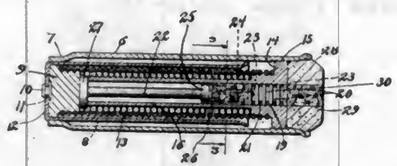
1,666,418. FURNACE. CHARLES J. HUSER, Baltimore, Md. Filed Dec. 16, 1925. Serial No. 75,675. 3 Claims. (Cl. 110—32.)



1. In a furnace having a feed opening, a grate, a coking shelf extending backward into the furnace at the lower side of the feed opening, above the grate and above the normal position of the fuel on the grate, a top wall exposed to radiation from the fire and extending backward above the shelf, the coking shelf and top wall being of heavy resistive material and serving as heat reservoirs to store heat and transmit it to the fuel, the furnace structure comprising a free and unobstructed passage for admitting outside air beneath and forward of the shelf, and a passage admitting air to the feed opening at the top surface of the fuel on the shelf.

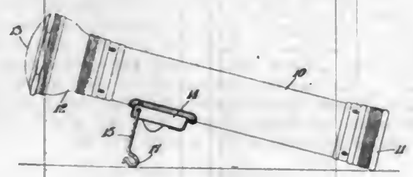
1,666,419. PISTON-PRESSURE GAUGE. JAMES F. KEY, Sierra Madre, Calif., assignor to First Trust & Savings Bank of Pasadena, trustee, Pasadena, Calif. Filed Apr. 1, 1925. Serial No. 19,815. 10 Claims. (Cl. 73—111.)

1. An air gauge comprising a barrel, a hollow plunger slidably mounted in the barrel and having a head, a coil spring means connecting one end of the spring to the barrel, means connecting the other end of the spring to the plunger, a cylinder inside of the plunger rigid with the barrel, a piston in the cylinder, a piston rod between the



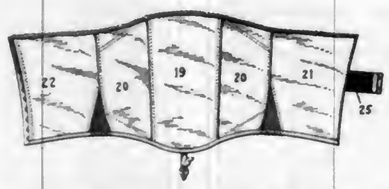
piston and plunger head, a swab on the piston rod, and a sealing member in the end of the barrel adjacent the piston, and having an opening communicating with the bore of the cylinder.

1,666,420. FLASH LIGHT. HARRY M. KORETZKY, Hoboken, N. J., assignor to Bright Star Battery Company Inc., Hoboken, N. J., a Corporation of New York. Filed July 21, 1927. Serial No. 207,358. 3 Claims. (Cl. 240—10.5.)



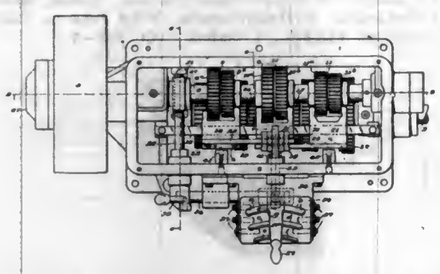
1. In a flashlight, a casing, a contact box on said casing, a bail pivotally connected to said contact box and being arranged to extend around said contact box when not in use, and means for maintaining said bail in angular relation to said casing.

1,666,421. BRASSIÈRE. JOSEPH W. KRAUSE, Brooklyn, N. Y. Filed Apr. 11, 1927. Serial No. 182,589. 1 Claim. (Cl. 2—42.)



A brassière having a central front section, a pair of front side sections on opposite sides of the front section, a pair of rear sections each attached to the rear edge of a respective side section, reinforcing tapes at the lines of junction of the rear and side sections, a pair of diagonal reinforcing tapes on each side section respectively extending downwardly from the upper corner and upwardly from the lower corner of the adjacent side of the center section and terminating at the first mentioned tapes, tabs secured to the body of the garment on the inner side thereof at the junctions of the diagonal and first mentioned tapes, waist belt members extending from said tabs, means to connect the free edges of the back members, and means to connect said waist belt members.

1,666,422. MASTER RADIAL-DRILL SPEED BOX. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 10, 1925. Serial No. 8,184. 4 Claims. (Cl. 74—57.)

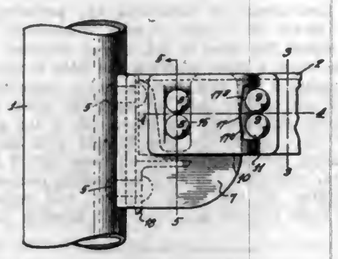


3. A speed box for machine-tools combining a casing; driving and driven shafts journaled in said casing; a plurality of gears splined upon the other of said shafts; means including a single lever for selectively shifting the splined gears into mesh with said fixed gears; a lever-controlling plate having a plurality of connected substantially parallel slots each affording an operative position for said lever; and adjustable stops for limiting the movement of said lever in said slots.

1,666,423. PROCESS OF STAINING AND HARDENING CONCRETE AND THE LIKE. ROBERT B. LAMMENS, Los Angeles, Calif. Filed Apr. 2, 1923. Serial No. 629,533. 3 Claims. (Cl. 41—41.)

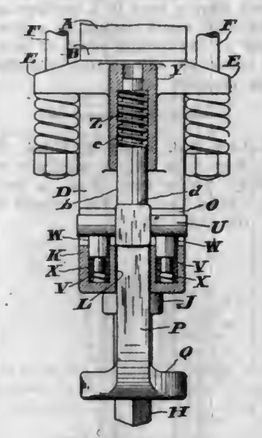
1. In a process for treating concrete or the like, introducing a solution of one coloring reagent, and then introducing a solution of another coloring reagent to react with the first mentioned reagent to produce the desired color; each solution also containing in addition to its coloring re-agent a substance capable of producing a relatively high osmotic pressure.

1,666,424. BED LOCK. LOUIS N. LUMB, Astoria, N. Y. Filed July 30, 1925. Serial No. 46,944. 4 Claims. (Cl. 5—294.)



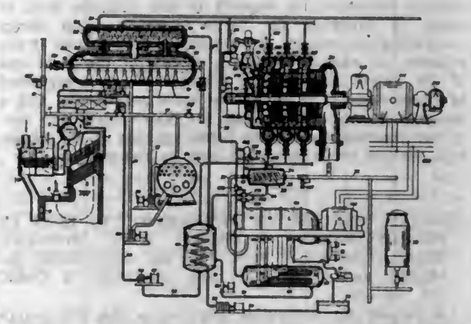
1. In a bed lock, the combination with a corner post and a side rail, of a wedge member permanently secured to the corner post and embodying an upstanding wedge, and an attaching plate permanently secured to the side rail and embossed to provide spaced apart abutments forming between them a constriction tapering both upwardly and downwardly to permit tight engagement of the wedge with said abutments when engaged thereby in either direction, and rivets passing through the embossed portions of the plate and through the side rail to secure said plate to the rail.

1,666,425. STEEL RETAINER. JOHN F. MOCK, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 7, 1927. Serial No. 181,732. 2 Claims. (Cl. 121—32.)



2. A steel retainer for a rock drill, comprising in combination with a front head and a collared working implement, a lug on the side of the front head having a longitudinal slot and a transverse slot, a retainer encircling the implement forwardly of its collar to retain said implement in the front head, one arm integral with the retainer guided by the longitudinal slot, a pin in the arm rotatable in the transverse slot to form a pivot for the retainer, said pin also being slidable in said transverse slot longitudinally of the front head, plungers in the lug acting on the pin to support the retainer, springs acting against the plungers to absorb the impact of the implement against the retainer, and a spring pressed plunger in the front head pressing against the free end of the arm to hold the retainer in retaining and releasing positions.

1,666,426. STEAM PLANT. JOHANNES RUTHS, Djursholm, Sweden. Filed Dec. 27, 1924, Serial No. 758,438, and in Germany and Sweden Jan. 14, 1924. 19 Claims. (Cl. 122—35.)

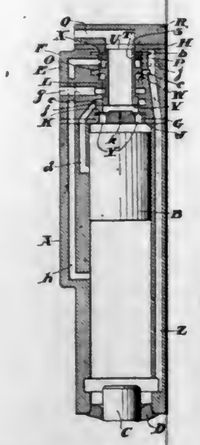


1. In a steam plant, in combination, a boiler containing a medium of high boiling point, said boiler generating vapor therefrom at a rate corresponding to the rate of supply of heat thereto, an accumulator, means to conduct vapor from said boiler to said accumulator, said accumulator operating independently of the supply

of vapor thereto and under variations of pressure corresponding to variations in state of charge; a steam generating element situated in said accumulator and means to conduct water to said steam generating element.

15. The method of generating high pressure steam which comprises storing heat in a medium of high boiling point, producing vapor thereof in proportion to demand for steam by the cooling effect of water and condensing said vapor by said water, thereby producing steam of high pressure.

1,666,427. VALVE FOR ROCK DRILLS. WILLIAM A. SMITH, Jr., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 1, 1926. Serial No. 151,954. 2 Claims. (Cl. 121—26.)

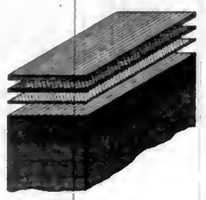


1. In a fluid actuated rock drill, the combination of a cylinder, a hammer piston in the cylinder, a valve chest having a valve chamber closed at its front end, inlet passages leading from the valve chamber to the cylinder, a valve in the valve chamber having a bore therethrough, said bore being in constant communication with a source of pressure fluid supply, an actuating surface on the rearward end of the valve constantly exposed to live pressure fluid for throwing the valve forwardly, a flange on the valve having an actuating surface intermittently exposed to live pressure fluid to assist in throwing the valve forwardly, said flange controlling the exhaust of fluid from the front end of the cylinder, an annular actuating surface at the front end of the valve intermittently exposed to air compressed by the piston for throwing the valve rearwardly, and a passage in the cylinder and the valve chest for conveying pressure fluid to the actuating face on the flange, said passage being controlled only by the piston.

1,666,428. PROCESS OF PREPARING PIG IRON IN HIGHLY-HEATED MIXERS. KARL STORRAWA, Gleiwitz, Germany. Filed Jan. 22, 1927, Serial No. 162,932, and in Germany Feb. 16, 1926. 1 Claim. (Cl. 75—27.)

A process for preheating pig-iron in the flat hearth mixer (highly heated mixer) consisting in supplying to the pig-iron, which latter is rich in carbon, low carbon scrap iron preheated at a temperature as close as possible to the melting point by means of a source of heat independent from the mixer, whereby an immediate carburation of said low carbon scrap iron and a lower melting point of same occurs in order to maintain substantially constant the percentage of manganese contained in the pig-iron to be treated and to diminish accordingly the percentage of silicon, carbon and phosphorus.

1,666,429. ROOFING. CHARLES STOLP, Jr., Chicago, Ill., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed June 14, 1923. Serial No. 645,440. 7 Claims. (Cl. 108—7.)



1. A shingle package comprising shingles of different colors arranged in a predetermined irregular color sequence, whereby such shingles may be laid with facility in such sequence on a roof without forming a distinctive pattern.

1,666,430. INSTRUMENT FOR MEASURING THE PERIMETER OF TEETH. FELIX TIZZANI, Lyon, France. Filed Aug. 5, 1927, Serial No. 210,969, and in France May 9, 1927. 3 Claims. (Cl. 33—179.)

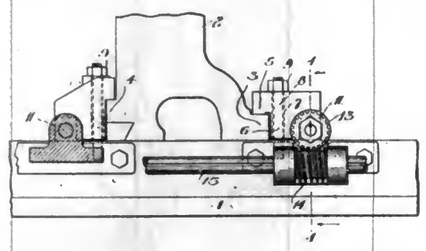


1. An instrument for measuring the perimeter of a tooth by means of a loop of wire, comprising a tube through which the wire is led, a cup attached to one end of the tube, a spool whereon the wire is wound rotatably mounted in said cup, a cover removably attached to the cup to hold the spool in place therein, and a device attached to the other end of the tube for clamping the ends of the loop formed with the wire; said clamping device embodying an inner ogival member fixed to the tube end, and an outer conical member movably mounted on the inner member and cooperating with the same to grip said loop ends between them.

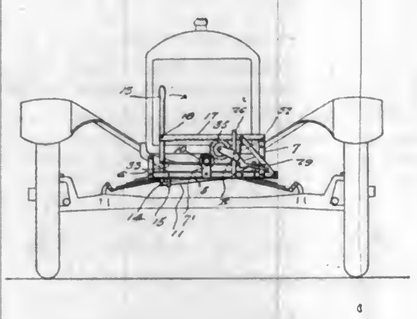
1,666,431. CROSS-RAIL CLAMPING MECHANISM FOR MACHINE TOOLS. ALFRED TROSCH, Rochester, N. Y., assignor to Consolidated Machine Tool Corporation of America, Rochester, N. Y., a Corporation of Delaware. Filed May 4, 1925. Serial No. 27,790. 9 Claims. (Cl. 90—37.)

5. The combination with the uprights and cross-rail of a machine tool such as a planer, of means for clamping the cross-rail to the uprights including a tiltable clamping member for each of the inner and outer edges of the uprights, a vertically movable wedge actuator for each clamping member, a vertically arranged screw

for elevating or lowering each wedge actuator, and means carried by the cross-rail for simultaneously operating said screws, said operating means extending along the cross-rail beyond both uprights and operable from one end of the cross-rail.



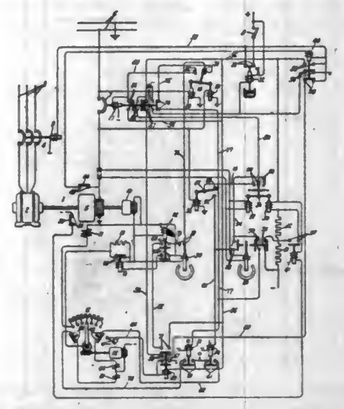
1,666,432. AUTOMOBILE ENGINE-CRANKING APPARATUS. WILLIAM D. VINEY, Saltfork, Okla. Filed Apr. 22, 1927. Serial No. 185,719. 3 Claims. (Cl. 74—54.)



1. In a cranking apparatus of the class described, a bar adapted to be mounted transversely and horizontally at the front of an engine, a shaft, means for journaling the shaft on the bar, a gear on the shaft, a rocker, means for pivotally mounting the rocker intermediate its ends on the bar, a combined gear and ratchet wheel journaled on one end of the rocker, a lever, means for rockably mounting the lever on the bar, a ratchet bar on the lever engageable with the ratchet wheel of the combined ratchet wheel and gear, and spring means for normally swinging the rocker to mesh the gear of its combined ratchet wheel and gear structure with the first mentioned gear.

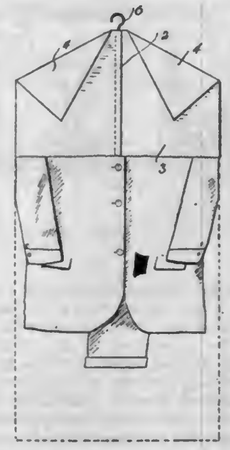
1,666,433. SYSTEM OF ELECTRIC DISTRIBUTION. BENJAMIN S. WEINFIELD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 28, 1926. Serial No. 118,894. 10 Claims. (Cl. 171—312.)

1. In a system of electric distribution, a source of current, and current responsive means for controlling the current output of said source comprising a differential relay having two opposing windings, one of which is energized



in accordance with the current output of said source, and means responsive to the temperature of said source for varying the excitation of the other winding of said relay.

1,666,434. GARMENT CONTAINER. GEORGE WORDINGHAM, Milwaukee, Wis. Filed July 6, 1927. Serial No. 203,815. 3 Claims. (Cl. 206—7.)

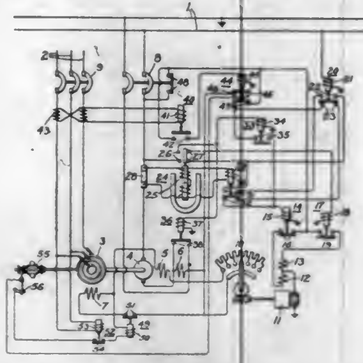


1. A garment shield comprising an elongated body adapted to be disposed about a garment suspended upon a hanger and having a closed upper end provided with an opening for a suspending element of the hanger, said body being provided with a weakened portion extending transversely across it in spaced relation to its upper end whereby its lower portion may be readily detached without removing its upper portion from about the garment and its hanger.

1,666,435. SYSTEM OF ELECTRIC DISTRIBUTION. HERMAN BANY, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 8, 1926, Serial No. 80,050. Renewed Feb. 4, 1928. 18 Claims. (Cl. 171—312.)

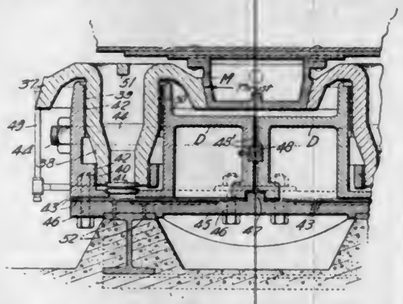
1. In a system of distribution, an electric circuit, a source of current connected to said circuit, a relay re-

sponsive to the direction of current flow between said source and circuit, and means controlled by the relay



for adjusting the voltage of said source to terminate a flow of energy from said circuit to said source irrespectively of the voltage of said circuit.

1,666,436. THRUST ROLLER. RICHARD BERNHARD, Allentown, Pa., assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa., a Corporation of Delaware. Filed Mar. 14, 1927. Serial No. 175,369. 1 Claim. (Cl. 308—204.)

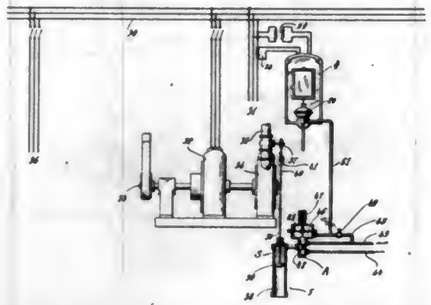


In a roller bearing device for receiving the end thrust of a rotary kiln, a bearing box open at its top and having upper and lower bearings therein, a roller having a shank portion adapted to be received in said bearing box and provided with upper and lower bearings to engage the corresponding bearings in the bearing box, said roller having an overhanging portion constituting an extension of the shank portion, said overhanging portion having a conical thrust receiving surface adapted to contact with a corresponding surface on the tire of the rotary kiln to receive the thrust, said thrust receiving surface and said upper bearing of the roller being substantially in alignment with each other, and with the line of thrust so that they may both be intersected by a common horizontal plane including the line of thrust, the bearings in said bearing box being adapted to be entirely and continually submerged in oil.

1,666,437. PROCESS OF MANUFACTURING FORMIC ACID. GUY H. BUCHANAN, Westfield, and JOHN L. OSBORNE, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Dec. 10, 1923. Serial No. 679,822. 10 Claims. (Cl. 260—118.)

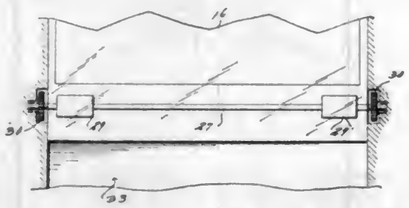
1. A method of producing formic acid which comprises adding formic acid to an alkali earth metal formate, treating the same with a non-volatile acid capable of decomposing the same, and boiling off the formic acid formed.

1,666,438. ELECTRIC POWER REGULATION. RAGNAR CARLSTEDT, Stockholm, Sweden, assignor to Arca Regulators, Incorporated, New York, N. Y., a Corporation of Virginia. Filed June 11, 1924, Serial No. 719,348, and in Sweden June 27, 1923. 6 Claims. (Cl. 137—158.)



1. Electric power regulating apparatus comprising a movable watt responsive member, a main control member, liquid pressure operated means to control said main control member, a housing, means forming a passage-way having an outlet for discharging a continuously flowing stream of liquid into said housing, a restriction in said passageway, a lever mounted to control the outflow of liquid from said passage-way, means to move said lever in accordance with variations in the watt responsive member, and means whereby changes in liquid pressure in said passage-way between the outlet and the restriction caused by movements of said lever affect the liquid pressure operated means.

1,666,439. PERAMBULATOR. ELIGIO CHECCONI, Pueblo, Colo. Filed Apr. 23, 1927. Serial No. 186,067. 2 Claims. (Cl. 268—122.)

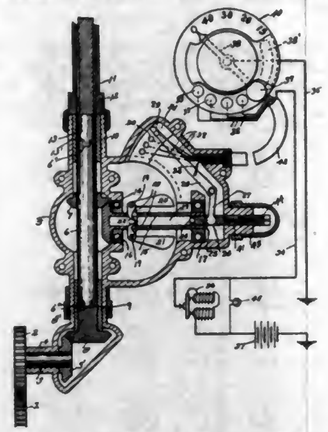


1. In a structure of the character described having a window opening, a window pane slidingly mounted in said opening, the body being provided with recesses into which said pane is disposed when the pane is lowered, and means operable from the exterior of the body whereby the pane may be raised and lowered, said means including a pair of oppositely disposed shafts on the inner and outer faces of the pane, such shafts having yielding rollers engaged with the pane, means gearing the two shafts to each other for coincident movement, and means on the exterior of the body whereby one of said shafts may be manually rotated.

1,666,440. SEPARATION OF HAFNIUM AND ZIRCONIUM. DIRK COSTER, Haarlem, Netherlands, and GEORG VON HEVESY, Copenhagen, Denmark, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven. Filed July 15, 1924, Serial No. 726,173, and in Denmark July 18, 1923. 4 Claims. (Cl. 23—23.)

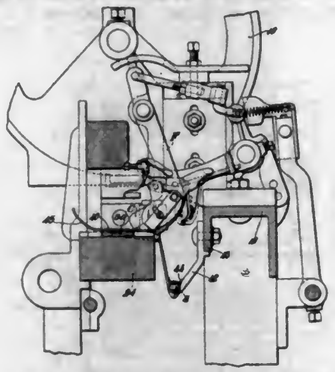
1. The process of separating hafnium and zirconium, characterized by submitting halogen compounds of hafnium and zirconium to fractional separation.

1,666,441. AUTOMOBILE SPEED-WARNING SIGNALING DEVICE. WILLIAM JAMES CRAFT, Los Angeles, and OTTO M. CLINTON, Glendale, Calif. Filed Apr. 11, 1925. Serial No. 22,400. 3 Claims. (Cl. 200—80.)



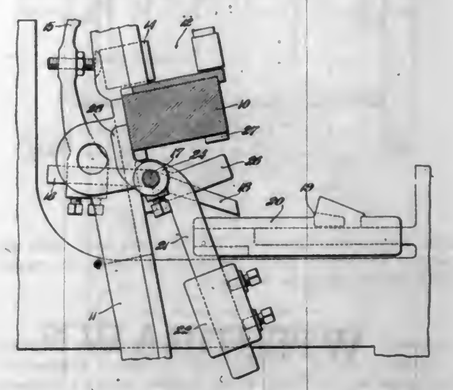
1. In a device of the character described, comprising an electrically energized mechanical structure adaptable for attachment to the speedometer actuating means of motor vehicles, a shaft operatively connected therewith, a tubular hub, a gear on said hub and engaging with a gear mounted on said drive shaft, a plunger disposed in said hub, a pair of weight and finger members pivoted to said tubular hub, said finger members engaging said plunger, a seating block, a ball positioned within said hub and engaging said seating block, said plunger engaging with said ball, a lever, said plunger, ball and seating block forming an actuating means for moving said lever, and a spring member for tensioning the movement of same.

1,666,442. SHUTTLE-FEELER THREAD CUTTER. CLARE H. DRAPER, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 18, 1925. Serial No. 76,203. 6 Claims. (Cl. 139—260.)



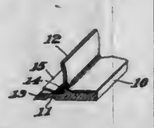
1. In a weft replenishing loom, the combination of the lay, a shuttle feeler provided with a thread severing device, and a thread depressor pivotally mounted independently of the shuttle feeler on a stationary part of the loom in front of the lay and extending rearwardly to normally engage and depress the thread on each alternate beat-up movement of the lay that the normal action of the thread depressor may serve to position the thread for the shuttle feeler severing device on the occurrence of replenishment of weft.

1,666,443. SHUTTLE-TENSION-CONTROLLING MECHANISM FOR LOOMS. CLARE H. DRAPER, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 18, 1925. Serial No. 76,204. 7 Claims. (Cl. 139—187.)



1. Shuttle box tension controlling mechanism for weft replenishing looms of the bobbin changing type having, in combination, a lay, a shuttle, a binder, a spring actuated dagger rod on the lay, binder fingers on the dagger rod, an inertia arm on the dagger rod provided with a weight below the dagger rod, and means for preventing the inertia arm and weight from acting on the binders during shuttle boxing.

1,666,444. WELTING AND METHOD OF MAKING SAME. WILLIAM J. FALLON, Jr., Boston, Mass. Filed May 16, 1927. Serial No. 191,642. 5 Claims. (Cl. 36—78.)

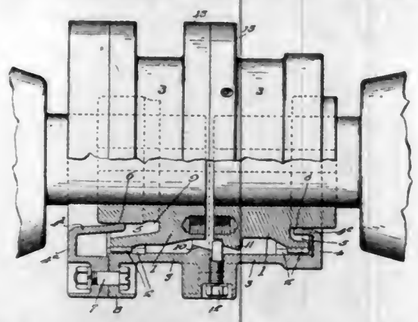


1. The method of forming a bead upon a strip of welting, which consists in incising the body of the strip of welting longitudinally to form a flap, cutting a triangular strip from the edge of the incised portion of the welting so that the width of the incised face of the welting is decreased while the original width of the welting is preserved and the welting is given a beveled edge, inserting said triangular strip as a filler under the flap to cause the latter to form a bead, and securing the flap to the incised portion of the welting over said filler.

1,666,445. FLEXIBLE SHAFT COUPLING. GUSTAVE FAST, Annapolis, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 17, 1925, Serial No. 16,191. Renewed Apr. 16, 1927. 14 Claims. (Cl. 64—91.)

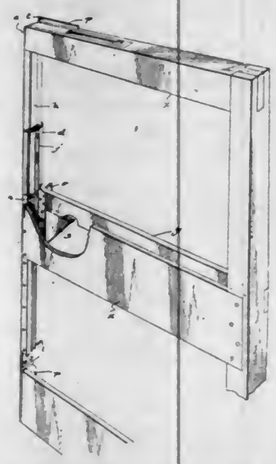
1. A flexible shaft coupling comprising shaft hubs each having an annular row of teeth, a sleeve having an annular row of teeth at each end to mesh with the teeth of the shaft hubs, said coupling having a bearing at each end between it and the shaft hubs, in a plane transverse to and intermediate the length of the inter-

meshing teeth, each of said bearings comprising members relatively rockable and slidable, the sleeve being shiftable to a position to disengage the teeth at one end thereof



from their companion teeth on the shaft hub, while the teeth at the other end of the coupling remain in engagement, substantially as described.

1,666,446. DOOR STILE FOR AUTOMOBILE BODIES. ALFRED JOSEPH FISHER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 14, 1926. Serial No. 115,802. 6 Claims. (Cl. 296—44.)

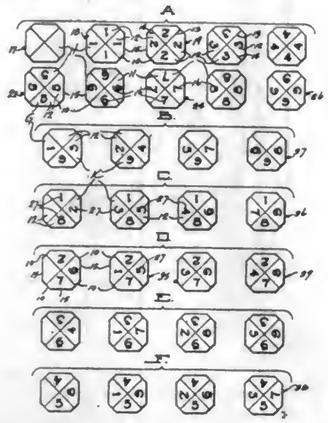


1. A door stile, comprising a heavy metal gage strip, an angle strip of lighter gage welded thereto and having an outwardly projecting flange, filler strips welded to the inside face of the base strip, a sheet metal panel folded around the outwardly projecting flange of the thin metal strip, and inside garnish molding supported on the inside face of the base strip, and a window guide supported on the face of the filler strips and held in place by the panel and the garnish molding.

1,666,447. PROCESS FOR THE OXIDATION OF ALCOHOL. STEFAN GOLDSCHMIDT, Karlsruhe, Germany. Filed Dec. 16, 1927, Serial No. 240,611, and in Germany Nov. 12, 1926. 18 Claims. (Cl. 260—138.)

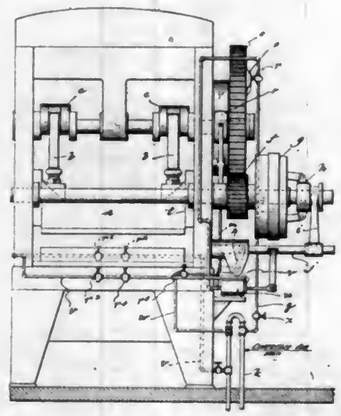
1. A process for oxidizing ethylalcohol to acetaldehyde and acetic acid with the use of silver as a catalyst and of a mixture of ethylalcohol and air, wherein the oxidation occurs at a temperature of the catalyst of 380–440° C.

1,666,448. GAME. HELION D. HARDENSTEIN, Oklahoma City, Okla. Refile for abandoned application Serial No. 529,259, filed Jan. 14, 1922. This application filed Jan. 30, 1928. Serial No. 250,658. 4 Claims. (Cl. 273—137.)



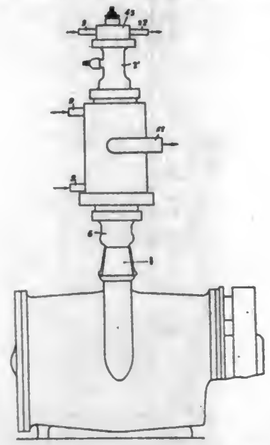
1. A game comprising in combination a plurality of polygonal shaped blocks having a face of each quadrangularly spaced, a numerical delineation of varying suit in each space of said faces, the delineations of predetermined spaces of each block having a resultant common to similarly positioned delineations of each of the several blocks, and a block for each suit as determined by the delineations of said first mentioned blocks, said block of each suit having similar delineations of its respective suit thereon, all of said blocks adapted for progressive arrangement by matching delineations of different blocks to offset numerical calculations.

1,666,449. FLUID-PRESSURE CONTROL FOR PRESSES. JOHN A. HINGER, DAVID B. MAYER, and JAMES WILSON, Cleveland, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 6, 1925. Serial No. 7,234. 6 Claims. (Cl. 192—81.)



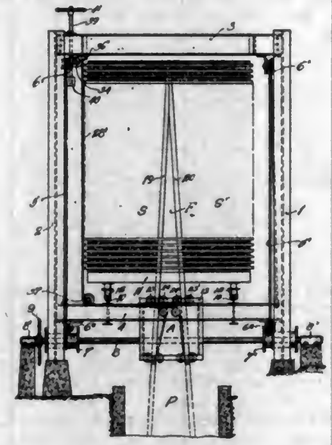
1. A control for presses, having in combination with a press and a shifting member which starts and stops the press, of a fluid pressure system for controlling the shifting member, including a plurality of valves on opposite sides of said press and that require simultaneous actuation to start the press and including one or more emergency valves independent of said first mentioned valves and which may be actuated to stop the press at any time.

1,666,450. THERMIONIC APPARATUS. FERNAND HOLWECK, Paris, France. Filed Oct. 22, 1923, Serial No. 670,188, and in France Oct. 27, 1922. Renewed Mar. 9, 1928. 1 Claim. (Cl. 250—27.5.)



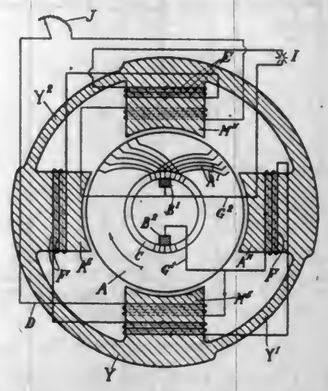
Thermionic apparatus, comprising a three-electrode valve, a pump for creating a vacuum at will in the valve, and a tube of large diameter but short length connecting the valve and pump together to form a single unit and having gas-tight, frusto-conical joints with said valve and pump; said valve embodying a metallic head whereon the electrodes are mounted, an insulating sleeve separating said head from the plate electrode, a frusto-conical joint surmounting the sleeve, and means for supplying cool water to cool the valve joints.

1,666,451. STACK SHAPER. FREDERICK W. HORSTKOTTE, Portland, Oreg. Filed Aug. 2, 1926. Serial No. 126,013. 8 Claims. (Cl. 214—6.)



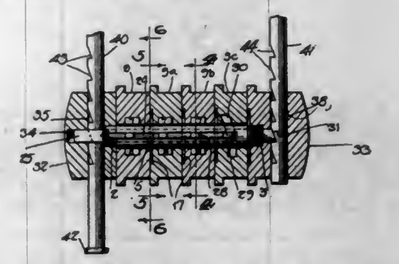
1. In a stack shaper the combination with a main frame, a vertically movable platform, and supporting means whereby the platform may successively be suspended at lower levels, of a pair of upright guide bars carried by the platform, and means on the main frame for retaining the guide bars in elevated position as the platform descends.

1,666,452. GENERATOR FOR ELECTRIC-ARC WELDING. MALCOLM MILLER IRVINE, Glasgow, Scotland. Filed Feb. 15, 1927, Serial No. 168,880, and in Great Britain Feb. 19, 1926. 7 Claims. (Cl. 171—223.)



1. A generator for electric arc welding, comprising, in combination, a field magnet wherein each complete pole is split into two parts, a main part and an auxiliary part; an armature having a winding with a coil span of approximately half the normal pole pitch; means for collecting current generated in the armature winding by the main pole parts only and a shunt winding on the main pole parts connected across said collecting means.

1,666,453. PERMUTATION PADLOCK. GYURO E. B. JAKOPETS, Chicago, Ill., assignor to Jack Salley, Chicago, Ill. Filed Feb. 28, 1927. Serial No. 171,654. 9 Claims. (Cl. 70—113.)

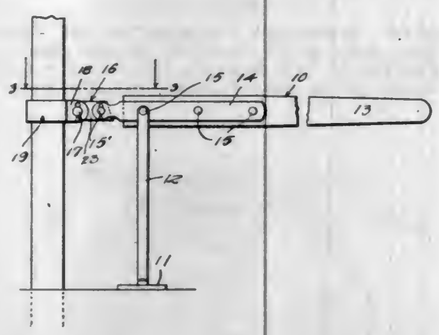


1. In a permutation padlock of the character described, a barrel, a latch bolt slidable therein, end blocks supporting the barrel and latch bolt, rotatable tumblers on the barrel between the end blocks, a shackle having legs slidably passing through the end blocks and engaged with the opposite ends of the latch bolt and one of said tumblers cooperating with the latch bolt for axially shifting the same to disengage the latch bolt from the shackle legs.

1,666,454. FENCE-POST PULLER. HJALMAR F. JOHNSON, Bismarck, N. Dak. Filed Apr. 2, 1927. Serial No. 180,489. 2 Claims. (Cl. 254—132.)

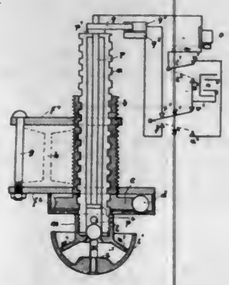
1. In combination, a lever, a ground engaging fulcrum therefor and permanently pivotally connected therewith, a U-shaped dog, a pivot extending through the

arms of the dog adjacent one end thereof and through one end of the lever, a pivot carried by the dog at the approximate center thereof, a clevis having arms en-



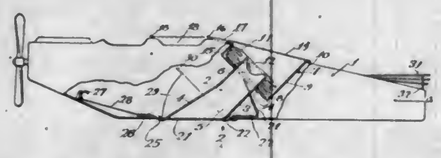
gaging said pivot and a cross bar confronting the free end of the dog, the free end of the dog and cross bar of the clevis being constructed for clamping engagement with opposite faces of a fence post.

1,666,455. LIFTING JACK FOR VEHICLES. JOSEPH KLEE and ALFONS SCHNEIDER, Munich, Germany. Filed Sept. 2, 1925, Serial No. 54,083, and in Germany July 7, 1925. 2 Claims. (Cl. 254—86.)



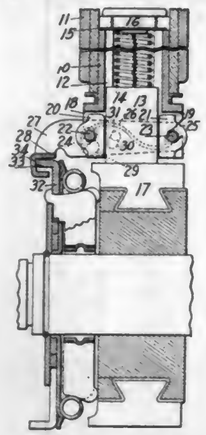
1. A vehicle jack comprising a tubular casing, a threaded spindle adapted to engage the thread on the inside of said casing, means for rotating said spindle, a thread on the outside of said casing, and brackets defining threaded holes seated on said casing and adapted to engage between them a part of the vehicle.

1,666,456. PARACHUTE CONTAINER AND EJECTOR FOR AEROPLANES. JOSEPH LA PORTE, Lomita, Calif. Filed Oct. 20, 1926. Serial No. 142,914. 6 Claims. (Cl. 244—21.)



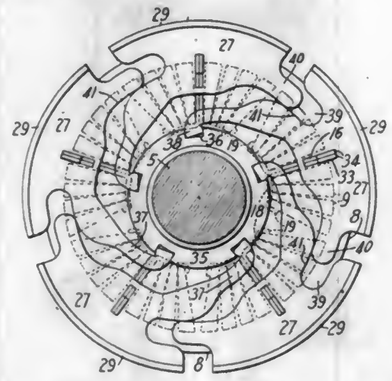
1. In the art described, the combination of an aeroplane having a container, a parachute housed therein, an air passage through the aeroplane to the container to eject the parachute, means to open and close said passage, and a cage at the rear end of the aeroplane to guide the parachute clear of control rudders or the like.

1,666,457. BRUSH LIFTER FOR ELECTRIC MOTORS OR THE LIKE. GEORGE H. LELAND, Dayton, Ohio. Filed Mar. 22, 1926. Serial No. 96,509. 9 Claims. (Cl. 172—279.)



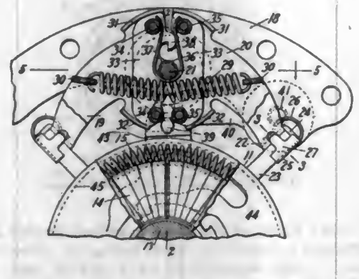
1. In a device of the character described, a brush holder having a guideway and openings in opposite walls thereof, brush engaging members mounted in the respective openings, yieldable means acting on said members to move them into engagement with a brush in said guideway, an actuating device connected with said brush engaging members and having means to hold the same in inoperative position when said actuating device is in one position and to release the same for movement by said yieldable means when said actuating device is in another position.

1,666,458. CENTRIFUGAL DEVICE. GEORGE H. LELAND, Dayton, Ohio. Original application filed Mar. 18, 1926, Serial No. 95,579. Divided and this application filed Jan. 5, 1927. Serial No. 159,141. 8 Claims. (Cl. 264—16.)



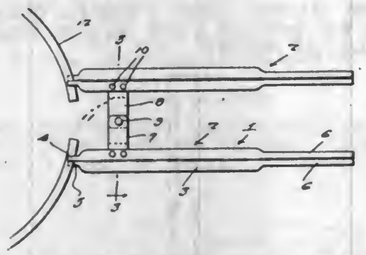
1. In a mechanism for controlling an operable device and in combination with a rotatable member, an annular series of weights arranged about the axis of said rotatable member, movable radially by centrifugal force and having means to connect the same with said operable device, said weights having at their adjacent ends overlapping parts arranged to contact one with the other in all positions of said weights and to have sliding movement one on the other when said weights move radially, and yieldable means to resist the outward movement of said weights.

1,666,459. BRUSH-LIFTING MECHANISM FOR ELECTRIC MOTORS OR THE LIKE. GEORGE H. LELAND, Dayton, Ohio. Filed July 13, 1927. Serial No. 205,286. 14 Claims. (Cl. 172—279.)



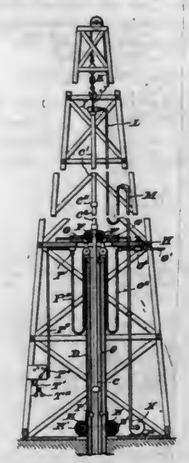
1. A brush lifting mechanism for an electric motor or the like, comprising a movable device having means to support a brush either in or out of engagement with the commutator of said motor and having a friction surface, an actuating device comprising a plate having its edge arranged to cooperate with the friction surface of said supporting device, said friction surface and said plate being normally so positioned that said supporting device will be free to move with relation to said actuating device, and means for imparting movement to said actuating device to cause the edge of said plate to operatively engage said friction surface and to actuate said supporting device.

1,666,460. PISTON-RING TOOL. STEPHEN G. LING, Spokane, Wash. Filed Oct. 19, 1926. Serial No. 142,656. 2 Claims. (Cl. 29—86.4.)



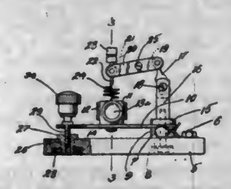
1. A ring expanding and contracting tool comprising separate and independent ring-gripping devices, each device being formed of a pair of pliers and these pliers being made up of pivotally connected levers, the inner ends of the levers being fashioned to provide jaws for gripping the top and bottom edges of the ring and the opposite ends of the levers being fashioned to provide hand-grips, means extending at right angles from said devices for connecting the latter together, and a single pivotal connection between the parts of said means, said last named pivotal connection being at right angles to the pivotal connections between the levers of the respective devices.

1,666,461. APPARATUS FOR SINKING OIL WELLS. CHARLES A. LORD, Los Angeles, Calif. Filed June 17, 1924. Serial No. 720,652. 9 Claims. (Cl. 255—4.)



1. A well making apparatus including in combination, a superstructure, separate platforms at different elevations in said superstructure, a casing, a débris removing tubing, a drilling unit carried by the débris removing tubing, means on said separate platforms for independently sustaining the weight of the débris removing tubing and casing, said means being adapted to progressively lower the tubing and also the casing to follow the drilling unit.

1,666,462. CRYSTAL DETECTOR. FREDERICK E. MANN, Cherrydale, Va. Filed Nov. 19, 1923. Serial No. 675,676. 3 Claims. (Cl. 250—31.)

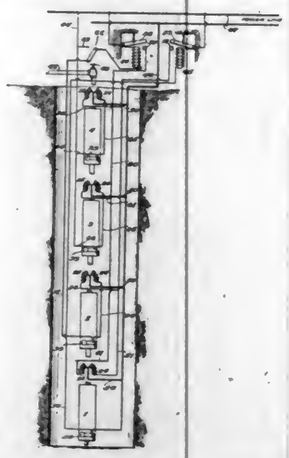


3. A crystal detector including a base, a spring strip mounted at one end on the base, a crystal holder mounted on the strip, a contact spring mounted on the base, and adjustable relative thereto for engagement with desired points on the surface of a crystal in said holder, and manually operable means for holding said spring strip under tension, and adjusting the tension thereof, to effect a micrometric adjustment of contact pressure between the contact spring and the crystal.

1,666,463. PUMP. DONALD H. MCGOON, McMinnville, Oreg. Filed May 7, 1926. Serial No. 107,508. 7 Claims. (Cl. 103—241.)

1. A pumping apparatus comprising a vertical series of cylinders, each cylinder having a liquid inlet in its bottom and a liquid outlet in its top, the outlet of each cylinder communicating directly with the inlet of the superposed cylinder, means for admitting fluid under pressure to the upper ends of the cylinders, a switch in the lower end of each cylinder arranged to be raised to inoperative position by the inflowing liquid and to move downwardly to operative position when the liquid is discharged, a valve at the upper end of each cylinder controlling the in-flow and exhaust of fluid under pressure

thereto, and electric means controlled by the respective switches for actuating the said valves when said switches are lowered whereby the pressure fluid will be admitted to



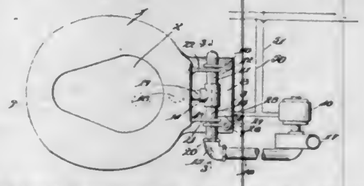
a lower cylinder and simultaneously exhausted from an upper cylinder to cause the liquid to flow from the lower cylinder into the upper cylinder.

1,666,464. IMPLEMENT FOR TEACHING FINGERING. PATRICK F. MOFFETT, Worcester, Mass. Filed May 16, 1927. Serial No. 191,638. 4 Claims. (Cl. 84—467.)



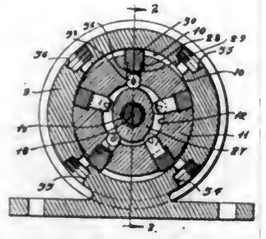
1. As an article of manufacture, an implement for the purpose described having a surface provided with parallel lines spaced the same distance apart as the keys of a piano, each line representing the center of a piano key, and lines on said surface representing the location of the center of the black keys, one edge having vertical lines thereon spaced the same as the lines on the top surface.

1,666,465. VENTILATING SEAT FOR TOILET BOWLS. CHARLES C. NORRIS, Riverside, Calif. Filed Dec. 29, 1926. Serial No. 157,684. 2 Claims. (Cl. 4—213.)



1. A toilet bowl of the class described having a seat thereon, there being a passageway through said seat adjacent the rear of the same communicating with the interior of said bowl, said passage-way comprising the sole means whereby the interior of said bowl may be ventilated, brackets on said seat, a hollow pintle extending through said brackets and being rigidly secured thereto, said pintle being mounted for rotation on said bowl, thereby establishing a hinged connection between said seat and bowl, said hollow pintle communicating with said passageway in said seat, a lug on said pintle, a bus bar plunger casing on said bowl, a bus bar plunger slidably mounted in said casing and projecting therefrom, said lug being adapted to engage said bus bar to depress the same, a pair of electrical contacts adjcent said plunger whereby when said plunger is depressed, an electrical circuit is formed through said contacts, said circuit serving to operate a blower, said blower communicating with said hollow pintle, whereby gases may be removed from said closet bowl, a socket in the forward end of said seat, a spring-pressed plunger in said socket, said plunger serving to resiliently elevate said seat and release said bus bar plunger from engagement with said contacts.

1,666,466. ROTARY PUMP. EDWARD C. PETERS, Detroit, Mich. Filed Feb. 3, 1927. Serial No. 165,530. 1 Claim. (Cl. 103—136.)



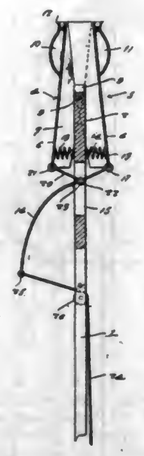
A rotary pump of the class described having a stator, comprising: a cylindrical shell having an eccentric inner surface; a cap mounted on each end of said shell; a cylindrical rotor rotatably mounted in said shell; a shaft on said rotor projecting through one of said caps and one end of, and rotatable with, said rotor, said rotor having a socket formed in its opposite end; a reduced portion on said shaft projecting into said socket; a shaft fixedly mounted on the other cap and projecting into said socket, said shaft having a socket formed on its inner end for the reception of said reduced portion; a cam mounted on the inner end of said shaft, extending radially outwardly from said reduced portion, said stator having a plurality of axially extending peripheral grooves; a blade radially movable in each of said grooves; an arm on each of said blades projecting inwardly into the socket formed in said rotor; a roller on the inner end of each of said arms engaging the periphery of said cam, said cam retaining said blades in engagement with the inner surface of said shell, at all positions of rotation of said rotor, said stator having co-operating inlet and outlet ports formed therein.

1,666,467. PLIERS. JOSEPH A. PETERSON, College Station, Tex. Filed Sept. 3, 1926. Serial No. 133,322. 5 Claims. (Cl. 294—45.)



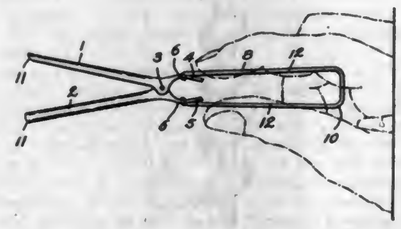
1. In a plier construction, a handle member, a jaw member rigid therewith, a second jaw member pivotally connected to said first mentioned jaw member and handle, and a second handle member pivotally connected to both of said jaws, forwardly of the pivotal connection between said jaws.

1,666,468. GLOBE MANIPULATOR. OTTO E. PHELIX, Tully, N. Y. Filed May 5, 1927. Serial No. 188,992. 4 Claims. (Cl. 294—20.)



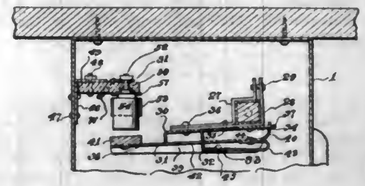
1. In a globe manipulator, a pole, a pair of coacting jaw members pivoted on the upper end of the pole, said pole being provided with a longitudinal slot below the jaw members, globe engaging jaws formed on the upper ends of the jaw members, expansible coil springs disposed between the lower ends of the jaw members and the respective sides of the pole for normally holding the jaws in a closed position, means carried by the pole and connected to the lower ends of the jaw members for moving the lower ends of the jaw members inwardly to simultaneously open the jaws, said means comprising a curved rod extending through the slot, the upper end of the rod being connected to the lower end of one of the jaw members, a link connected at one end to the lower end of the other jaw member, the other end of the link being pivotally connected to the intermediate portion of the curved rod, and an actuating cable connected to the lower end of the rod.

1,666,469. CURLING IRON. JAMES A. QUINN, Montreal, Quebec, Canada. Filed Jan. 10, 1927. Serial No. 160,278. 1 Claim. (Cl. 132—37.)



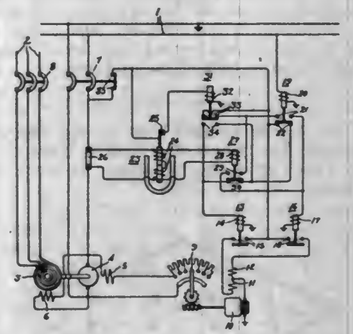
A curling iron of the character described, comprising a pair of hinged jaw members each having an outwardly projecting portion in which is provided a hole and a longitudinal recess, a handle consisting of a U-shapel member, the free ends of which respectively engage in said holes and in said recesses in said extensions, whereby said handle will be held rigid in its opened position, and means to secure said handle in its closed position.

1,666,470. ELECTRIC SWITCH. DON A. SANFORD, deceased, Washington, D. C., by Greta L. Sanford, administratrix, Washington, D. C. Filed Mar. 27, 1924. Serial No. 702,266. 9 Claims. (Cl. 200—153.)



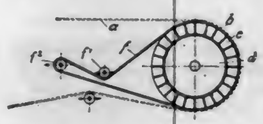
1. A box having pivoted therein a rock shaft; a lever with arms secured intermediate its ends to the rock shaft; a reciprocating shank engaging one arm of the lever; two contact carriers secured to the rock shaft, each carrier having a contact piece or disk insulated from the rock shaft; two insulated contacts, supported adjacent to the contacts carried by the said carriers; insulated binding posts; electric conducting wires secured to the said posts; and a conducting wire or cable for the passage of current between the contacts supported by the carriers.

1,666,471. SYSTEM OF ELECTRIC DISTRIBUTION. HAROLD T. SEELEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 17, 1926, Serial No. 88,904. Renewed Aug. 31, 1927. 7 Claims. (Cl. 171—312.)



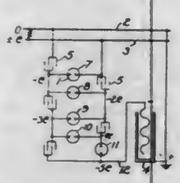
1. In a system of distribution, an electric circuit, a source of current connected to said circuit, means normally arranged to maintain constant an electrical condition of said circuit, and means controlled by a reversal of energy flow through said source cooperating with said first mentioned means for effecting a change in an electrical condition of said source when the electrical condition of said circuit is below a predetermined value and for preventing a change in the electrical condition of said source when the electrical condition of said circuit is above a predetermined value.

1,666,472. PAPER-MAKING MACHINE. CHRISTIAN SEYBOLD, Duren, and JOSEF BOLTERSDORF, Kreuzau, near Duren, Germany. Filed Jan. 10, 1925, Serial No. 1,607, and in Germany Jan. 30, 1924. 4 Claims. (Cl. 92—47.)



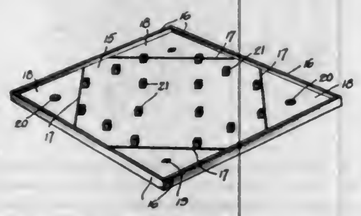
1. Paper making machine comprising a suction roll defining suction cells which are open at the perimeter of said roll, and a travelling sieve adapted to adhere to said roll and to close said cells only on the arc of said roll along which suction is exerted.

1,666,473. HIGH-VOLTAGE DIRECT-CURRENT SYSTEM. JOSEPH SLEPIAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 448,148. 2 Claims. (Cl. 175—363.)



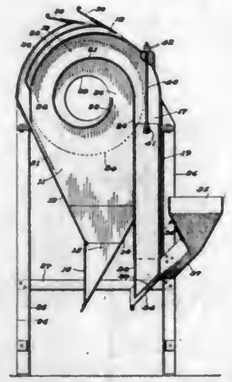
1. The combination, with an alternating-current source including two line-conductors, of an assembly of rectifiers and condensers including two sets of condensers, each set comprising a plurality of serially connected condensers, means for conductively connecting one terminal of each of said sets to one of the line conductors, whereby one set is connected to each line conductor, a plurality of rectifying devices, alternately conducting positive and negative currents, connected to a plurality of points distributed along the said sets, whereby a common point in one set is connected, through two oppositely conducting rectifying circuits, to the two opposite terminals of one of the condensers of the other set, and means for connecting a unidirectional-current load device between the source and the free ends of the said sets.

1,666,474. GAME BOARD FOR GAME PIECES AND SURFACE PROJECTILES. OTTO D. SORELL, Los Angeles, Calif. Filed May 12, 1926. Serial No. 108,604. 3 Claims. (Cl. 273—108.)



1. A game comprising a board of square outline, upstanding flanges on the edges of the board, lines extending substantially parallel to and spaced from the diagonals of the board to provide spaces between the lines and the edges of the board and a field between the lines, characters within the spaces and other characters within the field, game pieces positioned on the characters within the field, and projectiles positioned on the characters within the spaces and adapted to be projected over the surface of the board for displacing the game pieces from the respective characters.

1,666,475. DUST EXTRACTOR. ALBERT H. STEBBINS, Los Angeles, Calif. Filed Oct. 3, 1925. Serial No. 60,207. 6 Claims. (Cl. 209—139.)



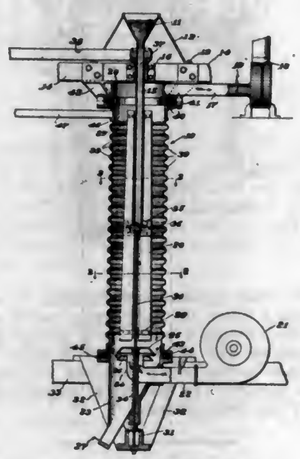
1. A dust extractor comprising in combination, a receptacle having a large upper end portion and a dust collecting portion at its lower end and having spaced side walls, an air exhaust conduit extending transversely of the receptacle between said side walls and having an opening extending lengthwise of the conduit, an inlet conduit in the upper part of the receptacle and curved about said exhaust conduit, means for exhausting air from the discharge conduit to draw dust laden air into the receptacle thru the curved inlet conduit so that the heavier particles are thrown outwardly away from the discharge conduit to settle in the receptacle, and means for admitting a jet of air into the curved inlet conduit thru a side wall thereof.

1,666,476. AIR CLASSIFIER. ALBERT H. STEBBINS, Los Angeles, Calif. Filed Oct. 14, 1926. Serial No. 141,547. 7 Claims. (Cl. 209—138.)



1. A spiral classifier, comprising in combination, a vertically disposed pipe having air inlet openings in its walls, a closed casing wound spirally around the pipe to communicate with said openings and constructed to form a spiral classifying chamber, an apertured floor-plate for the casing extending spirally around the central pipe and constructed so that the materials to be treated will slide down the floor-plate, means for delivering the materials to be treated to the upper end of the spiral casing, and means for exhausting air from said pipe to draw air into the spiral chamber through the apertures in the floor plate and from the chamber into the central pipe to cause the air to pick up and carry into the central pipe the lighter particles traveling along the floor-plate.

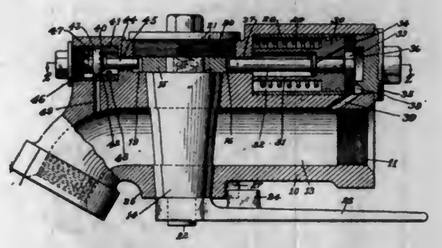
1,666,477. AIR CLASSIFIER. ALBERT H. STEBBINS, Los Angeles, Calif. Filed Mar. 16, 1927. Serial No. 175,691. 10 Claims. (Cl. 209—138.)



1. An air classifier, comprising in combination, a long annular receptacle supported in an upright position and having a length that far exceeds its diameter, a fan rotatably mounted in the receptacle and having fan blades that extend throughout approximately the entire length of the long receptacle, means for producing rising air currents within the receptacle, means for delivering the materials to be treated into the receptacle so that the lighter particles will be picked up by the air, and means for rotating the fan to impart a rotative movement to the volume of air within the receptacle which will serve to throw the heavier particles outwardly by centrifugal force throughout the length of the receptacle and keep them close to the walls of the receptacle as they move downwardly therein.

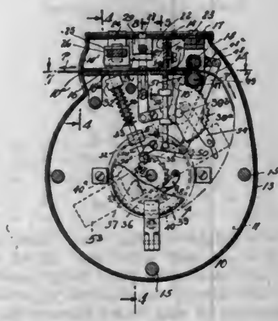
1,666,478. AUTOMATIC SAFETY ANGLE COCK. RUSSELL RICHARD SUPPLEE, Bridgeport, Pa. Filed Oct. 23, 1926. Serial No. 143,733. 4 Claims. (Cl. 303—86.)

2. In an angle cock, a body, a rotatable valve therein having a handle, the valve at its upper end being provided with a disk formed with a notch at one point and at a diametrically opposite point with a recess bounded by a radial shoulder and a face extending out toward the periphery of the disk, the body at one end being provided with a longitudinally extending chamber communicating at its outer end with the interior of the body, a piston movable in the chamber, a spring urging the piston outward, a pin carried by the piston and extending through the inner end wall of the chamber and adapted to engage in the notch in the disk when the rotary valve is turned to open position, the opposite end of the body being provided with a valve chamber, the interior of the valve chamber being connected by a duct with the interior of the body, and the valve chamber having a vent at the inner end of the chamber, a



valve within the chamber, a spring urging the valve to a position to close said vent, the valve having a pin extending through the end of the chamber and into said recess in the disk when the rotary valve is turned to an open position.

1,666,479. MARKING OR CUTTING DEVICE. FRANZ WOLF, New York, N. Y. Filed May 6, 1927. Serial No. 189,380. 4 Claims. (Cl. 164—111.)

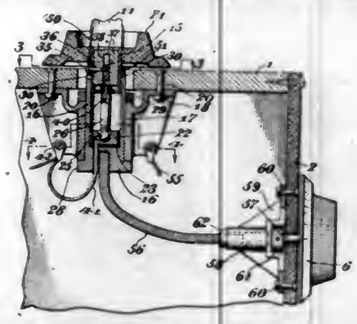


1. In a device for marking a longitudinally fed strip, a marker operable at a right angle and adjustable transversely to said strip and means for operating said marker including an adjustable cam for controlling the operation of said marker.

1,666,480. MEANS FOR ADJUSTING THE ANTENNA OF RADIO APPARATUS. ARNO ZILLGER, Narberth, Pa., assignor to Music Master Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 9, 1924. Serial No. 754,768. 1 Claim. (Cl. 250—33.)

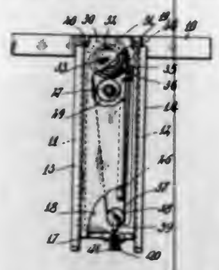
In combination, the cabinet of a radio receiving apparatus, a bracket comprising a bearing sleeve supported upon the inner side of the top of said cabinet which sleeve is provided with a laterally extending projection adjacent its lower end upon which is supported an oscillatable stop device and pins for limiting the extent of oscillation of said device, a socket member rotatably mounted in said bearing sleeve and having a laterally extending projecting pin adjacent its lower end, an antenna, the lower end of the frame structure of which is mounted within and supported by the said socket member, a rotatable antenna adjusting device supported upon the front panel of the said cabinet, and a flexible shaft connecting the said rotatable device with the said rotatable socket member whereby upon rotation

of the said rotatable device in either direction corresponding rotation of the said socket member and of the antenna supported thereon is effected, the extent of



such rotation being limited by the contact of the laterally extending pin in the said socket member with the said oscillatable stop device, substantially as described.

1,666,481. WINDOW REGULATOR FOR VEHICLES. PETER BACSO, Astoria, N. Y. Filed Mar. 4, 1927. Serial No. 172,584. 1 Claim. (Cl. 268—128.)

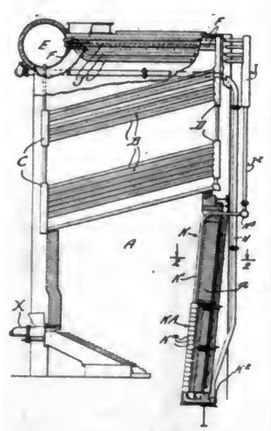


A window regulator of the class described comprising a frame, inner and outer side plates mounted on said frame, said inner side plate being provided with a longitudinal slot having an enlarged upper end, a drum rotatively mounted in said frame between the side plates thereof, a pulley attached to the bottom of said frame, a flexible member attached to said drum adapted to be wound thereon and disposed around said pulley, an engaging member slidably mounted in said frame, attached at one end to said flexible member and disposed at its other end through said slot, and a plate having a transverse slot therein slidably mounted on said attaching member and comprising a window supporting rack, said engaging member and said plate being adapted to be raised and lowered by rotation of said drum for raising and lowering a window mounted on said rack and said engaging member being adapted to be moved relative to said plate for positioning the former in the enlarged portion of said slot when the window is in its uppermost position to prevent accidental lowering thereof.

1,666,482. PRODUCTION OF VINYLACETATE. ERICH BAUM, HANS DEUTSCH, WILLY O. HERRMANN, and MARTIN MUGDAN, Munich, Germany, assignors to Consortium für Elektrochemische Industrie G. m. b. H., Munich, Bavaria. Filed June 15, 1922, Serial No. 568,626, and in Germany June 23, 1921. 10 Claims. (Cl. 260—106.)

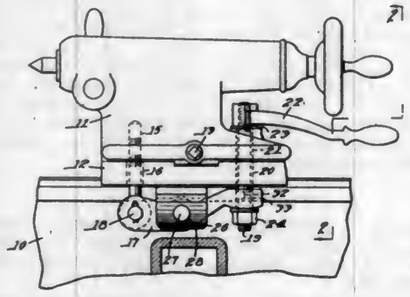
1. Process of producing vinylacetate which consists in acting with acetylene and the vapor of acetic acid upon a metal salt at a temperature above the boiling point of said acid.

1,666,483. SECTIONAL WATER BACK. JOHN E. BELL, deceased, Brooklyn, N. Y., by Lola R. Bell, executrix, Jackson Heights, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Original application filed July 26, 1924, Serial No. 728,306. Divided and this application filed Jan. 26, 1926. Serial No. 83,789. 3 Claims. (Cl. 122—235.)



1. In a steam generator comprising a combustion chamber and a boiler, the improvement which consists of a water back forming a lining for a portion of the combustion chamber wall and composed of upper and lower sections, each section being composed of vertically disposed tube portions and cast metal casings for the tube portions in the lower section.

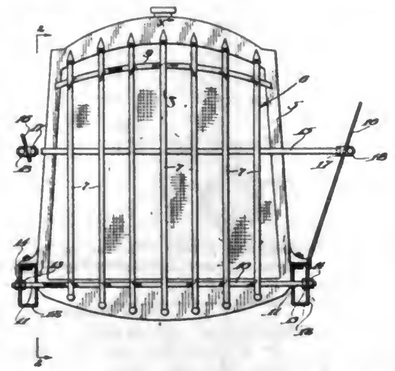
1,666,484. CLAMPING MECHANISM FOR MACHINE TOOLS. CONSTANT BOUILLON, Torrington, Conn., assignor to The Hendry Machine Company, Torrington, Conn., a Corporation of Connecticut. Filed June 8, 1926. Serial No. 113,574. 15 Claims. (Cl. 82—31.)



1. In a machine tool, a frame, a machine tool unit movably mounted thereon, a lever pivoted to said unit, a clamping member supported by said lever and engaging said frame, and means on said movable unit to apply clamping pressure to said lever.

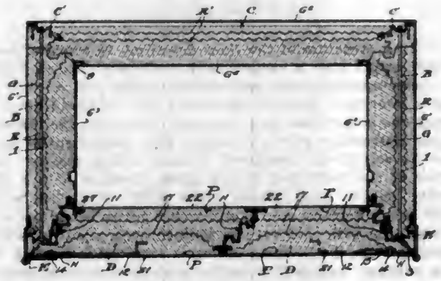
8. In a machine tool, a frame, a machine tool unit movably mounted thereon, a clamping lever, means to support one end of said lever on said movable unit, means to apply clamping pressure at the opposite end of said lever, and a frame-engaging element connected with and actuated by said lever between said end portions.

1,666,485. OIL RADIATOR. CHARLES W. BRADFORD, Southgate, Calif. Filed Apr. 24, 1924. Serial No. 708,673. 2 Claims. (Cl. 184—104.)



1. An oil radiator having a lower tube forming a lower manifold, an upper tube forming an upper manifold, a plurality of vertical tubes connected to the upper and lower tubes, said vertical tubes being closed at the bottom and having removable stoppers at the top, said stoppers on removal allowing cleaning or swabbing of the individual vertical tubes.

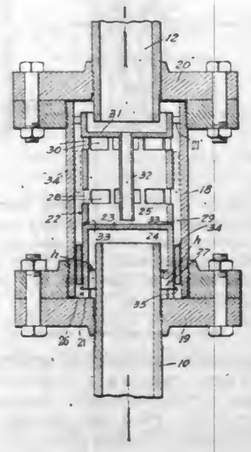
1,666,486. FIREPROOF SAFE CONSTRUCTION. GEORGE C. BRAINARD, JASON A. FITCH, and ERIC E. WOLTERS, Youngstown, Ohio, assignors to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed Jan. 21, 1924. Serial No. 687,630. 9 Claims. (Cl. 109—2.)



1. A fire-proof safe construction including an insulating monolithic body open at the front and rear, a door frame fitting the body at its front side, a separate back panel of insulating material and including a fastening anchoring element embedded therein, said back panel being fitted to the rear side of the body, and rods engaging the door frame and fastening anchoring element of the back panel to draw the same together.

1,666,487. MEANS FOR CONTROLLING AND MEASURING GAS SUPPLY. THOMAS H. CLEMENTS, Los Angeles, Calif., assignor of one-half to F. C. Millard Engineering Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 11, 1926. Serial No. 80,469. 4 Claims. (Cl. 137—53.)

1. A differential relief valve for gas comprising a casing, gas inlet means extending into the lower end of the casing and projecting upwardly within the casing and spaced therefrom to form a liquid seal receptacle between said upwardly projecting portion of the gas inlet means and the wall of the casing, a tubular member mounted in fixed position within the casing and having a portion extending downwardly around said upwardly projecting portion of the gas inlet means so as to extend into the liquid in the liquid seal receptacle and said tubular member being formed with an auxiliary liquid receptacle above the liquid seal receptacle, said auxiliary liquid receptacle being open at its upper portion to communicate with the space between the said tubular member and the wall of the casing to permit liquid which is forced from the liquid seal by the pressure of the gas from the gas inlet to pass into said auxiliary liquid receptacle, said auxiliary liquid receptacle being provided with opening means of restricted area for draining liquid therefrom back into said space between said tubular member and the wall of the casing, and gas outlet means communicating with the upper portion of the chamber within said casing.

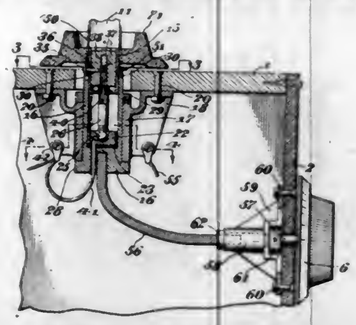


1,666,488. APPARATUS FOR EXTRACTING OIL FROM SHALE. RICHARD CRAWSHAW, Drumright, Okla. Filed Feb. 5, 1927. Serial No. 166,223. 5 Claims. (Cl. 262—3.)



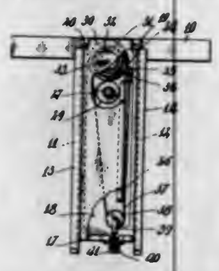
1. An apparatus for extracting oil from shale comprising a heating unit adapted to be projected into the shale, a series of conducting pipes connected with the unit, one of the pipes forming a conduit for the oil accumulating about the unit, a compressed air line connected with one of the pipes and adapted to force the oil from the shale outwardly into a suitable container, and means for periodically cleaning the pipes and outlets.

of the said rotatable device in either direction corresponding rotation of the said socket member and of the antenna supported thereon is effected, the extent of



such rotation being limited by the contact of the laterally extending pin in the said socket member with the said oscillatable stop device, substantially as described.

1,666,481. WINDOW REGULATOR FOR VEHICLES. PETER BACSO, Astoria, N. Y. Filed Mar. 4, 1927. Serial No. 172,584. 1 Claim. (Cl. 268—128.)

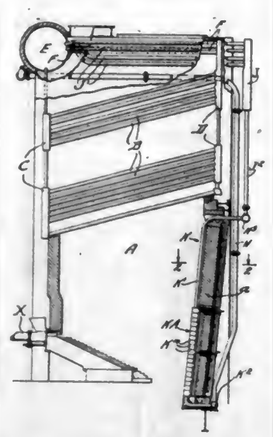


A window regulator of the class described comprising a frame, inner and outer side plates mounted on said frame, said inner side plate being provided with a longitudinal slot having an enlarged upper end, a drum rotatively mounted in said frame between the side plates thereof, a pulley attached to the bottom of said frame, a flexible member attached to said drum adapted to be wound thereon and disposed around said pulley, an engaging member slidably mounted in said frame, attached at one end to said flexible member and disposed at its other end through said slot, and a plate having a transverse slot therein slidably mounted on said attaching member and comprising a window supporting rack, said engaging member and said plate being adapted to be raised and lowered by rotation of said drum for raising and lowering a window mounted on said rack and said engaging member being adapted to be moved relative to said plate for positioning the former in the enlarged portion of said slot when the window is in its uppermost position to prevent accidental lowering thereof.

1,666,482. PRODUCTION OF VINYLACETATE. ERICH BAUM, HANS DEUTSCH, WILLY O. HERRMANN, and MARTIN MUGDAN, Munich, Germany, assignors to Consortium für Elektrochemische Industrie G. m. b. H., Munich, Bavaria. Filed June 15, 1922, Serial No. 568,626, and in Germany June 23, 1921. 10 Claims. (Cl. 260—106.)

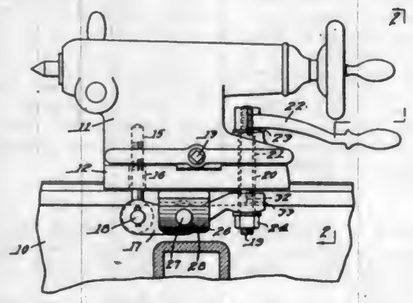
1. Process of producing vinylacetate which consists in acting with acetylene and the vapor of acetic acid upon a metal salt at a temperature above the boiling point of said acid.

1,666,483. SECTIONAL WATER BACK. JOHN E. BELL, deceased, Brooklyn, N. Y., by Lola R. Bell, executrix, Jackson Heights, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Original application filed July 26, 1924, Serial No. 728,306. Divided and this application filed Jan. 26, 1926. Serial No. 83,789. 3 Claims. (Cl. 122—235.)



1. In a steam generator comprising a combustion chamber and a boiler, the improvement which consists of a water back forming a lining for a portion of the combustion chamber wall and composed of upper and lower sections, each section being composed of vertically disposed tube portions and cast metal casings for the tube portions in the lower section.

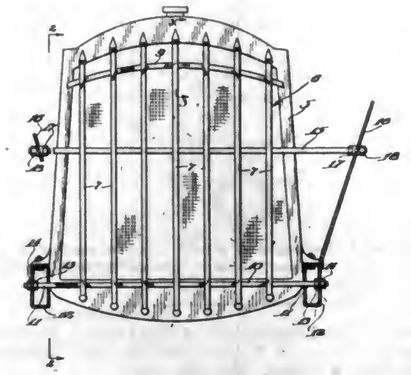
1,666,484. CLAMPING MECHANISM FOR MACHINE TOOLS. CONSTANT BOUILLON, Torrington, Conn., assignor to The Hendry Machine Company, Torrington, Conn., a Corporation of Connecticut. Filed June 3, 1926. Serial No. 113,574. 15 Claims. (Cl. 82—31.)



1. In a machine tool, a frame, a machine tool unit movably mounted thereon, a lever pivoted to said unit, a clamping member supported by said lever and engaging said frame, and means on said movable unit to apply clamping pressure to said lever.

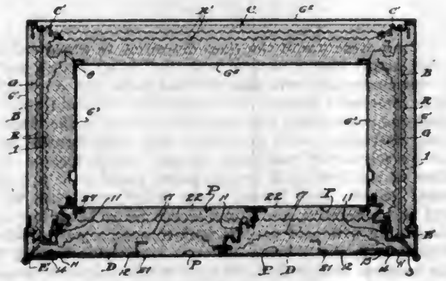
8. In a machine tool, a frame, a machine tool unit movably mounted thereon, a clamping lever, means to support one end of said lever on said movable unit, means to apply clamping pressure at the opposite end of said lever, and a frame-engaging element connected with and actuated by said lever between said end portions.

1,666,485. OIL RADIATOR. CHARLES W. BRADFORD, Southgate, Calif. Filed Apr. 24, 1924. Serial No. 708,673. 2 Claims. (Cl. 184—104.)



1. An oil radiator having a lower tube forming a lower manifold, an upper tube forming an upper manifold, a plurality of vertical tubes connected to the upper and lower tubes, said vertical tubes being closed at the bottom and having removable stoppers at the top, said stoppers on removal allowing cleaning or swabbing of the individual vertical tubes.

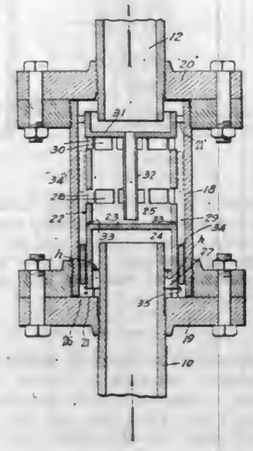
1,666,486. FIREPROOF SAFE CONSTRUCTION. GEORGE C. BRAINARD, JASON A. FITCH, and ERIC E. WOLTERS, Youngstown, Ohio, assignors to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed Jan. 21, 1924. Serial No. 687,630. 9 Claims. (Cl. 109—2.)



1. A fire-proof safe construction including an insulating monolithic body open at the front and rear, a door frame fitting the body at its front side, a separate back panel of insulating material and including a fastening anchoring element embedded therein, said back panel being fitted to the rear side of the body, and rods engaging the door frame and fastening anchoring element of the back panel to draw the same together.

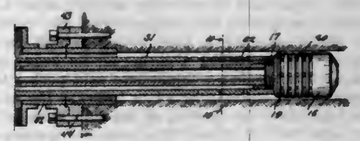
1,666,487. MEANS FOR CONTROLLING AND MEASURING GAS SUPPLY. THOMAS H. CLEMENTS, Los Angeles, Calif., assignor of one-half to F. C. Millard Engineering Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 11, 1926. Serial No. 80,469. 4 Claims. (Cl. 137—53.)

1. A differential relief valve for gas comprising a casing, gas inlet means extending into the lower end of the casing and projecting upwardly within the casing and spaced therefrom to form a liquid seal receptacle between said upwardly projecting portion of the gas inlet means and the wall of the casing, a tubular member mounted in fixed position within the casing and having a portion extending downwardly around said upwardly projecting portion of the gas inlet means so as to extend into the liquid in the liquid seal receptacle and said tubular member being formed with an auxiliary liquid receptacle above the liquid seal receptacle, said auxiliary liquid



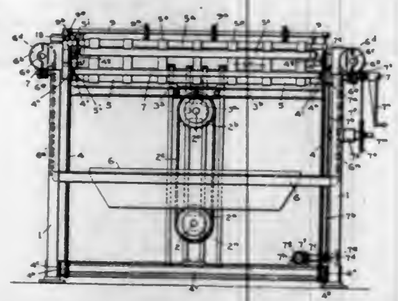
receptacle being open at its upper portion to communicate with the space between the said tubular member and the wall of the casing to permit liquid which is forced from the liquid seal by the pressure of the gas from the gas inlet to pass into said auxiliary liquid receptacle, said auxiliary liquid receptacle being provided with opening means of restricted area for draining liquid therefrom back into said space between said tubular member and the wall of the casing, and gas outlet means communicating with the upper portion of the chamber within said casing.

1,666,488. APPARATUS FOR EXTRACTING OIL FROM SHALE. RICHARD CRAWSHAW, Drumright, Okla. Filed Feb. 5, 1927. Serial No. 166,223. 5 Claims. (Cl. 262—3.)



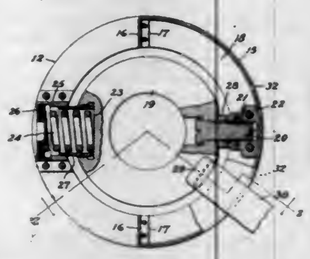
1. An apparatus for extracting oil from shale comprising a heating unit adapted to be projected into the shale, a series of conducting pipes connected with the unit, one of the pipes forming a conduit for the oil accumulating about the unit, a compressed air line connected with one of the pipes and adapted to force the oil from the shale outwardly into a suitable container, and means for periodically cleaning the pipes and outlets.

1,666,489. SHEET-DELIVERY APPARATUS. MICHAEL A. DROITCOUR, Edgewood, R. I. Filed Jan. 5, 1922, Serial No. 527,125. Renewed Sept. 14, 1927. 24 Claims. (Cl. 271—78.)



1. In combination a pair of endless carriers, a yoke connected with the carriers, a pin slidably connected with said yoke, an endless chain carrying said pin, and means for driving the endless chain and thereby imparting reciprocatory movement to the yoke and carriers, substantially as described.

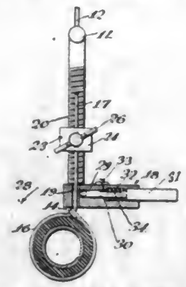
1,666,490. EMERGENCY-GOVERNOR MECHANISM FOR PRIME MOVERS. WILLIAM P. DYER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 18, 1921. Serial No. 453,345. 17 Claims. (Cl. 264—17.)



7. In combination, a prime mover, a trip valve controlling the flow of operating fluid thereto, an emergency governor comprising an eccentric member adapted to trip said valve and effect its closing when the speed of he prime mover reaches a predetermined high value, said eccentric member having a pocket on its heavy side, and means for discharging a liquid into said pocket while the prime mover is running so as to increase the centrifugal action and effect the closing of the trip valve at a speed lower than that for which the emergency governor is set, a wall of said pocket being provided with an opening for the escape of such liquid.

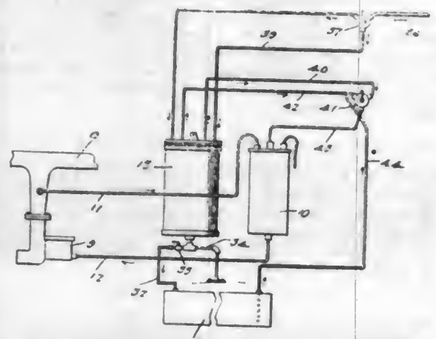
1,666,491. HOSE-COUPLING TOOL. ISRAEL EVANS, San Bernardino, Calif. Filed June 29, 1927. Serial No. 202,335. 3 Claims. (Cl. 81—93.)

1. A hose coupling tool having a block forming a base with an opening vertically therethrough, a jack mounted on the base, a clamp on the jack to engage a wire extending through the opening in the base, means to operate the jack to separate the base and the clamp and exert a tension on the wire, the base having a bore at right angles



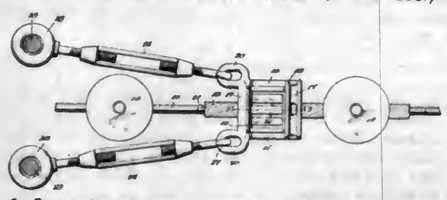
to the said opening, and a cold chisel operating in said bore adapted to sever the wire fastened through the opening in the base.

1,666,492. AUTOMOTIVE APPLIANCE. DOMENICO GENTILE, Rome, N. Y. Filed Apr. 19, 1927. Serial No. 185,036. 4 Claims. (Cl. 158—46.5.)



1. In a structure of the class described, in combination, a fuel supply pipe, a vacuum tank, individual branch pipes in communication with said vacuum tank, and a control valve interposed between the supply pipe and said branch pipes and constructed and arranged to connect the branch pipes alternately with the supply pipe, whereby the fuel can be selectively conducted through either one or the other of the individual branch pipes, together with a filtering device, said branch pipes being connected with said filtering device, and said filtering device being in communication with said vacuum tank through a pair of pipes leading from the filtering device, a single pipe leading to the vacuum tank, and a valve constructed and arranged for connecting the pipes of the pair alternately with the single pipe.

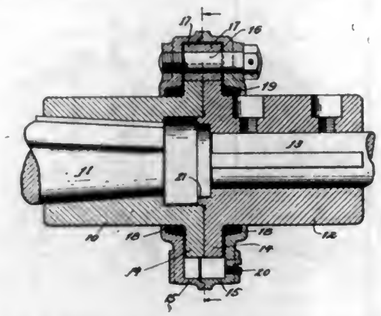
1,666,493. WIRE ANCHOR. ALBERT J. GURNEY, Canton, Ohio, assignor to The American Mine Door Co., Canton, Ohio, a Corporation of Ohio. Filed July 17, 1925. Serial No. 44,348. 4 Claims. (Cl. 24—136.)



1. In a wire anchor, a clamp including a body member having a fixed jaw, and a substantially U-shaped movable

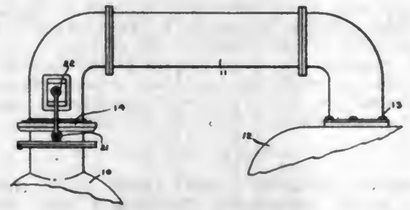
jaw having side portions to straddle a wire confined between said side portions to lie between the jaws, the movable jaw being shiftable upon the body member in a plane at an angle to the plane of the fixed jaw for gripping a wire between the jaws.

1,666,494. FLEXIBLE COUPLING. ELBERT J. HALL, Piedmont, Calif. Filed Feb. 23, 1926. Serial No. 89,965. 2 Claims. (Cl. 64—96.)



1. In combination with a pair of substantially coaxial shafts, a toothed wheel fixed to each shaft, said toothed wheels abutting each other and having their teeth in alignment, a two-part casing surrounding the wheels, bolts for securing the parts of the casing together, and rollers or sleeves on the bolts engaging the teeth on the wheels.

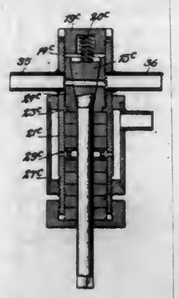
1,666,495. EXPANSIBLE-PIPE JOINT. FRANCIS HODGKINSON, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 27, 1924. Serial No. 758,405. 14 Claims. (Cl. 285—134.)



1. A coupling for adjacent conduit sections adapted to move laterally with respect to each other, comprising a pair of flanges secured to respective sections and arranged in closely spaced relation, two concentrically arranged packing members interposed between the flanges, and means for conveying sealing liquid to the chamber defined by the packing members and the flanges.

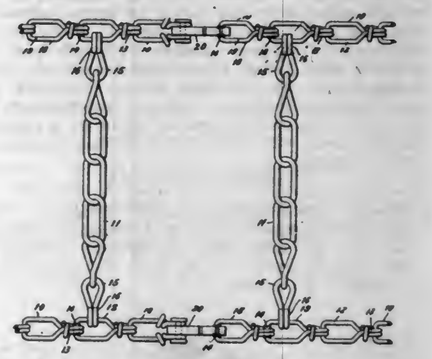
1,666,496. TURNING PLUG. JACK CARL JANKUS, Scranton, Pa., assignor, by mesne assignments, to Iceless Automatic Refrigerator Company, a Corporation of Delaware. Filed Dec. 22, 1922. Serial No. 608,395. 1 Claim. (Cl. 251—103.)

In combination, a turning plug presenting a conical portion, a stem for operating said plug, a casing including a sleeve encircling the stem and integral with the body of the casing, said sleeve having a shoulder at its inner end, an annular member rigidly and detachably secured within said casing and abutting against said shoulder and presenting a conical seat for said plug, a packing within said sleeve, means operating axially of the stem toward said annular member for compressing the packing, a spring acting axially on the plug in the opposite direction to hold it against said seat, and a water jacket en-



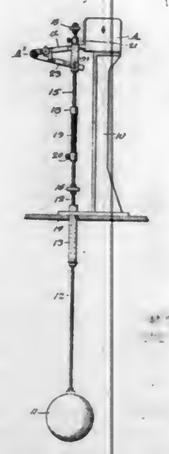
circling said sleeve and communicating with the packing space within the sleeve said jacket having an inlet and an outlet for the circulation of water therethrough.

1,666,497. ANTISKID CHAIN. ANDREW LANGSTAFF JOHNSTON, Jr., Newark, N. J., assignor to Off'N'On Chain Corporation, Newark, N. J., a Corporation of Delaware. Original application filed Mar. 3, 1921, Serial No. 449,490. Divided and this application filed Apr. 25 1925. Serial No. 25,737. 4 Claims. (Cl. 152—14.)



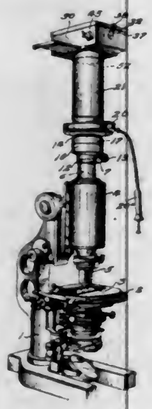
1. In an anti-skid chain, in combination, a side chain, means for joining the ends of said side chain including a hook link carried by an end of said side chain, said hook link having a connecting eye and a communicating restricted inclined entry-slot and the opposing link of the opposing end of the side chain having at its end a flattened part of a size and proportions to permit passage through said entrance slot when said opening link lies substantially in the plane of said slot but obstructing such passage when said opposing link assumes substantial alignment with said hook link, a cross chain for said anti-skid chain, and means for connecting said cross chain to said side chain including an end hook at one end of said cross chain having a connecting eye and a restricted entry-slot leading thereto permitting passage of said flattened end part of the side chain link but obstructing passage of other parts thereof, registry of said entry-slot of the cross chain end hook with said flattened end part of said opposing link being obstructed by the engagement between adjacent links when the side chain is extended with the connected links thereof in substantial alignment.

1,666,498. FLOAT-OPERATED ELECTRIC-SWITCH-ACTUATING MECHANISM. CLARENCE W. LINDEMANN, Chicago, Ill., assignor to Chicago Pump Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1926. Serial No. 100,795. 17 Claims. (Cl. 200—84.)



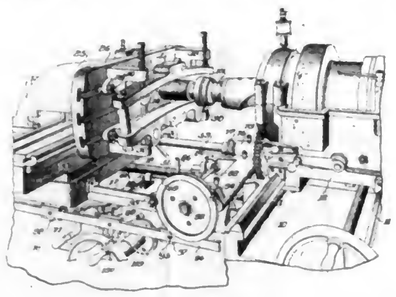
1. In float operated electric switch actuating mechanism, the combination of an electric switch and its switch lever, a float and its float rod, and connecting mechanism between said float rod and switch lever including an operating strut interposed between the float rod and switch lever and having an active position for transmitting motion from the float rod to the switch lever when the float reaches a predetermined high level, said operating strut having a secondary position for transmitting motion from the float rod to the switch lever when the float reaches a different predetermined high level, and automatically operating means for setting said operating strut into active and secondary positions in regular sequence.

1,666,499. PHOTOMICROGRAPHIC CAMERA. FRANCIS F. LUCAS, East Orange, N. J. Original application filed Nov. 22, 1921, Serial No. 517,017. Divided and this application filed Dec. 29, 1923. Serial No. 683,289. 5 Claims. (Cl. 95—49.)



1. In a photographic device, a uniplanar element of ground glass, means for arranging said ground glass element in light-tight relation with a suitable optical image-forming device and means for excluding light foreign to the rays forming the image, said excluding means including a tube extending from said ground glass element toward the observer permanently secured to said ground glass element.

1,666,500. METAL-WORKING TOOL. NILS IVAR LUNDBERG, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1924. Serial No. 754,299. 10 Claims. (Cl. 51—96.)

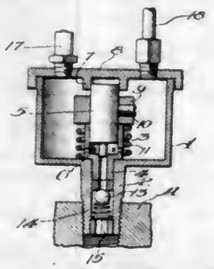


1. In a machine for cutting curved surfaces on metal castings and the like, the combination with a stationary tool holder carrying a horizontal rotary cutting tool, of a vertically adjustable cross-slide support, a cross-slide on said support, means for reciprocating said cross-slide transversely of the axis of said tool, a work holder pivoted on said cross-slide on an axis parallel with the axis of said tool, and means for effecting an oscillating movement of said work holder in a vertical plane simultaneously with the reciprocating travel of said cross-slide.

1,666,501. METHOD OF TREATING SILK. JAMES C. MACKEY, Paterson, N. J., and JOSEPH S. KAUFMAN, New York, N. Y., assignors of one-third to Van Rensselaer Lansingh, Pelham, N. Y. Filed Aug. 19, 1925. Serial No. 51,088. 5 Claims. (Cl. 8—13.)

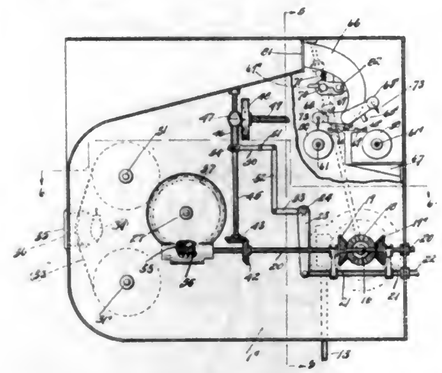
1. Weighted silk which has tin phosphotungstate in the fibers to weight the same, said weighted silk being a neutral base having the same properties as regards dyeing and printing as exist in unweighted silk.

1,666,502. PUMPING LUBRICATING CUP. GEORGE L. MOORE, Chicago, Ill. Filed Aug. 3, 1925. Serial No. 47,658. 3 Claims. (Cl. 184—46.)



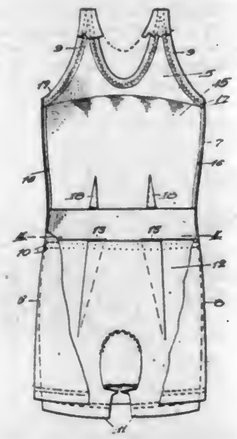
1. In combination, a lubricant receptacle having a small discharge outlet in the bottom, a heavy vertically movable member having a reduced end adapted to fit said outlet with a sufficient degree of tightness to act as a plunger positively to expel lubricating material that has entered the outlet, means for counterbalancing the weight of the plunger, and means for restricting the movements of the plunger between a lower limit in which the reduced end extends a short distance into said outlet and an upper limit in which said end stands above said outlet.

1,666,503. STREET INDICATING AND ANNUNCIATING DEVICE. EDWARD NIETHAMER, Bay City, Mich. Filed Jan. 24, 1922. Serial No. 531,493. 5 Claims. (Cl. 274—18.)



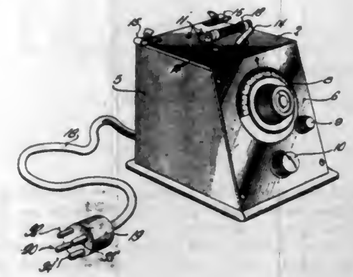
1. In a device of the class described, a built up record consisting of a series of sections, a traveling tone arm movable over the sections of the record, and a transversely disposed horizontal support extending across the device and located beneath the front portion of the tone arm and provided with means for directly engaging and successively raising and lowering the said tone arm as it travels across the record, and means for actuating the tone arm in its movement across the record.

1,666,504. BATHING SUIT. LOUIS PELTON, Chicago, Ill. Filed Aug. 20, 1927. Serial No. 214,289. 1 Claim. (Cl. 2—67.)



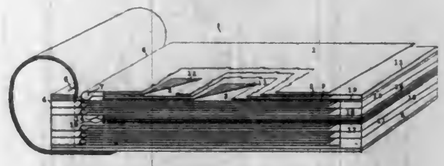
A bathing suit comprising a garment, consisting of waist, skirt and trunks formed of ribbed material capable of stretching in a direction transverse of the garment, and a transverse piece formed of ribbed, knitted material and extending across the bust part of the garment from side to side and being secured to the sides of said waist portion, said transverse piece being of greater length than the distance between the sides of the garment, and being substantially inelastic along its length across the garment.

1,666,505. RADIO APPLIANCE. JOHN M. PETERSON, Milwaukee, Wis. Filed Feb. 28, 1927. Serial No. 171,612. 1 Claim. (Cl. 250—14.)



A device of the class described comprising a receiving circuit including a grid leak, and adapted to be connected with a radio broadcast receiver to change its normal wave length range, a casing for the circuit having a top and front, means mounted on the front of the casing for tuning the circuit, means mounting the grid leak from the top of the casing, means carried by the top for readily releasably connecting an antenna, and a ground wire with the circuit, and a flexible cable extended from the casing whereby the circuit is connected with the circuit of the broadcast receiver.

1,666,506. MANIFOLDING SALES BOOK. ARTHUR H. PHILLIPS, Hempstead, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada, a Corporation of Canada. Filed Apr. 17, 1924. Serial No. 707,027. 4 Claims. (Cl. 282—9.)

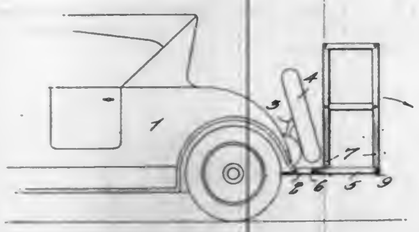


1. A salesbook comprising, in combination, plurality of sheets attached together and to a back to form a stub, each of said sheets having a detachable extension on a side other than that toward the stub, said detachable extensions being bound together to form a dummy stub, and carbon sheets interleaved between said first mentioned sheets projecting into and bound within said dummy, but free from said first mentioned stub.

1,666,507. AUTO CARRIER RACK. HENRY D. PUFFE, Seattle, Wash. Filed May 4, 1927. Serial No. 188,775. 1 Claim. (Cl. 224—29.)

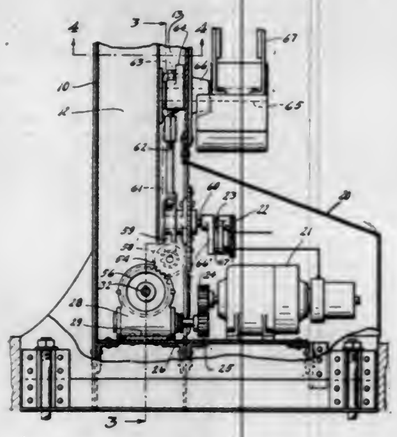
A luggage carrier including extension bars rigid with the frame of the vehicle, a box-like receptacle of

more or less skeleton form including supporting bars, pivotal connections between one end of the supporting bars and the free ends of the extension bars, the opposite ends of the supporting bars being extended beyond the receptacle, and means whereby the extended



portions of the supporting bars may be interlocked with the extension bars when the receptacle is in an upright position, the pivotal movement of the receptacle on the extension bars moving said receptacle bodily from the vehicle to permit free access to the rear end of the vehicle.

1,666,508. YIELDABLE BARRIER. EMERSON D. SAWYER, Chicago, Ill. Filed May 16, 1923. Serial No. 639,366. 9 Claims. (Cl. 39—1.)



1. A device of the class described comprising columns at opposite sides of the roadway, an impact receiving member extending across the roadway and mounted to move vertically on said columns, a transverse shaft extending between said columns, a motor at the base of one of said columns, an operative connection between said motor, the corresponding end of said impact member and said transverse shaft, and an operative connection between said transverse shaft and the other end of said impact member.

7. A barrier column consisting of a plate bent into substantially tubular form with a gap at one side providing a longitudinal opening, and a transverse member adapted to divide said column into two compartments.

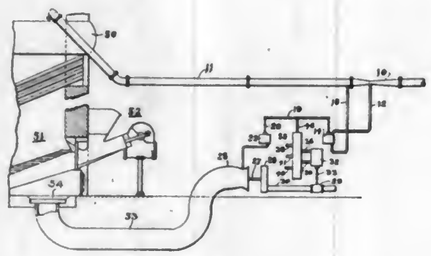
9. A device of the class described comprising a two compartment column adapted in cooperation with another column to supoprt a yielding barrier; a shaft mounted in the wall of said column and extending from the interior to the exterior thereof, means contained in said column for operating said shaft; and a sidewalk arm detachably mounted on the outer end of said shaft.

1,666,509. FLYTRAP. HUGO G. A. SCHLOSSARECK, Yonkers, N. Y. Filed June 28, 1926. Serial No. 118,916. 1 Claim. (Cl. 43—122.)



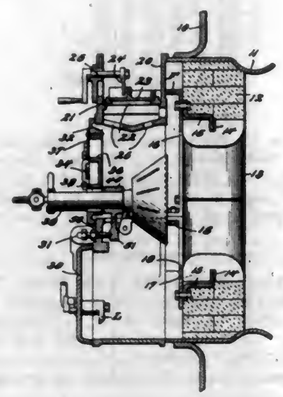
A flytrap comprising a base having a central liquid holding compartment, a hollow conical support carried in spaced relation above said base, a transparent globe having a bottom opening spaced from the entering end of said support, means on said support to removably engage the globe thereon, said globe having a liquid containing compartment, an annular receptacle carried at the upper end of said globe, a cap thereover, means for detachably engaging said cap, and a lighting means suspended from said cap within said globe.

1,666,510. STOKER-BLOWER CONTROL MECHANISM. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 18, 1921. Serial No. 446,143. 10 Claims. (Cl. 236—14.)



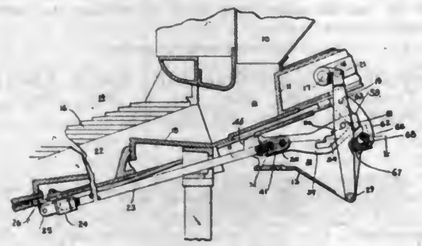
1. In a relay heat regulating mechanism, for boiler furnaces, a conduit communicating with the boiler, an air supply device and means cooperatively associated with the conduit and air supply device for controlling the speed of said air supply device by a regulating effect derivable both from the velocity of fluid flowing through the conduit and from the velocity of air supply.

1,666,511. OIL-BURNING ATTACHMENT FOR FURNACE FRONTS. GEORGE NORMAN SCOTT, West New Brighton, N. Y., assignor to Bethlehem Shipbuilding Corporation, Ltd., a Corporation of Delaware. Filed June 7, 1923. Serial No. 644,021. 6 Claims. (Cl. 158—1.5.)



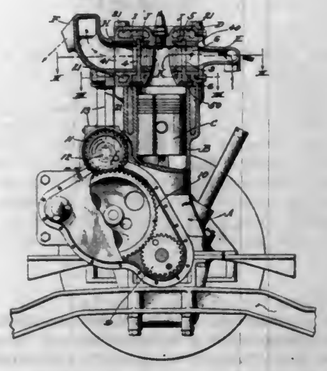
1. A furnace attachment of the class described comprising a furnace ring formed of segmental sections of refractory material, a plate member having an aperture co-axial with that of the ring, and means carried by the plate member for engaging the sections peripherally in order to hold the latter in place as a unit with respect to the plate member.

1,666,512. UNDERFEED STOKER. ANTHONY F. SCHWENDNER, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 3, 1924. Serial No. 753,555. 5 Claims. (Cl. 110—109.)



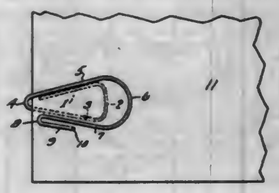
1. A mechanical movement comprising an operating arm, a connecting link, means on the operating arm for engaging the connecting link, said connecting link having a plurality of notches for receiving the engaging means, means biasing the connecting link so that its notches tend to be out of engagement with the engaging means and means for positively holding said link during at least a portion of the stroke so that the operating arm engages one of the notches.

1,666,513. ROTARY VALVE MECHANISM. JOHN W. SHANNON, San Rafael, and JOHN F. PAGENDARM, Oakland, Calif., assignors to Shannon Rotary Valve Motor Company, San Francisco, Calif., a Corporation of California. Filed June 15, 1925. Serial No. 37,148. 14 Claims. (Cl. 123—190.)



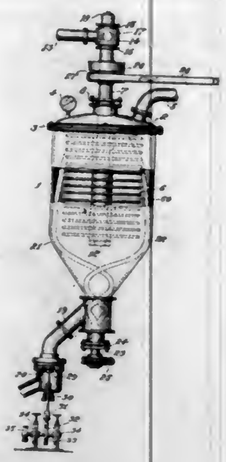
1. In an engine of the character described, a cylinder, a piston, and a cylinder head, a sleeve valve journalled in the head, said sleeve valve and head having ports formed therein in communication with the cylinder, and a pair of sealing plugs mounted in the head and engaging the inner faces of the sleeve valve.

1,666,514. PAPER CLIP. CARLTON C. SIGLER, Cleveland, Ohio. Filed Oct. 13, 1926. Serial No. 141,294. 2 Claims. (Cl. 24—261.)



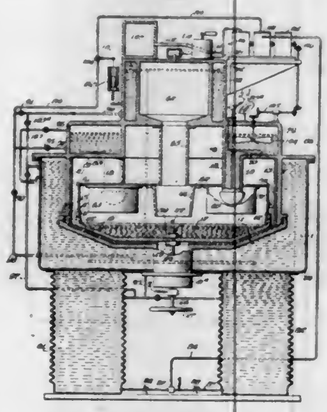
1. A paper clip consisting of a continuous wire bent to form an outer loop and an inner loop continuous therewith, the said loops extending in the same direction and being connected by a loop extending in the opposite direction, the wire forming one side of the outer loop being bent upon itself to form a loop outside of said loops and the extreme end of such wire being bent at substantially a right angle to the plane of the clip and providing a projection of sufficient length to be inserted through several sheets of paper.

1,666,515. FILTER. ERNEST J. SWEETLAND, Montclair, N. J. Filed Dec. 1, 1920. Serial No. 427,652. 15 Claims. (Cl. 210—178.)



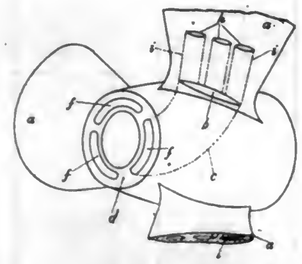
1. In combination, a filter tank, a filtering device rotatably supported in said tank, means for feeding sludge to said tank under pressure, and constructed and arranged automatically to stop the supply of sludge to said tank and to rotate said filtering device to cleanse it, at mechanically determined intervals.

1,666,516. VAPOR RECTIFIER. WILLIAM TSCHUDY, Yonkers, N. Y. Filed Nov. 17, 1919. Serial No. 338,683. 20 Claims. (Cl. 250—27.5.)



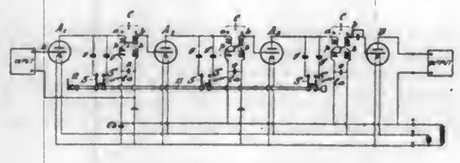
1. A large-capacity vapor rectifier having a stationary vapor chamber and a pair of main electrodes arranged therein and between which is formed the main rectifying arc, and means independent of the flow of current across the arc for adjusting one of said electrodes to and from the other to completely control the electrical characteristics of said arc.

1,666,517. PROPELLING DEVICE FOR SHIPS. EDWARD ERNEST TULLY, Birkenhead, and WILLIAM LOVIS, London, England. Filed Jan. 25, 1927. Serial No. 163,341. 2 Claims. (Cl. 170—172.)



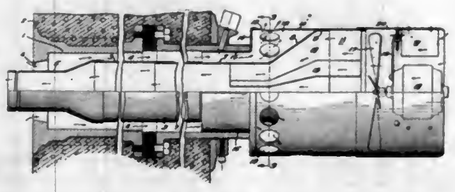
1. A propeller for ships comprising in combination with a plurality of blades formed on a boss, said blades formed with openings at the roots, passages within the boss one extending from each of said openings to the rear end of the boss forwardly of the blade root from which it extends.

1,666,518. RADIOFREQUENCY AMPLIFIER. FREDERICK K. VREELAND, Montclair, N. J., assignor to Vreeland Corporation, Hoboken, N. J., a Corporation of New Jersey. Original application filed Aug. 6, 1923, Serial No. 655,794. Divided and this application filed Apr. 14, 1925. Serial No. 22,928. 9 Claims. (Cl. 179—171.)



1. In an amplifier for high-frequency currents, a plurality of amplifier tubes, coupling means connecting these tubes in cascade, the several coupling means having frequency characteristics which are different for the several component amplifiers and so related to each other that the combined amplifying effect of the system is substantially uniform over a given band of frequencies, and means for simultaneously adding reactances to the coupling means, thereby shifting the frequency relation of the amplification band while preserving its uniform band character.

1,666,519. VAULT VENTILATOR. ROSS R. WEST, San Francisco, Calif. Filed Nov. 2, 1925. Serial No. 66,296. 10 Claims. (Cl. 98—33.)



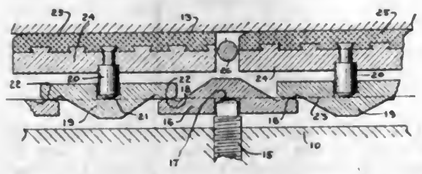
1. In combination with a bank vault having a comparatively small opening in one wall thereof, a ventilating device adapted to be quickly and removably mounted in the opening in said wall and constructed to cause simultaneous circulation of air therethrough into the vault and out thru said opening.

1,666,520. CIGARETTE CASE. GEORGE W. WHITNEY, New York, N. Y. Filed July 10, 1926. Serial No. 121,505. 1 Claim. (Cl. 206—41.)



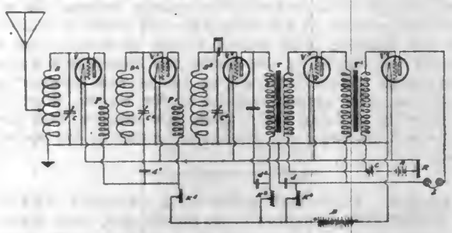
A container of the class described comprising a box portion open at the top for the reception of an article, a cover for the box, a movable plate within the box on which the article is adapted to be placed, a spring beneath the plate, rods secured to the plate, and projecting members on the interior walls of the box portion through which said rods pass, said projecting members serving to guide the rods and to limit the extent of the plate's movement.

1,666,521. THRUST BEARING. ROBERT C. ALLEN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1925. Serial No. 37,711. 1 Claim. (Cl. 308—160.)



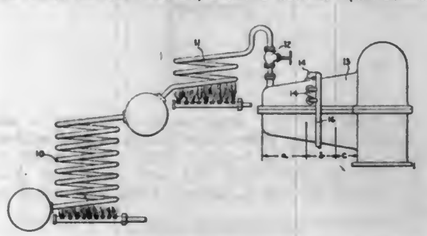
In a thrust bearing the combination of a thrust collar; a supporting member spaced from and in opposed relation with respect to the collar; an annular series of segmental shoes engaging said collar; a pivot projection carried by each shoe and extending toward said supporting member; a plurality of pivot projections carried by the supporting member and arranged alternately with respect to the pivot projections of the shoes and extending toward said collar; all of said pivot projections having their pivot ends tangent to a common normal plane; a first series of rocker members, each of which has an intermediate depressed seat engaging a pivot projection on the supporting member and a pair of rocker bearing portions facing said collar, the rocker bearing portions of the members of the first series being arranged laterally of the seats thereof and tangent to said common normal plane; and a second series of rocker members, each of which has an intermediate depressed seat engaging a pivot projection of a shoe and a pair of rocker bearing portions facing said supporting member, the rocker bearing portions of the members of the second series being arranged laterally of the seats thereof and tangent to said common normal plane; the rocker bearing portions of the members of the second series being in overlapping relation with respect to the rocker bearing portions of the members of the first series and the overlapping rocker bearing portions being in rocking engagement.

1,666,522. VOLUME-CONTROL SYSTEM FOR RADIO-RECEIVERS. EDWARD F. ANDREWS, Chicago, Ill. Filed Nov. 11, 1925. Serial No. 68,254. 5 Claims. (Cl. 250—20.)



1. In an electric amplifying or rectifying system, a thermionic tube, a filament and a plate therefor conductively connected together to form a plate circuit, an impedance and a source of B power in said circuit, a variable resistance of relatively high value in said circuit between said impedance and said filament, and a capacity, one terminal of which is connected to the said plate circuit at a point between said impedance and said variable resistance and the other terminal of which is connected to said plate circuit at a point between the other terminal of said variable resistance and said filament.

1,666,523. TREATMENT OF STEAM TO REDUCE OR PREVENT CORROSION. RICHARD WILLIAM BAILEY, Altrincham, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1921, Serial No. 523,054, and in Great Britain Dec. 20, 1920. 3 Claims. (Cl. 87—27.)



1. The process of minimizing corrosion in machines for abstracting the available energy of steam in the production of mechanical power, and in which steam changes from a superheated to a saturated condition, which consists in injecting an inert liquid diluent into the steam on the high pressure side of the zone of change from superheated to saturated conditions.

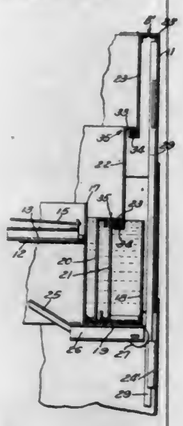
1,666,524. COIN BANK OR RECEPTACLE. ORLAND F. BAUGHMAN and JOSEPH HABART, Lakewood, Ohio, assignors to The Bankers Savings & Credit System Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 11, 1925. Serial No. 29,393. 4 Claims. (Cl. 232—4.)



1. A coin bank comprising a receptacle having a circular opening and a plurality of tongues extending inwardly from the edge portion of said opening and equally spaced apart about the same, a cover having a de-

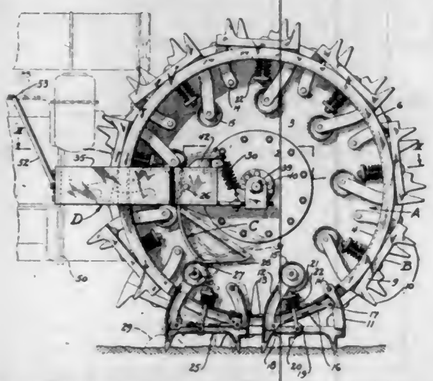
pression fitting within said opening and provided with a plurality of arcuate slots in the peripheral wall of the depression the corresponding ends of said slots being enlarged to provide openings through which said tongues are adapted to be projected, the tongues entering the restricted portions of the slots when the cover is rotated in one direction with respect to the receptacle, and a spring bolt carried by the closure and housed within the depression thereof for engaging one of said tongues to hold the cover against rotation in the reverse direction sufficiently to bring the tongues into register with the aforesaid openings, and means for retracting the spring bolt.

1,666,525. FLOATING ROOF AND SEALING MEANS THEREFOR. CHARLES F. H. BOHNHARDT, Long Beach, Calif., assignor of one-half to Joseph R. Baril, Long Beach, Calif. Filed Aug. 20, 1925. Serial No. 51,371. 7 Claims. (Cl. 220—26.)



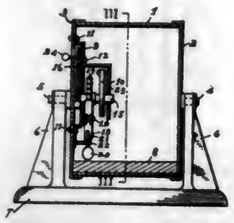
1. A tank and roof construction comprising a main outer shell provided with guides therein; a roof vertically movable between said interior guides; and liquid seal means between said shell and said roof, said guides being engaged by rollers disposed below said liquid seal means.

1,666,526. TRACTION WHEEL. JOHN J. CAMPODONICO, Stockton, Calif. Filed June 26, 1926. Serial No. 118,810. 6 Claims. (Cl. 305—11.)



5. A device of the character described, comprising a traction wheel having a rim portion, a plurality of shoes pivotally attached to the exterior face of the rim and forming a flexible track therefor, an arm on each shoe extending inwardly through the rim, a roller on each arm, a pivotally mounted cam member directly engaging the rollers during a portion of the revolution of the wheel and adapted to swing the shoes about their pivots so that they will assume a substantially horizontal position as they approach the ground surface over which the wheel travels, and a spring connected with the cam to resiliently support the cam while in engagement with the shoes.

1,666,527. MECHANICAL TOY. JOHN W. CULP, Johnstown, Pa. Filed Feb. 25, 1927. Serial No. 171,032. 10 Claims. (Cl. 273—138.)



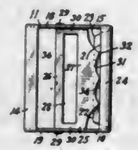
1. A mechanical toy of the character described comprising a revoluble body portion, an indicator member carried by said body portion, and means for automatically shifting said indicator an equal predetermined distance upon each revolution of said body portion.

1,666,528. BUCKLE. CHARLES J. DAHLGREN, East Orange, N. J. Filed Oct. 30, 1925. Serial No. 65,730. 7 Claims. (Cl. 24—191.)



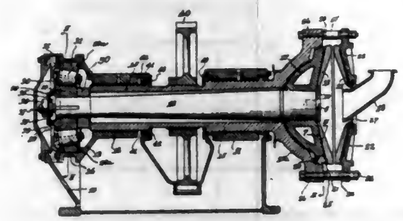
1. A buckle comprising a buckle frame, a tongue frame, and arms on said tongue frame pivoted to said buckle frame and slightly spread apart to provide a varying distance therebetween for engaging the sides of and snapping past said buckle frame on the rotation of said tongue frame into operative position, said distance at one point being greater than the inside width of said frame and at another point being less than the inside width of said frame.

1,666,529. BUCKLE. CHARLES J. DAHLGREN, East Orange, N. J. Filed Aug. 13, 1926. Serial No. 128,932. 11 Claims. (Cl. 24—191.)



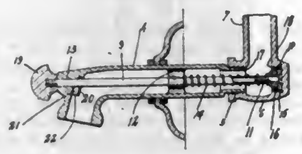
3. A buckle comprising a frame, depending sides on said frame, and a swingable member formed of a single piece of sheet material having an opening therein and including a hinge bar integral with and forming one end of said member on one side of said opening, lugs on said hinge bar inserted for swinging movement in the sides of the frame, and a belt engaging member on the other side of said opening.

1,666,530. CRUSHING MACHINE. JOHN A. DORMER and JAMES GUNNELL MALONE, Detroit, Mich. Filed Sept. 29, 1926. Serial No. 138,375. 7 Claims. (Cl. 83—10.)



1. In a crushing machine, the combination with a driven hollow shaft having a socket extension, a conical crushing plate carried thereby, a shaft within said hollow shaft having a crushing head and a conical crushing plate oppositely disposed to first named plate, means to connect said plate with said socket whereby both shafts are driven in unison, a cam secured to the opposite end of said shaft, rollers engaging with said cam and arranged between said cam and a stationary bearing surface, and means to adjust the cam longitudinally.

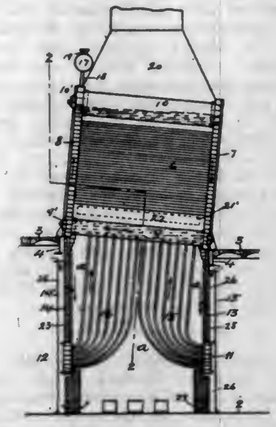
1,666,531. DIVERTER VALVE. MYRON J. GLAUBER, Los Angeles, Calif. Filed Sept. 26, 1927. Serial No. 221,957. 9 Claims. (Cl. 251—137.)



1. In a diverter valve, the combination of a spout, a valve rod extending longitudinally of the spout, a plunger secured to the valve rod, and means for yieldably holding the plunger in non-diverting position.

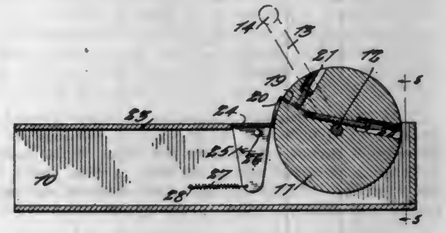
1,666,532. STEEPLED RADIANT-HEAT STEAM BOILER. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Mar. 15, 1924. Serial No. 699,594. 11 Claims. (Cl. 122—235.)

1. A casing or setting containing a tall combustion chamber admitting of the substantially natural maturity therein of the flame of a body of long flaming fire, in combination with a steam boiler comprising a radiant heat absorbing portion in said chamber and a convected heat absorbing portion positioned above said chamber to receive the hot gases therefrom, said radiant heat absorbing portion including opposed parallel header members near the bottom of said chamber, parallel horizontally extending intermediate drums in the upper portion of said chamber and a minor extent of heat absorbing circulating tubes rising from said header members to said drums and widely spaced in and across said chamber, and said convected heat absorbing portion including upright wall forming header member connected to the ends of said intermediate drums, a major extent of substantially horizontally extending heat absorbing circulating tubes connecting said upright header



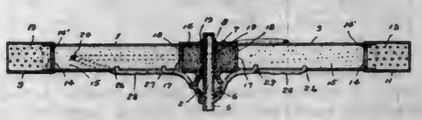
members, and a superheater member located above said intermediate drums and below said horizontally extending circulating tubes.

1,666,533. ENVELOPE OPENER. CLARENCE P. HECK and JOHN R. SATER, Hope, Ind. Filed May 12, 1927. Serial No. 190,937. 4 Claims. (Cl. 164—66.)



1. In an envelope opener, a casing, a drum rotatably mounted therein, a blade diagonally mounted in the drum and projecting from the periphery thereof, means for holding the blade at different positions of adjustment, a blade oscillatably mounted in the casing and having its edge engaging the edge of the first mentioned blade, and means for holding the second mentioned blade in engagement with the first mentioned blade.

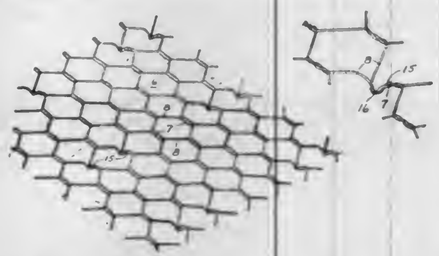
1,666,534. REVOLVING ROCKET. THOMAS G. HITT, Seattle, Wash. Filed July 16, 1927. Serial No. 206,250. 3 Claims. (Cl. 102—23.)



1. A revolving rocket, comprising a plurality of chambers arranged horizontally with the inner ends thereof converging toward a central point, a guide tube affixed to the inner ends of the chambers perpendicularly at right angles therewith, the tube open at the bottom for

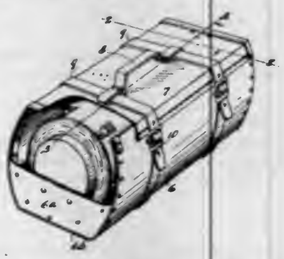
operating over a pivot point, caps at the outer ends of the chambers filled with explosive and display material, and a short section of each chamber adjacent the tube, filled with destructive explosive for shattering the parts of the apparatus at a predetermined time, abutments across the chambers for separating the destructive explosive and the display explosives from the remainder of the chamber, excepting however and with a small opening through the abutments for contact therethrough of fire from the chambers into the said display explosive in the cap and the destructive explosive at predetermined times, the remainder part of the chambers filled with slow burning explosive, with holes in the sides of the chambers for the escape of gases caused by the burning of the slow burning explosive for revolving the rocket, and holes in the bottoms of the chambers for the escape of gases from the same slow burning explosive for causing the rocket to ascend, with a quick match contacting with each of the holes in the sides first and thereafter with the holes in the bottoms of the chambers for igniting the slow burning explosive.

1,666,535. SELF-FURRING PLASTER NETTING. OTTO W. JOHNSON, Oakland, Calif., assignor, by mesne assignments, to Krimpwire Company, Oakland, Calif., a Corporation of California. Filed Dec. 29, 1924. Serial No. 758,589. 11 Claims. (Cl. 72—120.)



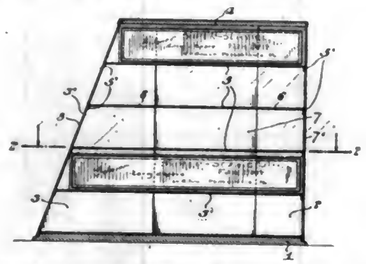
11. A plaster netting comprising a fabric formed of intersecting strands and having strand portions at an intersection thereof offset from the plane of the netting to define a pyramid having its base in said plane, the offset portions of said strands lying between the intersection and defining edges of the pyramid.

1,666,536. CLOTHES CARRIER. OLEA KVARE, McIntosh, Minn. Filed Oct. 26, 1925. Serial No. 64,847. 9 Claims. (Cl. 190—41.)



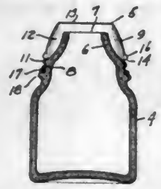
1. A clothes-carrying device having in combination, a casing, a readily removable carrier therein having a substantially continuous smooth exterior peripheral surface adapted to have a garment wrapped thereabout and supported thereon, means for holding said garment on the exterior of said carrier, and means for supporting said carrier in said casing in a stationary position so that said carrier and garment thereon are spaced from the walls of said casing.

1,666,537. PORTABLE MERCHANDISING CASE. C. WELLINGTON LEWIS, Glenside, Pa., assignor to L. H. Gilmer Co., Philadelphia, Pa., a Corporation of New Jersey. Filed June 18, 1923. Serial No. 646,253. 2 Claims. (Cl. 312—141.)



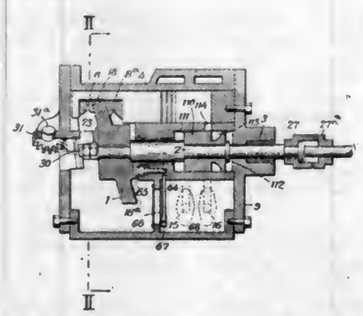
1. A portable merchandising case comprising a frame having a top, bottom and side members, horizontal partitions connected with said side members, and a sheathing of sheet material for said frame and comprising side walls having flanges engaging edges of said partitions to prevent removal thereof from said side members.

1,666,538. INSECT-POISON FEEDER. LEO A. MATTES, Berkeley, Calif. Filed Aug. 16, 1927. Serial No. 213,261. 4 Claims. (Cl. 43—131.)



1. An insect poison feeder comprising a container having an externally threaded portion below the upper edge thereof, a cover provided with a threaded portion engaging said first portion and having its top and side walls respectively entirely spaced from the top and sides of the container above the threaded portion thereof, and entrance means in said cover above the threads.

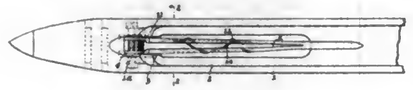
1,666,539. SWASH-PLATE OR SLANT TYPE RECIPROCO-ROTARY MECHANISM. ANTHONY GEORGE MALDON MICHELL, Melbourne, Victoria, Australia, assignor to Crankless Engines Limited, Melbourne, Victoria, Australia. Filed May 23, 1924, Serial No. 715,491, and in Australia July 4, 1923. 18 Claims. (Cl. 74—14.)



1. In mechanism for the inter-conversion of reciprocating and rotary motions, a slant, less than three reciprocable elements coacting therewith, and means

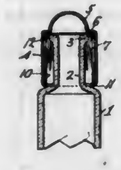
to simultaneously permit and control longitudinal movement of the slant along its axis of rotation synchronously with the rotation.

1,666,540. SHUTTLE. LUIGI PAVIA, Allentown, Pa. Filed Aug. 6, 1927. Serial No. 211,207. 3 Claims. (Cl. 139—210.)



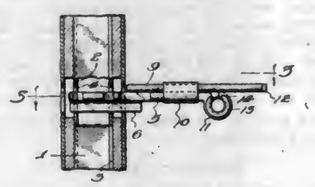
1. The combination of a shuttle body having a weft-package cavity and a spindle pivoted in said body on an axis traversing the cavity, said spindle being split from near its free end to its other end and thus having legs, means near the spindle pivot to spread apart said legs when the spindle is depressed, said body having means to press said legs together when the spindle is raised, and a spring interposed between the legs at a point between said means and the free end of the spindle and also active to spread apart said legs when the spindle is depressed.

1,666,541. PERFUME BOTTLE AND CAP. PHILIP A. REUTTER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 30, 1925. Serial No. 5,683. 6 Claims. (Cl. 215—38.)



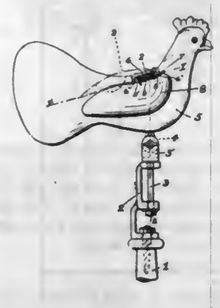
1. A bottle or vial having a mouth and a removable and replaceable closing cap therefor, a shell inside the cap, complementary engaging lip and groove devices on the bottle and shell for permitting bodily removal and replacement of the cap and shell on the bottle, and means for securing the shell in the cap.

1,666,542. SAFETY DEVICE FOR LOCKS. GEORGE SCALLY, Chicago, Ill. Filed Nov. 18, 1926. Serial No. 149,012. 5 Claims. (Cl. 70—8.)



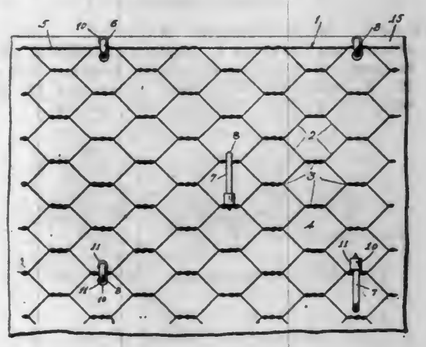
1. A device of the character described comprising a stem having a long narrow radial wing at one end, said stem being grooved at two points distributed along said wing a distance equal to the thickness of a lock casing, to permit the stem to drop down into the narrow portions of the key hole slots in the casing after being inserted in the large ends of the slots, and a guard member adapted to overlie the stem within the large ends of the key holes, and means for detachably locking said guard member and stem together.

1,666,543. WIND-ACTUATED NOVELTY. WALTER P. VINCENT, Portland, Me. Filed Dec. 18, 1926. Serial No. 154,579. 2 Claims. (Cl. 46—40.)



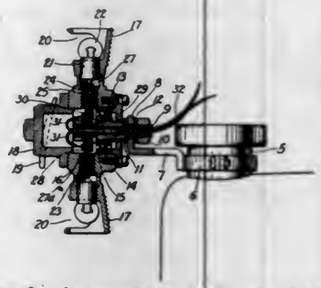
1. In a device of the character described, comprising in combination, a central member, representing the major, body portion of an animate object, a side member, representing a minor portion of said animate object, oscillatively connected to and located on each side of said central member and having a portion of its inner side, at its forward end, cut away, for the purpose of providing a space between said central and each of said side members at the before mentioned location when said members are at all other adjacent points mutually abutting.

1,665,544. PLASTERER'S GRILLE. GEORGE F. VOIGHT, Oakland, Calif., assignor to Economy Products Corporation, a Corporation of California. Filed Feb. 19, 1923. Serial No. 620,084. 5 Claims. (Cl. 72—118.)



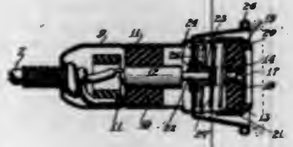
3. The combination with a grille of the character described, of a fastening bracket permanently carried by the grille and comprising, a two pronged staple straddling a portion of said grille, and a spacing element mounted upon the free end of one of the prongs of said staple.

1,666,545. SIGN FOR AUTOMOBILES. MURRAY WITT, Brooklyn, N. Y., assignor, by mesne assignments, to Atlas Manufacturing Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1927. Serial No. 225,565. 6 Claims. (Cl. 240—8.11.)



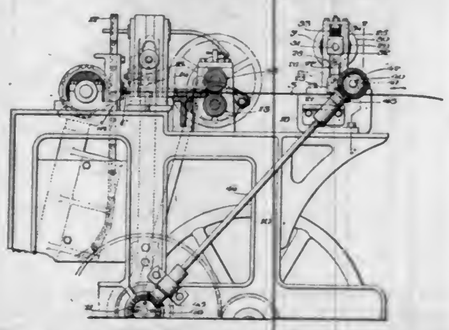
2. A sign for the purpose set forth, comprising a series of radial cylinders having electric lamps on the cylinders, and their current supply, a revoluble air propeller, electric switches controlling the lamps and means whereby the revoluble air propeller operates the switches and thus controls the lighting of the lamps.

1,666,546. ELECTRIC LIGHTER FOR CIGARS, CIGARETTES, ETC. SIDNEY L. WOLFSON, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 18, 1928. Serial No. 255,341. 8 Claims. (Cl. 219—32.)



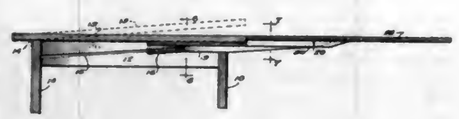
1. An electric lighter of the character described comprising a casing having an igniter unit in its outer end, a stationary contact within the casing, a sliding switch member mounted on said stationary contact adapted to electrically connect with one end of the igniter unit when drawn out.

1,666,547. MATCH-MAKING MACHINE. JOSEPH E. ZOMNIR and CLARENCE L. PFERSCH, Springfield, Mass., assignors to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed May 27, 1927. Serial No. 194,617. 7 Claims. (Cl. 144—51.)



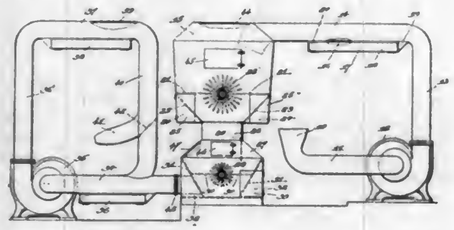
1. In a match making machine having a carrier for the match splints, splint cutting mechanism, and means for feeding a web of match stock to said mechanism and the carrier, a paraffin containing tank located in advance of the said mechanism, directly below the path of the web of match stock, a paraffin transfer element in said tank, and means for effecting relative vertical movement between the web of match stock and the transfer element, whereby said element successively acts upon spaced-apart portions of one surface of the web.

1,666,548. COMBINED IRONING BOARD AND TABLE. EDWARD PETER ANDERSON and ARTHUR NILS ANDERSON, Tumwater, Wash. Filed Apr. 12, 1926. Serial No. 101,545. 6 Claims. (Cl. 68—10.)



1. A device of the character described comprising a table having a hinged top and a pair of substantially parallel side members provided in their inner faces with substantially parallel upwardly inclined grooves, a slide mounted in said grooves, a track carried by said slide and provided with a lower inclined face which is adapted to slide on a portion of said table, the upper ends of said grooves being in substantially the same horizontal plane as the portion of said table on which said lower inclined face is adapted to slide, an ironing board, and a pair of guides carried by said board and engaging said track.

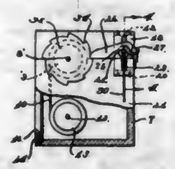
1,666,549. MATTRESS-FILLING MACHINE. PHILLIP BAKER, Mattapan, Mass., assignor to Paramount Bedding Machine Co., of Boston, a Corporation. Filed Feb. 17, 1926. Serial No. 88,794. 4 Claims. (Cl. 9—93.)



1. A machine for treating mattress filling having, in combination, two superposed tanks, a beater in each tank, means for delivering material to the upper tank, a connection between the tanks to permit material to fall by gravity from the upper to the lower tank for a secondary beating operation in the latter while a fresh charge is being simultaneously beaten in the former, a closure in the connection, a blower, a pipe leading from the second tank to the blower, and a discharge pipe connected with the blower.

1,666,550. STREET INDICATOR. EMANUEL L. BUTLER, Detroit, Mich. Filed Mar. 30, 1927. Serial No. 179,689. 3 Claims. (Cl. 40—87.)

1. A street indicator of the class described, comprising a housing; rollers mounted in said housing; a flexible display member rolled on said rollers; a ratchet wheel rotatable with one of said rollers; a U-shaped bracket positioned exterior of said housing having an elongated slot formed in its bight; a stud projected through said slot; a dog mounted on said stud, said dog engaging

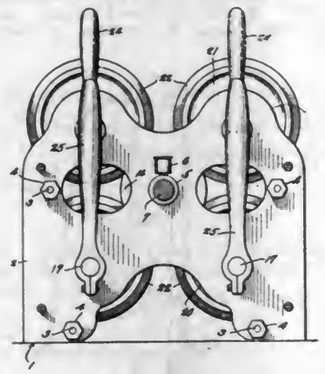


the teeth on said ratchet wheel; means for moving said dog in one direction for effecting rotation of said roller; and means for moving said dog in the opposite direction.

1,666,551. PROCESS OF TREATING VEGETABLE PRODUCE. JAMES BAYLEY BUTLER and JAMES JOSEPH DRUMM, Dublin, Irish Free State. Filed Oct. 7, 1926, Serial No. 140,209, and in Great Britain Nov. 30, 1925. 3 Claims. (Cl. 99—11.)

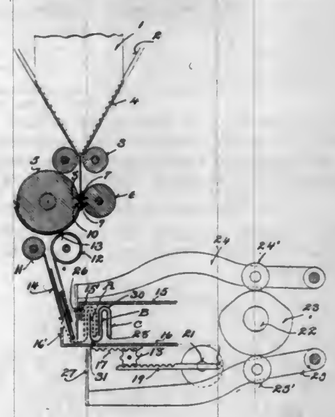
1. The process of preserving vegetable produce which includes the step of impregnating the produce with a solution of disodium hydrogen phosphate of P_H concentration between 7.0 and 8.3.

1,666,552. GURDY. IVAR CHILMAN, Hoquiam, Wash. Filed June 21, 1926. Serial No. 117,492. 1 Claim. (Cl. 242—85.)



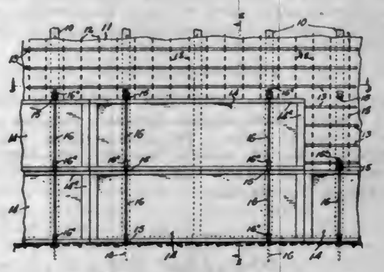
A gurdy constructed to permit compactness and ready handling in a small boat, and comprising a frame embodying side plates and connections joining the side plates, a main shaft journaled in the side plates and located near to the geometrical centers in the side plates, means for rotating the main shaft from a point outside of the frame, a driving member secured to the main shaft and located between the side plates, a pair of upper auxiliary shafts and a pair of lower auxiliary shafts, the upper and lower auxiliary shafts being arranged in a rectangle around the main shaft and having eccentric ends mounted to lock in the side plates, drums journaled on the auxiliary shafts and located between the side plates, inwardly extended flanges on the side plates and located near to the upper and lower corners of the side plates, brakes, means for holding the brakes detachably in abutment with the flanges, the drums being disposed between the driving member and the brakes and being spaced from the brakes and from the driving member and a handle on each auxiliary shaft, the handle constituting means for locking each auxiliary shaft independently of the others, in opposite directions, to carry the drums into engagement with the driving member, or into the handles of the upper pair of auxiliary shafts being located nearer to one of the side plates than the handles of the lower pair of auxiliary shafts being longer than the handles of the upper pair of auxiliary shafts.

1,666,553. INTERFOLDING MACHINE. PETER J. CHRISTMAN, Green Bay, Wis. Filed Oct. 22, 1927. Serial No. 228,004. 7 Claims. (Cl. 270—39.)



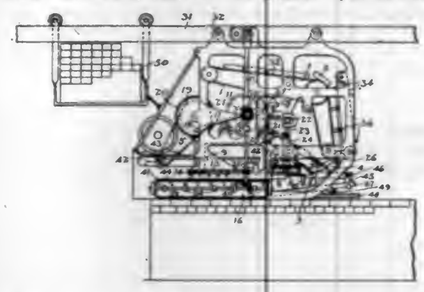
1. In a machine for producing a multifolded package of paper, the combination of means for initially folding the web longitudinally, means for severing the web into strips, mechanism for folding the severed strips transversely, and means for interfolding the previously folded strips to form a continuous package, consisting of engaged units, the last fold of each unit being overlapped by a portion of the succeeding unit.

1,666,554. WALL CONSTRUCTION AND METHOD OF AND APPARATUS FOR BUILDING SAME. EDWIN D. CODDINGTON, North Milwaukee, Wis. Filed Mar. 28, 1925. Serial No. 19,012. 8 Claims. (Cl. 25—131.



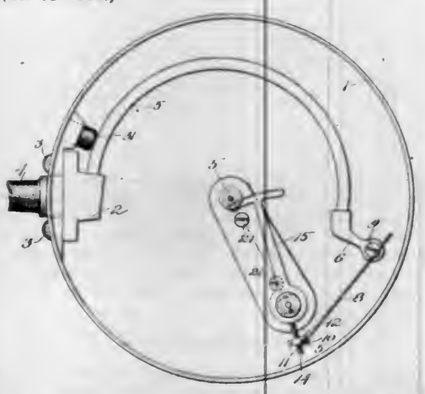
1. The method of forming a wall composed wholly or partly of plastic material adjacent the wall studs of a frame building, which method consists in permanently securing a metal reinforced building fabric to the studs in such wise that the same may be utilized both as a form during construction of the wall and as insulation for the building, and then constructing said wall immediately against said fabric so that a permanent bond is formed between the plastic material of said wall and the reinforcing elements of said fabric.

1,666,555. MACHINE FOR LAYING BRICKS. ROBERT G. COTTIER, Bradford, Ontario, Canada. Filed Nov. 20, 1924. Serial No. 751,093. 17 Claims. (Cl. 72—129.)



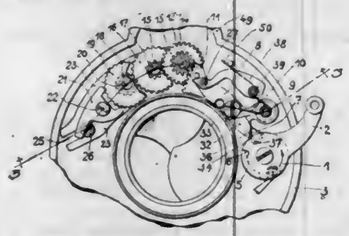
1. The combination in a brick laying machine, a chute for delivery of bricks lengthwise as stretchers and a turning device disposed at the bottom of the chute adapted to turn the bricks crosswise when required as headers.

1,666,556. GAUGE. AUSTIN O. CRAVIN, Chicago, Ill. Filed Dec. 29, 1925. Serial No. 78,083. 16 Claims. (Cl. 73—109.)



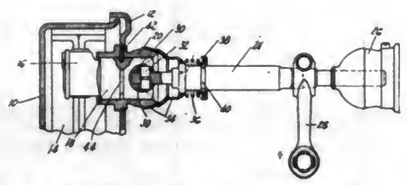
1. A gauge comprising a sector; a member rotatably and adjustably mounted on said sector, the axis of rotation of said member extending substantially radially with reference to the pivot of the sector; resilient means operatively connected with said Bourdon spring and operatively connected with said adjustable member.

1,666,557. CAMERA SHUTTER. FRIEDRICH DECKEL and MARTIN GEIGER, Munich, Germany, assignors to the firm: Friedrich Deckel, Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Filed Mar. 16, 1925, Serial No. 15,722, and in Germany Apr. 9, 1924. 15 Claims. (Cl. 95—63.)



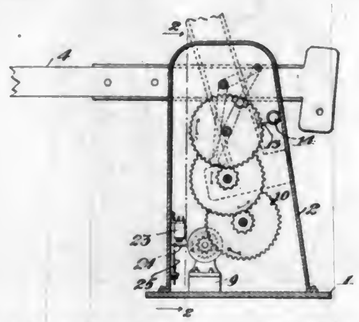
1. In a photographic shutter the combination with a blade mechanism, and a motor member for operating the same, of a support, and a retarding device mounted to move bodily and also rotatably on said support and also driven by the motor member.

1,666,558. BRAKE-OPERATING MEANS. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Oct. 27, 1927. Serial No. 228,997. 6 Claims. (Cl. 188—194.)



2. In combination with a supporting part provided with an opening, a bracket provided with a part received in and guided by the walls of said opening and provided with an abutment for governing the axial position thereof in respect to said support, an opening in said bracket extending within the walls of said support, a slot in said bracket extending radially to the last mentioned opening and communicating therewith and being outwardly closed by the walls of the first mentioned opening, a shaft received in said last mentioned opening, a circumferential groove in said shaft in line with said slot, and a key received in both said slot and said groove and prevented from displacement by the walls of said first mentioned opening.

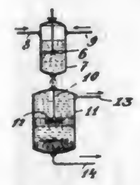
1,666,559. AUTOMATIC ELECTRIC RAILROAD-CROSSING GATE. RALPH O. DORGAN, Mobile, Ala. Filed Apr. 29, 1927. Serial No. 187,530. 2 Claims. (Cl. 39—7.)



1. In an apparatus of the class described, the combination with a gate casing, of an oscillating driven shaft journalled upon said casing, a crank shaft journalled upon said casing, an arm secured to said driven shaft, means pivotally connecting said arm to said crank shaft, a gate fixedly secured to said driven shaft, a ratchet switch provided with an operating finger on said gate casing, said crank shaft provided with means engaging said operating finger for actuating said switch, and means for rotating said crank shaft.

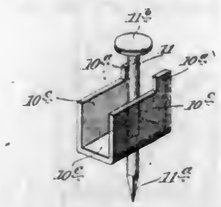
1,666,560. METHOD OF REFINING HEAVY MINERAL OILS BY MEANS OF SULPHUR DIOXIDE IN A CONTINUOUS OPERATION. LAZAR EDELEANU, KARL PFEIFFER, KARL GRESS, and PAUL JODECK, Berlin, Germany. Filed June 25, 1927, Serial No. 201,474, and in Germany June 12, 1924. 3 Claims. (Cl. 196—37.)

1. In a process for refining heavy mineral oils by means of sulphur dioxide in continuous operation; preparing an intimate mixture of the oil and the sulphur dioxide in a vessel by means of a churning device, continuously supplying the mixture to a settling receptacle



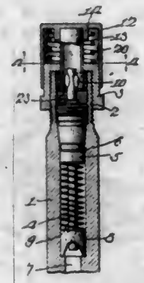
with a successively decreasing speed and at a zone located about in the midst of the mixture already contained in said receptacle.

1,666,561. LATH-SPACING NAIL. WILLIAM W. GALBREATH, Warren, Ohio, assignor to The Youngstown Pressed Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 28, 1927. Serial No. 187,288. 6 Claims. (Cl. 72—118.)



6. A spacer and support adapted for applying expanded metal lath, comprising a base web and spaced flanges projecting therefrom and equipped with ears, said web having a perforation therethrough adapted to receive a nail with space between the nail and ears for an intervening member of the metal lath.

1,666,562. PNEUMATIC-TIRE VALVE. JULES P. GITS, Chicago, Ill. Filed Nov. 14, 1927. Serial No. 232,991. 10 Claims. (Cl. 152—12.)



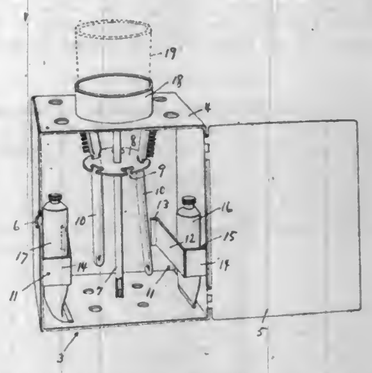
1. A tire valve comprising a casing, valve mechanism positioned therein, a cap for said casing, and means associated with said cap for holding said valve locked on its seat.

1,666,563. INSTRUMENT FOR SETTING UP PROFILES. SIGURD HAGEN, Drammen, Norway. Filed Sept. 16, 1926, Serial No. 135,945, and in Norway July 30, 1925. 4 Claims. (Cl. 234—8.)



4. In a profile recording instrument, a rotatable driving disk, mounting means for said disk permitting free swinging thereof in accordance with inclination of said instrument, and means comprising the inertia of said disk for compensating for shocks and irregular movements of said instrument.

1,666,564. TOILET-ARTICLE HOLDER. ELMER L. HAHN, McAllen, Tex. Filed June 15, 1927. Serial No. 198,964. 2 Claims. (Cl. 132—84.)

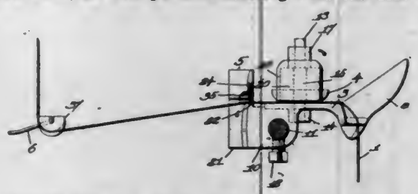


1. As a new product of manufacture, a toilet article holder of the class described comprising an open front housing, a closure for said front, article racks in said housing, means in said housing for supporting tooth brushes, said tooth brush supporting means embodying a standard located centrally in the housing and fastened to the top and bottom walls and carrying a notched disk, and a ring-like band fastened to the exterior of the top of the housing and forming a receptacle for reception of a drinking glass.

1,666,565. SLUB CATCHER AND TENSION FOR DOUBLING MACHINES. FRANK E. HARDING, Lawrence, Mass., assignor to Arlington Mills, Lawrence, Mass., a Corporation of Massachusetts. Filed June 4, 1925. Serial No. 34,846. 1 Claim. (Cl. 28—71.)

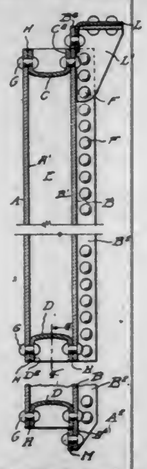
A tension and slub catcher for doubling machines comprising a tension plate provided with an integral perforated ear to receive a supporting rod and with a vertical stud hole, a stud having a reduced diameter lower end supported in the stud hole in the plate with its shoulder engaging the upper surface of the plate and also having an upper end of reduced diameter, a dish-shaped tension disk having a hole in its center somewhat larger than that of the unreduced portion of the stud and supported thereon, a threading guide having a hub supported on and fitting the reduced upper end of the stud and having a shield portion extending

outwardly from the hub beyond the periphery of the tension disk and then downwardly toward the surface of the tension plate, the space between the lower edge of the shield and the plate being fixed by the shoulder on the stud, the tension plate being provided with two forwardly extended horns, one extending forwardly and upwardly from the plate and the other extending forwardly and at a sharp angle to the first horn to form a thread guiding groove and then outwardly and laterally at an obtuse angle to its first direction, thus forming an angular horn, its two portions forming with the first horn



a narrow groove and a wide mouth leading to the groove, and a slub catcher consisting of two jaws of which the lower is formed integrally with the ear of the tension plate and the upper consists of a separate member carrying two dowel pins projecting into two holes in the lower jaw to maintain it in correct position with relation thereto, the jaws being provided with opposed spring recesses, a spring in the recesses normally tending to hold the jaws apart, and a screw to adjust the position of the upper jaw with relation to the lower one.

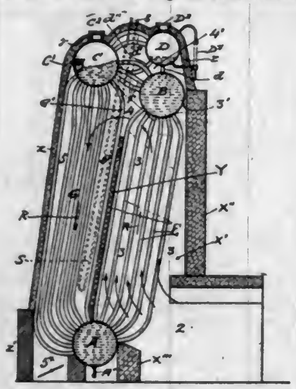
1,666,566. STEAM-BOILER HEADER. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Mar. 10, 1924. Serial No. 698,213. 2 Claims. (Cl. 122—360.)



1. The herein described header comprising, in combination, deep and shallow channels having their flanges nested and riveted together, leaving a steam-and-water space between them, suitably fastened plugs closing the ends of said space, and the shallow channel being extended endwise beyond one or both said plugs to provide anchorage supports for the header.

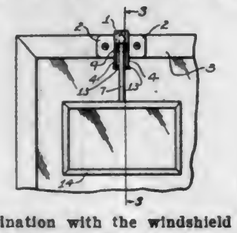
1,666,567. RADIANT-HEAT STEAM BOILER AND SETTING. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Mar. 15, 1924. Serial No. 699,595. 5 Claims. (Cl. 122—302.)

1. A steam boiler of the water tube type comprising a submerged head drum, in combination with a steam-and-water drum thereabove and in free water and steam communication therewith but remote in the direction of gas flow, a rate gaging drum above and in copious water connection with the top of said submerged drum



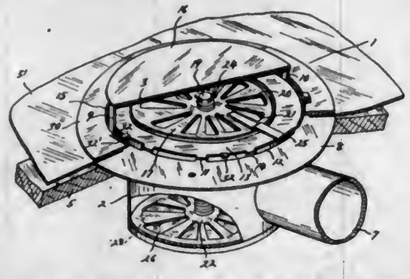
and having its lower part in more restricted water communication with the lower part of said steam-and-water drum.

1,666,568. GLARE OR LIGHT SHIELD. AVIS JACKSON, East St. Louis, Ill. Filed June 16, 1927. Serial No. 199,186. 3 Claims. (Cl. 296—97.)



2. In combination with the windshield of an automobile, a light shield, comprising a bracket secured to the windshield, the said bracket having a pair of spaced, vertically disposed disc-like ears, the said ears having transversely aligned pairs of peripheral lock notches; a shutter arm slidably mounted between the said ears, the said arm having a longitudinal slot through its inner end; a pivot pin passed transversely through the center of the ears and through the said slot of the shutter arm; a latch pin in the shutter arm adapted to engage the peripheral lock notches of the said ears; and means for normally drawing the shutter arm inwardly between the said ears of the bracket.

1,666,569. REGISTER. JAMES W. KELCH and JAMES J. SUNDAY, Detroit, Mich.; said Sunday assignor to said Kelch. Filed Mar. 15, 1926. Serial No. 94,974. 15 Claims. (Cl. 98—2.)



1. An air register having a hollow body provided with a lateral flange at the open end thereof, a bearing

plate secured to said flange, and a cover for said body having depending spacer lugs resting on said plate and having other lugs secured to said flange.

1,666,570. SOUND-AMPLIFYING CONSTRUCTION. JACOB KERSTEN, Allegan, Mich. Filed Dec. 14, 1925. Serial No. 75,191. 10 Claims. (Cl. 181—27.)



1. A device of the class described comprising two conical shell members having their base edges abutting, one of said members having openings therethrough and each of said members at its lower side being formed with a downwardly projecting portion which when brought together form a downwardly extending neck, a clamping ring located around the abutting edges of the members for securing them together, and an amplifying horn located within the shell made by said members having a sleeve at its lower portion extending downwardly through the neck of the shell and adapted to have a loud speaker unit connected therewith.

1,666,571. SOUND-AMPLYING HORN. JACOB KERSTEN, Kalamazoo, Mich. Filed Mar. 28, 1927. Serial No. 178,851. 4 Claims. (Cl. 181—27.)



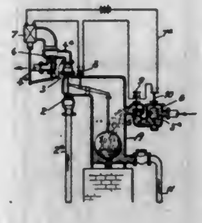
1. An amplifying horn, comprising an inner rigid body of cementitious material, stretched elastic fabric on the inner side of the horn inside of said body, inelastic coarse fabric on the outer side of said body, and tough paper outside of and covering the second fabric.

1,666,572. PISTON-CLEANING TOOL. JUAN KLEIN, St. Louis, Mo. Filed Apr. 13, 1927. Serial No. 183,537. 17 Claims. (Cl. 15—104.01.)



1. A piston cleaning tool comprising an encircling member having an operating handle; a holder slidably mounted in said handle; and a pair of blades mounted on said holder one blade adjustable with relation to the other, and which are adapted to clean and scrape the piston ring grooves.

1,666,573. DEVICE FOR RETURNING WATER OF CONDENSATION TO BOILERS. HUBERT KRANTZ, Aachen, Germany. Filed Nov. 29, 1926, Serial No. 151,557, and in Germany Jan. 18, 1926. 8 Claims. (Cl. 137—101.)



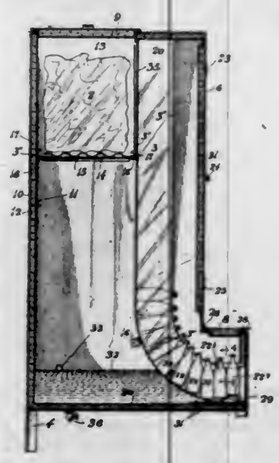
1. A device for returning water of condensation to boiler, comprising a receiver, a conduit for supplying water of condensation to the receiver, a steam inlet valve, a steam exhaust conduit, a primary steam outlet valve in this exhaust conduit, a float in the receiver for controlling both the steam inlet valve and the primary steam outlet valve, a secondary steam outlet valve in the steam exhaust conduit behind the primary steam outlet valve, and means for closing this secondary steam outlet valve as soon as the flow of the water of condensation from the supply pipe into the receiver has begun.

1,666,574. HAIR-CURLING APPARATUS. PAUL KUNIN, Minneapolis, Minn. Filed Oct. 5, 1925. Serial No. 60,448. 3 Claims. (Cl. 132—36.1.)



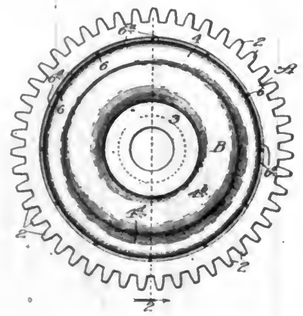
1. In apparatus for curling hair, a heating device comprising a tubular heating chamber, a curling rod adapted to be disposed longitudinally within said heating chamber, a shield of dielectric material permanently carried by the outer end of said curling rod and having a substantially cylindrical portion adapted to be forced into the outer end of said heating chamber to substantially close the same and center the outer end of said rod.

1,666,575. GRAVITY-FEED BOTTLE COOLING AND DISPENSING CABINET. ROBERT E. LEE, Cincinnati, Ohio. Filed Mar. 30, 1926. Serial No. 98,467. 4 Claims. (Cl. 312—36.)



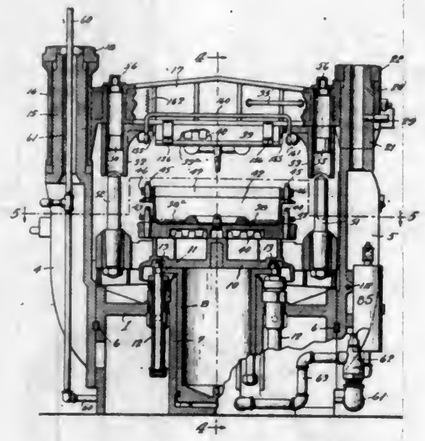
4. In a bottle cooler and feeder, a partition having a vertical front flange recessed near its top and curved downwardly and outwardly near the bottom and bent vertically near its lower end with a lateral holding flange at the end.

1,666,576. SILENT GEAR AND METHOD OF MANUFACTURE. ROBERT W. LYTLE, Cincinnati, Ohio, assignor to The Formica Insulation Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 5, 1925. Serial No. 7,176. 6 Claims. (Cl. 74—28.)



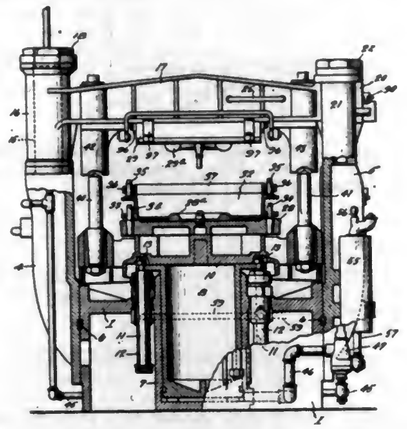
1. A gear comprising an annulus of compacted and hardened fibre and a binder, a central bushing, and a corrugated sheet-metal disk held under radial compression between said bushing and said annulus and equipped with a slitted flange, said flange having interlocking connection with said annulus.

1,666,577. MOLDING MACHINE. FRANK E. MCCABE, Chagrin Falls, Ohio, assignor to The Rathbone Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 21, 1924. Serial No. 733,364. 39 Claims. (Cl. 22—30.)



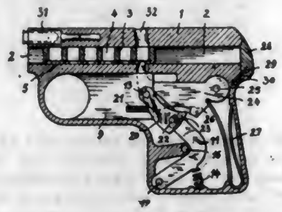
1. In a molding machine, the combination of a frame structure, a ramming head movably supported thereby, a pressure head carried by the frame structure and adapted to be moved to and from a position in operative relation to the ramming head, means for moving the ramming head toward and from the pressure head, and means carried by said heads and cooperating to properly align the heads as the ramming head approaches the pressure head.

1,666,578. AUTOMATIC CONTROL FOR THE RAMMING HEADS OF MOLDING MACHINES. FRANK E. MCCABE, Chagrin Falls, Ohio, assignor to The Rathbone Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 5, 1926. Serial No. 86,147. 15 Claims. (Cl. 22—30.)



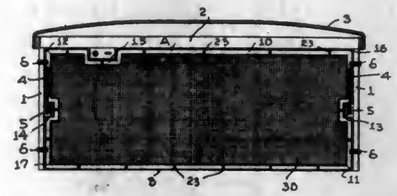
1. In a molding machine, the combination of opposed heads that are relatively movable toward and from each other, means for effecting relative movement of the heads, a fluid container, a fluid displacing element operating in said container, said container and said displacing element being connected to the respective heads in such manner that the container and displacing element are restricted to substantially the same relative movement as the heads, a valve for controlling the escape of fluid from the container, said valve incorporating an orifice and a closure that is movable toward and from the orifice, and means dependent for its actuation upon the relative movement between the heads for automatically adjusting the closure toward and from said orifice thereby to effect a movement of variable speed between the heads.

1,666,579. SCARING PISTOL. FRANZ MÖLLER, Zella-Mehlis, MARTIN MORITZ, and ALBIN GERSTENBERGER, Chemnitz, Germany. Filed June 4, 1927, Serial No. 196,556, and in Germany June 8, 1926. 4 Claims. (Cl. 42—54.)



1. In a scaring pistol in combination, a casing, a cartridge carrying loading strip within the casing and movable lengthwise thereof, smoke-educting means in the casing and cooperating with the strip, spring actuated feeding means engageable with the strip, a spring actuated cock, adapted for engagement with the strip and with the cartridges thereon, a trigger within the casing, a feeding lever, linked to the feeding means, a tensioning lever, engageable with the cock, link connection of the tensioning lever with the trigger, and cam actuating means on the trigger engageable with the feeding lever, and adapted to operate the feeding means and the cock upon the movement of the trigger.

1,666,580. SCREEN. JOHN HENRY PARK, Harrisburg, Pa. Filed Apr. 12, 1926. Serial No. 101,383. 2 Claims. (Cl. 156—14.)



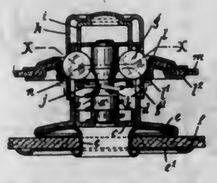
1. A screen for automobile windshields composed of two separable L-shaped frame members of U-shaped cross section, a filler composed of L-shaped members lying within the U-shaped channel of the frame members and holding a reticulated sheet within said frame, the corners of the L-shaped filler members lying at the points of joinder of the L-shaped frame members, and means for securing the parts together.

1,666,581. PROCESS AND APPARATUS FOR SPINNING METAL TUBES. HENRY E. RAINAUD, Meriden, Conn. Filed May 25, 1927. Serial No. 194,115. 15 Claims. (Cl. 113—52.)



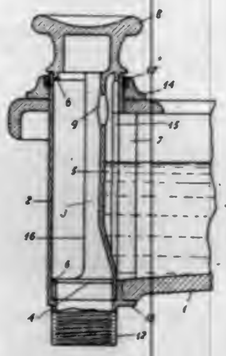
10. In an apparatus for spinning ornamental metal tubes, a rotary mandrel adapted to be connected to the head stock of a lathe, said mandrel being of relatively small diameter and provided at either end with enlarged shoulders for supporting the ends of a tubular metal blank, one of said shoulders being detachable from the mandrel, and means cooperating with the detachable shoulder for locking the blank in operable position.

1,666,582. FASTENING BUTTON. ACHILLE FRANÇOIS RAYMOND, Grenoble, France. Filed Aug. 26, 1926, Serial No. 131,776, and in France July 15, 1926. 2 Claims. (Cl. 24—211.)



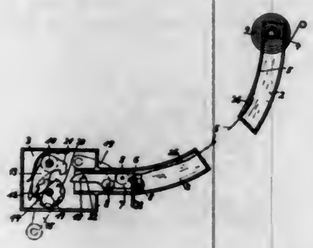
2. A button device comprising a male part consisting of a slotted casing, a stationary axle secured in the interior of the said casing, said axle having a restricted portion, fastening elements extending through the slots in the said casing and slidable along the axle, means for displacing said fastening elements in the slots of the casing and along the axle whereby the said elements disappear when they coincide with the restricted part of the axle, elastic means for returning to normal position the means serving to displace the fastening elements, and an eyelet coacting with the male part.

1,666,583. VALVE. FRIEDRICH ROST, Kusnacht, near Zurich, Switzerland. Filed Nov. 19, 1924, Serial No. 750,939, and in Germany Mar. 25, 1924. 2 Claims. (Cl. 4—198.)



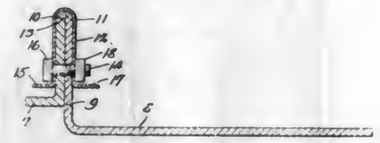
1. In combination with a container formed with an elongated outlet, of a casing of cylindrical form slidably cooperating with the container beyond the outlet, means on the casing to limit the upward movement of said casing relative to the container, removable means at the upper end of the casing for cooperation with the container to secure said container in fixed relation with the casing, said container having an elongated opening to align with the outlet of the container when the casing is in position, and a valve body rotatably mounted in the container and comprising upper and lower cylindrical sections to snugly fit within the casing above and below the outlet opening from the container, the wall of the valve body between said sections being cut away for approximately one-half its circumferential length, the remaining portion of the valve body between said sections including a part parallel to the diameter of the valve body and of a width corresponding to that of the container outlet to close said outlet in an appropriate position of the valve body.

1,666,584. SAFETY DEVICE FOR PRINTING MACHINES. LINUS PAUL SCHINDLER, Hamburg, Germany. Filed Sept. 2, 1924, Serial No. 735,504, and in Germany Aug. 23, 1923. 1 Claim. (Cl. 192—130.)



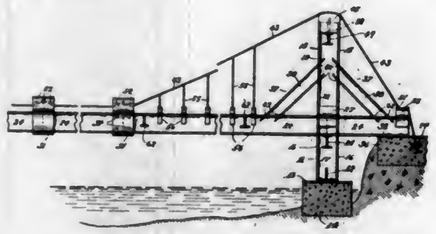
A safety device for printing machines comprising in combination with the starting lever of the machine, a guard or roller blind on a revolvable axle to which one end of said guard is attached, a cross rod in the free end of said guard, two carriages one at either end of said cross rod, two curved channel-shaped guides on the machine frame in which said carriages are guided, a casing at the lower end of said two curved guides, an axle journaled in each of said casings, ratchet wheels one in each casing keyed on said axle, a spring controlled locking pawl pivotally mounted in each casing so that it is adapted to engage with and lock the coresponding ratchet wheel, a nose on each carriage adapted to penetrate into the corresponding casing when the guard has been pulled down so that said nose disengages said pawl from the corresponding ratchet wheel, a crank arm on one end of said axle, a rod connecting said crank with said starting lever of the machine so that the operation of said starting lever is possible only when the pawl has been operated by the pulled down guard, and means for locking the corresponding carriage of said guard during the working of the printing machine.

1,666,585. SAFETY BRAKE-BEAM SUPPORT. GEORGE M. WADDY, Buffalo, N. Y. Filed Feb. 25, 1927. Serial No. 170,902. 1 Claim. (Cl. 188—210.)



A safety bracket to be attached to a transverse bar of a truck frame, including a length of sheet metal having an upstanding end portion, a laterally disposed flange formed along the upper edge of the upstanding end portion and adapted to rest on the upper edge of the transverse bar, said transverse bar and upstanding end portion having registering openings, a securing member of a width equal to the width of the length of sheet metal, said securing member being U-shaped in formation to fit over the transverse bar and upstanding end portion, said securing member having openings registering with the first mentioned openings, and a bolt extending through the registering openings for securing the safety bracket to the transverse bar.

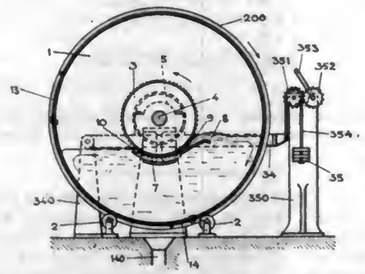
1,666,586. BRIDGE. WESLEY WAIT, Newburgh, N. Y. Filed Oct. 11, 1927. Serial No. 225,546. 7 Claims. (Cl. 14—18.)



1. In bridge construction, the combination of a stringer and a column in interlocking relation with the column extending above the stringer, with an anchored cable extending from the stringer over the crown of the column, and a shoe mounted on the stringer and having frictional engagement with the cable to permit restricted relative movement between the stringer and the cable.

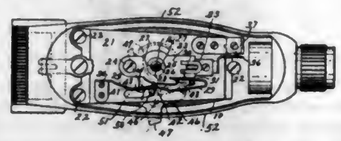
1,666,587. BEATING ENGINE. REINHOLD M. WENDEL, Stockholm, Sweden. Filed May 23, 1927, Serial No. 193,683, and in Sweden May 25, 1926. 4 Claims. (Cl. 92—22.)

1. In a beating engine, a rotary roll with a substantially horizontal axis, a bed plate cooperating with said roll, a drum with a substantially horizontal axis enclosing said roll and bed plate, said drum rotatory about said axis which is substantially parallel to the axis of said



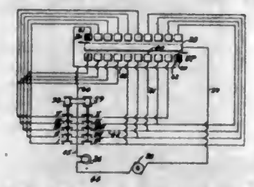
roll, means to supply the mass to be treated into said drum, means to discharge the ready treated mass therefrom and means to rotate said roll and said drum.

1,666,588. ELECTRIC MOTOR. MATHEW ANDIS, Racine, Wis. Filed June 26, 1926. Serial No. 118,676. 10 Claims. (Cl. 172—36.)



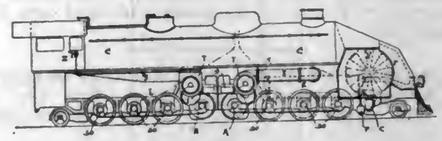
10. The electric motor herein shown and described, comprising the combination of a field frame of magnetizable material having inwardly projecting pole pieces wound in series, an armature revoluble in the plane of the field frame on a shaft perpendicular to such plane, a set of non-magnetizable plates secured to the opposing faces of the field frame and provided with antifriction bearings for the motor shaft, and means for starting and controlling the motor.

1,666,589. ELEVATOR SIGNAL SYSTEM. CYRUS W. BASSETT, Montclair, N. J., assignor to Elevator Supplies Company, Inc., Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 17, 1926. Serial No. 102,784. 3 Claims. (Cl. 177—336.)



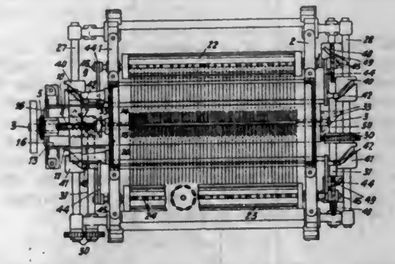
1. In a signal system for an elevator serving a plurality of floors, a stop signal on the elevator, a plurality of circuits to said stop signal, one for each floor, means for partially closing any number of said circuits comprising a plurality of switches in the respective circuits and means for operating said switches from within the elevator, means for holding the switches in closed position pending complete closure of the respective circuits, means for thereafter completing the closure of said circuits in succession as the elevator progresses in the direction of said floors, said means comprising a circuit closer having a group of relatively stationary members and a co-operating member traveling in synchronism with the elevator, and means for reopening said first named switches as the said circuit closer advances toward its limit of travel, said means comprising electromagnetic means and a circuit thereto closable by said traveling circuit closing member.

1,666,590. STEAM TURBINE LOCOMOTIVE. GIUSEPPE BELLUZZO, Milan, Italy, assignor to Società Italiana Ernesto Breda, Milan, Italy, a Corporation of Italy. Filed Feb. 28, 1923, Serial No. 621,933, and in Italy Mar. 8, 1922. 1 Claim. (Cl. 105—38.)



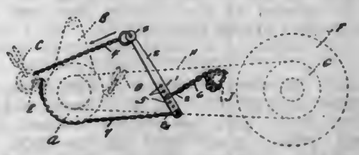
A steam-turbine locomotive of the Mallet type, including driving and carrying axles divided into two groups, a jack shaft for driving each group, one of the jack shafts being operated by low pressure turbines and the other jack shaft by the high pressure and low speed turbines.

1,666,591. MACHINE FOR THE PRODUCTION OF TEXTILE FABRICS. CHARLES BILHARTZ, Strasburg, France. Filed May 8, 1926, Serial No. 107,659, and in Switzerland May 21, 1925. 2 Claims. (Cl. 96—20.)



1. Machine for the production of textile fabrics, comprising in combination, a fabric beam, an automatic take-up motion, two bars relatively adjustable, yarn carriers, guides on said bars for said carriers, means to adjust the two bars relatively, said means comprising for each bar a disc, advanced in steps, having adjustable driving members, which can move the bar to a predetermined extent, and active to resist such movement, means for moving the yarn carriers from one bar to the other for the purpose of looping the threads leading from the yarn carriers to the fabric beam selectively together and if desired with warp and warp threads.

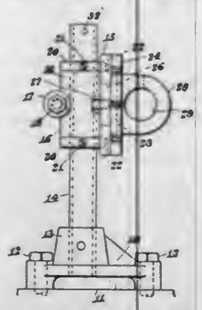
1,666,592. AXLE-GENERATOR BELT REMOVER. MICHAEL J. BRENNAN, St. Paul, Minn. Filed Mar. 18, 1926. Serial No. 95,650. 1 Claim. (Cl. 254—75.)



An axle generator belt remover comprising a swingable lever, a chain one end of which is connected to said lever at any one of several points intermediate the

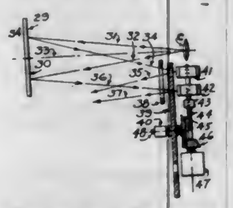
length of the lever and spaced from its ends, said chain being connected at its other end to a fixed base to provide a fulcrum for the lever, two other chains each having one of their ends connected to the respective ends of the lever, one of said chains adapted to extend under and about an axle generator to move the same on swinging the lever, and the other chain adapted to extend over and about the axle generator to cooperate in supporting the load exerted by said generator after it has been moved, and the remaining ends of said last named chains adapted to be attached at points adjacent each other to an element of the generator assembly on the side of the generator removed from the fixed base.

1,666,593. ADJUSTABLE SELF-ALIGNING BEARING. FRANK BURGESS, Wollaston, Mass. Filed Dec. 9, 1926. Serial No. 153,566. 1 Claim. (Cl. 308—59.)



The combination of a standard having an unbroken cylindrical surface; a support adjustable lengthwise thereof and adapted to freely move about the axis thereof, said support having a cylindrical disk provided with a plurality of concentric slots; a bearing member provided with a cylindrical flange in contact with said disk, said flange having a plurality of sets of threaded holes therein; and headed members extending through said slots into either set of holes in said bearing member and freely movable lengthwise of said slots.

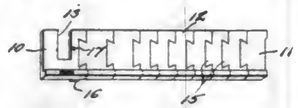
1,666,594. APPARATUS FOR THE ELECTRICAL TRANSMISSION OF VISUAL IMAGES. PAUL L. CLARK, Brooklyn, N. Y. Filed Mar. 26, 1923. Serial No. 627,815. 8 Claims. (Cl. 178—6.)



2. In apparatus of the class described, means rotatable on a fixed axis, said means including a plurality of substantially juxtaposed light-deflecting elements disposed to embrace an arc of more than 360 degrees relative to the aforesaid axis.

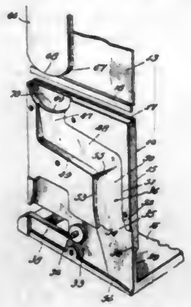
1,666,595. SECTIONAL MOLD LINER FOR TYPE-SETTING MACHINES. FRANK C. ESSEX and JOE E. MAXSON, Picher, Okla., assignors of one-third to D. S. McNeil, Picher, Okla. Filed Feb. 16, 1926. Serial No. 88,618. 1 Claim. (Cl. 199—57.)

A liner for a type setting machine mold, comprising base and end sections and a plurality of intermediate sections of different lengths, disposed between and detachably connected with the base and end sections and with one another, the connecting means consisting of dovetailed projections carried by the end section and the



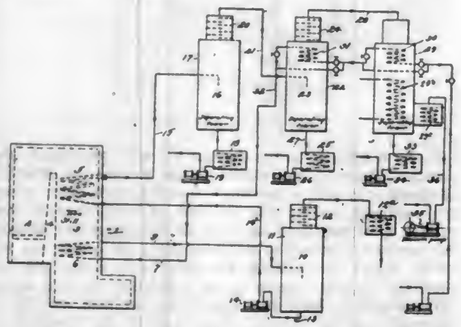
intermediate sections, and dovetailed recesses extending part way through the base section and the intermediate sections.

1,666,596. COIN-CONTROLLED VENDING MACHINE. BENJAMIN L. FRY, St. Louis, Mo., assignor to National Sales Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 3, 1926, Serial No. 92,062. Renewed Nov. 2, 1927. 5 Claims. (Cl. 194—102.)



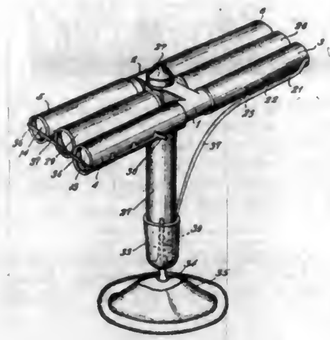
1. In a vending machine, a member having a coin channel formed in a side thereof and comprising disalined upper and lower portions and an intermediate inclined connecting portion having its side wall tilted laterally, and a plate closing the open side of the coin channel and having the part opposite the inclined portion thereof deflected to present a wall substantially parallel with the laterally tilted wall of the channel, and having a portion of the deflected part cut away to provide an opening for the automatic discharge of an article of a diameter less than the diameter of the coin designed to traverse the coinway.

1,666,597. PROCESS FOR DISTILLING OILS. AUDLEY E. HARNSBERGER, Columbus, Ohio, assignor to The Pure Oil Company, Chicago, Ill., a Corporation of Ohio. Filed Nov. 12, 1926. Serial No. 148,060. 4 Claims. (Cl. 196—77.)



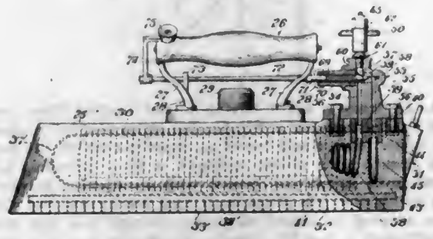
1. The method of vacuum distillation of mineral oil, which consists in drawing a quantity of oil without reduction in its total weight through a heated pipe still of progressively increasing cross-sectional pipe area from the inlet to the outlet ends thereof, said increasing pipe area permitting such reduction in back pressure due to pipe friction of the oil and vapors drawn through the still to allow a vacuum carried on the outlet end of the still to penetrate back to the inlet end thereof.

1,666,598. ROCKET. THOMAS G. HITT, Seattle, Wash. Filed May 14, 1927. Serial No. 191,358. 2 Claims. (Cl. 102—23.)



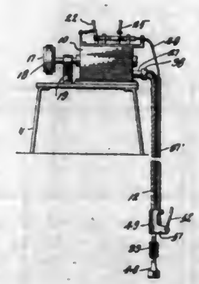
1. A rocket having a plurality of chambers, a container attached to the plurality of chambers, explosive means within the container for destroying the chambers at a predetermined point in the rise of the rocket, a suitable gas forming material within the chambers, and openings therein through which the gases may escape, thereby causing the chambers to rotate and the rocket to rise, the chambers and container being so arranged in relationship to each other than they will be balanced in the rise, a quick match suitably connected to the chambers and the container for igniting the material within the container and chambers, means for holding the container in rotatable position just previous to the rise of the rocket consisting of a rotatable cradle element, the container being located within the cradle with sufficient frictional resistance to allow for the revolving of the chambers just previous to the rise of the rocket.

1,666,599. PRESSING IMPLEMENT. LOUIS HOFFMAN, Duluth, Minn., assignor, by mesne assignments, to Steam Pressing Iron Company, a Corporation of Delaware. Filed Nov. 13, 1920. Serial No. 423,866. 8 Claims. (Cl. 68—26.)



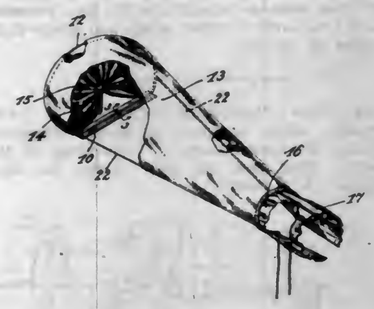
1. A pressing implement comprising a metal body formed with a chamber adapted to receive a heating element, and a pipe coil surrounding said chamber and constituting a fluid circulating conduit.

1,666,600. POWER-OPERATED WRENCH. JOHN JORDEN, Oakley, Kans. Filed Mar. 13, 1926. Serial No. 94,613. 4 Claims. (Cl. 81—57.)



1. In a power wrench of the character described, a power transmission mechanism, a clutch structure associated with said mechanism for starting and stopping the same, a flexible power cable operated by said mechanism, a pivotally mounted lever controlling said clutch structure, a reciprocable bar mounted adjacent said clutch lever having one end pivotally connected thereto, a flexible control cable connected to the other end of said bar and extending along said flexible power cable to a point adjacent the free end of the same, and means at the free end of said flexible power cable for pulling the control cable to throw the clutch lever into clutch engaging position.

1,666,601. PROTECTIVE COVERING DEVICE. LENA KANOWITZ, New York, N. Y. Filed June 2, 1926. Serial No. 118,121. 1 Claim. (Cl. 135—5.)

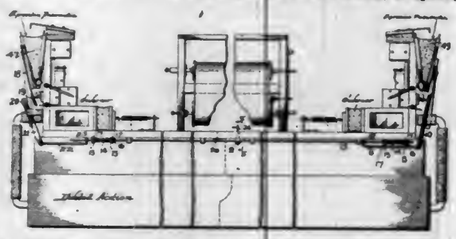


In a protective covering device, in combination, a resilient head piece slidable within a recessed base, a recessed base, a netting attached to the head piece and extended rearwardly over the head piece, a rod carried by each lower side of the netting, and a drawing string carried by the forward portion of the netting.

1,666,602. EXPRESSION-CONTROLLING MECHANISM FOR PNEUMATICALLY-OPERATED MUSICAL INSTRUMENTS. HUBERT J. LA JOIE, East Orange, N. J., and UBERT URQUHART and FRANK POKORNY, New York, N. Y., assignors to Auto Pneumatic Action Company, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1922. Serial No. 589,871. 5 Claims. (Cl. 84—42.)

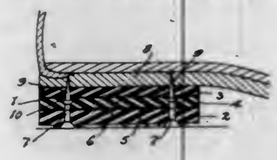
1. In a musical instrument, a divided action, a mechanism having an expression pneumatic for controlling the tension in one part of the action, a spring, the ten-

sion of which can be applied to said pneumatic, another mechanism having an expression pneumatic for controlling the tension in the other part of the action, a spring,



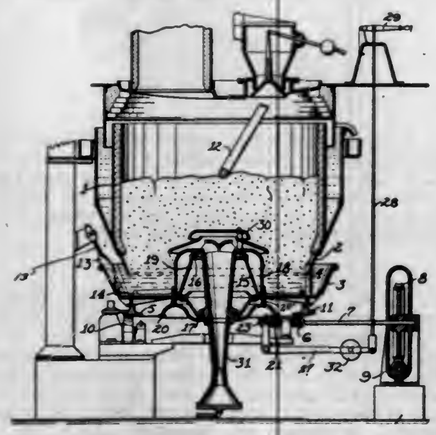
the tension of which can be applied to this pneumatic, and means for simultaneously adjusting the action of the springs so that the tensions thereof will be applied with the same differing degrees to the pneumatics.

1,666,603. HEEL FOR BOOTS OR SHOES. PERCY H. LETCHFORD, Winnipeg, Manitoba, Canada. Filed Nov. 18, 1926. Serial No. 149,203. 1 Claim. (Cl. 36—35.)



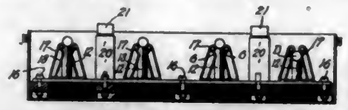
A unitary rubber heel adapted to be attached as a unit to a shoe comprising inner and outer layers of comparatively hard rubber and an interposed layer of comparatively soft, cushioning rubber cemented thereto, there being suitably disposed nail holes passing through the outer and intermediate rubber layers and anchoring nail receiving washers imbedded in the heel between the inner and intermediate rubber layers and situated at the upper ends of the holes.

1,666,604. GAS PRODUCER. CHARLES W. LUMMIS, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 19, 1921. Serial No. 523,383. 6 Claims. (Cl. 48—85.1.)



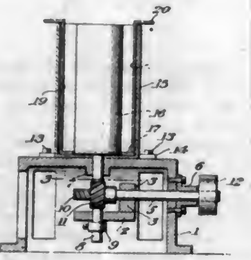
5. In a gas producer, a shell and a water-seal pan connected together and for rotation in unison, means for supporting said shell from said pan, an independently revoluble ash plow supported on the bottom of said pan, a rotatable member to which said plow is secured, said member making a seal with water in said pan, and means for imparting a rotation to said member independently of and at a speed different from the rotation imparted to pan and shell.

1,666,605. MONEY TILL. JOSEPH R. MCLELLAN, Wichita, Kans. Filed Nov. 16, 1925. Serial No. 69,412. 3 Claims. (Cl. 177—316.)



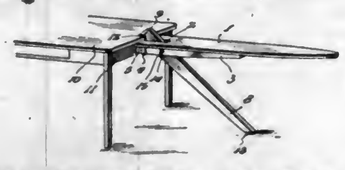
3. In a hold-up alarm, the combination of a money drawer, an alarm positioned at a distance from said drawer, connecting means between said drawer and said alarm including manually operable means in said drawer operable coincidentally with removal of money from the drawer for operating said alarm.

1,666,606. CONCRETE-TILE MANUFACTURING MACHINE. DAVID NEUVERT, Herington, Kans. Filed Aug. 24, 1927. Serial No. 215,165. 4 Claims. (Cl. 25—36.)



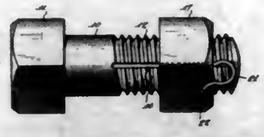
1. A machine of the character described comprising a base, a concrete form secured to and rising from said base, a compacting former mounted for rotation in said form, means for rotating said compacting former, and a stripper detachably arranged in said form about said compacting former.

1,666,607. IRONING BOARD. WARDNEIGH T. ROGERS, Bird City, Kans. Filed Mar. 16, 1927. Serial No. 175,784. 4 Claims. (Cl. 68—10.)



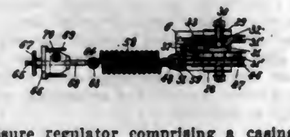
1. An ironing board having a slot leading from one end intermediate its width, bearing strips secured against the under face of said board at opposite sides of the slot and formed with alined openings, a prop extending between said strips and formed with an opening between the openings of the strips, said prop having one end portion adapted to extend upwardly through said slot and constituting a jaw for engaging the upper face of a support with the adjacent end of said board extending beneath the support, and a tapered pin extending through the openings of the strips and prop to pivotally mount said prop, said pin being movable longitudinally through the openings to effect vertical adjustment of the board by engagement with the walls of the opening.

1,666,608. COMBINED BOLT AND NUT LOCK. FRANK L. SARAZIN, Wabasha, Minn. Filed Mar. 12, 1926. Serial No. 94,263. 2 Claims. (Cl. 151—8.)



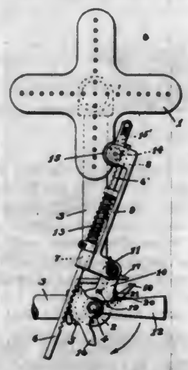
1. The combination of a bolt having a longitudinal groove in its side, a nut having a series of longitudinal grooves in its bore, and a curved transverse groove in its front face, said curved groove being curved in the direction of its length and substantially parallel with the bore groove, and extending through a side face of the nut, the longitudinal grooves of the bolt and nut adapted to be brought into registry, and a locking member having a body portion adapted to seat within said registered grooves, the outer free end of the locking member bent to form a resilient loop, the free end of which is adapted to be inserted into the transverse groove in the front face of the nut and be held therein by friction, whereby to hold the locking member in active position.

1,666,609. PRESSURE REGULATOR. HERMANN SÖFFGE, Bochum, Germany. Filed Feb. 11, 1927, Serial No. 167,499, and in Germany Feb. 16, 1926. 6 Claims. (Cl. 50—16.)



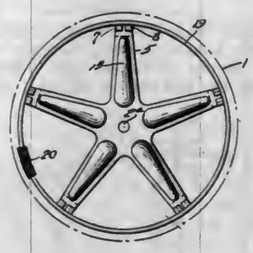
6. A pressure regulator comprising a casing, a valve for admitting a medium at primary pressure into said casing, a membrane adapted to move said valve in one direction, a spring adapted to move said valve in the other direction until equilibrium is established, an oscillating lever, means connected with said spring and adjustably mounted on said lever for varying the leverage of the spring, a cam-shaped body connected by a pliant element with said lever for transmitting the resistance of the spring invariably to said valve, and means for shifting said spring for obtaining any desired ratio between the primary pressure and the obtained lever pressure of the medium.

1,666,610. LIGHTING APPARATUS FOR GAS BURNERS. FRANK D. VARTANIAN, Portland, Me. Filed Mar. 12, 1927. Serial No. 174,982. 4 Claims. (Cl. 67—20.1.)



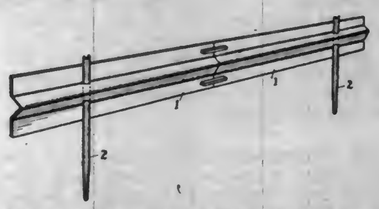
1. A lighting apparatus for gas burners, comprising a gas valve, an oscillatory frame, spark producing elements supported on said frame, a reciprocable rod in said frame adapted to engage said spark producing elements, means to reciprocate said rod simultaneously with the actuation of said valve, means to actuate said valve, means to disengage said rod from its means of reciprocation during the opening movement of said valve, and means to locate and to hold said spark producing elements in non-operating position, whereby said valve may be actuated alone and independently of said spark producing elements.

1,666,611. WHEEL FOR TOYS. CLIFFORD M. WATROUS, East Hampton, Conn., assignor to Gong Bell Manufacturing Company, East Hampton, Conn., a Corporation of Connecticut. Filed May 8, 1924. Serial No. 711,824. 8 Claims. (Cl. 301—64.)



3. A stamped out wheel for toys having its spokes and tire separate from each other and each formed from a disk of material, the spokes and tire having respectively, elements for interengagement one with the other for locking the tire and spokes together to form the finished wheel.

1,666,612. ROAD STRIP. LEONARD G. WOODS, Pittsburgh, Pa. Filed July 19, 1927. Serial No. 206,882. 2 Claims. (Cl. 94—18.)



1. A structural union of two bars brought to juxtaposition end to end, such union including aligned slots in the enes of the bars and a slotted key extending within the slots in the bars with the substance of the bars extending within the slots in the key.

1,666,613. ROAD STRIP. LEONARD G. WOODS, Pittsburgh, Pa. Filed Sept. 7, 1927. Serial No. 217,975. 2 Claims. (Cl. 94—18.)



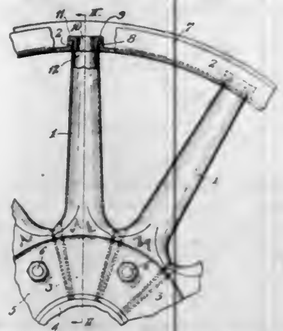
1. A structural union of two bars brought to juxtaposition end to end, such union including aligned slots in the ends of the bars and a channeled key extending within the slots in the bars and having cooperating wings confining between them portions of the bodies of the bars.

1,666,614. JUNCTION FOR METAL BARS. LEONARD G. WOODS, Pittsburgh, Pa. Filed Sept. 20, 1927. Serial No. 220,727. 3 Claims. (Cl. 189—36.)



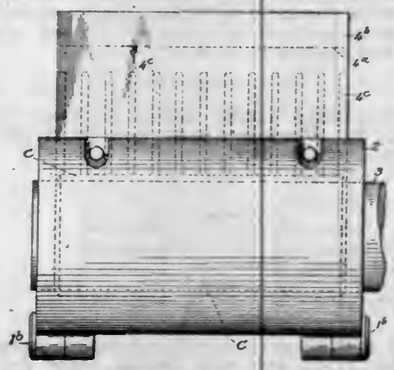
1. A structural union of two bars brought to juxtaposition end to end, such union including aligned offsets in the ends of the bars with aligned slots in said offsets, and a coupling member extending within said slots and having a bent edge portion seated in said offsets.

1,666,615. HOLLOW-SPOKE END CONNECTION. HERALD P. ABNT, Lakewood, Ohio, assignor of one-fourth to Curt B. Muller, Cleveland, Ohio. Filed Sept. 26, 1921. Serial No. 503,244. 3 Claims. (Cl. 301—67.)



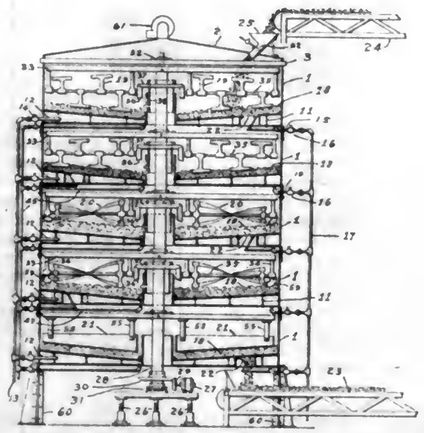
1. In a wheel, the combination of a felloe fashioned with openings and outwardly projecting major flanges at said openings, each flange being additionally fashioned with a minor flange projecting in turn at an angle relative to said major flange, hollow spokes having their outer ends fitted within said major flanges and their outer edges abutting said minor flanges, and plugs fitted in the outer ends of said spokes to wedge the latter against said major flanges.

1,666,616. STEREOTYPE-PLATE-MOLDING APPARATUS. HENRY F. BECHMAN, Battle Creek, Mich., assignor to Duplex Printing Press Company, Battle Creek, Mich., a Corporation of Michigan. Filed Apr. 6, 1925. Serial No. 21,054. 11 Claims. (Cl. 22—25.)



1. A mold provided with a pouring gate having a plurality of ducts whereby the metal is divided into a plurality of oppositely flowing jets as it enters the mold-chamber.

1,666,617. VEGETABLE-MATTER DRIER. LOUIS P. CALDWELL, Kansas City, Mo. Filed Dec. 17, 1926. Serial No. 155,516. 3 Claims. (Cl. 34—23.)

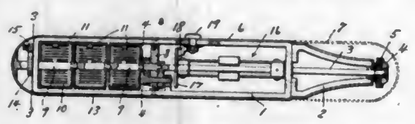


1. Apparatus for extracting moisture from matter consisting of a plurality of individually heated and communicating compartments superimposed upon each other, each compartment having an inclined floor with a central opening, a pipe in said opening, a bustle around said pipe, holes in said bustle communicating with a drain pipe to receive, by gravity, liquids that accumulate on said floor, substantially as described.

1,666,618. METHOD OF BRIQUETTING. ALBIN CARLSON, Degerhamn, Sweden. Filed Apr. 8, 1925, Serial No. 21,739, and in Sweden May 10, 1924. 4 Claims. (Cl. 75—72.)

1. A method of producing briquettes, which comprises treating finely divided iron ores and products containing iron compounds capable of being reduced, with the purpose in view to produce hydraulic properties therein, adding a small amount of separately burnt lime thereto, pressing the mixture thus obtained into briquettes, and hardening said briquettes by high pressure steam.

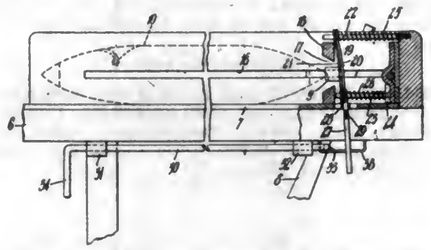
1,666,619. MANICURING IMPLEMENT. EDWARD LEONARD EBERHARDT, Edwardsville, Ill. Filed Jan. 15, 1927. Serial No. 161,344. 4 Claims. (Cl. 132—74.)



1. A finger nail manicuring device of the class described, comprising a frame, a shaft mounted for rotation upon said frame, manicuring means carried by said shaft, a spring motor mounted upon said frame, and having operating connection with said shaft, pawl and ratchet mechanism cooperating with said motor, a manually manipulated brake device for said shaft and a housing for said parts.

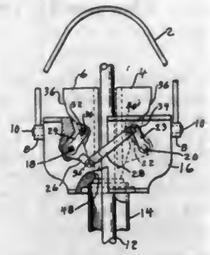
1,666,620. SHUTTLE-CHECKING MECHANISM FOR LOOMS. GEORGE E. GROGHEGAN, Lawrence, Mass. Filed May 15, 1926. Serial No. 109,389. 4 Claims. (Cl. 139—167.)

1. A shuttle checking mechanism for looms comprising, in combination, a lay, a shuttle box for said lay, a plurality of guide rods mounted upon said shuttle box, a bumper yieldingly mounted upon said rods, a picker



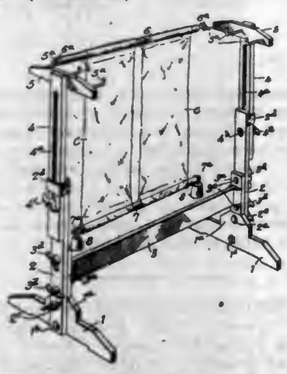
adapted to engage said bumper, and means actuated by said lay to positively return said picker to a predetermined position of rest.

1,666,621. COMBINATION SUCKER-ROD ELEVATOR AND SPIDER. DOLPHICE H. GREENWOOD, Los Angeles, Calif. Filed Mar. 1, 1926. Serial No. 91,503. 2 Claims. (Cl. 24—249.)



1. A device of the class described comprising in combination, a body provided with a recessed portion, a pair of wedge-shaped elongated clamping slips, each equipped with a ledge positioned at a substantial distance below the top of said slips, and operating means, positioned within the recessed portion of said body for alternatively causing said slips to clamp a member inserted in said body or be positioned by means of said ledges on the top of said body.

1,666,622. CURTAIN STRETCHER. FRANK W. HESS, Freeport, Ill. Filed Aug. 9, 1926. Serial No. 128,142. 2 Claims. (Cl. 45—24.)



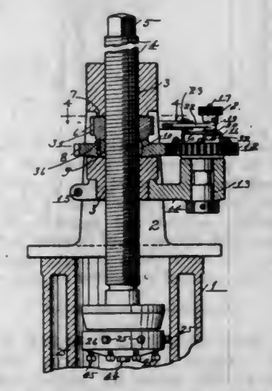
1. A curtain stretcher comprising a pair of bases, uprights pivotally attached to the lower portions of said bases; removable bolts transfixing the uprights and bases above the pivots for maintaining the uprights in vertical positions; a cross brace having T-heads on its ends connecting the uprights above the bases the said T-heads resting upon said bases; removable bolts transfixing the T-heads and uprights; vertically adjustable extension members having longitudinal slots at the upper ends of said uprights; guide straps at the upper ends of said uprights slidably engaging the extension members; adjustable bolts extending through the uprights and slots below the straps for maintaining the extension members in adjusted positions; and removable rods extending between the upper ends of the extension members for supporting the curtains thereon.

1,666,623. TYING DEVICE. EDGAR B. HOOVER, Spokane, Wash. Filed Sept. 27, 1926. Serial No. 137,836. 1 Claim. (Cl. 24—18.)



An extended, elongated plate having looped ends, a yielding member secured adjacent to one of said loops and extended toward the other of said loops, and in yielding contact with said plate, said yielding member having a single loop formed intermediate its ends, and having its free end upturned.

1,666,624. ROTATABLE TOOL AND FEEDING MECHANISM THEREFOR. JAMES H. LANE, Benton Harbor, Mich., assignor of one-half to Henry C. Campbell, Benton Harbor, Mich. Filed Oct. 14, 1925. Serial No. 62,371. 6 Claims. (Cl. 77—4.)

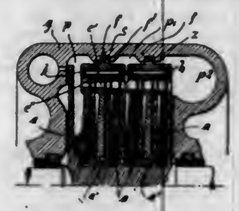


1. In mechanism of the character described: a frame; a tool-carrying threaded shaft rotatable on the frame; a feeding nut rotatable on the threaded shaft in axially non-movable relation to the frame; a member rotatable with, and axially movable relatively to, the shaft; an element rotatable by said member; a pawl mounted on said element eccentrically thereof and adapted to engage the nut and rotate the same in tool-feeding direction.

1,666,625. ELASTIC-FLUID MULTISTAGE DISK-WHEEL TURBINE. FRANZ LÖSEL, Brunn, Czechoslovakia. Original application filed Aug. 14, 1923, Serial No. 657,375, and in Austria Feb. 23, 1923. Divided and this application filed Mar. 9, 1925. Serial No. 14,022. 25 Claims. (Cl. 253—69.)

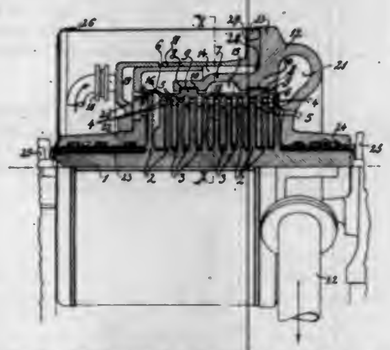
1. In an elastic-fluid turbine of the multi-stage disk-wheel type, an outer casing having an annular groove

in an inwardly projecting annular part, diaphragms including nozzles and spaced inwardly from the outer casing, at least one inner cylindrical casing or carrier connected with said diaphragms and having an annular



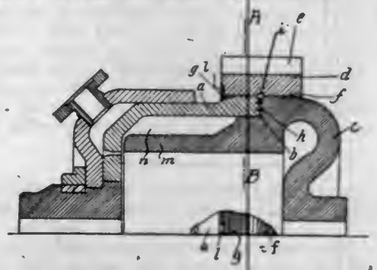
projection to fit into said groove in the outer casing and form a fluid tight connection and providing at each side of the connection clearance spaces between the inner casing and the outer casing.

1,666,626. ELASTIC-FLUID TURBINE. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Mar. 25, 1926. Serial No. 97,179. 26 Claims. (Cl. 253—69.)



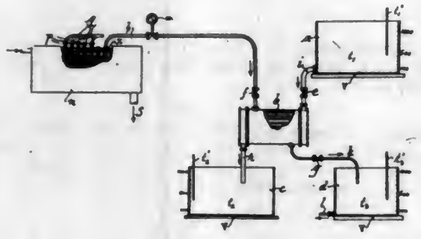
1. In a high pressure elastic fluid turbine, the combination of an outer casing portion, an inner casing portion spaced from said outer casing portion so as to form a steam chamber therebetween, a separate carrier body therewithin carried and enclosed by said inner casing portion said carrier body forming with the inner casing a steam chamber and stationary diaphragms with nozzle canals carried and supported by said carrier body.

1,666,627. HIGH-PRESSURE-TURBINE CASING OR HOUSING. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Mar. 9, 1925, Serial No. 14,026, and in Austria May 6, 1924. 5 Claims. (Cl. 253—69.)



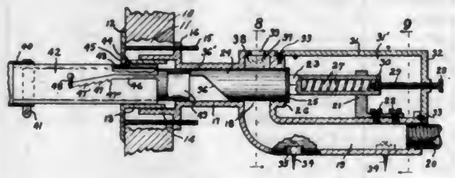
1. In a turbine, the combination of a casing at the higher pressure end, a casing at the low pressure end having an annular joint with the higher pressure casing and having an annular member projecting into the higher pressure casing and forming therewith an annular chamber, and means for coupling said casings together and including a member to cover the joint between the casings and to draw the casings together at said joint.

1,666,628. METHOD AND DEVICE FOR DETERMINING THE EXPANSION LINE OF STEAM TURBINES. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Mar. 9, 1925, Serial No. 14,028, and in Austria May 6, 1924. 12 Claims. (Cl. 73—51.)



1. Method for determining the expansion line of steam turbines comprising measuring the heat-contents of the steam of individual stages of the turbines by extracting steam from said individual stages and measuring its pressure, condensing said steam with cooling water, measuring the temperature and weight (quantity) of the condensate of said steam and measuring the temperature and weight or quantity of said cooling water before and after condensing said steam.

1,666,629. VALVE. FRANK E. LUMLEY, Omaha, Nebr. Filed Aug. 31, 1925. Serial No. 53,560. 8 Claims. (Cl. 284—18.)

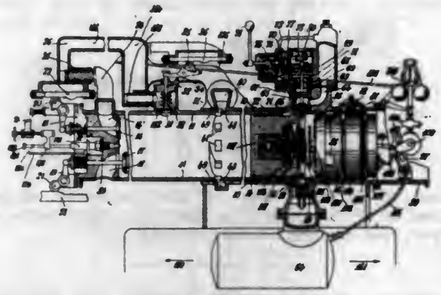


1. A vacuum installation for walls comprising a flush plate having a sleeve extending into the wall, a valve casing behind said plate and adjustably connected therewith, said valve casing being in connection with a source of suction, a valve in the casing, adjustable means to yieldably hold the valve closed, a hose attachment to the plate and sleeve, and a slidable barrel carried with the attachment and operable from outside the plate and engaging the valve to open the same.

1,666,630. MOTOR-COMPRESSOR APPARATUS. RAUL PATERAS PESCARA, Paris, France, assignor to The Pescara & Raymond Corporation, Dover, Del., a Corporation of Delaware. Original application filed June 5, 1925, Serial No. 35,249, and in France June 11, 1924. Divided and this application filed Jan. 8, 1927. Serial No. 159,853. 4 Claims. (Cl. 230—56.)

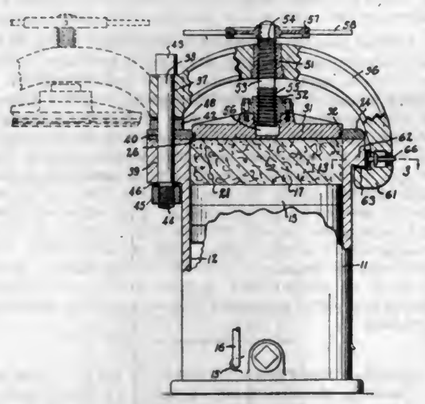
1. In an apparatus comprising a frame, a cylinder, and a free piston reciprocating in said cylinder, said

cylinder being mechanically free to reciprocate with respect to said frame, means for injecting into said cylinder a combustible oil under pressure, said means



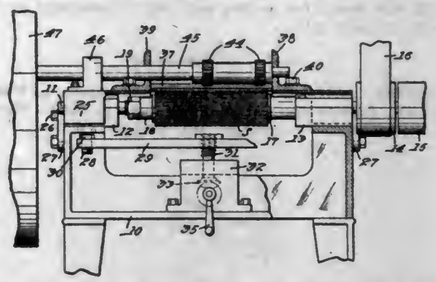
consisting in an injection needle valve mounted on the cylinder head, a stop on said needle and a fixed abutment cooperating with said stop.

1,666,631. STUFFING MACHINE. OSCAR C. SCHMIDT, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 16, 1927. Serial No. 219,942. 3 Claims. (Cl. 17—39.)



1. In a stuffing machine of the character described, the combination of a casing, a press-head operable therein, a cover for said casing, a yoke about the end of said casing across said cover, means for moving said cover on said yoke toward and from said end of said casing for closing and opening said end, means for pivoting one end of said yoke to said casing permitting axial movement of said yoke at the pivot thereof, a stop for said axial movement, a stop between the swinging end of said yoke and said casing for limiting axial movement of said yoke at said swinging end, and an automatic spring latch including a spring-pressed plunger and complemental laterally inclined faces between said swinging end of said yoke and said casing, means to permit automatic resilient movement of said spring-pressed plunger in directions radial with relation to said casing, said inclined faces converging laterally, and constructed and arranged for automatically laterally centering said cover in both directions with relation to said casing, and said converging inclined faces forming a slot parallel with said axial movement permitting such axial movement of said swinging end whilst maintaining said cover in such centered relation.

1,666,632. SAWING MACHINE. WALTER BARNARD STONE, Webster, Mass., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a Corporation of New Jersey. Filed May 19, 1926. Serial No. 110,111. 2 Claims. (Cl. 144—136.)



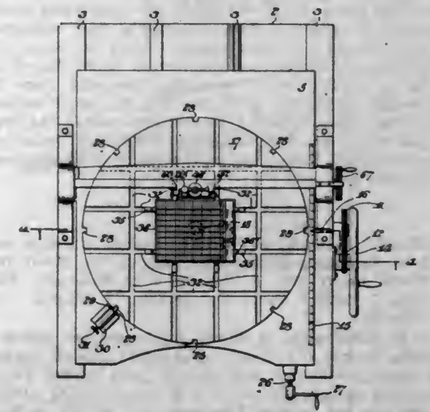
1. A sawing machine comprising a fixed frame, a gang of saws and means for rotating them and a notched stripper and a brush carried by the frame, a table pivoted at one end to the top of the frame free for upward turning movement, an adjustable stop for the free end of the table, a carrier plate having transverse slots on its under face confronting the saws and slidably mounted in longitudinal ways provided in the saw table, and rack-and-pinion feed mechanism and roller guides carried by the table and co-operating with the upper face of the carrier plate.

1,666,633. MALTED-MILK PRODUCT. LIVINGSTON A. THOMPSON, Waukesha, Wis. Filed Feb. 15, 1926. Serial No. 88,268. 2 Claims. (Cl. 99—11.)



1. A malted milk product consisting of a dried mixture of malted milk stock and a soluble binder forming nuggets, said nuggets having a multitude of small apertures therethrough, and a flavoring layer coating the outside of the nuggets and the inside of the pores thereof.

1,666,634. RULING MACHINE. CHARLES J. THOMSON, Philadelphia, Pa., assignor to Westcott & Thomson, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 27, 1925. Serial No. 18,672. 11 Claims. (Cl. 33—32.)



1. In apparatus of the character described, the combination of a reciprocable carriage, a table journalled

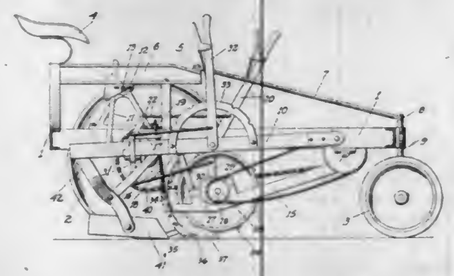
relatively to said carriage, a conical rack fixed to said table, a beveled pinion engaging said rack, a shaft to which said pinion is fixed, a shaft extending transversely to said shaft last named, means for connecting said shafts, means for securing work on said table, a tool, and means for moving said tool transversely to the work on said table.

1,666,635. WALL CONSTRUCTION. ALPHONS L. WESTERICH, Hawthorne, Calif. Filed June 8, 1927. Serial No. 197,466. 4 Claims. (Cl. 72—39.)



1. A building block substantially L-shaped in cross section, one arm of the L having a cut-out section adjacent the inner angle of the L with lugs at each end of such arm, the thickness of such arm at the lugs being substantially half that of the width of the other arm, and the said block having corrugated upper and lower edges.

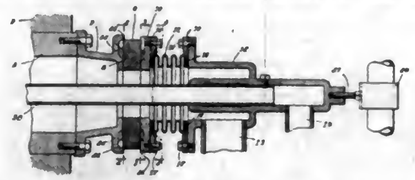
1,666,636. BEET TOPPER. CHARLES N. WOOD and WILLIAM E. WOOD, Sacramento, Calif. Filed Oct. 30, 1926. Serial No. 145,223. 3 Claims. (Cl. 55—107.)



1. A beet topper including a structure to move along the ground, a revoluble drum mounted in connection with the structure to climb onto and ride over the top of a beet, said drum comprising a pair of transversely spaced members, a transverse cutter mounted in fixed connection with the drum a certain distance below the same and extending rearwardly from the vertical center line of the drum, a vertical cutter extending upwardly from the transverse cutter and projecting into the space between the drum members, and a vertical arm behind the drum disposed in transverse alinement with said space and supporting the cutter, the vertical blade extending rearwardly to said arm.

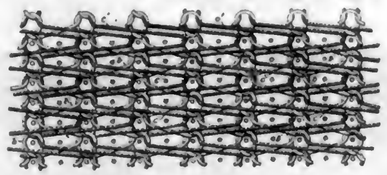
1,666,637. STEAM FITTING. ALONZO ALDRICH and EARL E. BERRY, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed Aug. 7, 1925. Serial No. 48,751. 3 Claims. (Cl. 285—22.)

1. In combination, a hollow rotary element having a bearing surface at one end, a non-rotary conduit adapted to deliver steam into said element, said conduit having a bearing surface opposed to said rotary bearing surface, a bearing ring interposed between said bearing surfaces, the bearing end of said conduit providing a transverse surface acted on by the steam to maintain said bearing surfaces in fluid tight contact with the bearing ring, and depressed areas in said bearing surfaces leaving each with an inner annular bearing surface of less area



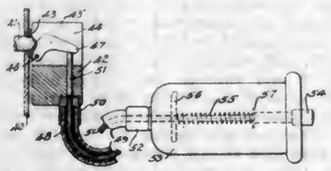
than the effective area of said transverse surface acted on by the steam to maintain fluid tight joints between said ring and bearing surfaces.

1,666,638. WARP-KNITTED FABRIC AND METHOD OF MAKING SAME. EARL J. BENNETT, Stittville, N. Y., assignor to H. R. Tobey. Filed Sept. 25, 1926. Serial No. 137,728. 6 Claims. (Cl. 66—86.)



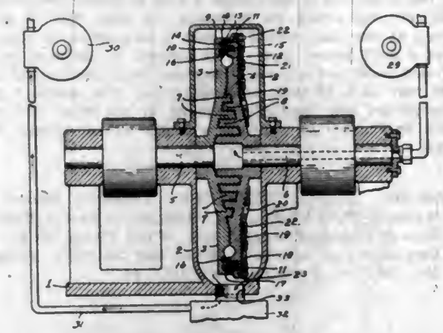
6. That process of making a warp knit fabric that is non-running, non-raveling, of uniform thickness throughout and of great lateral elasticity, which includes providing a pair of warp supplying bars, providing a number of threads equal to the number of needles, lapping one of said bars throughout the production of the fabric so as to miss the minimum number of needles by each thread of one of the sets of threads, and lapping the other of said bars throughout the fabric so as to miss a larger number of needles by each thread of that series of threads, but causing the lapping threads of both series of threads constantly to extend across and to cover what would otherwise be gaps or openings in the fabric, whereby a fabric of substantially uniform texture and thickness throughout or of a marked degree of lateral elasticity is provided.

1,666,639. HOSPITAL SIGNAL SWITCH. JOSEPH O. CADIEUX, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed May 6, 1925. Serial No. 28,351. 2 Claims. (Cl. 200—159.)



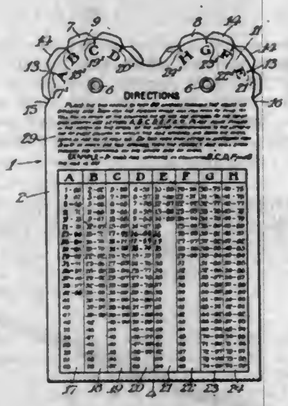
1. In a hospital signal switch, a wall plate, electric switch mechanism at the inner side of said wall plate and means for operating said switch mechanism from a distance including a member having a hollow-swivel connection with said wall plate, a second member adapted to extend through said hollow-swivel connection and movable for operating said switch, and means for pressing said second member inwardly through said hollow-swivel connection including a flexible two-part operating cable extending into said first mentioned member from the side and a push button at the free end of said cable.

1,666,640. DISINTEGRATOR. BERNARD CUNNIFF, New York, N. Y., assignor to Colloidal Equipment Corporation, New York, N. Y., a Corporation of New Jersey. Filed Apr. 28, 1926. Serial No. 105,058. 9 Claims. (Cl. 83—8.)



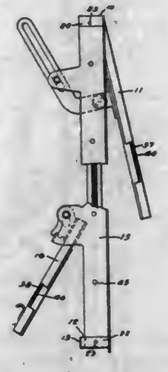
1. A disintegrator comprising opposed material confining and treating members, means for effecting relative rotation between them to produce centrifugal movement of the material treated, said members being positioned and adjusted to provide a channel between their respective inner opposed surfaces and one of the said members having an annular flange adapted to form with said other member a material discharge channel and port at one side of said other member and in free communication with said first mentioned channel.

1,666,641. TOY COMPUTING DEVICE AND NUMBER-REVEALING GAME. ERNEST C. DES ENFANTS, Chicago, Ill., assignor to J. B. Carroll Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1926. Serial No. 128,166. 6 Claims. (Cl. 273—161.)



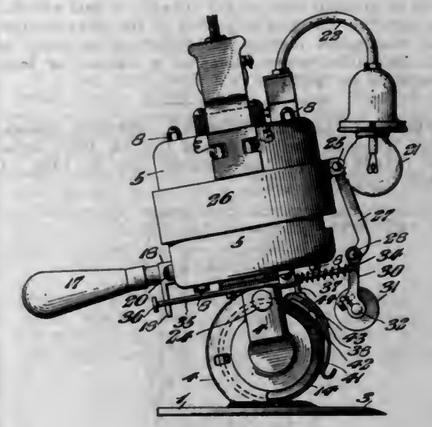
1. In a device of the class described, the combination of a tablet provided with a series of correlated groups of numbers, each of said groups being provided with a group-distinguishing mark, a rotative computing member mounted on said tablet and provided with a series of numbers on and movable with said rotative member, peripheral notches on the rotative member adjacent to said movable numbers and equally spaced apart, and graduation marks on the tablet and corresponding with said group-distinguishing marks, said graduation marks being equally spaced apart and each being normally adjacent to a predetermined notch and corresponding number on said rotative member.

1,666,642. WINDSHIELD. FREDERICK A. DILLINGHAM, Troy, Ohio, assignor to The Troy Sunshade Company, Troy, Ohio, a Corporation of Ohio. Filed Apr. 10, 1924. Serial No. 705,512. 8 Claims. (Cl. 296—84.)



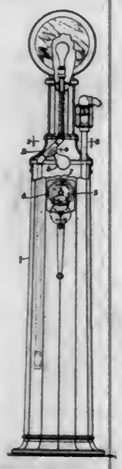
1. A windshield of the character described comprising a top frame member, a bottom frame member, and side-posts connecting said top and bottom frame members, each side-post comprising a fabricated bar consisting of two channel members, and a back support secured thereto to hold the channel members in spaced relation and providing a groove between said channel members, and means positioned within said groove for connecting the side-post to said top and bottom frame members.

1,666,643. CUTTING MACHINE. MAX EDELMAN, Sellersville, Pa., assignor to Esther M. Shapiro, Sellersville, Pa. Filed Sept. 25, 1926. Serial No. 137,749. 7 Claims. (Cl. 164—76.)



7. In a cutting machine of the character stated, an annulus rotatably mounted thereon, a pendant link pivotally secured to said annulus, a pendant member pivotally suspended from said link, a plurality of sharpening wheels carried by said pendant member, a rotary cutter, and means for manually actuating said sharpening wheels towards and away from said cutter.

1,666,644. GASOLINE PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The Dayton Pump & Mfg. Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 13, 1927. Serial No. 183,424. 7 Claims. (Cl. 240—2.)

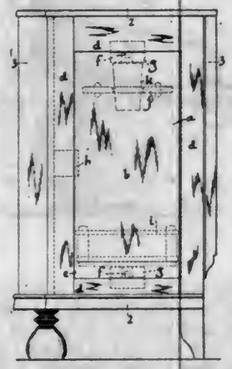


2. In a gasoline dispensing pump, the combination with a housing, of a dome integral with the housing, spaced outwardly facing dials beneath the dome, a source of illumination within the dome arranged above, behind and between the dials, the said source of illumination being arranged to illuminate the face of each dial between it and the housing.

1,666,645. RECOVERY OF CAMPHOR. ALEXANDER FRIEDEN, Mount Vernon, N. Y., assignor of one-third to Raymond F. Bacon, and one-third to Alcan Hirsch, New York, N. Y. Filed Mar. 7, 1927. Serial No. 173,603. 6 Claims. (Cl. 260—133.)

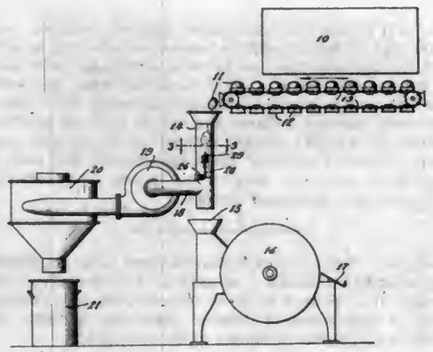
1. The method of recovering camphor from celluloid and the like which consists in placing the celluloid or the like in an alkaline solution, the strength of said solution being such that the greater portion of the nitro-cellulose is not decomposed thereby, and subjecting the batch to steam distillation whereby camphor is distilled off from the celluloid or the like.

1,666,646. FURNITURE FITMENT. EBENEZER GOMME, High Wycombe, England. Filed Oct. 12, 1926, Serial No. 141,049, and in Great Britain July 21, 1926. 1 Claim. (Cl. 312—173.)



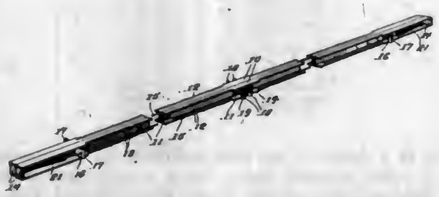
A cabinet having a concealed compartment defined on one side by a vertical panel enclosing rectangular frame, a panel supported in and substantially fitting said frame, and mounted in vertical position by vertically disposed co-axial pivots at the top and bottom of said panel having their common axes located substantially centrally between the side portions of said frame and inside of the plane of the inner face of said panel, a stop projecting from one side of said frame for engaging the rear face of the panel at one side thereof to hold it in position to represent a solid panel, glass racks secured to the rear face of said panel and a guarded decanter rack also secured to the rear face of said panel, said stop also adapted to engage the rear face of the panel at the other side to hold said panel in position with the racks exposed to view.

1,666,647. DOUGH TREATING. LAURENCE SEYMOUR HARBER, White Plains, N. Y., assignor to Joseph Baker Sons & Perkins Company, Inc., White Plains, N. Y., a Corporation of New York. Filed May 26, 1922. Serial No. 563,784. 7 Claims. (Cl. 107—44.)



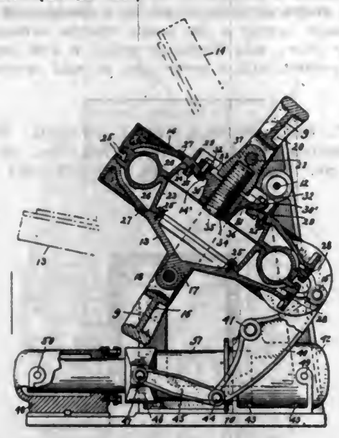
3. In apparatus for removing excess flour from dough balls, a passage through which said dough balls pass by gravity, a perforated member mounted to normally obstruct said passage and adapted to yield under the impact of said dough balls so as to open said passage for said dough balls, and means for exerting suction in said passage.

1,666,648. TOBACCO STICK. ELMORE HAY HARRINGTON, New Smyrna, Fla. Filed July 31, 1925. Serial No. 47,313. 5 Claims. (Cl. 131—21.)



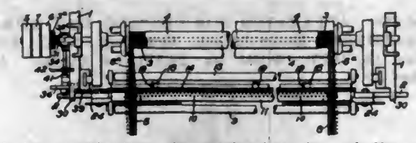
5. A tobacco stick comprising a pair of channel-shaped members secured together to provide spaced gripping edges upon opposite sides of the stick, a retaining wire extending longitudinally upon each side of the stick between the gripping edges, springs connecting the ends of the wires and springs connecting the wires intermediate the ends of said wires to yieldingly hold the latter in retaining position.

1,666,649. VULCANIZER. ARCHER H. HARRIS, Akron, Ohio. Filed Apr. 25, 1927. Serial No. 186,245. 17 Claims. (Cl. 18—17.)



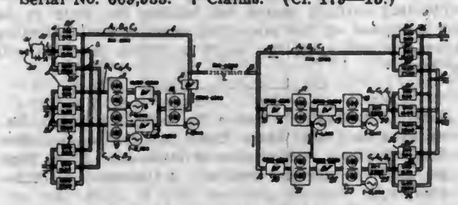
1. In a vulcanizer of the class described, a pair of mold halves hinged together, pivotal supports for said halves, a lever pivoted to the vulcanizer at the hinge, means for operating the mold halves comprising a power cylinder and piston, and link connections between said piston and lever.

1,666,650. MECHANISM FOR AND METHOD OF HANDLING YARNS OR THE LIKE. EDGAR F. HATHAWAY, Wellesley, and WALTER BIXBY, Dorchester, Mass., assignors to Shawmut Engineering Company, Dorchester, Mass., a Corporation of Massachusetts. Filed May 31, 1924. Serial No. 716,881. 20 Claims. (Cl. 28—55.5.)



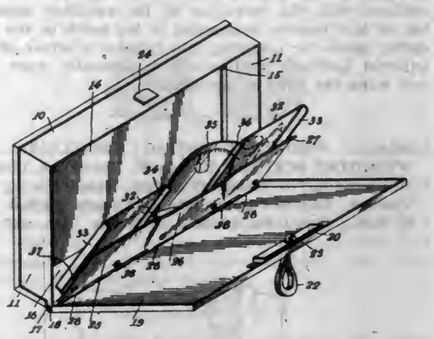
1. In combination, in mechanism for winding tuft yarn spools in carpet manufacture, a spool support, a reed through which the yarns are adapted to pass to said spool, a portable yarn separating member, means to support the latter in upright position adjacent the reed, and means to move said separating member and said feed in unison and relatively to the yarns to apply said separating member thereto, said reed, during said movement, acting to guide the yarns accurately for reception in said separating member.

1,666,651. PLURAL CHANNEL SECRECY SYSTEM. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1922. Serial No. 609,933. 7 Claims. (Cl. 179—15.)



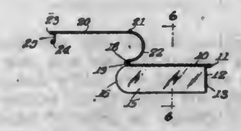
7. The method of confusing signals which comprises placing a relatively wide sub-band of frequencies of one signaling band adjacent a relatively narrow sub-band of frequencies of another signaling band.

1,666,652. TOILET-ACCESSORY CABINET. WILLIAM C. HEERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Apr. 27, 1925. Serial No. 26,174. 4 Claims. (Cl. 220—32.)



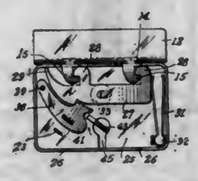
2. A toilet article cabinet comprising a hollow rectangular body, a hinged cover at the front of said body adapted to extend in register with the lower wall thereof, a plurality of unlike integrally connected receptacles hingedly engaged in said body to the cover to be moved into a position of accessibility by said cover, the walls of said receptacles being diversified in height and contour and adapted to frictionally engage and retain articles entered therebetween, and a pendant knob and means actuated thereby for locking said cover when in a closed position.

1,666,653. METAL BOX AND COVER. WILLIAM C. HEERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,526. 2 Claims. (Cl. 220—32.)



1. A two part metal box comprising a plate member having closely folded flanged end and front edges and walls extending perpendicularly therefrom to enclose three sides of a rectangle, a second plate member having a wall to form the fourth side of the rectangle, an exterior hinge connecting the outer edge of the last named wall with the first named plate member, and a snap fastener on the second named plate to engage a mating element on one of the perpendicular walls of the first named plate member.

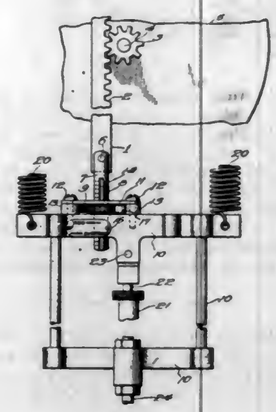
1,666,654. BAG AND LIKE LOCK. WILLIAM C. HEERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed July 28, 1926. Serial No. 125,377. 2 Claims. (Cl. 70—2.)



1. A bag lock comprising a casing, a keeper having elements enterable through said casing, a spring actuated slide bolt having members engageable with said keeper

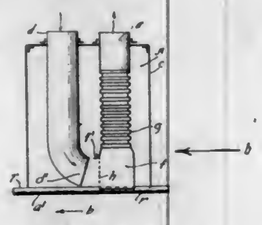
elements, said members acting as guides for the bolt, a curved auxiliary guide at the front of said bolt, an angular notch in the rear edge of said bolt, a key actuated tumbler engageable in said notch, said tumbler being pivoted to the outer wall of said casing and curved to conform with the curvature of the auxiliary guide, a lug on said tumbler engageable in the notch in the bolt, spring means for retaining said tumbler in either of two adjusted positions, and means to manually move said bolt when the pawl is disengaged.

1,666,655. WEIGHT-ADJUSTING MECHANISM FOR WEIGHING SCALES. GUSTAV F. HOCHRIEM, Chicago, Ill., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1926. Serial No. 79,325. 3 Claims. (Cl. 265—8.)



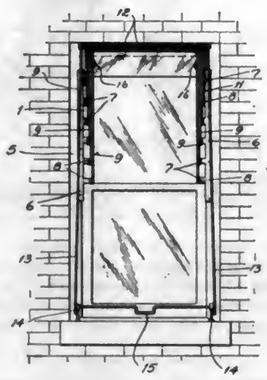
1. In combination, a rack bar and pinion gear, a weight recording element movable with said pinion gear, a pin connected with said rack bar, a manually operated means registering with said pin for raising or lowering said rack bar to change its point of registration with said gear, and in turn regulating the weight recorded by said recording element, a spring tensioned element contacting said manually operated means for maintaining the latter in fixed position subsequent to manipulation.

1,666,656. RING OVEN WITH REVOLVING HEARTH. LUDWIG HONIGMANN, Bad Tolz, and FRIEDRICH BARTLING, Munich, Germany. Filed June 2, 1926, Serial No. 113,286, and in Germany June 3, 1925. 7 Claims. (Cl. 263—35.)



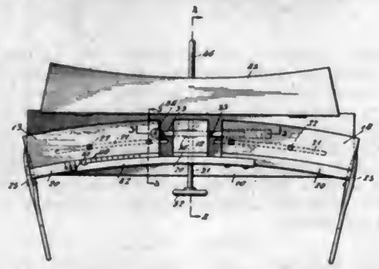
1. In a ring oven for the treatment by heat of pulverulent, granular or like material in which the material at the charging point is charged in the form of a thin uniform layer and at the discharge point sucked away with the oven gases, a revolving hearth, a conduit through which a portion of the oven gases are diverted past the discharge point to act as a discharging means, said conduit having a jet nozzle therein arranged immediately above said discharge point, a dust separator in said conduit, and a pump also in said conduit.

1,666,657. COLLAPSIBLE METAL AWNING. WILLIAM R. HOPKINS, St. Louis, Mo. Filed Nov. 22, 1926. Serial No. 149,899. 5 Claims. (Cl. 156—43.)



1. In a collapsible metal awning comprising U shaped vertically telescoping members, a bracket having outwardly extending vertically spaced ears, said ears being offset vertically from each other.

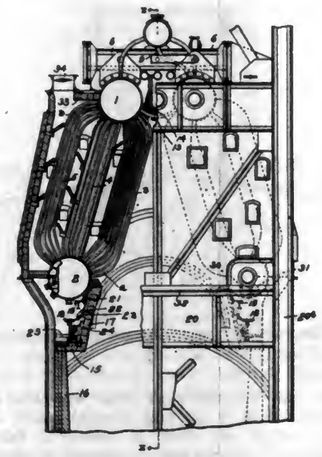
1,666,658. APPARATUS FOR CUTTING HAT SWEAT LEATHERS. ELIAS ISRAEL, New York, N. Y. Filed May 13, 1925. Serial No. 29,871. 8 Claims. (Cl. 164—79.)



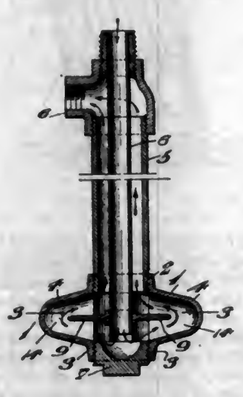
1. A strip cutting machine, comprising in combination means providing a supporting surface which is adjustable in length, a cutting device at each end of the supporting surface, means for holding the strip to be cut positioned on the supporting surface, and indicating means for indicating the length to which the strip will be cut.

1,666,659. BOILER. GEORGE T. LADD, Pittsburgh, Pa., assignor to Ladd Water Tube Boiler Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 29, 1921. Serial No. 504,086. 3 Claims. (Cl. 122—325.)

3. A boiler installation comprising in combination a generating unit including upper and lower drums and connecting tubes, a framework, means for suspending said generating unit from said framework, a refractory enclosure for said unit, a refractory lined combustion chamber below said unit, a bridge wall between said combustion chamber and said unit cooperating with the refractory lining of the combustion chamber to provide a throat through which the products of combustion pass to the generating unit, and means for supporting said bridge wall from said framework.

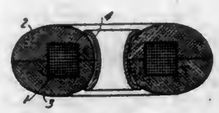


1,666,660. AUXILIARY WATER HEATER. JOHN S. MAKIN, Philadelphia, Pa. Filed Mar. 14, 1927. Serial No. 175,342. 2 Claims. (Cl. 257—254.)



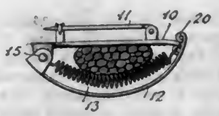
1. A device of the character stated, comprising a water heating chamber having a plurality of radially extending hollow branches, a baffle plate arranged within said chamber, said plate having extensions equal in number to and coincident with said hollow branches, said extensions extending into and terminating short of the outer ends of said branches and closely engaging the side walls of said branches, an inlet pipe for conveying cooled water to the bottom of said chamber and an outlet pipe surrounding said first mentioned pipe for the exit of heated water.

1,666,661. INDUCTANCE COIL. EDMUND R. MORTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 4, 1924. Serial No. 747,711. 3 Claims. (Cl. 175—356.)



1. In combination, a core made up of a plurality of parts which cooperate to form a chamber, a coil in said chamber, and a tubular member axially arranged with respect to said core and having its ends formed to approximate the contour of said core parts, and thereby clamp the core parts together.

1,666,662. HOLDING DEVICE. HARRY NADEL, New York, N. Y. Filed Sept. 19, 1927. Serial No. 220,602. 5 Claims. (Cl. 24—6.)

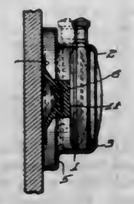


1. A holding device, comprising a pin bar, an outwardly bowed bar pivotally connected at one end to the pin bar, means for releasably connecting the other end of the bowed bar to the pin bar, and a tension spring stretched between the ends of the bowed bar.

1,666,663. FUEL MATERIAL. THEODORE NAGEL, Brooklyn, N. Y. Filed Oct. 31, 1924. Serial No. 747,048. 18 Claims. (Cl. 44—16.)

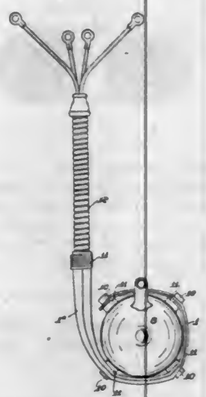
1. A binding fuel material for briquets comprising a mixture of an acid phosphatic compound and a starchy substance.

1,666,664. WATCH HOLDER. JAMES C. NEWLIN, Jr., Bryn Mawr, Pa. Filed Oct. 15, 1926. Serial No. 141,763. 3 Claims. (Cl. 248—39.)



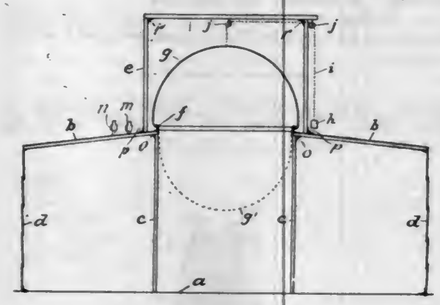
1. A watch holder comprising a casing open at its back for the insertion of a watch and formed in its front with a sight opening therefor, a spring member extending across and having an interlocking engagement with said casing to retain a watch therein, said member being adapted to exert forward pressure on the watch to yieldingly support the same adjacent said sight opening, and a suction cup for supporting said casing, carried by said spring member.

1,666,665. CONNECTION FOR TIMING DEVICES FOR AUTOMOBILES. JESSE C. OSBORN, Chicago, Ill., assignor to Grigsby-Grunow-Hinds Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1922. Serial No. 532,941. 7 Claims. (Cl. 173—324.)



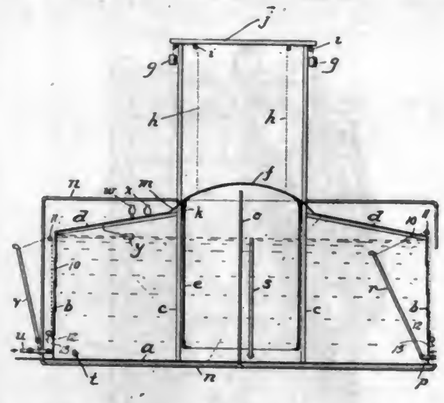
1. A timer connection for automobiles comprising a flexible water-proofed ribbon-like casing constructed to be wrapped around the timer, and in which the conductors to be connected with the timer are encased, said casing being made up of a suitable fabric to encase the conductors and having a series of metal fasteners secured to and supported directly by the material of the casing, each fastener being connected with one of said conductors and fitting over a terminal of the timer when the casing is wrapped around the timer.

1,666,666. OIL TANK. JOSEPH N. PEW, Jr., Ardmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed June 8, 1926. Serial No. 114,417. 2 Claims. (Cl. 220—85.)



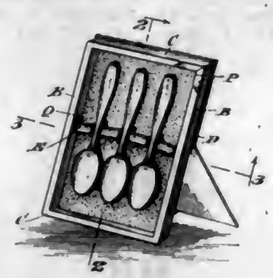
1. Means adapted to store oil and allow "breathing" due to formation and condensation of gas which comprises a tank of relatively large volume adapted to contain the oil, a flexible diaphragm having a substantially semi-spherical shape when distended and when distended having a volume that is small relative to that of the tank, means supporting the periphery of the diaphragm and so positioning the diaphragm as to subject it to oil vapor pressure on one side and atmospheric pressure on the other side, said diaphragm being therefore distensible in one direction away from a plane intersecting its peripheral support upon accumulation of vapor and increase of vapor pressure and being distensible in the other direction upon condensation of vapor and decrease of vapor pressure.

1,666,667. OIL TANK. JOSEPH N. PEW, Jr., Ardmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed June 8, 1926. Serial No. 114,418. 6 Claims. (Cl. 220—26.)



5. An oil tank comprising an outer wall and a roof, one section of which is movable vertically and another surrounding section of which is relatively fixed, the movable roof section carrying a depending cylindrical wall, and means allowing circulation of gas between the gas spaces under the two roof sections.

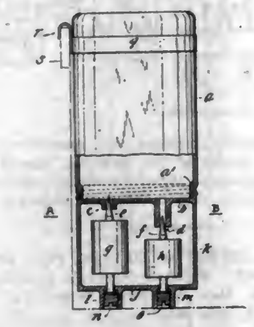
1,666,668. TRAY OR THE LIKE. FREDERICK AUGUSTUS PURCHAS, McGraw, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed May 5, 1925. Serial No. 28,065. 2 Claims. (Cl. 206—75.)



1. The combinational with a receptacle, of a resilient article-retaining strip therein and bendable to and from the bottom thereof, said strip being provided with recess on its under side for retaining the articles in packaged condition for shipment and with recesses on its upper side for retaining and displaying the same articles in unpackaged condition, said strip being normally bowed in one direction relatively to the bottom of the receptacle and having the walls of its upper recesses so spaced that in one position of the strip they will grip and in the other position thereof release the articles therein.

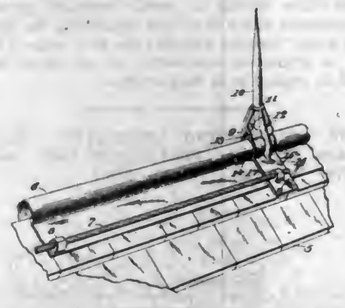
1,666,669. DISINFECTING DEVICE FOR WATER-CLOSETS AND THE LIKE. LEWIS ERNEST SAUNDERS, Eastwood, South Australia, and MENDEL FINKELSTEIN, Sydney, New South Wales, Australia. Filed Apr. 8, 1927, Serial No. 181,951, and in Australia Apr. 15, 1926. 3 Claims. (Cl. 4—227.)

1. In a device for disinfecting water closets and the like, a sealed vessel adapted to stand in the cistern, said vessel having an air inlet opening and a discharge disinfecting opening at its lower end, the inner ends of which are approximately on the same level inside the vessel, the outer ends of the openings or tubes being at different levels, a valve for each opening, and floats for controlling



the valves, said floats being located below the valves in the flushing cistern and operated by the fall and rise of the water in the cistern, each time the water is discharged and the cistern is refilled.

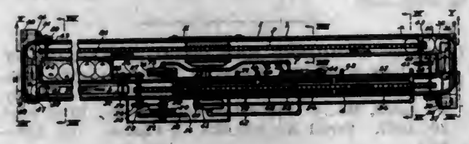
1,666,670. LIGHTNING-ROD AIR TERMINAL BRACKET. CLEMENT A. SCHNOEBELEN, Cedar Rapids, Iowa. Filed May 6, 1927. Serial No. 189,337. 2 Claims. (Cl. 173—31.)



1. Combined with a lightning-rod, its terminal and a roof ridge-roll, a bracket formed in halves, each socketed to receive the shank of the terminal, and arched to receive the ridge-roll, clamping bolts to bind the bracket halves closely on the terminal shank and ridge-roll, diverging feet conforming to the surface to which they are applied, and lugs formed on one of the feet, and adapted to connect electrically with the rod when bent over thereon,

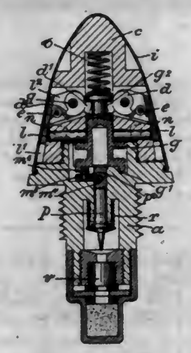
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1,666,671. APPARATUS FOR WASHING GLASSES AND THE LIKE. REID C. SPEER, Pittsburgh, Pa. Filed May 17, 1927. Serial No. 191,971. 9 Claims. (Cl. 141—3.)



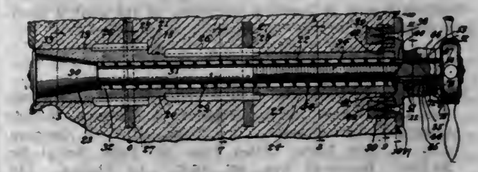
1. In combination in an apparatus for washing containers, a plurality of driven, endless conveyors having horizontal flights adapted to directly receive and support the containers upon the upper faces of said conveyors arranged in substantially the same plane and end to end, so that such flights together form a circuit, guide means fixed with respect to said conveyors along the sides thereof for holding the containers in upright position and washing means arranged in proximity to one of said flights, so as to wash the containers carried thereby.

1,666,672. PERCUSSION FUSE FOR PROJECTILES SUBJECTED TO A ROTARY MOVEMENT AROUND THEIR AXES DURING THEIR TRAJECTORY. ANDRÉ VARAUD, Geneva, Switzerland. Filed June 8, 1926, Serial No. 114,428, and in Switzerland June 9, 1925. 4 Claims. (Cl. 102—39.)



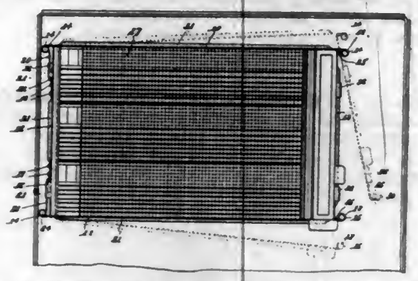
1. Percussion fuse for artillery projectiles submitted to a rotary movement around their axes during their trajectory comprising a control member submitted to the action of the centrifugal power in such a manner as to be adapted to become laterally standing out from the body of the fuse and to remain in this standing out position during the whole trajectory, regardless of the action of the resistance of the air, an oscillating member for locking the striker constituting a lever adapted to swing in a plane perpendicular to the axis of the fuse and which is provided with a pin operating in the bore of a locking sleeve mounted to be axially movable in the direction of the advance of the projectile and concentric with regard to the striker, said sleeve being held in its active position against the action of a percussion spring during the whole trajectory of the projectile by a device controlled by the displacement of said control member standing out from the body of the fuse during the trajectory of the projectile.

1,666,673. AIR-VENT MEANS FOR VAULTS. JOHN P. WILLIAMS, Bayside, N. Y., assignor to Duplex Electric Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1927. Serial No. 172,914. 18 Claims. (Cl. 109—1.)



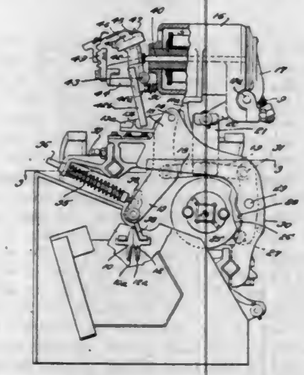
1. An air-vent means of the class described, comprising a tubular body adapted to be secured in a wall and extend therethrough, a plug forming a closure for said tube, means operative at the inner side of the wall for locking said plug in closure position, and means for automatically ejecting the plug from said tube outwardly at the outer side of the wall when said locking means is released.

1,666,674. TYPE-COMPOSITION-BINDING FRAME. ALBERT WILSON, Chicago, Ill. Filed Mar. 4, 1926. Serial No. 92,278. 10 Claims. (Cl. 101—404.)



1. A binding frame for type-composition including hinge connected walls for walling in the type-composition; the hinges for said walls lying wholly outwardly beyond the binding line formed by said walls; one of said hinges being formed to afford a floating resilient connection coacting with one of said walls to produce a type embracing enclosure, substantially as described.

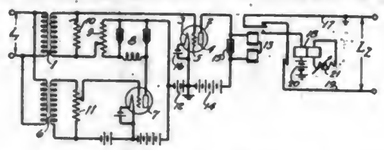
1,666,675. CIRCUIT MAKING AND BREAKING DEVICE. THORSTEN ZWEIGBERGK, London, England. Filed Dec. 20, 1923, Serial No. 681,719, and in Great Britain Dec. 27, 1922. 15 Claims. (Cl. 200—89.)



14. In a circuit making and breaking device, the combination with a pair of relatively movable contacts of an electro-magnetically operated means for effecting a partial closing movement of the contacts, a mechanically operated means for completing said closing movement, an auxiliary switch mechanism operated by one of said means, said auxiliary switch mechanism including an interlocking device adapted to engage the mechanically operated means to prevent operation of the switch mechanism upon failure of the contacts to separate.

1,666,676. REPEATER CIRCUITS. BJÖRN G. BJÖRNSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 27, 1925, Serial No. 39,884. Renewed Apr. 25, 1927. 12 Claims. (Cl. 179—171.)

1. The method of discriminating between momentary impulses of current and relatively steady disturbing currents received over a circuit in their effect on a receiver circuit, comprising utilizing part of the received energy to operate the receiver circuit, separately utilizing part of the received energy to bias said receiver circuit against operation, continuously neutralizing the operating energy due to said steady disturbing currents with the biasing energy due to said disturbing currents, and delaying the effect on said receiver circuit of the biasing energy due



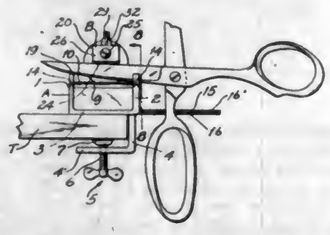
to said momentary impulses with respect to the effect on said receiver circuit of the operating energy due to said momentary impulses, thereby insuring operation of said receiver circuit by said momentary impulses.

1,666,677. FASTENING DEVICE FOR EMERGENCY-EXIT DOORS. WILLIAM BERTRAM BOLLES, Milwaukee, Wis. Filed May 5, 1926. Serial No. 106,855. 4 Claims. (Cl. 292—92.)



1. In a device of the character described, the combination with a hinged door and its frame, of a keeper attached to the frame member opposite that to which the door is hinged and projecting into the door opening, rigid arms pivoted to the inner side of the door adjacent opposite edges thereof to swing vertically between the frame members and a cross bar connecting the outer ends of said arms, the arm adjacent the free edge of the door having a projection outwardly of its pivot which is adapted to engage with said keeper.

1,666,678. SHARPENING APPARATUS. WILLIAM T. BRADLEY, Linn, Mo. Filed Oct. 23, 1926. Serial No. 143,574. 7 Claims. (Cl. 51—218.)

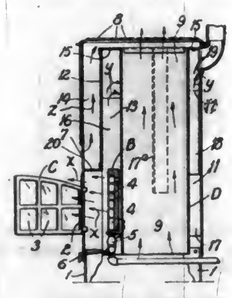


1. A device for holding cutting elements to be sharpened comprising a member having spaced end walls, and an elongated pocket interposed between said spaced end walls, said end walls being provided with openings in alignment with said pocket, said openings being of approximately the same shape as the cross-sectional shape of said pocket and said pocket and said openings being adapted to receive the blade of the cutting element to be sharpened.

1,666,679. COMBINED RADIATING AND CIRCULATING GAS HEATER. GEORGE L. BRIDGE, Clayton, Mo., assignor to Bridge & Beach Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 30, 1927. Serial No. 223,033. 3 Claims. (Cl. 126—92.)

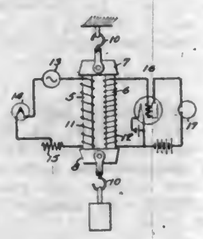
1. A combined radiating and air circulating gas heater, comprising a casing provided in its top with air discharge openings, a gas operated heating unit arranged inside of said casing, an opening in the front wall of said

casing through which radiant heat can escape, an open-ended air flue member of relatively great cross-sectional area arranged vertically in said casing in spaced relation to the side and rear walls of the casing so as to form



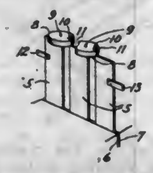
a rear gas flue and side gas flues, a partition interposed between said air flue member and the front wall of the casing so as to form an auxiliary air flue and a front gas flue, and air inlets in the front wall of the casing for supplying air to said auxiliary air flue.

1,666,680. DYNAMOMETER. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1922. Serial No. 610,015. 5 Claims. (Cl. 177—351.)



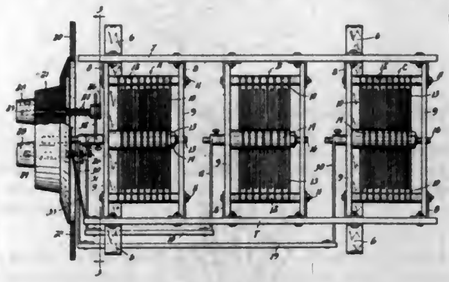
1. A dynamometer for measuring mechanical stress comprising a member composed of a magnetic material that undergoes a change in permeability of at least 200 c. g. s. units, continuously in one direction, when subjected to a mechanical stress of 4000 lbs. per square inch or less, means for applying stress to said member, and means for quantitatively indicating a change in permeability of said member.

1,666,681. MECHANICAL WAVE FILTER. HARRY A. BURGESS, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1924. Serial No. 708,127. 7 Claims. (Cl. 180—0.5.)



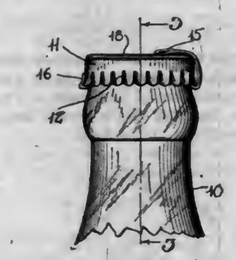
5. A mechanical wave filter comprising a member having freedom of rotation in one plane and freedom of translatory movement in a second plane so that the moment of inertia of said member as regards rotation in said first plane acts as one element of the filter and a characteristic of said member as regards its movement in said second plane acts as a second element of said filter.

1,666,682. CONDENSER ASSEMBLY CONTROL. HARRY H. BUSSE, Cleveland, Minn. Filed Apr. 6, 1927. Serial No. 181,390. 10 Claims. (Cl. 175—41.5.)



1. The combination with a plurality of independently movable elements of a radio condenser assembly, of a single rotatable main control dial, a plurality of means respectively connected to respective movable elements of said radio condenser assembly, and a plurality of individual control means mounted in said dial and connected to respective first mentioned means, whereby all of said movable elements may be rotated together as said dial is turned, each of said individual control means being so constructed that as the same is individually operated it will operate the respective means connected thereto to rotate one movable element independently of the other movable elements.

1,666,683. CLOSURE MEANS FOR BOTTLES. ELIZABETH M. CARHART, Jewell, Va. Filed Apr. 6, 1926. Serial No. 100,147. 4 Claims. (Cl. 215—46.)

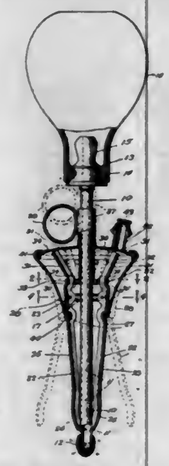


1. A closure device for bottles and the like, comprising a body portion having a top, a flange, a sealing member, a flexible elongated member in the form of a loop extending across and free of the body portion between the top and the sealing member, the ends being secured at one side of the top adjacent the flange, the bight of the loop extending beyond and from the flange, the flange being of sufficient rigidity to permit of the loop to raise the cap from the top of the container, the loop sliding on the contacting edge of the cover member flange and coacting by pressure on the top of the container to raise the cap when the loop is lifted.

1,666,684. VAGINAL DOUCHE. HERBERT H. CARSTENS, Oak Park, Ill., assignor to H. Carstens Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1926. Serial No. 81,867. 6 Claims. (Cl. 128—244.)

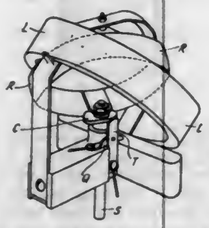
1. In an instrument of the character described, the combination with a spray tube, of a finger supporting

spider stationarily secured thereon, dilating fingers grouped around said tube and fulcrumed on said spider to swing in planes parallel with the axis of said tube, each finger having a rearwardly and outwardly inclined, terminal end portion, a finger actuating member slidably mounted on said tube and having openings formed therein for the reception of said terminal end portion of the fingers, said member being movable lengthwise of the tube,



and the outer edges of the openings therein being adapted, when said member is moved in one direction lengthwise of the tube, to engage the inclined outer sides of said terminal end portions of the fingers and thereby spread apart the other ends of said fingers, a disc like base plate mounted on said spray tube beyond the terminal end portions of said dilating fingers, and a finger hold secured to said finger actuating member at a place beyond said disc-like base plate.

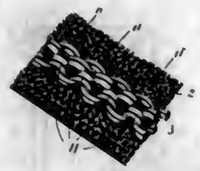
1,666,685. TUNING SYSTEM. NEWSOME HENRY CLOUGH, Chelmsford, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 15, 1926, Serial No. 102,126, and in Great Britain Apr. 24, 1925. 6 Claims. (Cl. 171—242.)



1. In a resonant circuit a variometer, a fixed inductance and a switch cooperating with said variometer and actuated thereby, adapted to include or exclude said fixed inductance from said resonant circuit.

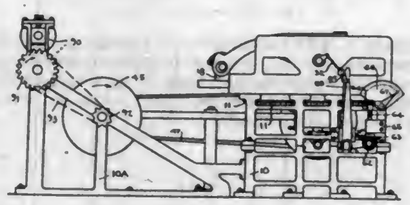
1,666,686. FABRIC. LESTER B. CHISHOLM, Melrose, Mass., assignor to Everlastik, Inc., Chelsea, Mass., a Corporation of Massachusetts. Filed Nov. 3, 1926, Serial No. 145,988, and in Canada Feb. 8, 1926. 5 Claims. (Cl. 139—420.)

1. A slip-resisting fabric, comprising in combination a textile backing and a raised slip-releasing structure thereon having a rough surface texture, including contacting rubber bights produced by binding juxtaposed rubber strands to the backing at intervals, said binding



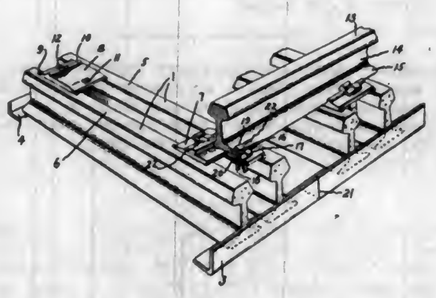
points being so spaced that the bights are crowded together reinforcing one another and certain of the bights are laterally deflected.

1,666,687. PAPERBOARD-CUTTING MACHINE. CHARLES EVERETT COLGROVE, Toronto, Ontario, Canada. Filed Jan. 10, 1927. Serial No. 160,176. 11 Claims. (Cl. 164—43.)



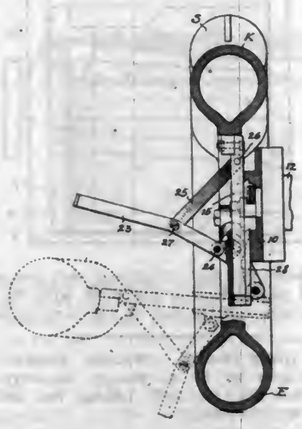
1. In a paper stock cutting machine, a reciprocating table carrying a knife therewith, an oscillating member carried by said table and having a knife positioned to co-act with said first-mentioned knife, means for feeding the paper stock between said knives, and means adapted for oscillating said member from said table in its movement.

1,666,688. RAILROAD-TRACK STRUCTURE. WILLIAM DALTON, Glenville, N. Y. Original application filed Feb. 1, 1927, Serial No. 165,136, Patent No. 1,657,242, dated Jan. 24, 1928. Divided and this application filed Sept. 20, 1927. Serial No. 220,811. 3 Claims. (Cl. 238—49.)



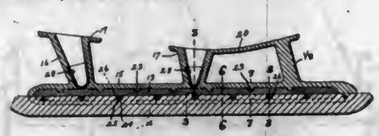
1. In a track structure, the combination of a plurality of ties having abutting projections at their ends whereby the ties mutually support each other, a rail on the ties, and abutting projections on the rail and at least one of the ties to prevent creeping of the rail.

1,666,689. COLLAPSIBLE CORE. PETER DE MATTIA, Passaic, N. J., assignor to De Mattia Brothers, Inc., Garfield, N. J., a Corporation of New Jersey. Filed Oct. 16, 1924. Serial No. 744,045. 3 Claims. (Cl. 154—9.)



1. A collapsible core comprising a plurality of core sections, a chuck or support therefor, one of said sections having a radial sliding movement on said chuck in the plane of the core, and also a swinging movement into and out of said plane, a swinging lever pivotally mounted at its lower end and a link pivotally connecting said lever and said movable section, the said lever being movable from a position within the plane of the core to a position outside of said plane and transversely thereto, to impart to said movable section in succession radial movements into and out of a position of operative continuity and swinging movements into and out of the plane of operative continuity.

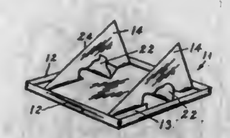
1,666,690. SKATE. CARL B. DREVITSON, Somerville, Mass. Filed June 30, 1927. Serial No. 202,606. 6 Claims. (Cl. 208—167.)



1. A skate comprising a runner, a non-metallic elongated core formed to bear on the major portion of the upper edge of the runner, and having a longitudinal groove receiving said upper edge to locate the core on the runner, the sides of the groove overlapping portions of the sides of the runner, and a one-piece metal casting including an elongated base portion cast on the core and on portions of the sides of the runner below the core, the casting including upstanding supporting standards.

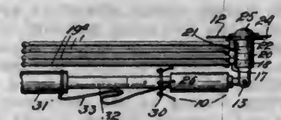
1,666,691. DISPLAY CARTON. DEAN A. EMERSON, Derby, Conn., assignor to The Star Pin Company, Derby, Conn. Filed Apr. 8, 1926. Serial No. 100,629. 3 Claims. (Cl. 206—44.)

1. A display carton, comprising a container and a cover therefor, and supporting members secured to the inner surface of the cover, each of said supporting members comprising a section secured flatwise to the inner surface of the container cover, and a section hingedly connected to the first named section and adapted to lie flatwise against the inner surface of the cover when the latter is on the container, and to be swung to an upstanding position in a plane at right angles to said surface of the container to support the latter to display the contents thereof, said hinged section having



an inclined free edge on which the container is adapted to be supported in an inclined position, and means for releasably securing said hinged sections in upstanding position, said securing means maintaining said sections in such upstanding position when the container is lifted therefrom.

1,666,692. FOLDING UMBRELLA. HARRIS EPSTEIN, Rockaway Beach, N. Y. Filed Jan. 29, 1927. Serial No. 164,469. 7 Claims. (Cl. 135—25.)



1. In a folding umbrella, the combination of a stick and ribs swiveled on the stick for folding together or for extending radially to spread the cover, the stick comprising a pivoted portion provided with a handle, the ribs when folded occupying a given position with respect to the upper part of the stick, and the pivoted portion of the stick mounted to swing toward such position of the folded ribs.

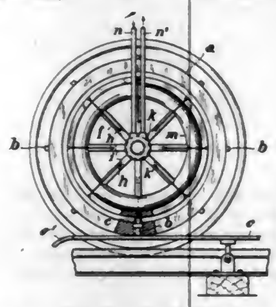
1,666,693. COMPOSITION TO BE USED IN CONNECTION WITH ANTIKNOCK COMPOUNDS. WILHELM GAUS, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Apr. 17, 1925. Serial No. 23,960. 5 Claims. (Cl. 44—9.)

1. A composition comprising a liquid fuel, that has a metal carbonyl compound mixed therewith, and a compound soluble in the said fuel and containing a halogen.

1,666,694. PRODUCING MIXTURES OF NITROGEN AND HYDROGEN. WILHELM GAUS and WILHELM WILD, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Original application filed Nov. 3, 1923, Serial No. 672,643, and in Germany Nov. 14, 1922. Divided and this application filed Feb. 5, 1925. Serial No. 7,165. 2 Claims. (Cl. 23—7.)

1. In the catalytic synthesis of ammonia from nitrogen and hydrogen the preliminary steps of operating a producer, containing incandescent fuel with steam and with two kinds of oxygenated air differing in percentage of oxygen one containing less oxygen and the other containing more oxygen than atmospheric air and both derived from rectification of liquid air while controlling their proportions so as to give rise to a gas mixture containing one volume of nitrogen for each three volumes of the sum of hydrogen and carbon monoxid and to enable the producer to be continuously operated without intercalating heating periods, then subjecting the gas mixture to a suitable treatment to substitute hydrogen for the carbon monoxid in the gas mixture and removing the carbon dioxid.

1,666,695. SAFETY DEVICE FOR PREVENTING RAILWAY ACCIDENTS. HUGO GREBEHEM, Herbsleben, Germany. Filed Mar. 24, 1927, Serial No. 178,081, and in Germany June 30, 1926. 1 Claim. (Cl. 246—200.)

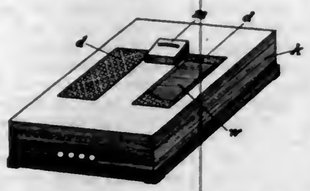


A safety-device for preventing trains overrunning the signal; "line blocked," comprising, in combination, a fixed rim on the outer side of one of the locomotive wheels of a train having radial borings therein, spring-pressed bolts in said borings adapted to normally project somewhat from the outer periphery of said rim, spring-pressed linked levers at one end in contact with the inner ends of said bolts, valves in connection with the other slot-guided ends of said levers, a steam supply pipe system leading to the compressed-air brakes of the train and normally shut-off by said valves, and an adjustable bar with declined ends on the permanent railway line placed with pulled signal: "line blocked" within the path of and in level with the outer periphery of said rim and then adapted to operate said bolts and thereby to open said valves and to free the steam supply therethrough.

1,666,696. PROCESS FOR UTILIZATION OF LIGNIN. ROBERT GRIESSBACH and JULIUS EISELE, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 18, 1927, Serial No. 227,049, and in Germany Oct. 22, 1926. 4 Claims. (Cl. 260—137.)

1. A process for recovering useful products from material rich in lignin which consists in extracting the said material with an organic halogen-containing solvent.

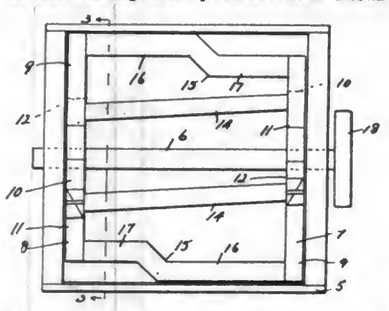
1,666,697. DIATHERMIC APPARATUS. GUSTAV GROSSMANN, Berlin, Germany. Filed Oct. 7, 1927, Serial No. 224,569, and in Germany Nov. 23, 1926. 3 Claims. (Cl. 174—89.)



1. In a diathermic apparatus, a casing, and ballast resistances in said casing for the protection of the oscillatory circuit of the apparatus arranged in the vicinity of one wall of said casing in such manner that the electrodes of the apparatus which are placed in said vicinity are heated by said resistances.

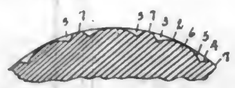
1,666,698. DOUGH MIXER. WILLIAM GUETHLER, Philadelphia, Pa. Filed June 19, 1926. Serial No. 117,009. 5 Claims. (Cl. 259—109.)

1. A dough mixer including a bowl and an agitator rotatably mounted in said bowl, said agitator comprising a shaft, spiders fixed thereon; a pair of bars disposed between the spiders, on opposite sides of and parallel with the shaft having offset portions and a second pair



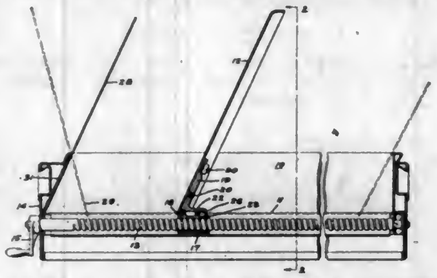
of bars between the first mentioned ones and on opposite sides of and oblique to the shaft with the axes of said oblique bars and the saft in the same plane.

1,666,699. GOLF BALL. WALTER HAGEN, Detroit, Mich., assignor to L. A. Young Company, Detroit, Mich. Filed Dec. 16, 1927. Serial No. 240,461. 8 Claims. (Cl. 273—62.)



7. A golf ball, the spherical surface of which is provided with annular recesses having convexly curved inner walls.

1,666,700. RECORD TRAY. CECIL B. HARRISON, San Francisco, Calif., assignor to Ross West and Kirby P. West, San Francisco, Calif. Filed Nov. 22, 1926. Serial No. 149,816. 15 Claims. (Cl. 129—16.)



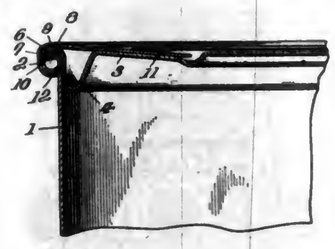
1. A device of the character described comprising a tray, a follower for supporting records, and means for moving said follower backwards and forwards lengthwise of said tray, said means comprising a threaded rod, a tube encircling said threaded rod, and a locking member pivoted to said tube and secured to said follower.

1,666,701. LENS POLISHER. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 10, 1922. Serial No. 551,137. 1 Claim. (Cl. 51—280.)



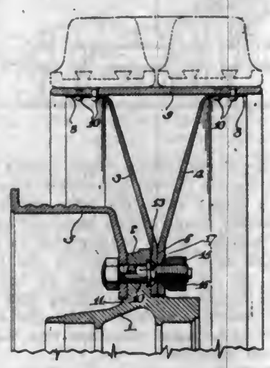
As a new article of manufacture, a backing provided with a coating of a mixture of beeswax, methyl salicylate and a phenol substance, and an abrasive embedded in the mixture.

1,666,702. METAL CONTAINER. WILLIAM W. HODGSON, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 15, 1927. Serial No. 175,494. 1 Claim. (Cl. 220—61.)



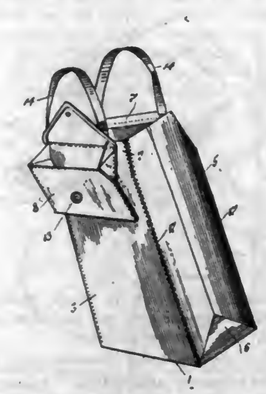
A sealed metal container comprising a body portion having an outwardly rolled flange, an end having a depending portion adapted to frictionally engage the inner wall of the body portion and an outwardly extending flange overlying the flange on said body portion, the outer portion of said flange on the end being folded underneath and against the under face of the flange, said underneath portion extending across and being shaped to conform to and engage the rolled flange on the body portion, said underneath portion terminating at said depending portion on the end, a sealing material located between the underneath portion and the rolled flange on the container body, and a sealing ring having a portion adapted to overlie the flange on the end, a portion extending downwardly across the edges of the flanges on the end and body portion of the container, and adapted to be turned under and against the lower portion of the flange on the container body so as to grip and hold said flanges in tight sealed contact, and means whereby said sealing ring may be torn across to release the same from the container.

1,666,703. HEAVY-DUTY DISK-WHEEL STRUCTURE. J. HAROLD HUNT, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1926. Serial No. 92,149. 2 Claims. (Cl. 301—63.)



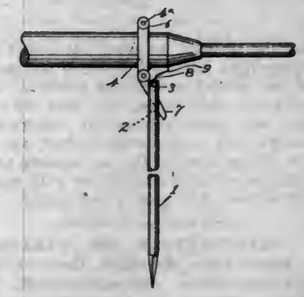
1. A wheel of the character set forth comprising a hub member, a pair of disks secured to said hub member, said disks being disposed in diverging relation and free of each other from said hub to the outer peripheral portions thereof, and a cylindrical rim band rigidly connected commonly to the outer peripheral portions of each of said disks.

1,666,704. COMBINED HAND BAG AND GRIP. WILLIAM N. HUNTER, Blanchester, Ohio. Filed Mar. 1, 1922. Serial No. 540,320. 1 Claim. (Cl. 150—1.7.)



A hand bag of the character specified, comprising a body portion of flexible material, a flat, stiff, rectangular bottom therefor, said bottom foldable against the outer surface of the body portion, bringing a fold of the opposite side of the body outermost, and said bottom having substantially half the width of the length of the bag, whereby the stiff bottom acts as a guide in folding to reduce the length of the bag when folded to substantially half the length of the bag when extended, and means for securing the bottom in folded position.

1,666,705. FISHING-ROD HOLDER. HENRY KEMPF and ALBERT KIEFER, Cincinnati, Ohio. Filed Apr. 22, 1925. Serial No. 24,923. 1 Claim. (Cl. 248—37.)

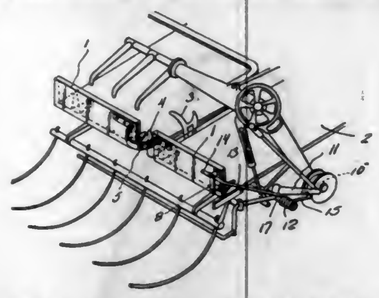


A fishing rod holder comprising a member adapted to be secured to an anchorage, and having a slot therein, with an element crossing said slot above the base thereof, and means secured to the rod having a member to extend through said slot and engage the base thereof, and a member to rest against said element, said members comprising a pair of diverging tongues, one of which enters the slot and the other of which lies on said element, said tongues having notches formed in the crotch dividing them from each other, for the purpose described.

1,666,706. GRAIN-HARVESTER ATTACHMENT. ABRAHAM KRAFT, Farmington, Minn. Filed Oct. 21, 1926. Serial No. 143,235. 2 Claims. (Cl. 56—449.)

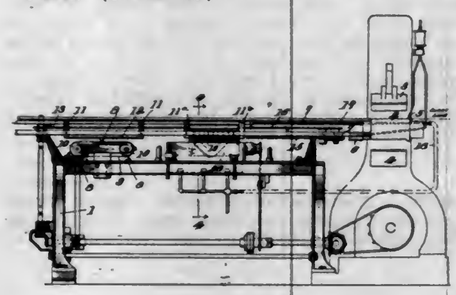
1. In combination, a binder deck, a needle arm, a compressor shaft, a bundle backing member hingedly mounted

upon said deck at the discharge end of the latter and adapted to assume a vertical operative position, and timing and operating means for said member pivotally



supported at its center upon the shaft, having one end bearing against said needle arm and the other end slidably connected with said backing member.

1,666,707. SOLDERING MACHINE. ALFRED L. KRONQUEST, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 18, 1927. Serial No. 169,250. 8 Claims. (Cl. 113—62.)



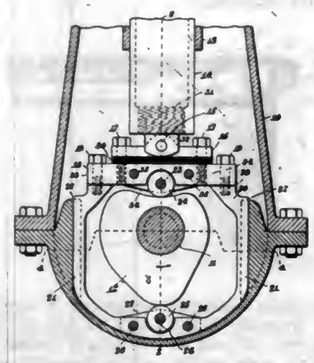
1. A soldering machine for metal can bodies comprising an inside supporting horse along which the can bodies to be soldered are moved, a series of soldering irons yieldingly mounted on said horse, and over which the can bodies pass, said irons successively engaging the side seam of the can body at the inside thereof, and means engaging the soldering irons at the face making contact with the side seam for supplying said irons with solder during the interval between the passing can bodies.

1,666,708. MANUFACTURE OF PARAFORMALDEHYDE. ERNST KUSS, Mannheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 18, 1926, Serial No. 116,947, and in Germany June 24, 1925. 2 Claims. (Cl. 260—140.)

1. The process of manufacturing paraformaldehyde which consists in catalytically oxidizing methanol substantially free from water practically completely to formaldehyde by means of an oxygen-containing gas, cooling the reaction gases so as to condense a mixture of formaldehyde and water vapor and concentrating the resulting liquid by means of the uncondensed gases and allowing the resulting concentrated solution to solidify.

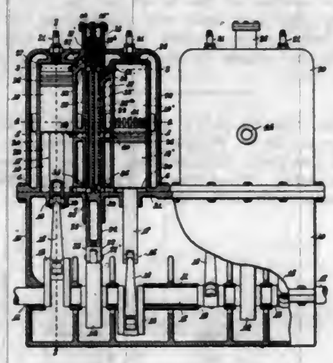
1,666,709. CAM MECHANISM FOR ACTUATING VALVES. GEORGE A. LOUD, Fitchburg, Mass., assignor to Loud Slide Valve Engine Co., Fitchburg, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1926. Serial No. 128,896. 3 Claims. (Cl. 74—14.)

1. The combination of a reciprocating member; a block pivoted to one end thereof; a yoke; a bifurcated block secured to said yoke; bolts connecting said blocks; shims between said bifurcated block and said yoke; a roller disposed in said bifurcated block; a second roller on said



yoke alined with the first mentioned roller; a cam between and coacting with both rollers; and a revoluble shaft to which said cam is secured.

1,666,710. INTERNAL-COMBUSTION ENGINE. GEORGE A. LOUD, Brookline, Mass., assignor to Loud Slide Valve Engine Co., Fitchburg, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1926. Serial No. 128,897. 26 Claims. (Cl. 123—59.)



7. In an internal combustion engine having two closed cylinders with pistons therein operatively connected to a power shaft, a single valve for both cylinders having therein two parallel compartments separated by a central partition and adapted in its reciprocation to permit the passage through said compartment of the combustible mixture from the mixing chambers to the explosion chambers; and means for reciprocating said valve and causing it to remain stationary while the combustible mixture is being discharged therefrom into the explosion chambers of said cylinders.

1,666,711. ROLLING MILLING TOOL. ARCHIE A. MACDONALD, Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Mar. 14, 1927. Serial No. 175,143. 3 Claims. (Cl. 29—103.)

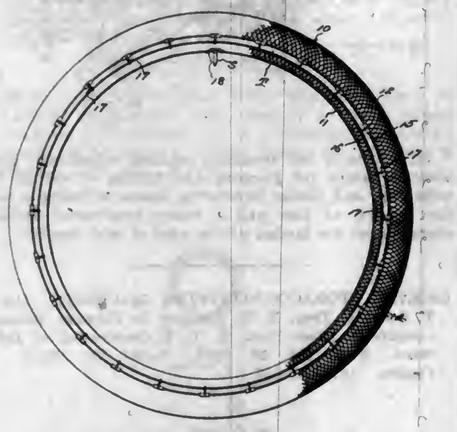
1. A milling tool for deep well operation, comprising a cylindrical head having its entire periphery formed into

cutting teeth, said teeth having their forward faces radial and their outer faces inclined from the cutting edge inwardly, scraping teeth on the forward end of



said head, said forward end having pockets therein, and rolling cutters mounted on radial axes within said pockets.

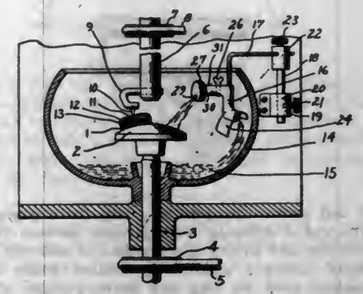
1,666,712. INNER-TUBE TESTER. GEORGE E. MANCOS, Richmond, Va. Filed Nov. 28, 1926. Serial No. 150,287. 2 Claims. (Cl. 73—51.)



2. A tube tester embodying an annular tubular casing formed with a side opening therethrough extending completely therearound, and fastening and spacing members swingably mounted at spaced intervals on and around the casing adjacent one side opening edge thereof for extending across the opening and releasably engaging the casing adjacent the opposite edge, said members in engaged position securing the casing edges in spaced opening forming relation to confine a tube in the casing while substantially completely exposing the surface of the tube disposed at and around the open side of the casing.

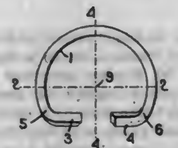
1,666,713. FLUID ABRADANT SUPPLYING MEANS. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 13, 1926. Serial No. 154,584. 2 Claims. (Cl. 51—263.)

2. In combination with a rotatable bowl containing a fluid abrasive, an abrasive scoop member comprising a pipe portion having an internal channel, a scoop apron at one end and in internal annular shoulder at the other end, a nozzle member having an annular barrel portion fitting the internal shoulder of the pipe member and having an external projecting portion and a transverse recessed groove on the barrel portion, screw means projecting through the pipe portion into the recessed groove on the barrel portion whereby the barrel portion may be turned within the annular shoulder portion without separation of the parts, said nozzle mem-



ber having a central channel portion aligning with the channel portion of the pipe member and an offset channel portion intersecting the first channel portion and opening through the extending portion of the nozzle member, means to support the abrasive scoop member within the bowl in operative related position with the walls of the bowl, and means intermediate the ends of the scoop member for regulating the amount of abrasive passing through the internal channel thereof.

1,666,714. SPINNING-RING TRAVELER. CHARLES F. MERRILL, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Original application filed Mar. 25, 1926, Serial No. 97,242. Divided and this application filed July 12, 1927. Serial No. 205,213. 7 Claims. (Cl. 118—61.)



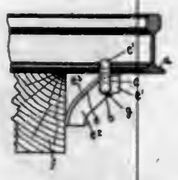
1. A spinning ring traveler of uniform cross section having a flat inner bearing surface having its central bow section cylindrical and the bearng surfaces of the horns and bow sections adjacent the horns obliquely helicoidal at an angle to the central bow section corresponding to the normal angle of inclination of the traveler when running.

1,666,715. DYEING PREPARATION FOR CELLULOSE ESTERS. RICHARD METZGER, Heidelberg, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1926, Serial No. 92,346, and in Germany May 7, 1925. 4 Claims. (Cl. 8—6.)

1. As a new composition of matter, a mixture comprising an organic substance which is capable of directly pro-

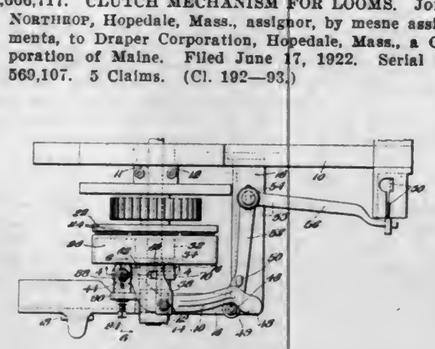
ducing dyeings in full and deep shades on cellulose esters, but not sufficiently soluble in water to permit the use of its aqueous solution for producing such dyeings, and molasses.

1,666,716. RAIL ANCHOR OR ANTICREEP DEVICE FOR RAILWAY RAILS. PERCY BARRINGTON MEYER, London, England. Filed June 23, 1927, Serial No. 200,945, and in Great Britain Aug. 6, 1926. 5 Claims. (Cl. 238—317.)



1. A rail anchor, comprising a clip for engaging with the rail, and a gripping lever pivoted between its ends upon the clip and having end portions of different length, said lever having a reinforcing member which extends continuously from its long end which engages with the tie to its short end which engages with the rail.
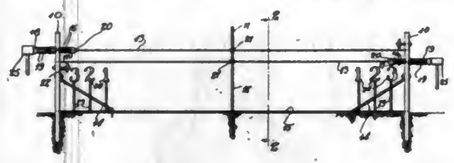
1,666,717. CLUTCH MECHANISM FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 17, 1922. Serial No. 569,107. 5 Claims. (Cl. 192—93.)



1. A loom having, in combination, a frame, a knock-off lever mounted on the frame, a shaft, a disk secured thereto having a series of friction members on one surface thereof, a driving pulley capable of movement into engagement with the friction members upon said disk, connections between said pulley and the knock-off lever including a bell crank lever arranged to be moved by the knock-off lever, a pivoted lever connected to the pulley and having a cam surface cooperating with one arm of the bell crank to cause axial movement of the pulley into engagement with the friction members on the disk when the knock-off lever is moved into a position to start the loom, said bell crank lever being provided with an arm that extends approximately at right angles to the portion of said pivoted lever with which it cooperates through said cam surface and having a part to engage and positively actuate the pivoted lever to release the friction driving members.

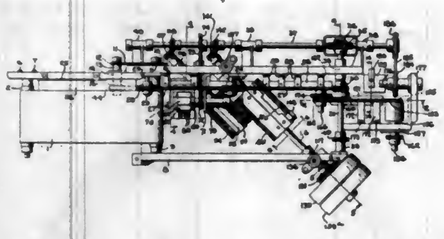
1,666,718. GAME. EDWARD J. PLAYFOOT, Galeton, Pa. Filed Mar. 8, 1927. Serial No. 173,739. 3 Claims. (Cl. 265—20.)

1. In a device of the kind described, a pair of spaced posts, guide members extending between said posts, a spring retracted impeller mounted slidably on each post, in alignment with the repective guide members and adapted to receive blows from a mallet, balls movable along said members and movable to engage the respective



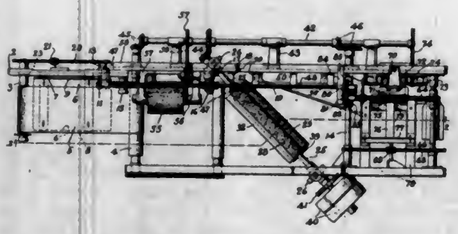
impellers, and other balls movable along said members and positioned to be struck by the first balls upon the latter being actuated by the impellers.

1,666,719. TOBACCO-STEMMING MACHINE. JAMES P. SCOVILL, Troy, N. Y., assignor, by mesne assignments, to Peerless Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed July 18, 1921. Serial No. 485,596. 20 Claims. (Cl. 131—57.)



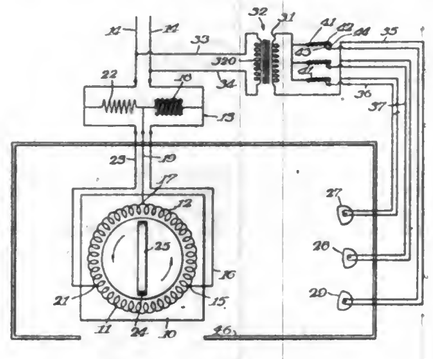
12. A tobacco leaf stemming machine including in combination means for grasping and holding a leaf by its stem butt, and lamina puncturing means including a support having an edge and a rotary puncturing member operating on the lamina at the edge of said support.

1,666,720. TOBACCO-STRIPPING MACHINE. JAMES P. SCOVILL, Troy, N. Y., assignor to Peerless Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1925. Serial No. 25,517. 2 Claims. (Cl. 131—57.)



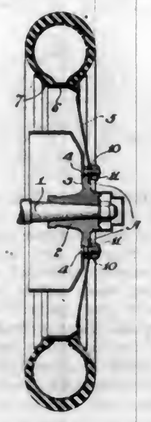
2. In a tobacco stemming machine, means to grasp the butts of a succession of leaves and transport them in one direction, means to break the lamina of the leaves transversely of the stems close to the transporting means, means to strip the lamina from the break toward the tip of the leaf, a second transporting means receiving from the first, and arranged to grasp the butts near the break, and a second stripping means for stripping the lamina towards the butts, while the leaves are held by the second transporting means, the breaking means having parts moving at right angles to the direction of travel of the leaves.

1,666,721. ADVERTISING DEVICE. RICHARD M. SHERRILL, Evanston, Ill., assignor to Central Scientific Company, a Corporation of Illinois. Filed Sept. 21, 1926. Serial No. 136,889. 10 Claims. (Cl. 46—49.)



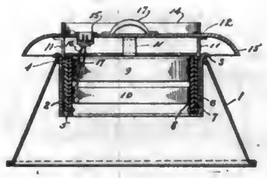
1. In an advertising device, a support of poorly conducting material, stationary means for producing a rotatory magnetic field over the support, and a light annular object containing conducting material on said support and adapted to be rotated by said field about a diameter normal to the support.

1,666,722. DEMOUNTABLE DISK WHEEL. JOHN P. TARBOX, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 8, 1926. Serial No. 134,148. 8 Claims. (Cl. 301—9.)



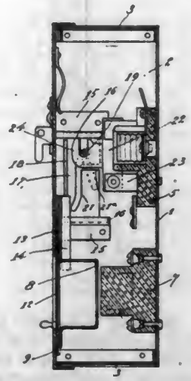
8. A fastening arrangement for wheels of automotive vehicles comprising a hub having a radial flange, a plurality of stud bolts projecting from said flange, a wheel provided with a plurality of outwardly embossed portions each having an aperture therethrough and a plurality of radial slots intersecting said apertures, said studs being adapted to project freely through said apertures, and nuts threaded on said studs and having recesses adapted to receive and engage said outwardly embossed portions to press said wheel against the hub flange.

1,666,723. ELECTRICAL ROACH TRAP. STACY D. TRUMBO, Columbus, Ohio. Filed July 6, 1926. Serial No. 120,613. 2 Claims. (Cl. 43—112.)



1. In a trap, the combination with a receptacle, of a collar suspended therein, a band removably engaged in the collar and having spaced electrodes thereon, a cover supported by the band and capable of being inverted to close the upper end of the receptacle, as and for the purpose set forth.

1,666,724. INCLOSED ELECTRIC SWITCH. DAVID T. WADSWORTH, Cold Springs, Ky., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky., a Corporation of Kentucky. Filed Aug. 15, 1924. Serial No. 732,272. 5 Claims. (Cl. 200—50.)

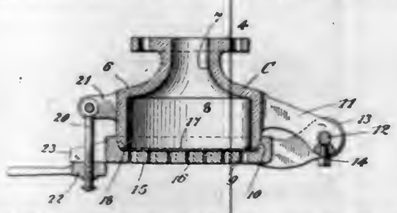


1. An electric switch and fuse box comprising a switch, a member for operating the switch, comprising a rocking part controlled from the outside of the box, said box having an opening and a shutter therefor, a slide in the box, means for slidably mounting the slide, said slide being formed and located so as to prevent open positions of the shutter, when the slide is in a selected position, and means on the slide detachably engaging the rocking part, whereby it is moved to the said selected position when the switch is closed.

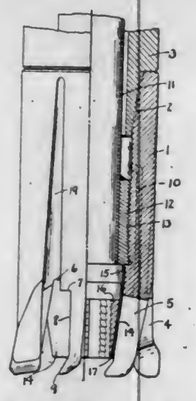
1,666,725. TERMINAL STRAINER FOR DOPE SYSTEMS. EMIL WEINHEIM, New York, N. Y. Filed Apr. 3, 1924. Serial No. 704,080. 4 Claims. (Cl. 210—149.)

1. A terminal strainer for ducts adapted to deliver dope of the type employed in the manufacture of substitute leather comprising a walled structure having at its top provisions for connction with a dope duct and providing a downwardly enlarged expansion chamber, and having a downwardly directed open mouth the interior of which structure is smooth throughout and freely accessible through said mouth for manual cleaning; a perforated screen supporting lid adapted to make a fluid tight fit about said mouth the perforations of which open

directly to the exterior of said strainer; means for readily clamping and unclamping said lid to and from said structure including a laterally offset hinge for maintaining said lid permanently fastened to said walled structure and causing it to swing clear of said open mouth when unclamped; and a screen for overlying said lid.

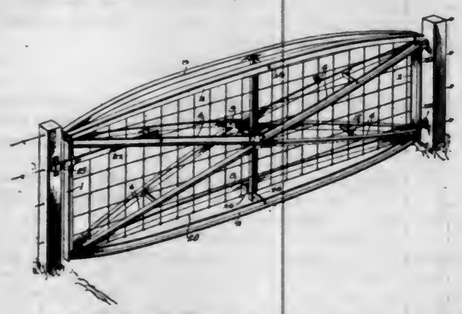


1,666,726. SOFT-FORMATION CORE DRILL. LOUIS H WELLENSIEK, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Aug. 2, 1926. Serial No. 126,471. 2 Claims. Cl. 255—72.)



2. A core drill including a tubular head, teeth cut deeply into the lower wall thereof, each alternate tooth being inclined inwardly, a core catcher sleeve tapered to fit the supports provided by said inwardly inclined teeth, said sleeve closing the space between said teeth from a line above said teeth to a level closely adjacent the lower ends thereof, said sleeve being also adapted to receive core engaging elements.

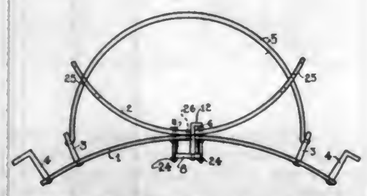
1,666,727. GATE. WALTER F. WEBBE, Martinsville, Ind. Filed Apr. 4, 1927. Serial No. 180,881. 5 Claims. (Cl. 256—73.)



1. A gate of the character described including end members, top and bottom double truss members, angle-iron braces connecting said end members together, a central brace connecting and bracing the top and bottom truss members, a center casting formed of side plates having grooves formed therein and connected together by a central web provided with a groove for receiving the central brace, and diagonal angle-iron braces fitted in the grooves in the side plates of the center casting and connected with the end members.

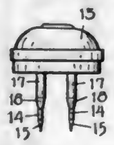
5. A gate including a frame having bracing members, and a connecting casting formed of side plates connected together by a central web secured to at least one of the bracing members, other of said bracing members being connected to the side plates.

1,666,728. PROJECTING SPRING STRAP FOR TRAPPING FUR-BEARING ANIMALS. WILLIAM BIEDERMAN, Sesekinika, Ontario, Canada. Filed June 27, 1927, Serial No. 201,821, and in Canada May 17, 1926. 3 Claims. (Cl. 43—88.)



1. An animal trap comprising a pair of spring-operated jaws, a spring member mounting said jaws, a cross member secured to said spring member, catches carried by said cross-member and positioned to operatively engage said jaws when open, rods pivotally connected to said catches and having co-acting teeth adapted to lock said rods against relative displacement in one direction only, and a bait-operated trigger for unlocking said rods.

1,666,729. ELECTRIC FIXTURE. WILLIAM G. BIEK and GEORGE D. RICE, Dowagiac, Mich. Filed July 20, 1927. Serial No. 207,097. 6 Claims. (Cl. 173—338.)

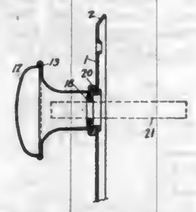


1. An electric fixture comprising a socket member of insulating material having a pair of bore-like recesses therein, the edges of said recesses being beveled, contacts supported in said recesses and having curved spring fingers, and a plug member provided with a pair of prong-like contacts having sharp points adapted to pierce a rug or the like, said plug contact members being insulated for a substantial distance from the bases thereof, the outer ends of the insulation being chamfered to a thin edge, the end portions of said plug contact members projecting from the insulation to engage with the contacts of said socket.

1,666,730. METHOD OF PACKING ASPHALT. FRED BREEZE, Jr., Wyoming, Ohio, assignor, by mesne assignments, to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 5, 1923. Serial No. 630,170. 1 Claim. (Cl. 23—239.)

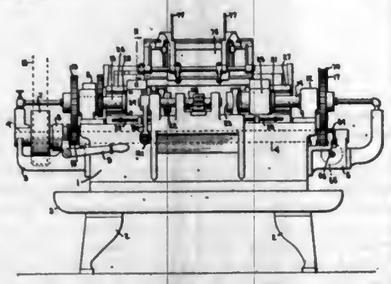
A method of preparing asphalt for shipment which consists in coating the walls of a mold with a lubricating surface, pouring into the mold melted asphalt, allowing the block to solidify, removing the molded asphalt block from the mold, and inserting the molded block in a fiber container of such size as will snugly retain the block wherein the lubricant which the side walls of the molded block have picked up from the walls of the mold will prevent the walls of the block from adhering to the walls of the container.

1,666,731. KNOB MOUNTING. HARLEY BROOMHALL, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a Corporation of Ohio. Filed Apr. 16, 1926. Serial No. 102,456. 1 Claim. (Cl. 292—356.)



An escutcheon plate and knob assembly, comprising a plate formed with an opening, a ring member having an enlarged circular flange to overlie the plate and a reduced circular flange to fit within said opening, the reduced circular flange being of such dimension as to permit it to be beaded over the inner side of the escutcheon plate, a knob, a washer formed with a non-circular opening and having integral prongs for connecting the washer to the knob, the diameter of said washer corresponding to the enlarged circular flange of the ring to permit the washer to be inserted within said flange, with the flange of a length to be beaded over to hold the washer against other than rotative movement with respect to the rim.

1,666,732. AUTOMATIC STAYBOLT THREADING MACHINE. JOHN P. BROPHY, Cleveland Heights, Ohio, assignor to The Cleveland Automatic Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 8, 1923. Serial No. 617,721. 21 Claims. (Cl. 10—92.)



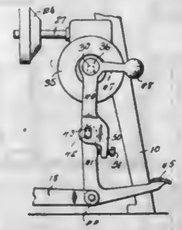
6. In a machine of the character described, the combination of a bed plate, a drive shaft journaled therein, opposed thread cutting dies reciprocably mounted on said bed plate, a lead screw actuated from said shaft, means for intermittently connecting the lead screw with the dies to cause them to approach one another, means operated from said shaft for retracting said dies, means for intermittently feeding blanks between said dies, and means for gripping the blanks intermediate their ends during the approach of said dies.

13. In a machine of the character described, the combination of a reciprocably mounted slide, a pair of jaws carried thereby, means for advancing said slide while maintaining the jaws in open condition, and means cooperating with said first named means for closing said jaws when the slide has been advanced, said slide advancing means being provided with loose play at the end of its forward stroke.

1,666,733. PROCESS OF WASHING SALTS. GEORGE B. BURNHAM, Reno, Nev., assignor to Burnham Chemical Company, Reno, Nev., a Corporation of Nevada. Filed Dec. 19, 1925. Serial No. 76,408. 8 Claims. (Cl. 23—41.)

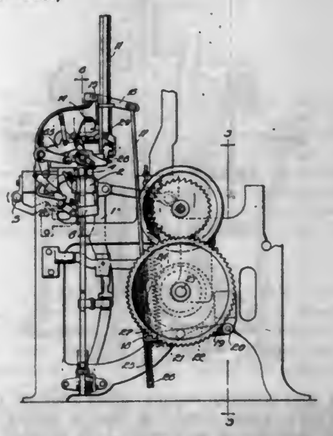
1. The process of separating borax from a mixture of salts containing the same and salts of greater solubility which comprises flowing the mixture in one direction and washing the mixture with a liquid flowing in the opposite direction.

1,666,734. PRESS. ALBERT B. CLISSON, Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Mar. 25, 1924. Serial No. 701,652. 14 Claims. (Cl. 68—9.)



1. A power pressing machine comprising in combination, a frame, cooperating pressing jaws carried thereon, means to bring the jaw into contact, a toggle linkage connected with one pressing jaw and pivoted on the frame, a lever arm integral with the toggle linkage and projecting forwardly from that toggle link which is pivoted on the frame, another toggle linkage carried on the forward end of the lever arm and extending substantially vertical therefrom and adapted to straighten and move into braced position when the jaws are brought into contact, and motor operated means connected with the upper end of the last named toggle linkage to exert a thrust thereon to move the lever arm to compress the said contacting jaws.

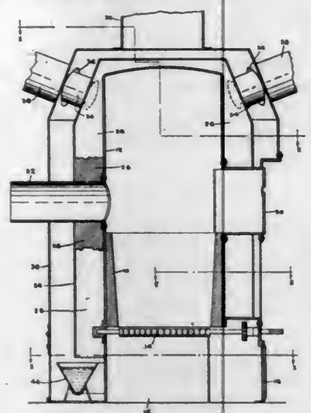
1,666,735. TEXTILE APPARATUS. HOWARD D. COLMAN, Rockford, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois (1922). Filed June 7, 1920, Serial No. 386,948. Renewed Sept. 19, 1927. 28 Claims. (Cl. 139—243.)



1. The combination with means for supporting a bobbin having a longitudinal groove in its tip, the end of the thread on the bobbin being coiled on the tip, of

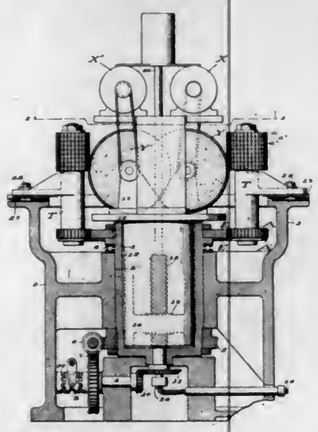
a hook arranged to be reciprocated longitudinally of the tip to enter said groove and withdraw said coil from the tip.

1,666,736. HOT-AIR FURNACE. FRANK A. CONRAD, St. Paul, Minn. Filed May 29, 1924. Serial No. 716,820. 3 Claims. (Cl. 126—99.)



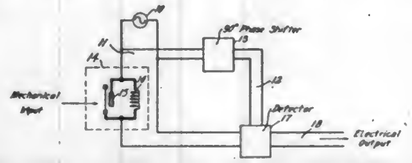
1. In a hot air furnace, the combination of a plurality of hot air pipes leading therefrom, means for supplying cold air to the furnace to be heated thereby, and a plurality of short pipe sections smaller than said hot air pipes and corresponding in number thereto for conducting hot air supplied by the furnace into said pipes respectively, said pipe sections being so arranged that some of the cold air entering the furnace may pass outside of said sections directly into said pipes to equally distribute the amount of hot air delivered by all of said pipes for varying directions of the wind.

1,666,737. GEAR GRINDER. ADOLPH L. DE LEEUW, Plainfield, N. J., assignor of one-half to Albert F. Nathan, New York, N. Y. Filed Mar. 23, 1926. Serial No. 96,706. 13 Claims. (Cl. 51—52.)



1. A gear-grinding method which consists in rotating an abrasive wheel formed so that a section of its periphery corresponds accurately to a selected tooth-contour; and effecting a relative roll between said peripheral section and a gear-blank progressively along a helical path of closely adjacent convolutions coincident in plan with the pitch-circle of said peripheral section; the radii of the pitch-circles of said section and of said gear-blank respectively having rational values but being in a relatively prime ratio whereby during each complete cycle of said relative roll the periphery of said wheel will enter and develop the contour of a different tooth-space of said gear-blank.

1,666,738. TRANSMISSION CIRCUIT. RALPH V. L. HARTLEY, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1924. Serial No. 734,861. 22 Claims. (Cl. 179—171.)



1. The method of converting a mechanical wave into an electrical wave which comprises modulating the phase of a carrier wave in accordance with said mechanical wave, and producing the desired wave by beating together the resulting modulated wave and a carrier wave substantially in phase quadrature with said first-mentioned carrier wave.

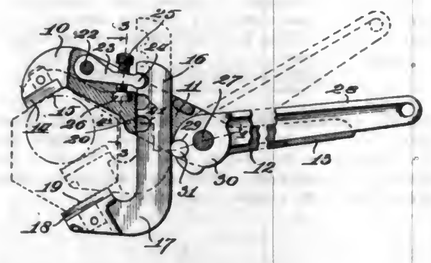
1,666,739. MCLEOD-TYPE PRESSURE GAUGE. CARL S. HORNBERGER, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1927. Serial No. 188,722. 2 Claims. (Cl. 73—31.)



1. In a device of the class described, the combination of a barometric tube, a cistern connected with the tube and including an elongated barrel for liquid, an elongated plunger mounted to reciprocate in the barrel to alternately displace and be displaced by the liquid, said plunger having a bore so presented to the liquid as to trap air therein and form an air cushion, and a threaded connection between the plunger and cistern to permit adjustment.

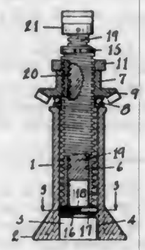
1,666,740. WRENCH. HANS K. HYRUP, Los Angeles, Calif. Filed Sept. 16, 1925. Serial No. 56,711. 3 Claims. (Cl. 81—151.)

1. In a wrench, a handle, a jaw pivotally connected thereto, which jaw is provided with an opening, a substantially L-shaped jaw having one of its legs extending through the opening in the other jaw, the leg of said L-shaped jaw that projects through said opening being provided in its front face with a series of notches, a member pivotally and adjustably mounted upon the jaw that is pivoted to the handle for engagement in



the notches in the leg of said L-shaped jaw and a member carried by the pivoted end of the handle for engaging the L-shaped jaw and locking the same to the jaw that is carried by the jaw to which said handle is pivoted.

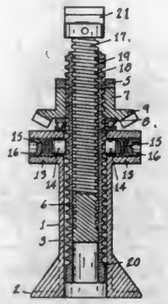
1,666,741. LIFTING JACK. ALFRED H. JOHNSON, Niles, Mich., assignor to National Standard Company, Niles, Mich. Filed Mar. 22, 1926. Serial No. 96,555. 2 Claims. (Cl. 254—102.)



1. In a lifting jack, the combination of a standard having a shallow longitudinal bore with a longitudinal groove having beveled edges opening thereto, a nut mounted on said standard, means for driving said nut, a tubular lifting member disposed in said standard and externally threaded to coact with said nut, means for limiting the longitudinal travel of said lifting member within said standard, a spring pressed pin disposed radially of said lifting member to coact with said groove whereby the lifting member is normally held against rotation during the longitudinal travel thereof and is permitted to rotate at the ends of its travel, and a second lifting member arranged in said tubular lifting member and having threaded engagement therewith and having a work engaging head at its upper end.

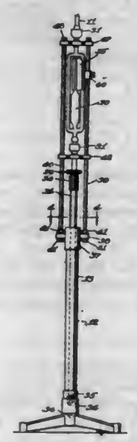
1,666,742. LIFTING JACK. ALFRED H. JOHNSON, Niles, Mich., assignor to National Standard Company, Niles, Mich. Filed Mar. 22, 1926. Serial No. 96,556. 3 Claims. (Cl. 254—102.)

1. In a lifting jack, a standard having a longitudinal bore, said standard being provided with a friction shoe holder opening to said bore, a nut rotatably mounted on the top of said standard, means for driving said nut, a tubular cylindrical lifting member disposed in said standard and having an external unbroken thread coacting with said nut, said lifting member being provided with means limiting its travel, a spring pressed friction shoe in said holder coacting with the cylindrical threaded surface of said lifting member and radially disposed



relative thereto, and a second lifting member threaded into said tubular lifting member and provided with a work engaging head.

1,666,743. McLEOD-TYPE PRESSURE GAUGE. PAUL E. KLOPSTEG, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 30, 1925. Serial No. 78,334. 5 Claims. (Cl. 73—31.)

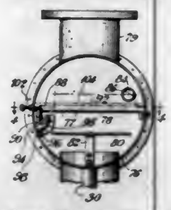


1. In a McLeod gauge, a measuring head including a main tube and a by-path tube forming a loop, a bulb connected with the loop at the bottom and extending upwardly therein, a capillary tube connected at its lower end with the bulb and closed at its upper end, the by-path tube having a capillary section beginning at the level of the bottom of the capillary tube and extending parallel thereto, the main tube being extended beyond the loop.

1,666,744. GAS-ABSORPTION APPARATUS. WILBUR G. LAIRD, New York, N. Y., assignor to Henry L. Doherty, New York, N. Y. Original application filed June 24, 1919, Serial No. 306,391. Divided and this application filed Nov. 3, 1920. Serial No. 421,442. 6 Claims. (Cl. 261—113.)

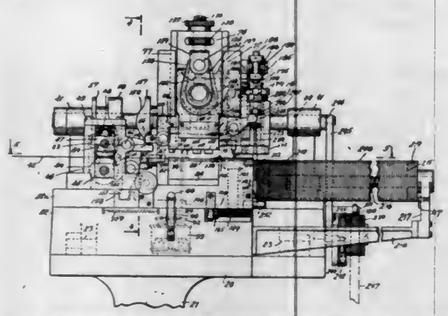
1. An apparatus for absorbing gas under pressure in liquids which comprises a horizontal cylindrical container, a perforated substantially horizontal partition in said cylindrical container, means for uniformly feeding liquid at one edge of said partition, means for uniformly re-

moving the liquid from the other edge of the partition, means for introducing gas under the partition and re-



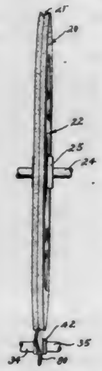
moving gas from above the partition and dams at right angles to the axis of the container dividing the surface of the partition into sections.

1,666,745. MESH MACHINE. FRED HARRIS LYNDS, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed Aug. 27, 1926. Serial No. 131,874. 47 Claims. (Cl. 140—3.)



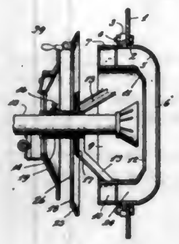
1. A machine for the manufacture of link-mesh fabric, which comprises the combination of a support for a piece of mesh, tools for incorporating links in the piece of mesh, means for forming links from blank material and delivering these links to the tools, and power-driven mechanism for giving the tools and the piece of mesh a relative movement to present successive portions of the mesh to the tools and for operating the tools and the link-forming means.

1,666,746. BEVEL-EDGING MACHINE. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 28, 1924. Serial No. 716,423. 5 Claims. (Cl. 51—101.)



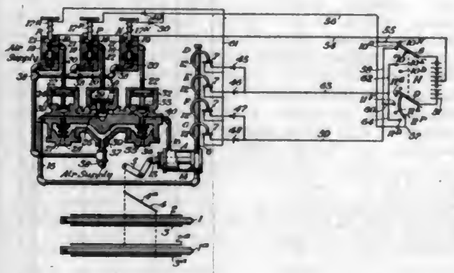
1. In a lens edging machine, a grindstone shaft, an annular grindstone ring having a groove in its grinding face, lens clamps holding a lens with its edge extending into the groove in the grindstone, means for rotating the shaft, means for rotating the lens clamps, and a flexible member connecting the shaft and the grindstone annular ring whereby the engagement of the edge of the lens in the groove in the grindstone as it rotates therein will bend the flexible member to permit the grindstone to adjust itself to the change of position caused by the change of plane of the point of contact of the edge of the lens as it rotates.

1,666,747. LIQUID-FUEL-BURNING FURNACE. JAMES MCDONALD, New York, N. Y., assignor to White Fuel Oil Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 27, 1923. Serial No. 665,047. 22 Claims. (Cl. 158—1.5.)



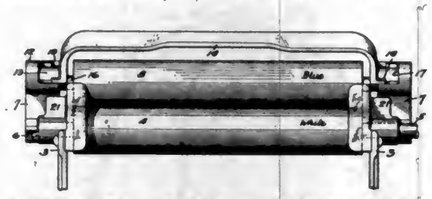
1. A burner apparatus for liquid fuel furnaces having a pair of air supply tubes, one of said tubes being housed within the other to provide an air passage between the two, and an annular plate movable axially of said tubes to approach and recede from the outer end of the space between the tubes whereby to regulate the flow of air therethrough said annular plate having a central clearance to expose the opening through the inner tube.

1,666,748. MOTOR-CONTROLLING APPARATUS. JOSEPH K. MICKLEY, Western Springs, Ill., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1927. Serial No. 178,682. 12 Claims. (Cl. 303—20.)



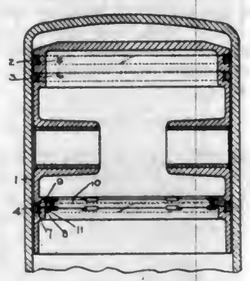
2. In combination, a fluid pressure motor, a source of current, a magnet for controlling the fluid pressure supplied to said motor and having one terminal connected with an intermediate point of the source, two contacts responsive to the fluid pressure in said motor, and manually operable means for at times connecting one terminal of the source with the free terminal of the magnet through a first asymmetric unit and one said contact and for at other times connecting the other terminal of the source with such free terminal of the magnet through a second asymmetric unit and the other said contact.

1,666,749. WRINGER. FRANK B. MOREHOUSE and WILLIAM H. KLEINHAMMER, San Francisco, Calif., assignors, by direct and mesne assignments, to Tramway Mfg. Co., a Corporation of California. Filed Oct. 30, 1923. Serial No. 671,731. 5 Claims. (Cl. 68—32.)
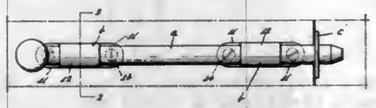


1. In a wringer, a pair of movable bearings each having a lateral aperture therein, a release member, trunnions on said release member journalled in said bearings, each of said trunnions having a bearing therein opening laterally on the face of the trunnions and adapted to register with said aperture, a roll, and trunnions on the roll seated in the bearings in the trunnions of the release member.

1,666,750. PISTON RING. ELDREDGE H. PACKER, San Francisco, Calif. Filed Nov. 3, 1926. Serial No. 145,923. 6 Claims. (Cl. 74—109.)



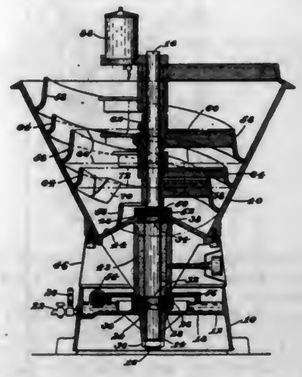
1. The combination with a cylinder and a piston operating in the cylinder, the piston being provided with a piston ring groove, of a piston ring mounted in the groove, a resilient member mounted interiorly of the piston, projections extending loosely through said openings and engaging the upper side and back of the piston ring, which projections are forced outward by said resilient member and means providing for the downward as well as outward movement of said projections and the piston ring.

1,666,751. BOLT GUIDE. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Feb. 2, 1926. Serial No. 85,552. 3 Claims. (Cl. 292—337.)



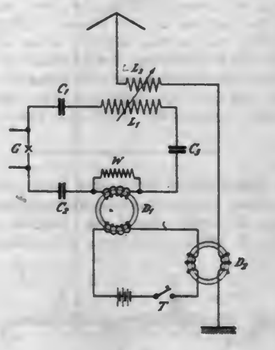
1. A staple for sliding bolts formed of sheet metal and having a base with a slit, a single ear extending from each end of said base, and an arch arising from and formed integrally with the side edges of said base; one of said ears being integral with the metal of the base to one side of said slit, and the other ear being integral with the metal of the base to the other side of said slit each of said ears being of substantially the same width as the staple and extending longitudinally of the base.

1,666,752. FORMING MACHINE. GUNTHER H. PETRI, Boston, Mass. Filed Oct. 12, 1922. Serial No. 594,065. 5 Claims. (Cl. 107—9.)



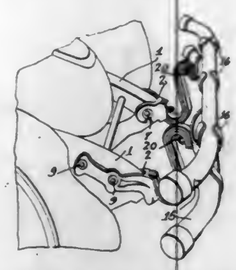
1. A forming machine for plastic material comprising a rotatable conical molding table; a vertical standard extending upward therein; dough races of different sizes supported on said standard, extending spirally over said table, adapted to engage different sized masses of plastic material, whereby the table works on different sizes simultaneously; and means for rotating said table about said standard in a direction crossing the races.

1,666,753. HIGH-FREQUENCY TELEGRAPHING APPARATUS. LEO PUNGS and ROBERT HERZOG, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Dec. 28, 1925, Serial No. 78,035, and in Germany Feb. 13, 1925. 2 Claims. (Cl. 250—19.)



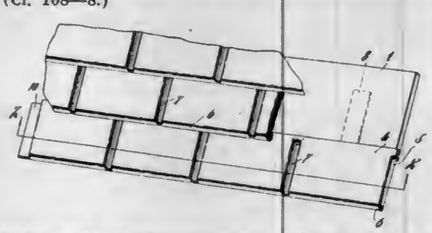
1. In a high frequency signaling system, the combination of a high frequency generator, a radiating antenna system, one or more intermediate circuits arranged between said generator and said radiating system, iron chokes placed in said radiating circuit and in a preceding intermediate circuit and controlled simultaneously by one and the same controlling current, and a resistance connected in parallel with the choke located in said intermediate preceding circuit.

1,666,754. AUTOMOBILE BUMPER. WILLIAM RAHE, Cincinnati, Ohio. Filed July 21, 1926. Serial No. 123,995. 9 Claims. (Cl. 293—55.)



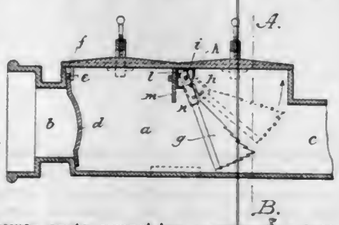
1. In combination in a double bar bumper, double bars and clamps for engaging the double bars, a resilient member extending in alignment with the bars between the bars engaging said clamps, brackets adjustably secured to an automobile frame, S-shaped springs composed of pluralities of S-shaped leaves secured to said brackets, one spring to one bracket, and adjustable connections between the S-shaped springs and the resilient member.

1,666,755. ROOFING. CHESTER E. BAHA, Brookline, Mass., and FREDERICK C. OVERBURY, Hillsdale, N. J. Filed Oct. 20, 1923. Serial No. 669,698. 3 Claims. (Cl. 108—8.)



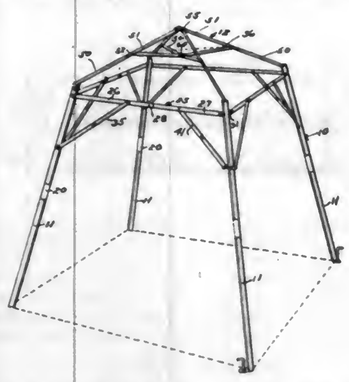
1. A roofing element comprising a fibrous sheet saturated and coated with asphaltic material and provided with cut-outs at intervals along its lower edge extending up beyond the portion of the element which is exposed to the weather, and a thin metallic sheet secured to the fibrous sheet and overlying the portion of the element exposed to the weather but not extending up to the upper ends of the cut-outs, the said metallic sheet being unbroken at the cut-outs but depressed into and bridging them.

1,666,756. CLEANSING BOX FOR USE IN SEWERAGE PIPES. CARL SASS, Hamburg-Harvestehude, Germany. Filed Aug. 28, 1926, Serial No. 132,253, and in Germany May 7, 1925. 2 Claims. (Cl. 182—30.)



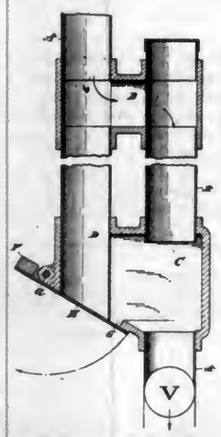
1. A sewer grate comprising a supporting bolt, a plurality of juxtaposed, parallel sector-shaped rods having toothed lower ends, a means for suspending the upper ends of said rods rotatably independently and exchangeably from said common support.

1,666,757. COLLAPSIBLE TENT. HARRY F. SNYDER, Los Angeles, Calif., assignor of one-half to Mary E. Rice. Filed May 6, 1925. Serial No. 28,325. 7 Claims. (Cl. 135—4.)



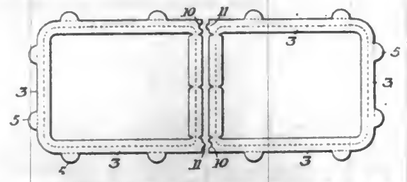
1. In a folding frame for collapsible tents, the combination with corner posts, cross members and folding rafters, each of said rafters being pivotally connected at its lower end with the upper end of one of the posts and adapted to fold parallel therewith, and attached at the other end to a center block, said rafters each composed of two sections pivotally connected together, said rafters being adapted to collapse upon moving their pivotal connection downwardly.

1,666,758. SELF-REGULATING GRAVITY DISCHARGE TERMINAL. JOSEPH J. STOETZEL, New York, N. Y., assignor to G. & G. Atlas Systems, Inc., a Corporation of New York. Filed May 23, 1924. Serial No. 715,300. 2 Claims. (Cl. 243—23.)



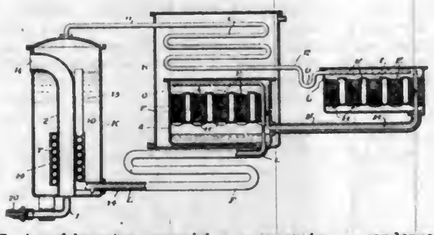
1. In a carrier delivery device for pneumatic dispatch systems, a transit tube, an exhaust tube having its receiving end portion mounted in adjacent and parallel relation to the delivery end portion of the transit tube, a cross-tube connection between the end of the exhaust tube and a point in the transit tube spaced from the end thereof, a gate hinged to the delivery end of the transit tube, a hinged connection of the gate with the tube being located at the edge of the transit tube remote from the exhaust tube, the hinged end of the gate being extended and provided with a weight normally tending to close the gate, said exhaust tube being provided with an air inlet port adjacent the delivery end of the transit tube, said gate member being extended at its free end to close the inlet port in the exhaust tube when in closing relation to the end of the transit tube.

1,666,759. HOT TOP. ERNEST J. TURNER, Pittsburgh, Pa. Filed Mar. 2, 1926. Serial No. 91,782. 5 Claims. (Cl. 22—147.)



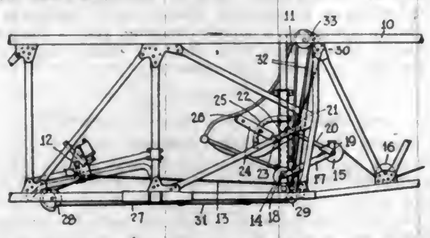
1. As an article of manufacture, a hollow hot top having continuous sides with supporting means on some of its sides terminating above its lower edge, one of its sides being free of supporting means to permit two such hot tops to be placed in a mold with their adjacent sides in contact with each other.

1,666,760. REFRIGERATOR. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Aug. 4, 1923, Serial No. 655,768. Divided and this application filed Apr. 1, 1926. Serial No. 98,951. 9 Claims. (Cl. 62—119.)



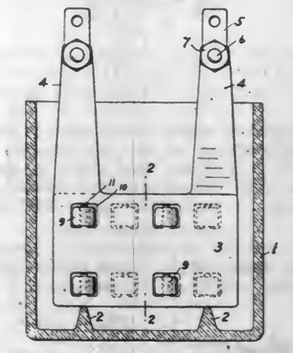
7. A refrigerator comprising a generator, a condenser, an evaporator, an absorber, a gas burner, a liquid containing member, means to connect the upper part of said member with the upper part of the generator, means to connect said member with the absorber, a conduit connecting the generator and the absorber independently of said member, said member being so arranged with respect to the generator and the burner that there is direct transmission of heat through metal from the burner gases to liquid within said member.

1,666,761. COMBINATION SEAT AND CONTROL MECHANISM FOR AIRCRAFT. WILLIAM WAIT, Jr., Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc., a Corporation of New York. Filed Apr. 7, 1927. Serial No. 181,745. 12 Claims. (Cl. 244—29.)



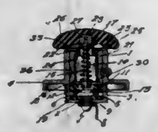
10. The combination, in an aeroplane, of a vertically adjustable seat, a control surface operating device adjustable toward and away from said seat, a connection extending between said seat and said device whereby the adjustment of the one is made responsive to the adjustment of the other, and means associated with said connection for adjusting said device relatively to said seat without a corresponding adjustment of the latter.

1,666,762. SEPARATOR FOR THE ELECTRODES OF ELECTROLYTIC CELLS. JOSEPH LESTER WOODBRIDGE, Philadelphia, Pa. Filed July 12, 1927. Serial No. 205,103. 5 Claims. (Cl. 136—151.)



1. In combination, an electrode in the form of a metallic sheet, a separator of annular form located in an opening provided in the sheet with its axis substantially in the plane of the sheet, and a tongue attached to the sheet and threading the opening in the separator.

1,666,763. SWITCH. GEORGE A. YANOCHOWSKI, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1924. Serial No. 716,903. 13 Claims. (Cl. 200—159.)

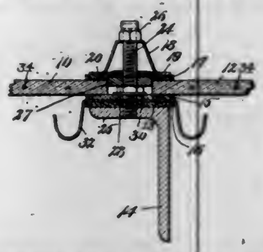


1. A device of the class described including a casing, a fixed contact element secured in said casing but insulated therefrom, an inverted cup-shaped member secured in said casing, a movable contact element supported in said cup-shaped member in operative association with said fixed contact element, a control member adapted to move said movable contact when pressure is applied thereto, means provided with a flange for fulcruming said means in said cup-shaped member for effecting rectilinear movement always in the same path of said movable contact element should said control member be either tilted or moved perpendicularly when pressure is applied thereto to cause the same to contact with said fixed contact element to close a circuit through said device, and means comprising a coiled spring adapted to maintain said movable contact in association with said flanged means.

1,666,764. GLAZING CONSTRUCTION. JAMES HOWARD YOUNG, Pittsburgh, and WESLEY H. MILLER, Wilkinsburg, Pa., assignors to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 24, 1924. Serial No. 739,643. 5 Claims. (Cl. 108—16.)

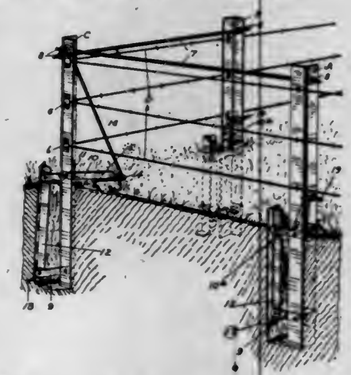
1. In a glazing construction, in combination, a supporting member, a stud erected thereon, a gutter member fitted upon said stud, an insulating member interposed between said gutter member and said supporting member, a waterproof cushioning member upon said gutter member,

glass members resting on said cushioning member and spaced apart, a cap member mounted on said stud, a cushion member between said cap member and said glass members and covering the space between the latter, means on said stud for pressing said cap member toward



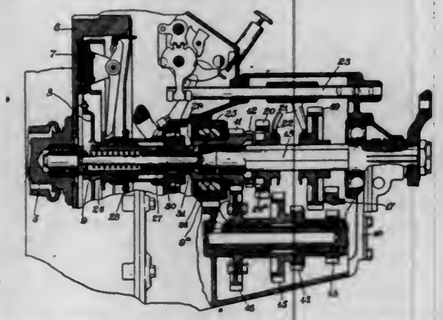
said glass members, means on said stud cooperating with the cushioning member for the glass members to form a fluid tight joint with said stud, and a member on said stud in the space between said glass members to be engaged thereby for spacing said glass members.

1,666,765. FENCE CONSTRUCTION. FREDERICK A. ZIEBARTH, Delano, Minn. Filed Mar. 5, 1927. Serial No. 173,169. 6 Claims. (Cl. 189—31.)



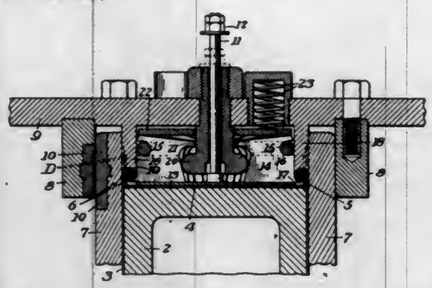
1. In combination with a fence post, an anchor plate arranged substantially parallel with the lower end of the post and connected therewith by links, and lever acting means for forcibly spreading the anchor plate away from the post.

1,666,766. SPEED EQUALIZING MEANS FOR MOTOR-VEHICLE TRANSMISSION SHAFTS. JAMES S. ALSPAUGH, Columbus, Ohio. Filed Dec. 5, 1925. Serial No. 73,486. 7 Claims. (Cl. 74—58.)



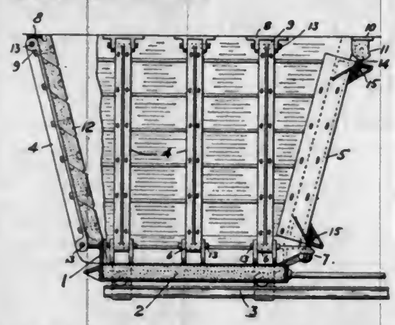
1. In means of the kind described, the combination of a power shaft, a clutch shaft, a speed changing gear shift mechanism of the sliding type including a sliding gear shaft and a clutching means between the sliding gear shaft and the clutch shaft in slipping relation to both shafts.

1,666,767. METHOD AND APPARATUS FOR MAKING FIBROUS CONTAINERS. JAMES E. ANNEN, Milwaukee, Wis., assignor to The National Paper Can Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 17, 1926. Serial No. 123,049. 9 Claims. (Cl. 93—55.)



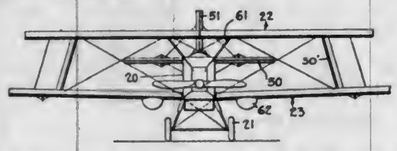
1. Apparatus for making fibrous containers including means for curling together the edge portions of adjacent container parts, a collapsible guide adapted to lie between the roll of the joint and container proper and direct the edges into the roll, and means for collapsing the guide.

1,666,768. ASH HOPPER FOR BOILERS. ROBERT H. BEAUMONT, Radnor, Pa., assignor to Beaumont Manufacturing Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Jan. 2, 1924. Serial No. 683,859. 5 Claims. (Cl. 110—165.)



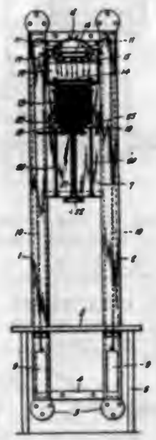
2. An ash hopper and gate structure comprising in combination a gate frame, cast iron hangers having hinged articulation with the gate frame, suspension supports having hinged articulation with the hangers, and a lining carried by the hangers.

1,666,769. AIRPLANE. REX B. BEISEL, Garden City, and WILLIAM L. GILMORE, Mineola, N. Y., assignors to Curtiss Aeroplane & Motor Company, Inc., a Corporation of New York. Filed Mar. 24, 1924. Serial No. 701,338. 9 Claims. (Cl. 244—12.)



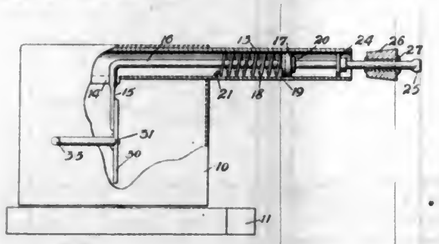
1. In an airplane, superposed supporting surfaces, each said supporting surface comprising a like number of panel sections, and each corresponding panel section being the same in surface shape and in dimensions whereby an interchange thereof will in no way alter the design of the airplane considered as a whole.

1,666,770. CAMERA-HOLDING STAND. WILLIAM BUBEN, St. Louis, Mo. Filed Jan. 21, 1927. Serial No. 162,519. 1 Claim. (Cl. 88—24.)



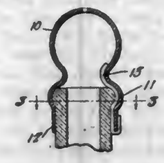
A device of the class described comprising an upright supporting frame including a pair of channel-shaped uprights, each having a guideway formed in its inner face, a supporting member vertically movable in the guideways, a pair of counter-balancing weights movable in the channels of said uprights, cables connecting the same with the supporting member, a casing carried by the supporting member, an enlarging and reducing camera associated with the casing, lamps in the casing, guiding rods carried by the supporting member, arms connected with the front of the camera and having parts engaging the guiding rods, a screw shaft carried by the supporting member, a handle on the shaft, a nut member engaging the shaft and connected with the front of the camera and a handle on the supporting member.

1,666,771. TOY GUN. JOSEPH H. BUHRIS, Ruffs Dale, Pa. Filed May 12, 1926. Serial No. 108,617. 3 Claims. (Cl. 46—46.)



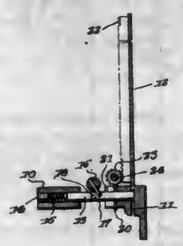
1. In a device of the class described, a barrel, a plunger therein, a stem for the plunger alined with the axis of the barrel, a barrel closing element slidable on the stem, a spring for compression by the plunger when retracted and when the closing element engages the barrel, and a device on the stem of the plunger for striking and releasing the barrel closing element when the spring held plunger is released.

1,666,772. NIPPLE. THOMAS CAMPOBASSO and GERARD CAMPOBASSO, Barre, Vt. Filed Apr. 18, 1927. Serial No. 184,742. 1 Claim. (Cl. 128—252.)



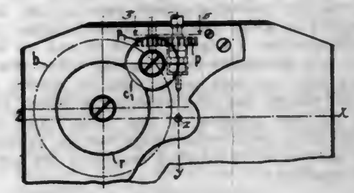
An attachment for use upon nipples comprising a strip, said strip being adapted to conform to the configuration of the attaching portion of the nipple when applied and to slightly space the adjacent portion of the nipple from a bottle neck to relieve suction, and the outer end of the strip being bent upon itself to receive the peripheral edges of the nipple and adapted to lie flush with the outer side thereof to provide a convenient gripping portion when applied and removing the nipple.

1,666,773. WINDOW SHIELD. WALTER B. CLARK, Lincoln Park, Mich., assignor of one-half to I. D. Lawrence, Detroit, Mich. Filed June 30, 1927. Serial No. 202,588. 10 Claims. (Cl. 20—1.01.)



1. In a device of the character described, a vertically movable shield adapted to be normally positioned above a window opening, releasable means for retaining said shield in normal position, means for releasing said retaining means whereby said shield will move by gravity to close the window opening, a driven shaft and means operable by said shaft for elevating said shield from closed to normal position.

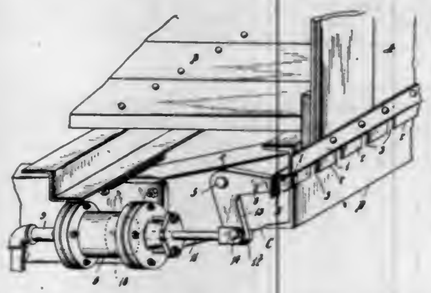
1,666,774. STEM WINDING MECHANISM FOR WATCHES. HENRI COLOMB, Tavannes, Switzerland. Filed Aug. 11, 1924, Serial No. 731,537, and in Switzerland Aug. 24, 1923. 2 Claims. (Cl. 58—59.)



1. In an oblong watch movement adapted to have the mechanism for supporting the hands located at the center thereof, a stem-winding and setting apparatus comprising a bottom plate coextensive with the movement, a bridge covering one end of the plate and extending past its shorter middle axis, a winding and setting stem the

axis of which coincides with the minor axis of said movement, a mainspring journalled between said bridge and plate, and a ratchet wheel on the outside of the bridge concentric with said spring for winding up said mainspring, the combination, with said above described apparatus, of a train of gearing from said stem-winding apparatus to said ratchet wheel comprising two gear wheels of relatively small diameter, at least one of which is outside the bridge and overlaps said barrel and both supported from said bridge; whereby said mainspring may be located in one end of said oblong movement and given a large diameter without touching the bearing stone or axis of said hand-supporting mechanism.

1,666,775. FLUID-PRESSURE LOCKING MEANS FOR CAR DOORS. MILTON A. CRAIG, RAPHA P. STEEN, and SANFORD A. LOGSDON, Lima, Ohio. Filed Mar. 10, 1927. Serial No. 174,372. 1 Claim. (Cl. 105—395.)



A device of the nature stated, comprising a plate adapted to be secured to a car door and having a depending notched flange, a latch member suitably pivoted and having angularly related arms, one of said arms adapted to engage in a notch in said flange, a fluid pressure cylinder, a piston in said cylinder, and a piston rod connected with said piston and operatively engaging the other arm of said latch member.

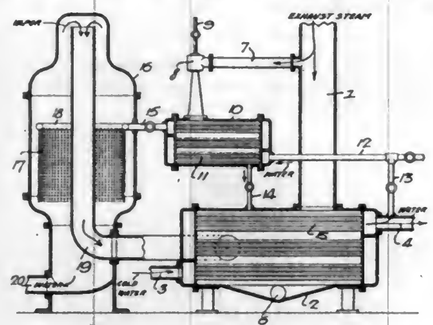
1,666,776. KEY HOLDER. BENJAMIN F. COPP, Albuquerque, N. Mex. Filed Feb. 28, 1927. Serial No. 171,617. 1 Claim. (Cl. 59—97.)



A key holder formed in a single piece of resilient material bent to provide side members and a connecting web constituting the back of a holder and constituting key retaining means, there being slots beyond the ends of the web, key engaging means upon one of the side members and normally yieldingly pressed against the opposed side member, a clip connected to one of the side members and detachably engaging the other side member, said clip and web cooperating to confine a key within the holder, the clip constituting means for preventing the side members of the holder from moving apart, the slots constituting means for the reception of the eye portion of an engaged key when the key is in confined position.

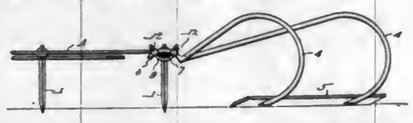
1,666,777. METHOD OF AND APPARATUS FOR EVAPORATING AND DISTILLING. JOHN S. FORBES, Philadelphia, Pa. Filed July 26, 1921. Serial No. 487,604. 8 Claims. (Cl. 203—5.)

2. The method which consists in continuously separating a current of exhaust steam into two portions of which one is condensed by cooling water; heating the second portion of such steam and utilizing the heated steam to increase the temperature of a portion of the



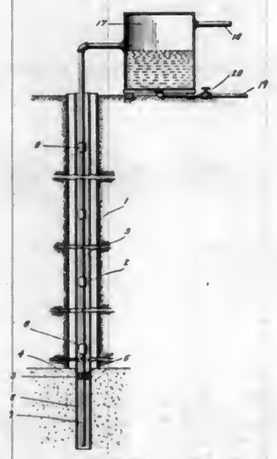
water used to condense the first portion of such steam; vaporizing the water so heated; and condensing the vaporized water.

1,666,778. HARROW ATTACHMENT. JAMES M. HARLAN, Dayton, Wash. Filed Jan. 25, 1927. Serial No. 163,473. 2 Claims. (Cl. 55—3.)



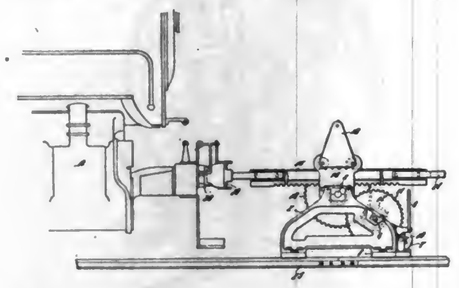
2. An attachment for harrows, including a pair of goosenecks, a bar connecting the goosenecks at their rear ends, the forward ends of said goosenecks curved in the arc of a circle and adapted to be located over a bar of the harrow, and coupling devices extending under the bar of the harrow and engaging the curved portions of the goosenecks at the front and rear of the bar.

1,666,779. METHOD OF FLOWING GAS WELLS. GEORGE C. HENCEROTH, Independence, Kans. Filed Oct. 28, 1922. Serial No. 597,559. 2 Claims. (Cl. 166—2.)



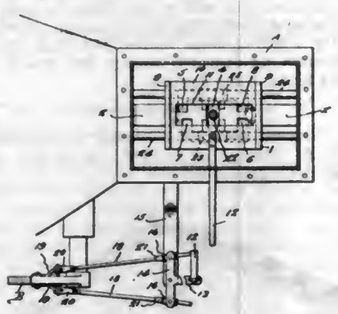
1. The method of flowing gas wells consisting of admitting gas and liquid to a tube at the bottom of a well whereby the liquid is elevated in the tube by pressure of the gas, trapping the gas and liquid at stepped elevations in the tube to form a broken column of the fluid with each trapped section of the column back-checked from the next lower section, and recurrently admitting charges of gas and water to the bottom of the tube under surge pressure of the gas, the incoming gas and the trapped gas combining at the successive elevations to step the column of fluid to delivery at the top of the tube.

1,666,780. LOCOMOTIVE MOVER. JAMES B. IRWIN, Denver, Colo. Filed Aug. 26, 1927. Serial No. 215,734. 8 Claims. (Cl. 104—162.)



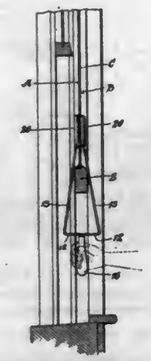
1. A device of the class described comprising a supporting frame, means for clamping the same in position, a rack bar slidably supported by the frame, a shaft rotatably mounted in the frame, a rack engaging wheel thereon and engaging the bar, a motor on the frame, means for rotating the shaft from the motor and means for connecting the rack bar to an object to be moved.

1,666,781. TRANSMISSION. WALTER I. KASER, Baltic, Ohio, assignor of one-third to Thomas G. MacPherson and one-third to Warner E. Farver, Baltic, Ohio. Filed May 23, 1927. Serial No. 193,582. 2 Claims. (Cl. 74—83.)



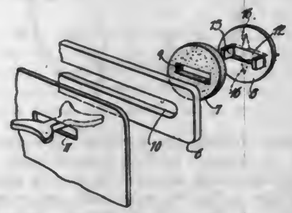
1. In combination with the transmission and clutch means of a motor vehicle, a member arranged in the transmission housing and having an opening therein through which the lower end of the shift lever passes, means for dividing the opening into neutral, low speed, second speed, high speed and reverse speed spaces, a plate slidably connected with the first plate and having an elongated opening therein through which the lower part of the shift lever passes so that the second plate will be moved by the shift lever when the same is shifted to its various positions and means for connecting the second plate with the clutch pedal to actuate the pedal by the movement of the plate.

1,666,782. WINDOW CLEANER. JOHN J. KILBRIDE, Scotch Plains, N. J. Filed Oct. 22, 1927. Serial No. 227,926. 3 Claims. (Cl. 15—220.)



1. In a window cleaning device, a member for supporting and holding a pair of strips of cleaning material in juxtaposition to the inner and outer surfaces of a window pane for simultaneous wiping movement over said surfaces, comprising a single length of material bent and formed to provide an integral stem and a pair of offset arms having integral rectangular parallel frames at the terminals thereof over which the strips of material are arranged, one lead of each terminal arm being in engagement with the offset arm for clamping the material in place.

1,666,783. LOCKING DEVICE. JOHN KRIES, Brooklyn, N. Y. Filed Apr. 28, 1927. Serial No. 187,383. 2 Claims. (Cl. 40—125.)

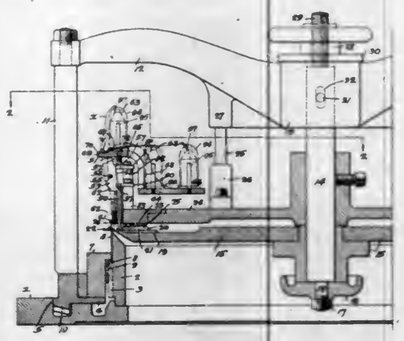


1. The combination with a plurality of members having openings therein and arranged to be secured together, of a locking device comprising a locking member, a locking washer, tongues on the washer arranged to enter the opening in one of the members to be secured and a resilient pad interposed between said member and said washer whereby the locking member will be resiliently maintained in its locking position.

1,666,784. VERTICAL STRIPER FOR WIDE-CIRCULAR-RIB-KNITTING MACHINES. WALTER LARKIN, Norristown, Pa., assignor to Fidelity Machine Company, Wilmington, Del., a Corporation of Delaware. Filed May 28, 1927. Serial No. 194,956. 13 Claims. (Cl. 66—135.)

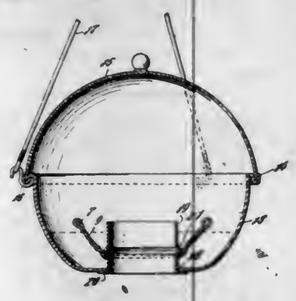
1. In combination with a wide circular rib knitting machine having a needle cylinder and needles operatively mounted therein, a needle dial and needles operatively mounted therein, a cylinder cam ring for operating the cylinder needles, and a dial cap having cams for operating the dial needles; a cylindrical plaiting finger carrier coaxially aligned with said needle cylinder;

means for rigidly securing said carrier to said needle dial; plaiting fingers pivotally mounted in said carrier and aligned with certain of said cylinder needles, and



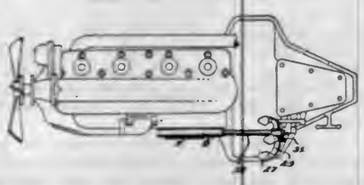
means for moving one end of each finger around the needle with which it is aligned, for carrying a plaiting thread around said needle.

1,666,785. FLYCATCHER. CARL MARCH, Chicago, Ill. Filed Apr. 9, 1927. Serial No. 182,457. 2 Claims. (Cl. 43—122.)



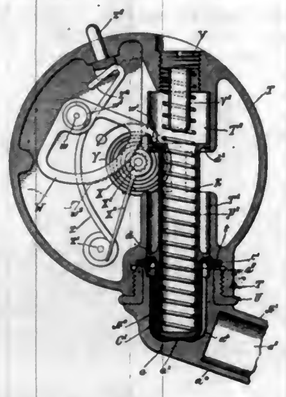
1. An insect trap of the character described comprising a body, a channel portion formed with the upper edge thereof and being disposed in spaced relation from the body proper, a top for said body and being received in the channel of the channel portion, hooked members reecived in the space between the channel portion and body insect entrance means arranged in the bottom of said body and flexible elements secured to the hook members for supporting the trap in depending position.

1,666,786. LOCK. OTTO ADOLPH MAY, Albuquerque, N. Mex. Filed Sept. 12, 1927. Serial No. 219,140. 5 Claims. (Cl. 70—126.)



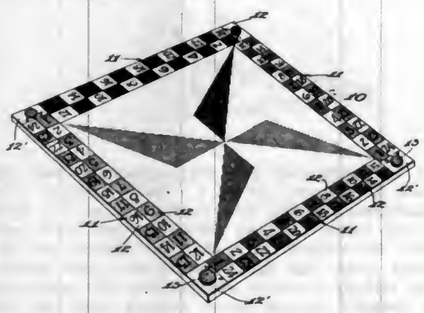
2. In an automobile lever lock, a bracket for attachment to part of an automobile engine casing, a casing attached to the bracket and adjustable about a horizontal axis, a locking rod carried by the casing and longitudinally adjustable therefrom, and a U-shaped shackle carried by the locking rod for engagement with the control levers of the automobile to lock the former in set position.

1,666,787. PNEUMATIC-PRESSURE GAUGE. ANDRÉ JULES MICHELIN, Paris, France, assignor to Michelin et Cie., Clermont-Ferrand, France, a Corporation of France. Filed Mar. 3, 1927, Serial No. 172,365, and in Belgium Mar. 5, 1926. 2 Claims. (Cl. 73—111.)



1. A pressure gauge comprising a pressure chamber provided with an air duct opening into said chamber, a piston slidable freely in said chamber, a soft rubber sack loosely fitting said piston, and having its outer edges secured to said chamber, the said sack forming a flexible air tight closure for the open end of said chamber, a balance spring opposing the outward movement of said piston against the pressure of said chamber, said spring having one end bearing on said piston, and the other end bearing on said casing, means for adjusting the compression of said spring, a shaft journalled in said casing with its axis at right angles to the axis of said piston, an indicator needle mounted on said shaft, a coil spring engaging said shaft and normally returning said needle to the zero position, and means controlled by said piston for rotating said shaft against the action of said coil spring, with a spring brake normally holding said shaft against rotation by said coil spring, and means for releasing said brake, when desired.

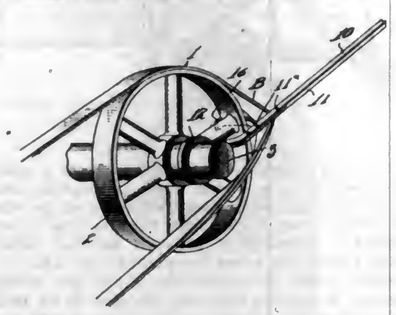
1,666,788. GAME DEVICE. JOSEPH J. PALUMBO, Astoria, N. Y. Filed June 4, 1927. Serial No. 196,501. 3 Claims. (Cl. 273—134.)



1. A game device comprising a game board having angular straight side edges, a course provided on the top of said game board along each side edge, a game piece movable over said course from a starting point to a finish

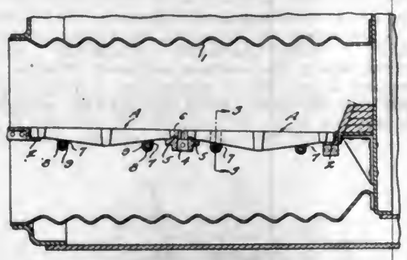
point, a pair of dice adapted to be rolled by the respective players, the lowest amount face up on one die being subtracted from the highest amount face up on the other to determine the distance which the game piece must be advanced, and a third die of a distinguishing color from said pair of dice and adapted to be rolled therewith, the amount face up being indicative of the distance which the game piece of the preceding player must retreat.

1,666,789. BELT-APPLYING TOOL. GEORGE W. POSANZ, Geneseo, Ill. Filed Feb. 21, 1927. Serial No. 170,026. 4 Claims. (Cl. 64—51.)



1. A tool of the class described comprising a lever having pulley shaft engaging means and a finger to engage a lug on said shaft, and an arm pivoted to said lever and having a rim engaging finger.

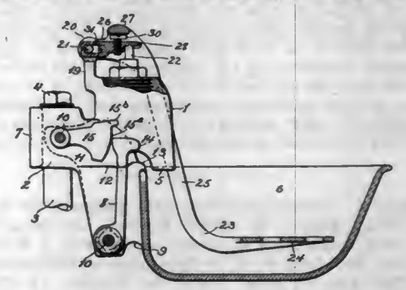
1,666,790. GRATE. JOHN H. PRIVOTT and BILL C. WILLIAMS, Norfolk, Va. Filed Oct. 7, 1927. Serial No. 224,654. 1 Claim. (Cl. 126—152.)



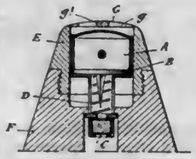
A grate of the class described comprising front and rear supporting members, grate bars having their ends resting upon said members, the bars at the sides of the grate having depending perforated ears, rods passing under the grate bars intermediate their ends with the ends of the rods passing through the perforations in the ears and means on the ends of the rods for holding the rods in place, the intermediate grate bars resting freely on the rods to permit expansion and contraction of the parts.

1,666,791. WATER-BOWL CONSTRUCTION FOR CATTLE. HUGO C. RASSMANN, Beaver Dam, Wis., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Filed Feb. 14, 1927. Serial No. 168,218. 4 Claims. (Cl. 119—75.)

4. The combination with a valved fount and a bowl to be supported thereby, of a bifurcated bracket projecting upwardly from the fount, an animal operated lever having a part to be disposed in the bowl, arms on the upper portion of said lever, a cross bar intermediate of the arms on the lever, a pivot bolt passing through the bifurcated arm on the fount, and a member mounted on said pivot bolt and disposed between the stem of the valve of the valved fount and the cross bar of the animal operated lever, said member having an enlarged opening for the passage of the pivot bolt, whereby said member may be shifted out of operative relation to the valve stem.

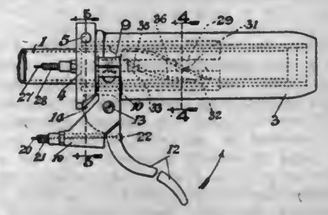


1,666,792. PERCUSSION FUSE. LÉON EMILE RÉMONDY, Paris, France. Filed July 5, 1927, Serial No. 203,612, and in France Oct. 8, 1926. 1 Claim. (Cl. 102—36.)



A protecting device preventing the accidental operation of sensitive percussion fuses operating by driving it or by driving in and inertia upon impact with obstacles accidentally encountered near the muzzle of the gun or along the path of the projectile, such as branches or other screens serving to conceal the gun, the stems of cereal crops, the branches of shrubs, etc. consisting in a perforated cap or closing disc (G) integral with the fuse body or mounted upon the latter, the orifices (g) formed in this cap permitting the free peneration of soft or fluid materials (ooze, soft earth, sand, water, etc.) while preventing the engagement of light or flexible branches and twigs which are struck transversely, the strength of the solid parts (g^1) between the orifices (g) of the cap being on the other hand sufficiently weak for the deformation or rupture of the end of the cap or of the closing disc to be effected upon impact with an obstacle offering some resistance.

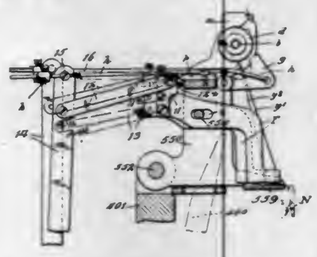
1,666,793. CONTROLLING MEANS OF VARIABLE-SPEED GEARING FOR MOTOR VEHICLES HAVING HANDLEBARS. ADOLPHUS SANGUINETI, Stockport, England. Filed Dec. 29, 1927, Serial No. 243,411, and in Great Britain Sept. 10, 1926. 5 Claims. (Cl. 74—82.)



1. A controlling means for non-continuous variable speed gearing of motor vehicles having handle bars and a drive transmission clutch, comprising a turnable handle

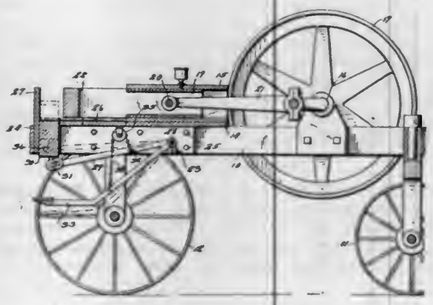
provided on the handle bar, an oscillatable transmission clutch lever mounted on the said handle, relatively stationary stop means mounted on the handle bar and adapted to co-operate with the transmission clutch lever to lock the handle against rotation when the transmission clutch lever is in its normal position, a pair of tractive members connected to the selector rod or its equivalent of the gear box to operate the selector rod or its equivalent in both directions, and means for simultaneously moving the said members in opposite directions by a turning movement of the said handle.

1,666,794. APPARATUS FOR AND METHOD OF KNITTING. ROBERT W. SCOTT, Babylon, and ALBERT E. PAGE, Brooklyn, N. Y., assignors to Scott & Williams Inc., New York, N. Y., a Corporation of Massachusetts. Filed Aug. 29, 1924. Serial No. 734,888. 11 Claims. (Cl. 66—137.)



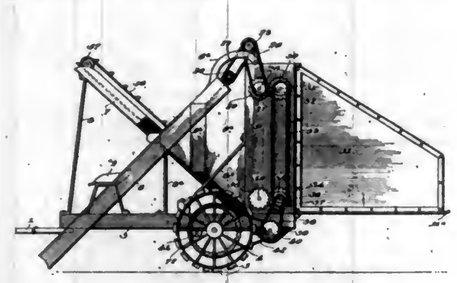
1. In a knitting machine, plating reversing mechanism comprising a plurality of yarn fingers adapted to separate their yarns in a horizontal plane by reciprocation toward and from the needles, in combination with a throatplate over which the horizontally separate yarns pass to the needles, said throatplate being adapted to give the yarns different elevations as they approach the needles.

1,666,795. FIREWOOD-SPLITTING MACHINE. WILLIAM R. SCHMIDT, Beemer, Nebr. Filed May 17, 1927. Serial No. 192,094. 5 Claims. (Cl. 144—193.)



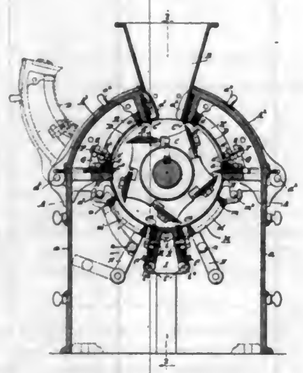
1. A machine for splitting wood comprising a supporting frame, a longitudinally extending tubular guide housing mounted upon the frame, a slide fitting said guide housing and reciprocating therein and carrying an axe, a crank shaft mounted upon the supporting frame and operatively connected to said slide, a pair of heavy and relatively large fly wheels mounted upon the shaft, a pulley mounted upon the shaft, a belt engaging the pulley whereby power may be transmitted to the shaft, a frame adjustable upon the main frame longitudinally thereof and carrying a back stop, and a supporting platform mounted upon said last named frame in front of the back stop.

1,666,796. CORN-HUSKING MACHINE. HARRY V. SHULER, Spencer, Nebr. Filed Apr. 25, 1927. Serial No. 186,436. 10 Claims. (Cl. 56—104.)



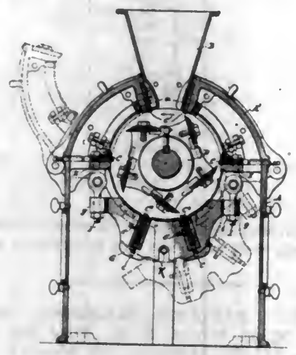
1. In a corn stripping and husking machine, a wheeled vehicle adapted to be drawn along by traction means, power transmitting means connected to one of the wheels of the vehicle, means for stripping the ears from the stalk comprising a plurality of pairs of inclined inwardly revolving rollers and means for guiding the stalks to the said rollers, means for guiding the ears to the trough of a conveyor, means for conveying the ears up an incline, means attached to said conveyor trough comprising jagged sets of teeth and means for holding them, for stripping the husks from the ears during their passage up the incline of the conveyor, means for separating the ears and loose husks comprising a plurality of pairs of rollers and means for moving the ears across the longer dimension of said rollers and means comprising a baffle plate and a conveyor for sorting respectively the loose husks and the ears into separate storage receptacles, each of the said means requiring power, being actuated from the power-transmitting means connected to the wheel of the vehicle.

1,666,797. GRAIN-CRACKING MACHINE. SIMON SNYDER, Muncy, Pa., assignor to Sprout, Waldron and Company, Muncy, Pa., a Corporation of Pennsylvania. Filed Aug. 10, 1927. Serial No. 212,126. 9 Claims. (Cl. 83—6.)



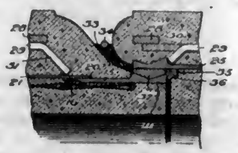
1. A grain cracking or reducing machine comprising a casing containing rotary knives and stationary knives spaced apart around the rotary knives and a superposed feed hopper; said casing comprising a lower member having mounted thereon upper members of segmental form each having its lower end hinged to the lower member and having secured on the inner side thereof a perforated plate or screen spaced from its inner wall so as to provide an arcuate space for receiving granulated material; such material being caused to descend by gravity into the lower part of the casing.

1,666,798. GRAIN-CRACKING MACHINE. DANIEL B. TAGGART, Muncy, Pa., assignor to Sprout, Waldron and Company, Muncy, Pa., a Corporation of Pennsylvania. Filed Aug. 10, 1927. Serial No. 212,127. 6 Claims. (Cl. 83—6.)



1. The combination, in a machine of the character described, of a casing having a shaft revolubly mounted therein carrying rotary knives, stationary knives projecting inwardly from the casing into operative relation to the rotary knives, a stationary knife or knives supported below said rotary knives, and a screen encircling the rotary knives and spaced from the casing above and below said shaft so as to provide a suitable space around the knives into which material may be thrown and caused to pass by gravity into the lower part of the casing.

1,666,799. REENFORCED CONCRETE PIPE. JEFFERSON D. TRAMMELL, Fort Worth, Tex. Filed Apr. 25, 1927. Serial No. 186,319. 7 Claims. (Cl. 72—53.)

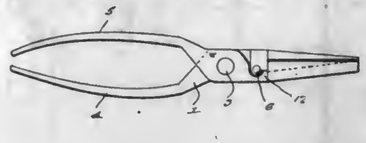


1. A rolled steel ring for pipe joints having one cylindrical smooth face and on an opposite face two annular projecting ribs forming a marginal re-entrant groove, and a marginal thinner section.

1,666,800. PROCESS OF SEPARATING HAFNIUM AND ZIRCONIUM. ANTON EDUARD VAN ARKEL and JAN HENDRIK DE BOER, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed Nov. 11, 1924, Serial No. 749,332, and in the Netherlands Dec. 12, 1923. 6 Claims. (Cl. 23—23.)

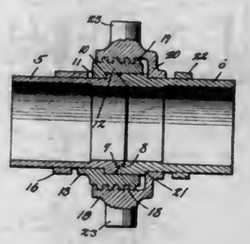
1. The process of separating compounds of hafnium and zirconium, characterized by starting from the solution of the complex compounds that can be prepared by adding in an acid medium fluorine ions and cations corresponding to the cations of the desired complex compounds to a mixture of hafnium and zirconium salts, which can be derived from the at least trivalent oxides of the elements the atomic number of which is 18n—3 if n is a whole number and at most 8, and that the solution of said complex compounds is submitted to fractional separation.

1,666,801. WIRE-BENDING PLIERS. ERNEST BERTON VARNEY, Pueblo, Colo. Filed Jan. 25, 1927. Serial No. 163,896. 1 Claim. (Cl. 140—106.)



A pair of wire bending pliers comprising side by side portions pivotally connected together and having handles at their rear ends, jaws carried at the forward ends of the said side-by-side portions and extending longitudinally therefrom, one of the jaws having a longitudinal depression increased in depth from the forward end of the jaw to the heel end of the jaw, and the other jaw having a longitudinal projection adapted to enter said depression, and one of the side by side portions being also provided with a lateral projection of channel cross section, and the other side-by-side portion equipped with a lateral mandrel arranged to cooperate with the said channeled projection.

1,666,802. DETACHABLE UNION. EMIL VON ALLMEN, Louisville, Ky. Filed June 11, 1924. Serial No. 719,374. 1 Claim. (Cl. 285—122.)

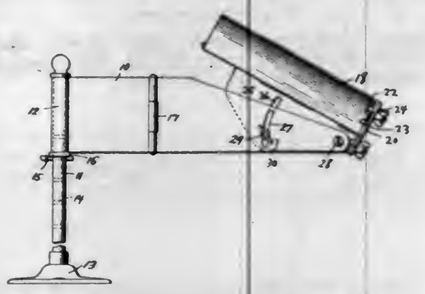


A union including a male section and a female section having external shoulders formed adjacent to the ends thereof, a collar secured to the male section and spaced from the shoulder formed on the male section, said collar having an extension, a threaded collar having a shoulder adapted to engage the shoulder of the male section and having a cut out portion to receive the extension to permit of sliding movement of the second mentioned collar longitudinally of the male section, a ring nut having threads cooperating with the threads of the second mentioned collar and having a shoulder to engage the shoulder of the female section to draw the sections together, and a ring member secured to the female section in spaced relation with the ring nut to permit of rotary movement of the ring nut.

1,666,803. BOOK HOLDER. JOSEPH D. WALKER, Whitesburg, Tenn. Filed Aug. 29, 1925, Serial No. 53,391. Renewed Mar. 5, 1928. 2 Claims. (Cl. 45—60.)

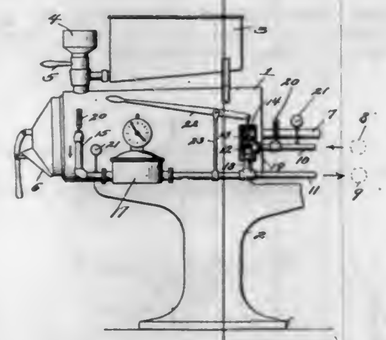
2. A book stand comprising a horizontally disposed arm, means to support the arm, a book holder at the outer end of said arm, said holder comprising a pair of

hingedly connected book supporting plates, an end plate, an adjustable connection between the end plate and each of the supporting plates to permit of pivotal adjustment of the latter, an adjusting plate having one edge con-



nected to the hinge of the book supporting plates and one of its ends connected to the end plate and means adjustably connecting said adjusting plate and horizontal arm to permit the book holder to be adjusted as a unit.

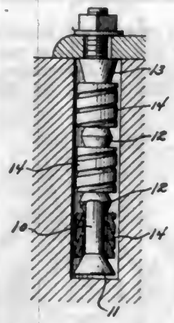
1,666,804. PROCESS FOR FREEZING ICE CREAM. JOSEPH WILLMANN, Derby, Conn. Filed Nov. 22, 1922. Serial No. 602,623. 1 Claim. (Cl. 62—174.)



The method of making ice cream which comprises passing a refrigerant in heat interchanging relationship with a batch of ice cream mixture and concurrently integrating the flow of the refrigerant, interrupting the flow of the refrigerant after a quantity thereof, predetermined according to the composition of the mixture and the temperature of the refrigerant and measured by such integration, has passed in heat interchanging relationship with the mixture, and then whipping the mixture.

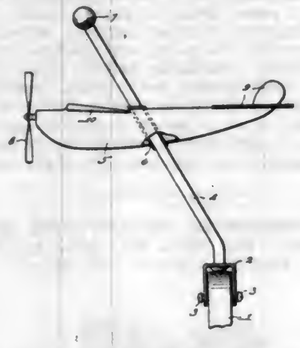
1,666,805. ANCHOR. LEONARD P. WILLIAMS, Newark, N. J. Filed May 3, 1926. Serial No. 106,525. 1 Claim. (Cl. 85—2.4.)

In combination with a bolt having a tapered head upon one end and a nut upon the other, of a frusto-conical shaped member slidably mounted thereon, spiral springs carried by the bolt member between the head and member, said springs having the companion convolutions thereof tapered for overlapping relation, and double frusto-conical shaped members disposed between the adjacent ends of the springs and in conjunction with the tapered head and frusto-conical shaped members being adapted to compress and expand the springs into engagement with the work for the purpose of anchoring the bolt within the work when the same is retracted and to release the



spring compression and allow it to retract from engagement with the work when the bolt is retreated within the nut.

1,666,806. RADIATOR ORNAMENT. NORMAN L. WRIGHT, Mount Vernon, N. Y. Filed Dec. 29, 1926 Serial No. 157,737. 1 Claim. (Cl. 46—14.)

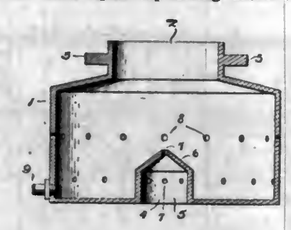


A radiator ornament, including means for attaching same to the radiator cap of an automobile, a forwardly inclined upwardly projecting post angular in cross section secured to said means and held against movement thereby, a movable part simulating in appearance an airplane, the fuselage of which is slidably mounted on the post, said fuselage having an opening therethrough receiving the post and conforming in shape to the angular shape of the post whereby the ornament is held against turning movement thereon and forward movement of the automobile through the medium of the draft created will cause the part to move upwardly and forwardly on the post.

1,666,807. BURNER. HATSUZUCHI YONEHIRO, Honolulu, Territory of Hawaii. Filed Aug. 4, 1926. Serial No. 127,151. 1 Claim. (Cl. 158—91.)

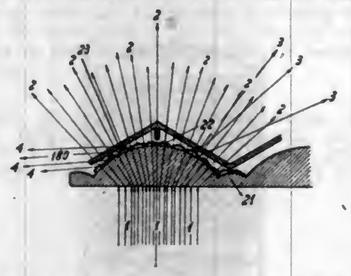
A burner of the character described comprising a cylindrical body of uniform diameter throughout, and including a conical-shaped top having a relatively wide mouth, an annular flange rising from said mouth, pins projecting from diametrically opposite points on said flange, a flat bottom for said body portion having a centrally located opening, a cylindrical wall forming an integral part of

said bottom and rising therefrom within the body portion, said cylindrical wall and body portion being perforated, a conical-shaped top rising from the cylindrical



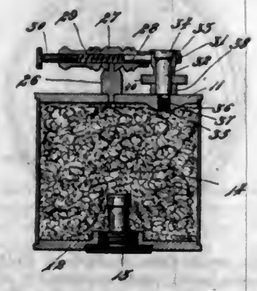
wall and provided with an opening in the apex thereof, and a fuel supply pipe entering said body at a point adjacent the bottom.

1,666,808. DAYLIGHT PROJECTING SCREEN. OSWALD BÜCHNER, Honge, near Zurich, Switzerland. Filed June 16, 1922, Serial No. 568,778, and in Switzerland June 22, 1921. 7 Claims. (Cl. 88—24.)



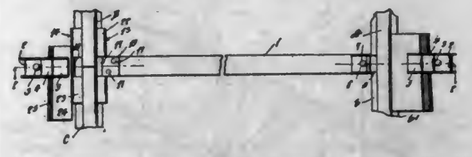
1, A daylight screen comprising a plurality of superposed transparent elements, the outer element being arranged to divert the light rays, and the inner or rear element being arranged to absorb the light, the said outer element having a surface presenting angular local portions which diverge in opposite directions, and said absorbing element having a surface which is presented to said outer element and which surface is made up of localized portions forming collections which are arranged at an angle to the associated angular surfaces of the first named element, each of said members being colored to make the same translucent.

1,666,809. CIGAR LIGHTER. WILLIAM J. BUTLER, Cranston, R. I., assignor to Henry Lederer & Bro., Inc., Providence, R. I., a Corporation of Rhode Island. Filed July 2, 1927. Serial No. 203,227. 6 Claims. (Cl. 67—7.1.)



1. In a pocket lighter, a fuel reservoir, a wick extending therefrom, a pyrophoric tube supported on said reservoir, a friction wheel adjacent the end of said tube, a guard for said wheel supported by said tube, a trunnion on which said wheel is supported extending into said guard, and a separate washer on said trunnion between said wheel and reservoir to space the same therefrom, said trunnion having threaded engagement with said reservoir and removable therefrom to permit removal of said washer and removal of said wheel from beneath said guard.

1,666,810. CROSSTIE. JOSEPH E. CHRISTY and JOHN F. SLOAN, Barton, Ohio. Filed June 30, 1927. Serial No. 202,576. 4 Claims. (Cl. 238—46.)

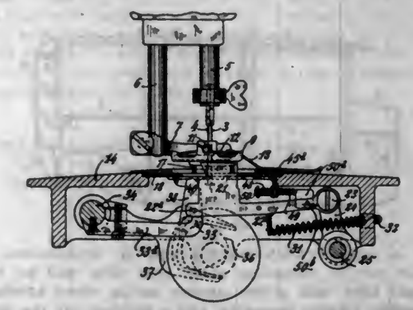


4. Securing means for the meeting ends of railroad rails comprising a clamping member having a base portion, and returned portions on said base spaced from one another to separately engage the adjacent ends of meeting rails.

1,666,811. SEPARATION OF HAFNIUM AND ZIRCONIUM. JAN HENDRIK DE BOER, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed Aug. 10, 1926, Serial No. 128,517, and in the Netherlands Sept. 12, 1925. 6 Claims. (Cl. 23—23.)

1. A process of separating hafnium and zirconium by starting from a solution that can be obtained by bringing a mixture of phosphates of hafnium and zirconium in a medium containing concentrated sulphuric acid, characterized by adding to the said solution at least one other salt of hafnium and zirconium.

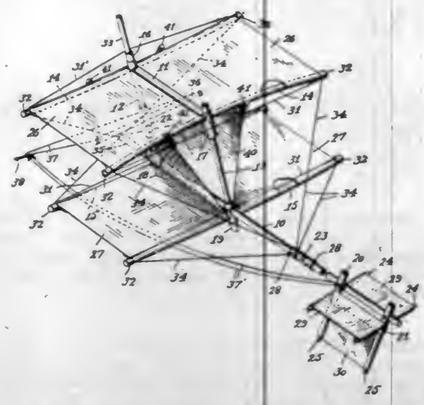
1,666,812. MACHINE FOR DRAWING OUT THE YARN FROM TEXTILE FABRICS FOR THE PRODUCTION OF OPENWORK. JEAN BAPTISTE DURUPT, Jeuxey, near Epinal, France, assignor to Societe Pellaumail-Moutel & Cie., Cholet, France. Filed Mar. 26, 1925, Serial No. 18,459, and in France Oct. 13, 1924. 2 Claims. (Cl. 112—78.)



1. In a machine for drawing out yarn from textile fabric for the production of open work, a stationary frame to receive the fabric, claws having serrated faces to seize the fabric, means for separating the claws and for moving them forward simultaneously to stretch the fabric, means for lowering the stretched fabric onto the frame, a cutting blade for severing threads of the fabric, a toothed blade for engaging the severed threads, means to reciprocate the blades through the fabric, a fixed plate and a movable plate mounted below the fabric frame and

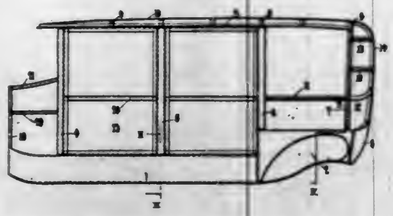
having cooperating flanges formed thereon, and resilient means for actuating the movable plate to bring said flanges into contact with the toothed blade to arrest the threads attached to the latter.

1,666,813. KITE. LAWRENCE R. EDDY, Manasquan, N. J. Filed Sept. 30, 1925. Serial No. 59,533. 8 Claims. (Cl. 244—23.)



1. A kite of the character described, comprising biplanes having transverse supports at their edges, a tail member a main frame embodying a single main stick extending longitudinally and centrally the full length of the kite and having a pair of alined struts extending upwardly therefrom adjacent its front end, and a longitudinally extending brace connecting the upper ends of said struts, a transverse control stick secured to the foremost strut intermediate its length, and metallic coupling members located at the junctions of said transverse supports, struts and longitudinal supporting members.

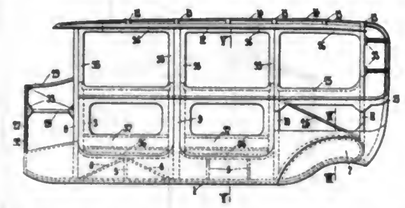
1,666,814. MOTOR VEHICLE. ERIC CECIL GORDON ENGLAND, London, England. Filed Feb. 6, 1926, Serial No. 86,544, and in Great Britain May 14, 1925. 4 Claims. (Cl. 296—28.)



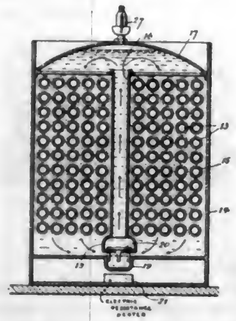
1. A motor vehicle body having in combination, a girder member extending along both sides and an end of said body, said girder member having wheel housings integrally formed therewith, and a skeleton for the body covering incorporated with said girder member.

1,666,815. MOTOR VEHICLE. ERIC CECIL GORDON ENGLAND, London, England. Filed Feb. 6, 1926, Serial No. 86,545, and in Great Britain Feb. 21, 1925. 1 Claim. (Cl. 296—28.)

A motor vehicle having in combination, a built-up hollow timber girder member having a section formed of portions angularly disposed to one another, said girder member having timber flange members and plywood web members extending along both sides and an end of said body, a roof frame, spaced upright members interconnecting said roof frame and said girder member together with a rear skeleton frame interconnecting said roof frame, said upright members and said girder member.

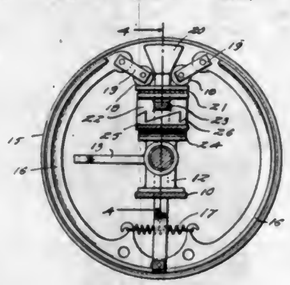


1,666,816. AIR CIRCULATING AND HEATING APPARATUS. PIERRE R. FALK, New York, N. Y. Filed Nov. 22, 1920. Serial No. 150,109. 5 Claims. (Cl. 219—42.)



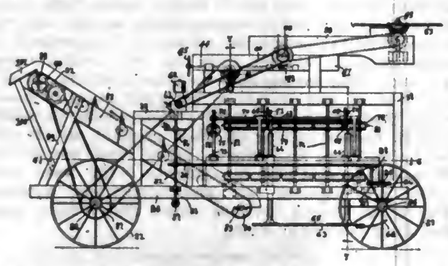
1. An apparatus for circulating and heating air, including a casing having air inlet and outlet ports, means within the casing for drawing in air through the inlet and expelling the same through the outlet ports, and an electrically heated closed water radiator through which the heated water is circulated, having air passages therethrough, mounted in the outlet for radiating the heat to heat the air during its expulsion.

1,666,817. VEHICLE BRAKE. HORACE FEREDAY, Spanish Fork, Utah. Filed July 10, 1924. Serial No. 725,179. 4 Claims. (Cl. 188—194.)



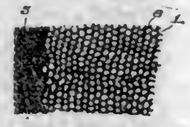
1. In brake mechanism, a post, a collar slidable on said post, means having cam engagement with said collar turnable relatively thereto to thereby effect the sliding movement of the collar, a wedge adjacent said collar, and braking mechanism movable against said wedge by said collar to expand the mechanism.

1,666,818. CANE HARVESTER. JAMES FISHER, New Orleans, La. Filed Sept. 30, 1926. Serial No. 138,735. 7 Claims. (Cl. 56—17.)



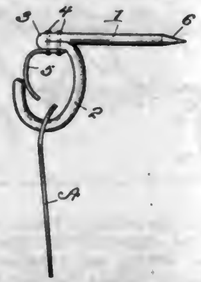
3. A cane harvester comprising a frame having a throat in its forward end, a cane topper adjustably mounted on the frame above the throat, a pair of carriers mounted on the frame at the opposite sides of the throat and converging rearwardly thereof, a pair of cutters suspended in the frame at opposite sides of the throat below said carriers with one cutter extending rearwardly beyond the other and substantially overlapping the rear end of the throat, and a conveyor extending from the rear end of said cutters and carriers for removing the cut stalks.

1,666,819. KNIT SCARF. ALBIN F. GOETZE, Newark, N. J., assignor to Morgan Knitting Mills, Inc., Newark, N. J., a Corporation of New Jersey. Filed Jan. 18, 1927. Serial No. 161,872. 1 Claim. (Cl. 66—171.)



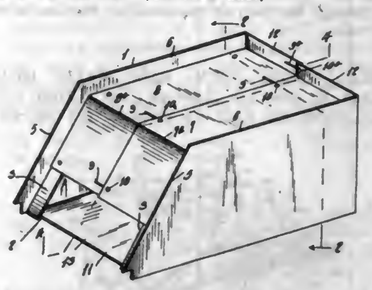
A machine knit scarf, comprising a flat knitted body having a loosely knit center, the loops of which fall over giving to the loops of the center a festooned formation, and having tightly knit edges and ends, said edges and ends normally maintaining said loops of the center in festooned formation, whereby the scarf presents the appearance of being hand knit.

1,666,820. CHECK HOLDER. JAMES W. HENDERSON and GEORGE H. WILSON, Dunmore, Pa. Filed Mar. 28, 1927. Serial No. 179,038. 1 Claim. (Cl. 24—236.)



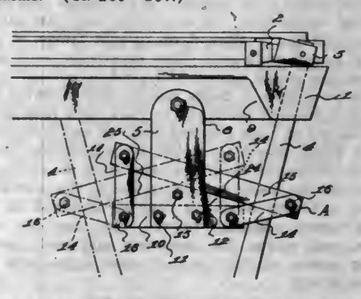
A holding device of the character described comprising a shank adapted to be arranged horizontally on a support, one end of said shank being bent rearwardly in contacting engagement with one side of the shank to provide the shank with a relatively thickened end portion, said bent portion being extended to provide a hook lying directly beneath and in the same plane with the shank, and a curved spring closing the mouth of the hook and having one end riveted to said thickened portion of the shank.

1,666,821. MERCHANDISE-DISPLAY UNIT. FAY HIESTER, Bremen, Ind. Filed Mar. 25, 1926. Serial No. 97,813. 4 Claims. (Cl. 312—118.)



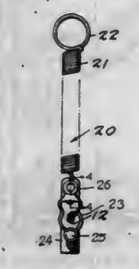
1. A merchandise display unit, comprising a receptacle adapted for installation in a show case to contain merchandise to be dispensed, a tray arranged on the top of the receptacle, a tray arranged on the front of the receptacle and communicating with the top tray, the front tray having an opening communicating with the interior of the receptacle, said trays forming feeders for the receptacle through the opening aforesaid to permit the display of fresh merchandise in said trays and dispensing of the merchandise after display.

1,666,822. PICKER-STICK CHECK. ANDY HINKLE, Atlanta, Ga. Filed Aug. 30, 1926. Serial No. 132,608. 12 Claims. (Cl. 139—167.)



1. A picker stick check for looms including a retaining frame provided with stops between which a picker stick is adapted to oscillate, a plurality of swinging arms carrying said frame, and spring means connected to the frame and adapted to retard the movement of the frame for a portion of its travel and to assist in its movement during the remainder of its travel.

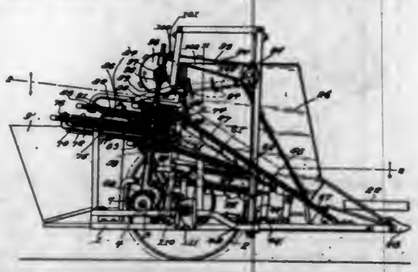
1,666,823. GARTER. DANIEL B. JACOBS, Salt Lake City, Utah. Filed Apr. 19, 1926. Serial No. 103,107. 2 Claims. (Cl. 241—6.)



1. In a garter, a detachable tab therefor comprising a coil spring body having an eye at the lower end thereof, a stocking fastener including a rigid loop, a flexible tab

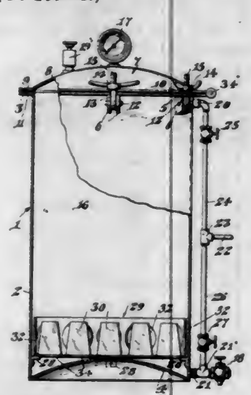
and a stud carried by the lower end of the flexible tab for engagement with the loop, and an eyelet extending through the eye formed on one end of the coil spring body, through the loop of the stocking fastener and said flexible tab.

1,666,824. SHORT-STEM MILO-MAIZE HEADER. WARREN B. JOHNSON, Lubbock, Tex. Filed Feb. 11, 1925. Serial No. 8,527. 5 Claims. (Cl. 56—59.)



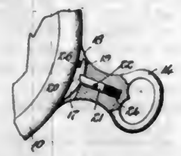
5. A header comprising a frame, an inclined trough with a passage in its bottom and secured to said frame, means for moving stalks rearwardly in the passage, means for severing stalks from the ground, means including cooperating rollers arranged side by side over the trough passage for moving stalks downwardly through said passage incident to rearward movement of the stalks, means for severing heads from the severed stalks, means for engaging stalks after severing of the heads and discharging such stalks from the apparatus, said last mentioned means including a plate fixed to said frame, a pendent portion formed with said plate, superposed rods designed to press the stalks against the pendent portion and having free rear ends, a finger bearing belt mounted to have its fingers movable between the rods, said rods and plate being shaped at their forward portions and cooperating to form a flared mouth, a trough for supporting the heads after the disconnection of the same from the stalks, means for moving the heads on said trough to the discharge end thereof, a blower having a conduit arranged in its discharge orifice adjacent to the discharge end of said trough, and means for operating said stalk and head moving means at the same relative speed and from a common shaft.

1,666,825. STERILIZER. EDWIN D. KING, Jr., Valdosta, Ga. Filed Dec. 4, 1926. Serial No. 152,660. 1 Claim. (Cl. 167—3.)



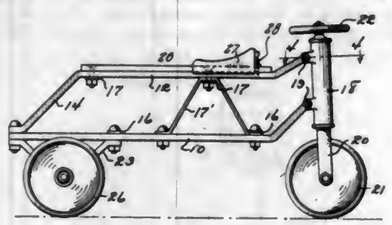
A sterilizing apparatus comprising an open top body portion having a closed convex bottom, supports within said body portion in close proximity to said bottom, a concave lid for said body portion and forming in connection with the latter a sterilizing chamber, means for hinging the lid to the body portion, means coacting with the body portion and lid to form a steam tight joint therebetween, removable means mounted on said supports and adapted to contain the articles to be sterilized, a nipple extended laterally from the body portion below said supporting means and in close proximity to the lower end of said bottom, a vertically disposed steam supply pipe opening into said chamber near its upper end and further opening into said nipple, a cut-off carried by said pipe in proximity to its upper end, a cut-off carried by said pipe in proximity to its lower end, a feed pipe opening into said supply pipe between said cut-offs, and a normally closed outlet valve communicating with said nipple.

1,666,826. EYEGLASSES. ARTHUR LEMAY, Brooklyn, N. Y. Filed May 4, 1925. Serial No. 27,897. 1 Claim. (Cl. 88—44.)



In a pair of eyeglasses, a pair of lens frames, a spring bridge connecting said frames, a handle carried by one of said frames, a lip carried by said handle overlying and spaced from the frame carrying said handle, thereby providing a recess into which a portion of the other frame is receivable, a plate on said last mentioned frame undercut at one end to provide a bill and also having a notch formed therein, a pin extending across said recess and connecting said lip with a portion of the frame carrying said handle serving to prevent said lip from spreading outwardly with respect to the frame carrying same, said bill being engageable with said pin to prevent sliding movement of the frames across one another, and a plunger slidably mounted in said handle engageable with said notch to retain said bill in engagement with said pin.

1,666,827. SCOOTER. KENNETH S. MCFARLAN, Pewee Valley, Ky. Filed Jan. 5, 1927. Serial No. 159,206. 4 Claims. (Cl. 208—165.)



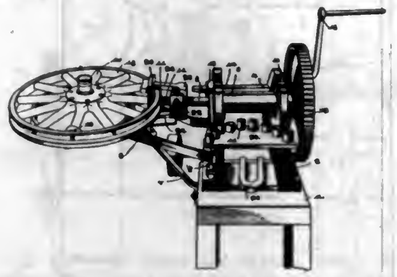
1. A toy vehicle comprising a frame, wheels including a steering wheel for supporting the frame, a horizontally movable knee rest slidably and adjustably supported by the frame and means to hold the knee rest in adjusted position.

1,666,828. MANUFACTURE OF POTTERY OR THE LIKE. JOSEPH WILLIAM MELLOR, Stoke-on-Trent, England. Filed Jan. 14, 1926, Serial No. 81,310, and in Great Britain Mar. 9, 1925. 8 Claims. (Cl. 25—157.)

1. A process for the manufacture of glazed porous bodied tiles of glazed porous bodied electric fittings which consists in forming the body of the usual composition,

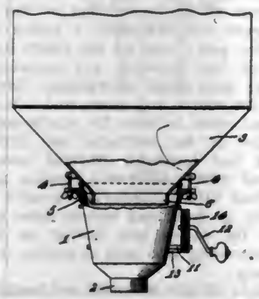
adding thereto a flux which acts at a temperature below that represented by Seger cone 01A (1080° C.) and in quantity not exceeding the equivalent of 3% of the weight of the unfired body, applying to the unfired body a glaze normal for making glazed porous bodied ties or glazed porous bodied electric fittings, and firing the product in a glost kiln.

1,666,829. WHEEL TIGHTENER. JENS OLSON, Lewiston, Idaho. Filed Nov. 23, 1926. Serial No. 150,319. 6 Claims. (Cl. 153—10.)



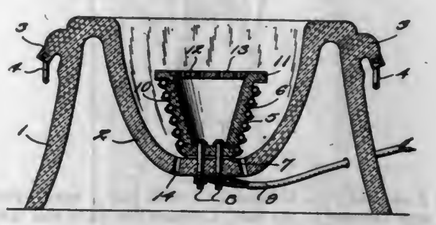
6. A device of the character described comprising a supporting structure including a pair of horizontally spaced vertically edgewise supporting plates, a pair of inclined arms extending from one of said plates, a supporting ring carried by the outer ends of said supporting arms, an inclined brace staying said ring to said supporting structure, said ring being adapted to movably support a spoked wheel when said wheel is disposed flatwise on the ring, tie means loosely connecting a spoke of said wheel with said ring, a shaft journaled in said supporting plates and having an extending end portion terminating close to the outer periphery of the felly of said wheel, an abutment member on said extending end portion of the shaft for contact with the outer periphery of the felly of said wheel, and means supported on said shaft for exerting pressure against the inner periphery of the felly of said wheel at opposite sides of a spoke of the wheel when said shaft is rotated in a certain direction and the abutment member of said shaft is in contact with the outer periphery of the felly of the wheel at the outer end of said spoke.

1,666,830. SIFTER. CLARENCE M. OSTLER, Fort Wayne, Ind., assignor to McCormick Bros. Company, Albany, Ind. Filed Jan. 22, 1923, Serial No. 614,254. Renewed Dec. 2, 1927. 1 Claim. (Cl. 209—275.)



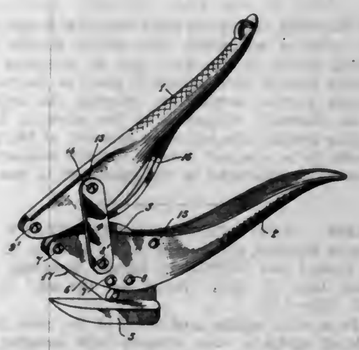
A sifter comprising a casing, semi-circular pieces arranged in opposed relation within the casing and each having one end bent at right angles to the body portion and passed through an opening in the casing to form a pivot point, a vertically disposed arc shaped member having its ends connected midway between the ends of the semi-circular pieces, a fork member formed in the arc member intermediate its ends, a crank shaft extending through the casing and having its crank portion disposed between the tangs of the forked portion, a cup shaped screen member supported by the semi-circular pieces and arc shaped member and manually operated means having connection with the crank shaft for imparting movement to the same whereby in turn to impart a rocking movement to the screen.

1,666,831. ELECTRIC HEATER. CARMELO PANDOLFO, Montevideo, Uruguay. Filed Nov. 3, 1926. Serial No. 146,008. 3 Claims. (Cl. 219—37.)



1. An electric heater of the class described comprising a body having a substantially cylindrical outer part and a bowl-shaped inner part, the two parts being formed integral and of non-conducting material, an inverted truncated cone in the bowl-shaped part and fastened to the bottom of the same, said cone being of hollow construction and formed of non-conducting material, a heating coil connected with the exterior of the cone and a flange at the upper end of the cone for protecting the coil from material dropping into the bowl-shaped part of the body.

1,666,832. HAND-OPERATED SHEARING DEVICE. ALBERT HENRY FRANKS PERL and RICHARD HEMMINGS CARTER, Ladbroke Grove, London, England. Filed Dec. 10, 1923. Serial No. 679,819. 1 Claim. (Cl. 30—3.)



A hand-operated cutting device comprising two operating levers, crossed links pivotally interconnecting said levers to cause the operative ends thereof to diverge during cutting, one of said links extending below one of the levers with its projection having a cutter with its cutting edge projected toward and in spaced relation to the adjacent lever, and a second cutter carried removably by said adjacent lever and having its cutting edge in-

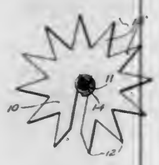
clined downwardly and rearwardly with respect to the lever and of a length to cross the cutting edge of the first mentioned cutter in all relative positions of the levers.

1,666,833. VACUUM TUBE. WILLIAM A. RHODES and DAVID BELLAR, Brooklyn, N. Y. Filed Sept. 3, 1925, Serial No. 54,292. Renewed Feb. 25, 1928. 1 Claim. (Cl. 250—27.5.)



A vacuum tube comprising a bulb and a base, having a high vacuum in the bulb, a filament, a plate and intermediate grid, and an inner grid disposed within the bulb, the inner grid being connected to one end of the filament, said filament fastened in an insulating tube, said insulating tube having an opening adjacent the inner grid.

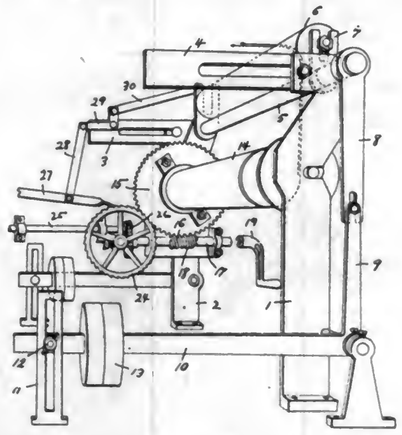
1,666,834. RADIANT-ENERGY COLLECTOR FOR AERIALS. WILLIAM A. RHODES and ABRAHAM BANKOFF, Brooklyn, N. Y. Filed Dec. 23, 1925. Serial No. 77,328. 1 Claim. (Cl. 250—33.)



An electrical energy collector cut and formed from a single piece of conducting material to provide a body, radiating points on the body, and an attaching portion extending radially from a central point of the body, said attaching portion serving for effecting the attachment and the electrical connection of the collector, and said attaching portion adapted to be bent out of the plane of the body to be wrapped about a suitable conductor with the conductor extending in the space left in the body.

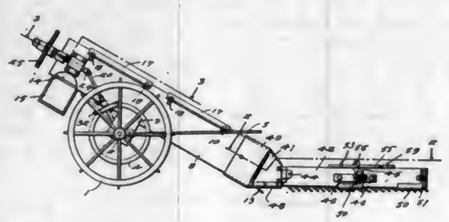
1,666,835. WARP TENSION AND LET-OFF. JOHN JULIUS RUHREN, Guttenberg, N. J., assignor to Herbert S. Vipond and William B. Leitch, Montreal, Canada. Filed July 13, 1926. Serial No. 122,163. 3 Claims. (Cl. 139—110.)

1. In a warp tension and let-off of the class described, a pair of uprights, arms whereby said uprights may be connected with the frame of a loom, a warp beam mounted for rotation between said uprights, a whip roll mounted for simultaneous rotation and swinging motion between said uprights above said warp beam, a rocker arm for said whip roll, a bell crank mounted for pivotal movement and connection with said rocker arm, an adjusting weight carried by said bell crank, a stand, a connection between the bell crank and the stand whereby the bell crank may be held against movement, a second bell crank mounted on one of the aforesaid arms, a link connection between the whip roll and one arm of the bell crank, an actuating pawl cooperable with said ratchet



wheel, a link connection between said second bell crank and pawl, and an operating connection between the ratchet wheel and warp beam.

1,666,836. STONE GATHERER. ELMER V. SANTEE, Williamson, N. Y. Filed July 8, 1926. Serial No. 121,163. 13 Claims. (Cl. 55—17.

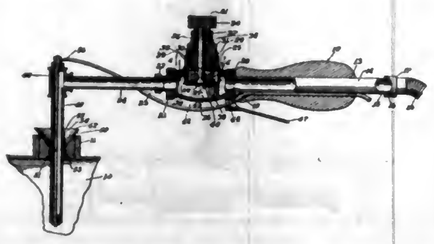


1. A machine of the character set forth,, comprising a downwardly and forwardly inclined casing provided at its rear end with a discharge opening, wheels supporting the casing, a spiral conveyor within the casing, means connected to the front end of the casing for directing material into the same, a pinion fixed to the conveyor, shafts, gears loose on the shafts located at opposite sides of the conveyor and meshing with the pinion, ratchet mechanism establishing driving connection between the shafts and gears, and means establishing driving connection between the shafts and wheels.

5. A machine of the character set forth, including a downwardly and forwardly inclined casing provided at its rear end with a discharge opening and provided at its front end with a forwardly directed tapered extension open at its front and bottom sides, a spiral conveyor within the casing and having its forward end tapered and extending into said extension, and conveyor operating means.

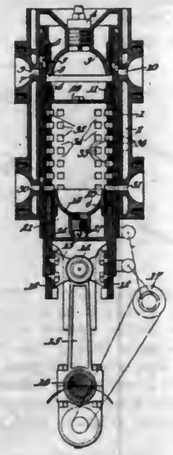
10. A machine of the character set forth, including a downwardly and forwardly inclined conveyor, forwardly divergent bars provided with rake teeth and located at the front end of the conveyor, means mounting the bars for relative adjustment about vertical axes and for movement about horizontal axes, each bar consisting of sections, means connecting the bar sections for relative adjustment about vertical axes and for movement about horizontal axes, and means holding the bars and bar sections in adjusted relation.

1,666,837. STORAGE-BATTERY FLUSHING AND REFILLING DEVICE. JOACHIM B. SCHARF, Chicago, Ill. Filed Jan. 31. 1927. Serial No. 164,906. 2 Claims. (Cl. 226—39.)



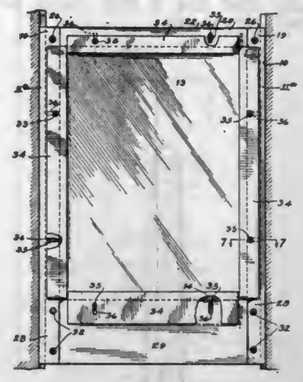
1. In a battery filling and flushing device, a valve structure, including a movable valve disk, a valve stem carrying the valve disk and a spring control button, conduits having communication between each other controlled by said valve structure, a handle supported by one of said conduits, and means for moving said valve disk, said means including arms pivotally supported by the button, bell cranks pivotally supported by the valve structure and having corresponding limb portions pivotally connected to the arms and opposite corresponding limb portion integrally formed together, a finger lip extending laterally from the integrally formed bell cranks and disposed beneath and in longitudinal direction with respect to the handle.

1,666,838. INTERNAL-COMBUSTION ENGINE. PAUL O. STRIBLING, Jr., Atlanta, Ga. Filed Jan. 18, 1927. Serial No. 160,935. 8 Claims. (Cl. 123—62.)



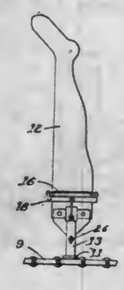
4. An internal combustion engine of the type including a hollow piston movable within a cylinder and between the cylinder head and a second head which is located within the skirt of the piston, characterized by the fact that the inner head is provided with a threaded recess for receiving a spark plug, the cylinder head and piston head having threaded apertures therethrough permitting the introduction of a spark plug, the piston head aperture being closed by a removable cap and the cylinder head aperture being adapted to receive a second spark.

1,666,839. METALLIC WINDOW SASH. JOHN THOMAS WINTON, Odessa, Tex. Filed Sept. 21, 1925. Serial No. 57,761. 3 Claims. (Cl. 189—76.)



1. In a metal sash construction, the combination of a stile and a rail, the stile formed of sheet metal with spaced apart inturned flanges at its outer edge and ears extending from and flush with its inner and outer faces, said flanges coextensive with said ears, and the rail formed of sheet metal with meeting inturned flanges at its outer edge and ears extending from but offset inwardly with respect to its inner and outer faces, said flanges of the rail coextensive with said ears of the rail, and means securing said stile and rail together with the ears of the rail between the ears of the stile and with the ears and flanges of the rail abutting the flanges of the stile.

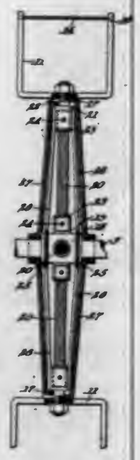
1,666,840. DEVICE FOR HOLDING STOCKINGS ON FORMS. EDWARD J. ZIOCK, Rockford, Ill. Original application filed May 7, 1924, Serial No. 711,565, Patent No. 1,623,080, dated Apr. 5, 1927. Divided and this application filed Sept. 20, 1924. Serial No. 738,756. 5 Claims. (Cl. 223—17.)



1. A stocking holding and clamping device comprising a stocking form, a flexible wire clamping element for each side of the form arranged to be moved into and out of clamping engagement with the form for holding a stocking thereon, each wire element being arranged readily to conform itself to the shape of the surface engaged thereby the entire width of the stocking and being arranged to extend crosswise of the form beyond

the opposite edges thereof whereby the two elements completely encompass the form, and spring means for operating said wire clamping elements normally toward engagement with the form with sufficient pressure to cause the elements to conform themselves in uniform contact with said form.

1,666,841. AGRICULTURAL IMPLEMENT. ALFRED JOHANN AUSPITZER, Hamburg, Germany, assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed May 3, 1926. Serial No. 106,570. 12 Claims. (Cl. 97—40.)

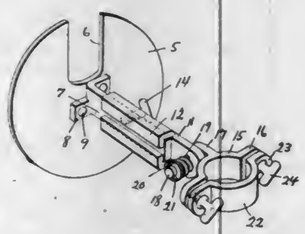


1. In an agricultural implement, a power shaft, an annular tool-carrying rim, and tensioned flexible spokes between said shaft and said rim.

11. A rotary plow comprising a power shaft, an annular rim, a plurality of U-shaped tools mounted on said rim, and driving means between said power shaft and said rim comprising a plurality of flexible spokes.

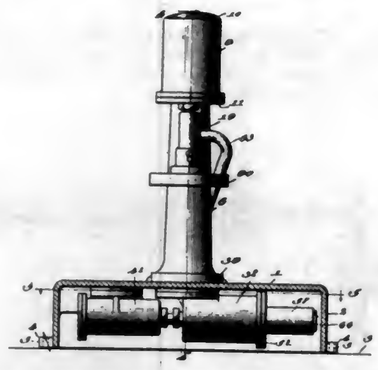
12. The structure as in claim 11 wherein the U shaped tools carry a thin member between their ends.

1,666,842. CROWBAR ATTACHMENT. EINAR C. CARLSON, Two Harbors, Minn. Filed Dec. 4, 1926. Serial No. 152,645. 1 Claim. (Cl. 254—131.)



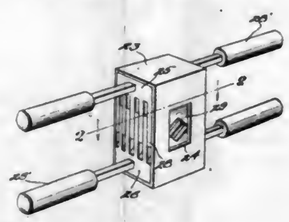
An attachment of the class described including a plate provided with a radial notch, a shank fixed to the plate and extending perpendicularly therefrom, a second shank slidable on the first shank, means for holding the shanks at different adjustable positions in relation to each other, a clamp, means for pivoting the clamp on the second shank, and spring means holding the clamp and the second shank in frictional engagement.

1,666,843. CASTING MACHINE. FRANCIS NATHANIEL BROWN, Jr., El Paso, Tex., assignor of one-half to Frank N. Brown, sr., El Paso, Tex. Filed Apr. 15, 1925. Serial No. 23,319. 2 Claims. (Cl. 22—69.)



1. In a casting machine of the character described, a cover for one end of an investment holding ring, said cover having an opening through which pressure fluid may enter said investment holding ring when the cover is in position to close said one end of the investment holding ring, a pneumatic operated plunger for moving said cover to and from position to close said investment holding ring at its said one end, pneumatic means associated with the investment holding ring at its other end for causing a suction within said investment ring at its second named end, and means for controlling the flow of pressure fluid through said suction causing device means and through said cover operating piston so that the suction causing device means will be operated in advance of and continue during the movement of said piston to position to move said cover against the the first named end of the investment holding ring.

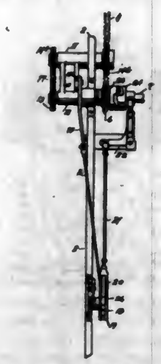
1,666,844. NAIL STRAIGHTENER. MELCHOR CENTENO V., Caracas, Venezuela. Filed June 13, 1925. Serial No. 36,895. 2 Claims. (Cl. 81—15.)



1. A nail straightening device comprising a box-like frame, a pair of V-shaped jaws movable within said frame, said frame having aligned rectangular slots provided in opposite walls thereof for the insertion of a nail between said jaws when said jaws are in an extended position to provide a continuous passage therethrough in alignment with said slots, and manipulating handles extending from opposite sides of said jaws for actuating the same.

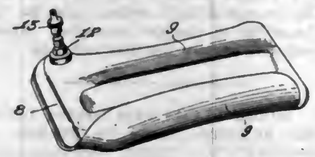
1,666,845. CHAIN-REVERSING MECHANISM. HARRY A. CLARK, Wichita Falls, Tex. Filed June 29, 1925. Serial No. 40,442. 3 Claims. (Cl. 74—21.)

3. In a reversing mechanism, a driven shaft, an endless chain operated by the shaft, a clutch on the shaft, a swinging frame, a rotatable member on the frame, means to actuate the member from the shaft, means to swing the frame to move its member into and out of engagement with the chain and to operate the clutch, and



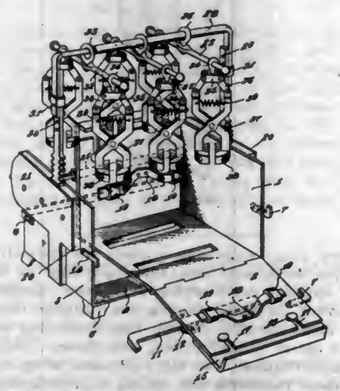
means engaging the chain on the side face thereof opposite to the side face engaged by the rotatable member to hold the chain engaged with the latter.

1,666,846. KNEE PAD. DENNIS S. COOPER, Abilene, Tex. Filed Oct. 23, 1926. Serial No. 143,741. 1 Claim. (Cl. 2—24.)



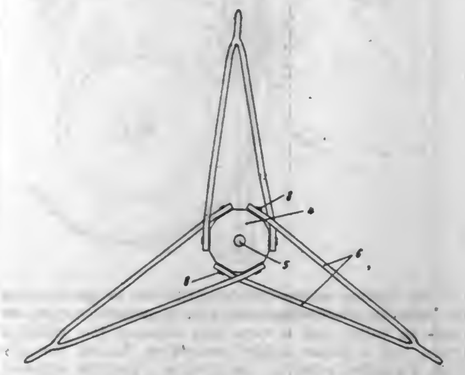
A pneumatic cushion for knee pads formed from a piece of tubular rubber that has its confronting ends contacting and secured together, said tube having its central portion, from points adjacent its ends also contacting and secured together, whereby to provide the member with a central longitudinally flat web, side tubes extending from the ends of the web and restricted transverse end tubes which communicate with the side tubes, and a normally closed valve for inflating the tubes.

1,666,847. BATTERY-ELEMENT EXTRACTOR. ALBERT B. COTE, Philadelphia, Pa. Filed May 20, 1927. Serial No. 192,998. 6 Claims. (Cl. 29—84.)



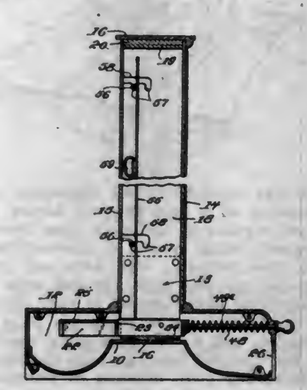
1. A device of the class described comprising a casing, means for holding a battery box therein, a member movably supported by the casing and extending above the same, gripping means carried by said member for gripping the posts of the battery elements and means for raising the member to cause said gripping means to pull the elements from the box.

1,666,848. STAND FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC VIEW TAKING APPARATUS. ANDRÉ LÉON VICTOR CLÉMENT DEBRIE, Paris, France. Filed Sept. 20, 1926, Serial No. 136,668, and in France Dec. 4, 1925. 2 Claims. (Cl. 248—43.)



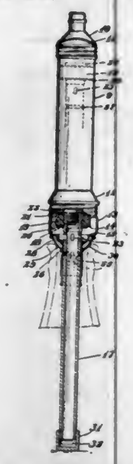
1. Stand for cinematographic and photographic apparatus and the like comprising a platform, a number of legs and a fork ending each leg, the two ends of each fork being secured to the platform at two points the line connecting which passes through the center of the platform.

1,666,849. VENDING MACHINE. BENJAMIN L. FRY, St. Louis, Mo., assignor to National Sales Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 7, 1925. Serial No. 48,870. 4 Claims. (Cl. 312—63.)



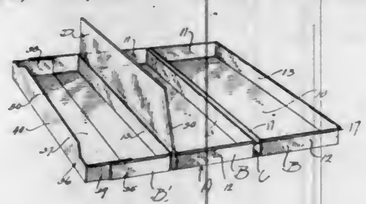
1. A vending machine comprising a casing, a package compartment therein, said compartment comprising a substantially U-shaped base portion, side walls secured to the opposed vertical faces of the base portion with the lower edges of said walls spaced from the bottom to define guides, an ejector mounted and movable in said guides, and means to return the ejector to normal position.

1,666,850. SIPHON PUMP. GEORGE V. GAVAZA, Quincy, Mass. Filed Mar. 2, 1927. Serial No. 171,984. 10 Claims. (Cl. 226—26.)



1. In a pump adapted to be connected to the long leg of a siphon, the combination with a cylinder having an inlet, an outlet, and a valve seat adjacent the outlet, a piston rod, a piston rigidly secured to the rod movable from a position adjacent the inlet to a position adjacent the outlet to fill the cylinder with liquid from the source of supply, and a valve engaged with the seat to prevent the flow of the liquid through the outlet, of means engaged by the mouth of the bottle for unseating the valve from the valve seat to permit liquid to flow through the outlet.

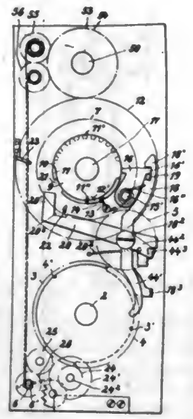
1,666,851. DISPLAY-TRAY CONSTRUCTION FOR SHOW CASES. JOHN F. GOOD, Knoxville, Tenn. Filed Sept. 27, 1926. Serial No. 137,984. 3 Claims. (Cl. 206—72.)



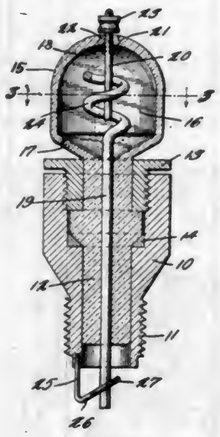
1. In a tray construction for displaying merchandise the combination of a pair of trays having side walls with flanged portions at the outer sides thereof providing downwardly facing grooves, a substantially U-shaped connecting piece including side walls and providing a pocket between the side walls, the side walls of the U-shaped connecting piece received at their upper ends in the grooves of the trays to retain the trays in a connected relation, and a separating plate inserted in the pocket of the U-shaped connector piece and the lower end of said separating plate disposed in frictional engagement with the outer sides of the flanges of said trays.

1,666,852. SLOT-SHUTTER MECHANISM FOR PHOTOGRAPHIC CAMERAS. FRIEDRICH GROSSE, Jena, Germany. Filed Mar. 4, 1927, Serial No. 172,827, and in Germany Sept. 18, 1924. 12 Claims. (Cl. 95—57.)

1. In slot shutters for photographic cameras two blinds, springs therefor, means for varying the tension of said springs, and means for varying the width of the slot between the blinds, and a time regulator for measuring the time between release of the two blinds in combination with a setting disc adapted when turned in one direction from a normal position to operate the means for varying the tension of said springs and the means for varying the width of the slot and when turned in the other direction to operate the time regulator.

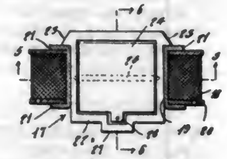


1,666,853. SPARK PLUG. ISAAC HARRIS, Detroit, Mich. Filed Mar. 14, 1924. Serial No. 699,268. 1 Claim. (Cl. 123—169.)



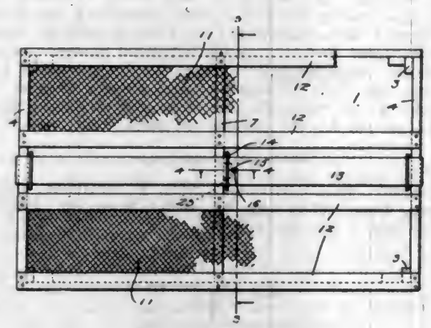
A spark plug comprising a shell, an insulating core within the shell, said core being provided at one end with an enlarged head having a chamber therein, a sectional power electrode having one member thereof extending longitudinally through said insulating core and having a spiral formed at one end thereof, and located within said chamber, the other member being supported in alignment therewith and having a portion thereof extending concentrically with the spiral portion, a ground electrode secured to said shell and having a loop portion surrounding said power electrode.

1,666,854. LOUD SPEAKER. LELAND D. HARRIS, Salt Lake City, Utah. Filed June 12, 1926. Serial No. 115,523. 8 Claims. (Cl. 179—119.)



1. A sound reproducing device comprising a diaphragm, arcuate permanent magnets, pole pieces arranged diametrically of the magnets and having their outer ends secured to the opposite sides of the magnets, the inner ends of the pole pieces being of substantially U-form and arranged in opposed relation within the magnets, a coil located within the inner ends of the pole pieces, a frame extending through and beyond the coil and engaged by the inner ends of the pole pieces to secure it and the coil in place, an armature arranged within and rockably supported by the frame, and an element connecting the armature to the diaphragm.

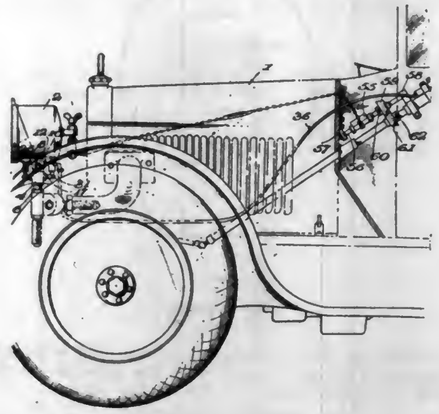
1,666,855. SELF-LOCKING CHICKEN COOP. MARION S. HOLLEY, Enterprise, Kans. Filed July 18, 1925. Serial No. 44,574. 1 Claim. (Cl. 217—62.)



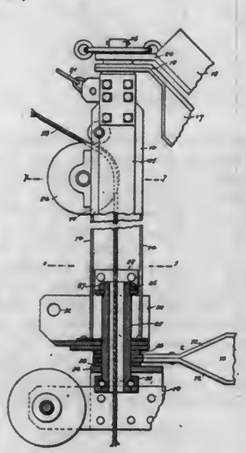
In a chicken coop, a container having an opening in its top extending from end to end thereof, a door slidable in said opening and having an opening therethrough, a partition intermediate of the ends of the container, a housing secured to said partition, and a spring actuated bolt in said housing adapted to engage in said opening when the door is in closed position to prevent casual displacement thereof, retraction of said bolt being effected through the opening from the outer side of the door and permitting the door to slide on the container without lifting.

1,666,856. TILTABLE AND DIRIGIBLE HEADLIGHT. THOMAS C. HOLLIDAY, Canton, Miss., assignor to Holliday Life Saving Headlight Co., Jackson, Miss., a Corporation of Mississippi. Filed June 16, 1925. Serial No. 37,567. 4 Claims. (Cl. 240—61.)

1. In combination with a headlight, means for mounting the headlight for tilting movement downwardly and forwardly, a stud secured on said means, a rod pivoted to the stud and having sliding engagement with the headlight, a spring on the rod for urging the headlight to normal position, a second stud also carried by said means, a cylinder fixed to the headlight casing, a piston fitted in the cylinder, a link between the piston and the second stud, a manually operable pump mounted on the steering post of an automobile and connected with the cylinder.



1,666,857. DERRICK. FAY HUNT, New York, N. Y. Filed July 15, 1926. Serial No. 122,664. 2 Claims. (Cl. 212—70.)

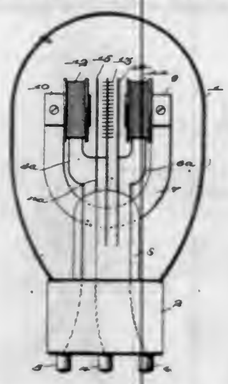


1. In a derrick, a mast, means supporting the lower end of the mast, a sill, a tubular gudgeon pin connected with the mast at the lower end, and means for swiveling the lower end of said tubular gudgeon to the said sill so that the sill can swing laterally on said tubular gudgeon.

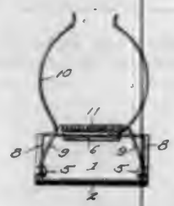
1,666,858. VACUUM TUBE. AUGUSTUS HENRY JAHN, Pittsburgh, Pa. Filed May 27, 1926. Serial No. 112,084. 2 Claims. (Cl. 250—27.5.)

2. A device of the character described comprising means for producing a permanent magnetic field, a filament situated in said field for producing a thermionic stream, a plate constituting a target by which said stream is intercepted, a grid interposed between the filament and

plate, and electrode-magnetic means connected with the grid being operable by varying electrical impulses to superimpose an electro-magnetic field upon said permanent magnetic field and thereby vary the potential of the grid to variably control the flow of said stream.

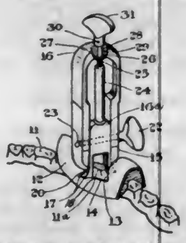


1,666,859. PRICE-TAG HOLDER AND ATTACHING DEVICE. ROBERT A. LEAGUE, Greenville, S. C. Filed May 7, 1927. Serial No. 189,661. 1 Claim. (Cl. 40—16.)



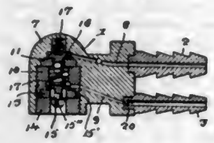
A price card holder comprising a plate having one of its edges adjacent to its ends slit, and the portions of the plate, outward of the slits bent over the faces of the plate to provide guide flanges, said plate having a lower guide flange, the portion of the plate between the mentioned slits being bent over the back of the plate to provide an eye, ears on the inner face of the plate adjacent to the lower corners thereof, a spring wire member received through the eye and having angle arms which are bent upon themselves to provide outer arms and which are received between the ears, said last mentioned arms being inclined toward each other and merging into right angularly arranged rearwardly extending round jaws which exert a pressure toward each other and a spring connected to the jaws for urging the same toward each other.

1,666,860. TOOTH EXTRACTOR. VINCENT MARANDA, Montreal, Quebec, Canada. Filed May 17, 1926. Serial No. 109,777. 3 Claims. (Cl. 32—10.)



1. In a device of the character described the combination of a bridge member adapted to rest upon the teeth and provided with an aperture for exposing a tooth to be extracted, and a separate tooth gripping and extracting device having a part adapted to straddle the tooth to be extracted and to engage opposite edges of the aperture formed in the bridge member, said part being connected to the tooth gripping means in such manner as to receive the reactive thrust incident to extraction of the tooth and serving in cooperation with the bridge member to distribute said thrust over a considerable area of the jaw bone in the vicinity of the tooth to be extracted.

1,666,861. AIR TESTING AND INFLATING MEANS. ERNEST HOLT MCFARLAND, Louisburg, N. C., assignor of one-half to James A. Hodges, Louisburg, N. C. Filed July 15, 1926. Serial No. 122,695. 1 Claim. (Cl. 284—17.)



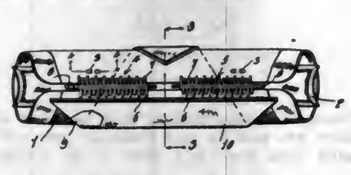
A chuck for an air supply comprising a body having a socket, and being formed with upper and lower passages which communicate with said socket, a hose nipple for each passage and the nipple for the upper passage being in communication with an air supply and the lower nipple with a gauge, a plug threaded in part of the socket and being formed with a recess in its bottom, a washer in the recess, a nut threaded in said socket for retaining said washer in said recess, a washer on the upper end of the plug, a valve controlling the upper passage, a spring influencing the valve to hold the same on the upper washer, a spring influenced plunger having a flange which normally engages the lower washer for closing the lower passage and said plunger adapted to unseat a tire valve and the valve for the upper passage, as and for the purpose set forth.

1,666,862. ROAD SIGNAL. NELL E. MCHENRY, Denison, Iowa. Filed July 18, 1925. Serial No. 44,541. 1 Claim. (Cl. 40—135.)



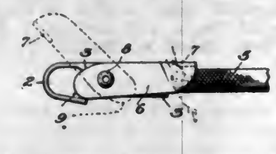
A sign plate comprising a cast metal body having a flat rear surface formed with longitudinal ribs defining a substantially rectangular area, said ribs having overhanging flanges, said metal body being provided with a plurality of openings of a shape to define indicia, and a reflecting member disposed against the flat rear side of the body and retained within said flanges, the front face of the sign being concaved and the front face being further formed with an overhanging flange located above the area provided with openings.

1,666,863. TIRE BOOT OR PATCH. MARION C. MYERS, Tenino, Wash. Filed Mar. 10, 1927. Serial No. 174,357. 5 Claims. (Cl. 152—24.)



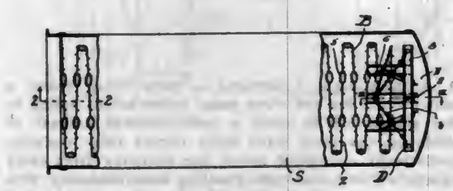
1. A boot or patch comprising a split sleeve, and a two part lacing connecting the inner or longitudinal edges of the sleeve, the respective parts of the lacing being arranged at opposite sides of the transverse center of the sleeve.

1,666,864. WATCH-BRACELET END HOOK. FREDERICK W. NITTEL, Attleboro Falls, Mass., assignor to M S Co., Attleboro, Mass. Filed Aug. 18, 1927. Serial No. 213,823. 4 Claims. (Cl. 24—242.)



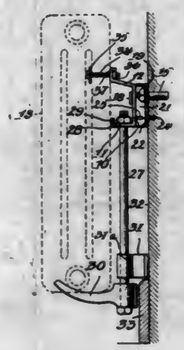
4. In a watch bracelet fastener, a member having a watch bracelet end hook, stop means carried by the member, and a keeper pivoted to the member and having a part to engage the stop means in operative position thereof, said keeper having means formed to move into and out of engagement with the hook, and said hook being resilient whereby to exert tension on said last named means to hold same in operative position and to yield and enable the keeper to be moved to inoperative position out of engagement with the hook.

1,666,865. APPARATUS FOR REMOVING COKE FROM STILLS. LEROY V. ROBBINS, Baton Rouge, La., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Oct. 18, 1923. Serial No. 669,318. 2 Claims. (Cl. 196—91.)



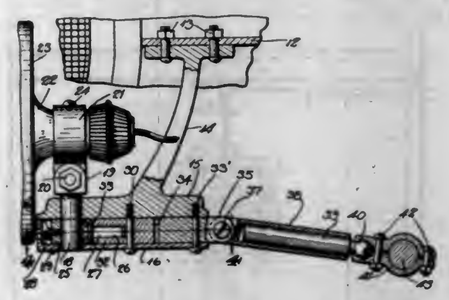
1. Apparatus of the character described, which comprises a still provided with a manhole across the lower segment of one end, a closure therefor, a series of flexibly connected break-out strips each having lateral teeth, a drag having support-runners and a back made up of top and bottom I-beam pieces and connecting angle-irons, and a flexible connection between the drag and the end of the series of break-out strips, said man-hole being large enough to permit passage of the drag therethru.

1,666,866. RADIATOR HANGER. DE WITT C. RUFF, 2d, St. Paul, and JAMES H. HEALY, Mahtomedi, Minn., assignors to John A. Healy, James H. Healy, and Daniel W. Hickey, St. Paul, Minn. Filed Feb. 21, 1924, Serial No. 694,249. Renewed Nov. 16, 1925. 11 Claims. (Cl. 248—17.)



6. A radiator hanger comprising a head formed with the back adapted to be hung upon a wall, means for suspending a radiator from said head and an offset adapted to be removably attached to the back of said head and arranged when so attached to support said head upon a wall at a predetermined distance therefrom.

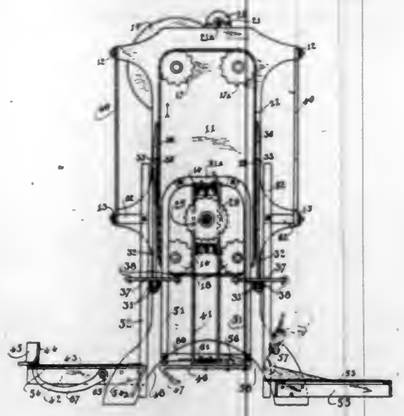
1,666,867. DIRIGIBLE HEADLIGHT. WILLIS M. SWEET, Niles, Mich. Filed Jan. 29, 1927. Serial No. 164,603. 3 Claims. (Cl. 240—62.)



1. In an operating mechanism for dirigible head lights, a vertical shaft for supporting a head light, a securing device for connecting the mechanism to the steering mechanism for a car, a second shaft parallel to the first, a pin and slot device operatively connecting the shafts and arranged to initially move the first shaft at a greater angular velocity than the second shaft and thereafter move the first shaft at a gradually decreasing angular ratio to the angular movement of the second shaft, said mechanism including a segmental gear on the second shaft, a third shaft, a segmental gear on the third shaft meshing with the first segmental gear, a pivot lug

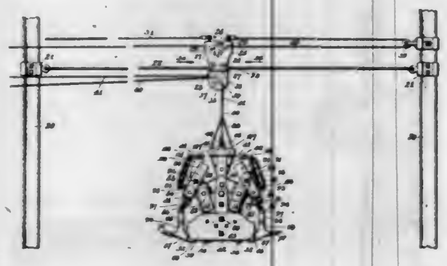
carried by the second gear, and a telescopic connecting device having one end connected to the pivot lug for vertical swinging movement and the other end provided with a ball and socket connection to said securing device.

1,666,868. ICE-SCORING MACHINE. FRANCIS CAMERON WESTMAN, Toronto, Ontario, Canada. Filed Aug. 6, 1927. Serial No. 211,128. 11 Claims. (Cl. 125—13.)



1. In an ice scoring machine, scoring elements, an ice carrier travelling in a substantially rectangular path around said scoring elements and scoring the ice on opposite faces thereof, means for supporting the unscored ice prior to being raised by said carrier, and means for delivering the scored ice.

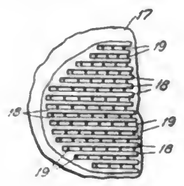
1,666,869. DIGGING, LIFTING, AND CONVEYING APPARATUS. JOHN ZICA, Lackawanna, N. Y., assignor of one-half to Joseph Budaloff, Niagara Falls, N. Y. Filed Jan. 15, 1925. Serial No. 2,568. 20 Claims. (Cl. 37—183.)



1. A suspended digging implement comprising a bucket provided with a bottom having spaced digging elements movable away from each other during digging operation, combined with means for so moving said digging elements.

1,666,870. IRONING OR PRESSING MACHINE PAD. STEPHEN E. BECK, St. Louis, Mo. Filed Jan. 25, 1926. Serial No. 83,526. 2 Claims. (Cl. 68—9.)

1. In a device of the class described a sheet of asbestos provided on its under surface with a plurality of closely spaced parallel ribs and having perforations therethrough between said ribs, a loosely woven fibrous pad superimposed on said asbestos sheet, a closely woven fabric covering for said pad, and means for tautly securing said covering over the face of the steaming head

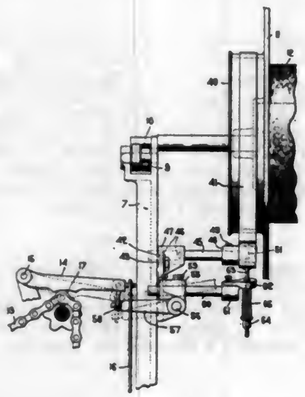


of a pressing machine whereby said pad and said asbestos sheet are held on said steaming head and steam can readily pass from said head to an article being pressed.

1,666,871. HYDRAULIC-BRAKE SOLUTION. WILLIAM G. CALKINS, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a Corporation of Delaware. Filed Oct. 9, 1926. Serial No. 140,686. 5 Claims. (Cl. 252—5.)

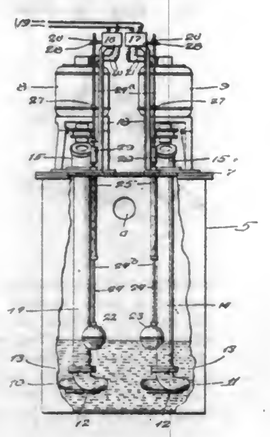
1. A hydraulic solution composed of castor oil and butyl alcohol.

1,666,872. LET-OFF FOR TERRY LOOMS. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 23, 1924. Serial No. 694,557. 11 Claims. (Cl. 139—25.)



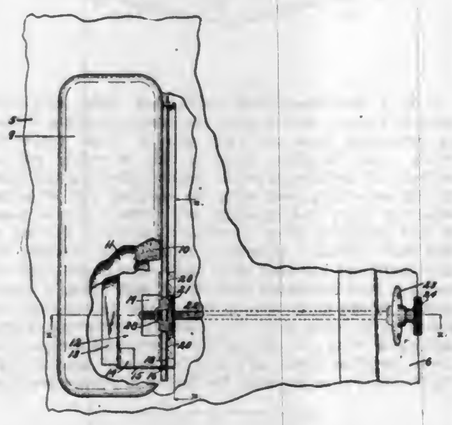
1. A terry loom comprising a terry warp beam, a friction let-off for the terry warp beam, means acting to cause said let-off to exert a predetermined amount of friction on the terry warp beam during terry weaving, automatically controlled means for changing from terry to plain weaving, and means acting simultaneously with such a change and prior to the first beat-up of plain weaving to effect a predetermined intensification of the amount of friction exerted on the terry warp beam, thereby to maintain the terry loops of uniform and full length to the end of the one of terry weaving and to begin the zone of plain weaving perfectly.

1,666,873. DUPLEX PUMPING APPARATUS. AUGUSTUS C. DURDIN, Jr., Chicago, Ill., assignor to Chicago Pump Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1927. Serial No. 187,008. 20 Claims. (Cl. 103—11.)



1. A duplex pumping apparatus the combination of a receptacle and a pair of automatically controlled, alternately operating, motor driven pumps for ejecting liquids from said receptacle, the control means for said pumps being governed by the rise and fall of liquid in said receptacle.

1,666,874. COWL VENTILATOR. GEORGE E. GRIMM, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 27, 1922. Serial No. 577,867. 13 Claims. (Cl. 98—2.)



1. In an automobile, a cowl having a ventilating opening therein, a cover therefor, a member secured to said cover and extending into said cowl, a shaft pivotally connecting said member to said cowl, a nut pivotally carried by said member, operating means engaging said nut and a spring engaging said cover, said shaft and said nut.

1,666,875. FLEXIBLE STRAW HAT. MAX KRAUT, New York, N. Y., assignor to New England Panama Hat Company Inc., New York, N. Y. Filed May 7, 1927. Serial No. 189,666. 4 Claims. (Cl. 2—193.)



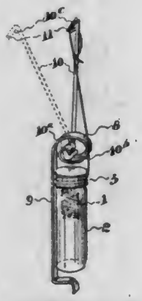
1. A straw hat comprising a crown and an outer brim portion having the braids sewed in a circular manner, a connecting flexible portion having the braids sewed substantially perpendicular to the circular braids and each braid overlapping the other throughout its length.

1,666,876. LAMP FOR USE ON MOTOR VEHICLES AND FOR OTHER PURPOSES. SIDNEY LEOPOLD PRICE, London, England. Filed Jan. 17, 1923, Serial No. 613,214, and in Great Britain Jan. 17, 1922. 3 Claims. (Cl. 176—26.)



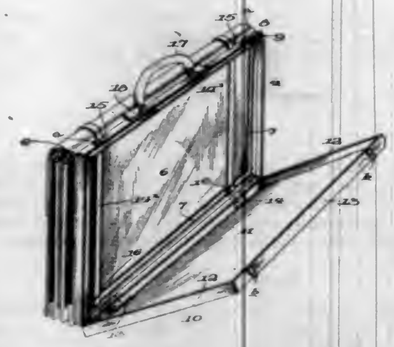
1. An electric lamp, comprising the combination with a bulb and a filament therein, of a second filament forward of the first mentioned filament relative to the socket of the bulb, and a light coloring enclosure around the second filament and carried by the bulb by a portion of its wall opposite the socket.

1,666,877. DENTAL FLOSS HOLDER. ROBERT L. CUMMER, Toronto, Ontario, Canada. Filed Apr. 8, 1927. Serial No. 182,152. 3 Claims. (Cl. 132—92.)



8. In a dental floss holder, the combination of a carrier for the floss; floss gripping means on said carrier; an arm movable relative to the carrier and adapted to have the end of the floss engaged therewith; and a spring normally tending to move said arm to tension the length of the floss between the gripping means on the carrier and the arm.

1,666,878. BRIEF BAG. TITIAN W. JOHNSON, Potomac Beach, Va. Filed Mar. 12, 1927. Serial No. 174,855. 17 Claims. (Cl. 150—1.6.)



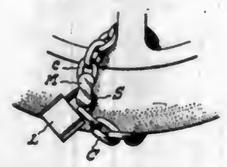
10. The combination with a brief case having a back cover, a strip substantially L-shaped in cross section extending around the periphery of the back cover, said strip being substantially L-shaped in cross section, one leg of the strip being secured to the back cover and the other leg projecting at right angles to the cover to form an apparel section, a closure for said apparel section hinged to the projecting leg of the strip adjacent one edge of the back cover, said strip being offset from the back cover at spaced points to provide strap keepers, and straps extending through said keepers and around the brief case.

1,666,879. WRENCH. VINCENT BARTON, Cadillac, Mich. Filed Sept. 17, 1925. Serial No. 56,838. 2 Claims. (Cl. 81—134.)



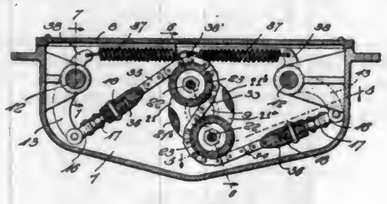
1. In a wrench, the combination of a shank having serrations along one edge and a fixed jaw at one end, a movable jaw provided with cheek plates movably mounted on the movable jaw and having oblique slots, said movable jaw also carrying a pin projecting laterally therefrom and adapted to play in said slots in the cheek plates but frictionally held in said slots against casual play, a serrated clutch block carried between the free ends of cheek plates on a bolt, and means mounted on the bolt for exerting pressure on the cheek plates and clamping the cheek plates against the clutch block to lock the block in interlocked engagement with the serrated shank, whereby the movable jaw is immovably held.

1,666,880. LOCK. HARRY E. SOREF, Milwaukee, Wis. Filed May 10, 1926. Serial No. 108,039. 6 Claims. (Cl. 70—90.)



1. In a securing means the combination of, an intermediate link connecting a chain member to a locking means, parallel and separated plates offering a slot in said link, pivotal spacing studs separating the said plates and longitudinally limiting the slot aforesaid, a lock body provided with a U-shaped lock shackle permanently pivoted about one of said studs and an initial link of said chain member similarly pivoted about the other stud.

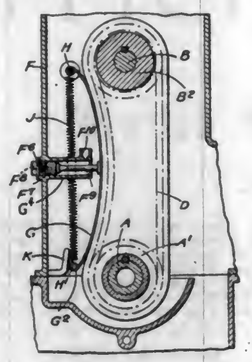
1,666,881. EQUALIZING MECHANISM FOR FOUR-WHEEL BRAKES. CELESTIN LAMPER, Cleveland, Ohio. Filed Aug. 26, 1925. Serial No. 52,672. 4 Claims. (Cl. 188—209.)



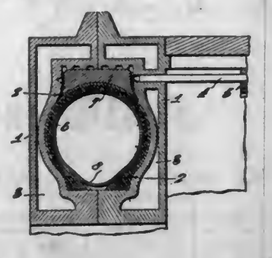
1. In a four-wheel brake mechanism, front and rear pairs of separate and independent brake actuating levers, an equalizing lever for each pair of brake actuating levers, each equalizing lever having arcuately curved toothed end surfaces, sprocket chains connecting the ends of each equalizing lever with the coacting pair of brake actuating levers and engaging said toothed end surfaces of said equalizing lever, a primary operating element, a rock shaft actuated thereby, a rocker lever actuated by said shaft and provided with arms on opposite sides of its axis, friction rollers carried by said arms, a chain passing in oposite directions around said rollers and connected at its ends with the respective operating levers, said chain being shiftable on the rollers, and springs connected with the brake actuating levers and normally operative thereon to maintain the brakes in release position.

1,666,882. TENSIONING DEVICE FOR TRANSMISSION CHAINS AND THE LIKE. JOHN WELLER, Great Bookham, England. Filed Mar. 28, 1927, Serial No. 179,079, and in Great Britain Apr. 12, 1926. 13 Claims. (Cl. 64—5.)

1. In a tensioning device for flexible transmission members, the combination of a flexible transmission member, two wheels over which this member passes, a flexible metal strip adapted to bear against a portion of the flexible transmission member between the wheels, and means exterior to the strip for applying thereto a force tending to move its ends towards one another and thereby cause the intermediate portion of the strip to bulge and press against the flexible transmission member as set forth.



1,666,883. METHOD OF MAKING PNEUMATIC TIRES. HENRY M. LAMBERT, Portland, Oreg.; Helen H. Lambert executrix of said Henry M. Lambert, deceased. Filed May 25, 1927. Serial No. 194,000. 3 Claims. (Cl. 18—55.)



1. The method of manufacturing pneumatic tires having ventilated treads which includes the steps of building up the carcass proper, applying a thick body of tread stock over the carcass periphery, placing an air bag within the carcass, placing the mass in a confining mold, closing the mold and inflating the air bag to a pressure above the atmosphere to tend to cause the plastic mass to fill the molding cavity of the mold, forcing core pins into the tread stock, and vulcanizing the mass while maintaining pressure within the air bag.

Patents Nos. 1,666,884 to 1,667,710.

THE

OFFICIAL GAZETTE

OF THE

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

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Issue of April 24, 1928.

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Prints	3—No.	10,788 to No.	10,790, inclusive.
Reissues	7—No.	16,939 to No.	16,945, inclusive.
Designs	43—No.	74,956 to No.	74,998, inclusive.
Patents	827—No.	1,666,884 to No.	1,667,710, inclusive.
Total	1,121		

Interference Notices.

U. S. Patent Office, *Washington, Mar. 28, 1928.*

Spinks & McIlwain, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edward P. Read, 1721 Lombard Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered September 11, 1923, No. 172,502 to Spinks & McIlwain, 102 Washington Street, Selma, Ala., and a notice of such declaration sent by registered mail to said Spinks & McIlwain at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Spinks & McIlwain, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Mar. 30, 1928.*

Porter-Seitz Shoe Stores Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edward J. Ramsey, 347 Rider Avenue, New York, N. Y., for registration of a trade-mark and trade-mark registered February 5, 1924, No. 179,326, to Porter-Seitz Shoe Stores Company, 203 Pittsburgh Life Building, Pittsburgh, Pa., and a notice of such declaration sent by registered mail to said Porter-Seitz Shoe Stores Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Porter-Seitz Shoe Stores Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Notice of Cancellation.

U. S. Patent Office, *Washington, Mar. 29, 1928.*

The Chillicothe Packing Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of John Morrell & Co., of Ottumwa, Iowa, to effect the cancellation of the trade-mark registration of The Chillicothe Packing Company, of Chillicothe, Ohio, No. 40,832, dated July 28, 1903, and the notice of such proceeding sent by registered mail to The Chillicothe Packing Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless The Chillicothe Packing Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,552,364, Vierling and Bartholomew, Pencil, decided March 1, 1928, claim 5.

Pat. 1,583,541, E. T. Ferngren, Forming continuous sheet glass, decided March 13, 1928, claims 6 and 17.

Pat. 1,588,304, A. L. Brownrigg, Composition shingle, decided March 16, 1928, claim 1.

Pat. 1,622,070, Austin and Phelps, Power-transmitting apparatus, decided March 15, 1928, claims 1, 2, and 3.

Pat. 1,623,918, A. H. Grebe, Radio receiving apparatus, decided April 4, 1928, claim 2.

Final decisions in interferences have been rendered against the following trade-marks:

T. M. 193,384, Salve for cuts, wounds, boils, ingrown hairs, and nails, carbuncles, pimples, and the like, William F. Baier, doing business as William F. Baier Manufacturing Company, St. Paul, Minn. Registered December 30, 1924. Decided March 12, 1928.

T. M. 231,689, Pressure-operated electric switches for temperature regulation and safety control of heating plants, Minneapolis Heat Regulator Co., Minneapolis, Minn. Registered August 30, 1927. Decided April 5, 1928.

Condition of Applications Under Examination at Close of Business April 13, 1928.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 100,831; Trade-Mark Division, 2,455. Oldest new case, July 8, 1927; oldest amended, July 13, 1927. The dates given are 1927 except where † indicates 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders	July 29	Aug. 8	1,553
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	Oct. 27	Nov. 1	1,357
331	3. LINDSEY, A., Electric Heating; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Aug. 25	Oct. 12	1,994
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus and Implements, and Pushing and Pulling.	July 12	July 13	2,167
108*	5. MACNAB, J. F., Harvesters; Jewelry; Music; Acoustics; Sound Recording; Knotters	Aug. 6	Aug. 8	1,533
318	6. LEWERS, A. M., Chemistry; Chemistry—Carbon Compounds	Sept. 22	Sept. 20	2,503
106	7. JARBOE, C. G., Amusement and Exercising Devices; Toys; Optics; Photography	Aug. 16	Aug. 23	2,337
133	8. HENRY, C. C., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Supports, Racks; Supports, Cabinet Structures.	Sept. 29	Oct. 4	2,296
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Nov. 14	Nov. 18	1,496
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Aug. 10	Nov. 16	1,817
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skins, and Leather Manufactures; Nailing and Stapling; Whip Apparatus; Cutting and Punching Sheets and Bars.	Oct. 27	Oct. 15	1,436
380	12. PIERCE, P. P., Machine Elements	July 9	Sept. 1	1,982
164*	13. CLIFT, J. W., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Sept. 15	Sept. 10	1,878
102*	14. BRUMBAUGH, N. J., Compound Tools; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 20	July 15	1,672
329	15. REDROW, W. L., Glass; Plastic Block and Earthenware Apparatus; Plastics	Sept. 22	Oct. 3	2,107
242*	16. SPENCER, C. J., Batteries; Resistances and Rheostats; Telegraphy; Telephony	Oct. 22	Nov. 1	1,393
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Sept. 8	Sept. 27	1,234
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 27	Aug. 29	1,429
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Oct. 22	Nov. 5	1,445
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Nov. 15	Nov. 25	1,390
212	21. THURBER, W. L., Winding and Reeling; Textiles; Cloth Finishing	July 20	Oct. 15	1,399
244*	22. COLWELL, J. H., Aeronautics; Amusement Devices, Games; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Sept. 6	Sept. 26	1,757
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers; Horology; Time-Controlling Mechanism.	July 14	July 15	1,469
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	July 20	July 22	1,511
314	25. LIGHTFOOT, J. H., Agitating; Bleaching and Dyeing; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Mills; Sugar and Starch; Threshing; Vegetable and Meat Cutters and Comminutors.	Sept. 26	Oct. 11	2,054
228*	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Aug. 5	Aug. 10	1,303
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 1	Nov. 11	1,390
225	28. BENSON, A. R., Internal-Combustion Engines	Sept. 2	Sept. 2	1,992
160*	29. MORRIS, B. N., Abrading; Button Making; Coopering, Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	July 30	Aug. 12	1,821
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Typewriting Machines; Thermostats and Humidostats.	Aug. 10	Nov. 10	1,663
312	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue.	Sept. 28	Sept. 22	2,605
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Sept. 9	Sept. 9	1,956
152	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Dec. 7	Dec. 2	1,969
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	July 15	July 20	1,407
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Nov. 14	Nov. 15	1,547
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Nov. 9	Nov. 14	1,699
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 6	Oct. 5	2,028
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Oct. 7	Oct. 7	1,715
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	July 11	Nov. 7	1,618
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Package and Article Carriers; Receptacles	Aug. 23	Sept. 13	2,433
126	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes	Oct. 31	Nov. 7	1,078
223*	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling	Aug. 26	Aug. 31	1,998
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members; Railway Draft Appliances.	Sept. 28	Oct. 17	2,167
253	44. SHAFFER, C. H., Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Refrigeration.	Aug. 1	Aug. 22	1,946
378	45. GILES, A. H., Pulleys and Shafting; Lubrication; Machine Elements; Bearings and Guides	Oct. 28	Nov. 14	1,396
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 29	Sept. 3	1,656
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Motors; Spring Devices.	Sept. 6	Sept. 14	2,598
213*	48. ROEPKE, O. B., Electricity, General Applications	Oct. 14	Oct. 14	1,457
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Ventilation; Velocipedes; Driers; Liquid Separation or Purification.	Aug. 5	Oct. 12	1,486
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Sept. 16	Sept. 17	2,447
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Sept. 16	Sept. 17	2,062
144	52. MORGAN, E. T., Supports; Chucks; Fire Escapes; Ladders; Scaffolds; Railway Mail Delivery; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Oct. 14	Oct. 14	2,230
143*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 16	Sept. 16	1,642
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Sept. 20	Sept. 20	2,162
102	55. RICHARD, V. I. { Bread, Pastry, and Confection Making; Cutlery	Aug. 22	Sept. 14	900
	{ Designs	†Feb. 27	†Mar. 6	750
309	56. PORTER, F. J. (Acting), Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation.	July 8	July 30	2,481
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND { Trade-Marks	†Mar. 13	†Mar. 31	2,096
	{ Labels and Prints	†Mar. 8	†Mar. 30	359

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

IN RE STIMPSON.

No. 2,005. Decided March 5, 1928.

1. DESIGNS—PATENTABILITY—RIVET-SETTING MACHINE.

A design for a rivet-setting machine *Held* unpatentable, since the several parts of the mechanism are "assembled into an entirety which is lacking in symmetry, wanting in grace, and destitute of any appeal to the senses or emotions."

2. SAME—SAME—REQUISITES.

"It is not necessary that the design contemplated by section 4929 should be a work of the fine arts, but it is necessary that the design should be new and original and either embellished or adorned, or distinguished by its grace or symmetry of form."

Mr. Wm. F. Hall and *Mr. Frank J. Kent* for Stimpson.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, VAN ORSDEL, Justice, and SMITH, Judge U. S. Court of Customs Appeals.

SMITH, *J.:*

This is an appeal from the decision of the Commissioner of Patents refusing to issue a patent to the appellant for an ornamental design of a rivet-setting machine, thereby affirming the action of the Examiner and the Examiners in Chief.

The appellant in November, 1921, filed his application for a patent in which he alleged that he had invented "a certain new, original, and ornamental design for a rivet setting machine" and in that application made claim to "a rivet setting machine having ornamental features of design as illustrated in the drawings."

The drawings submitted with the application disclose a rivet-setting machine every part of which is purely utilitarian and without ornamentation of any kind. There is nothing about the assembled mechanical device which serves to beautify, embellish, or adorn it. The several parts of the mechanism, whether circular, curved, rounded, or spiral, are assembled into an entirety which is lacking in symmetry, wanting in grace, and destitute of any appeal to the senses or emotions. The design has no human interest other than that aroused by the utilitarian nature of the machine.

A thing may be useful and ornamental and may please both because of the purpose for which it was made and because of its beauty. That which is utilitarian, however, pleases because it meets the approval of reason, while that which is ornamental gratifies the senses without reasoning out the why or the wherefore. To bring a design within the meaning of section 4929 of the Revised Statutes as amended by the act of May 9, 1902, it must be new, original, *and ornamental.* The design in issue may be new and original as to form, but it is not ornamental, inasmuch as it does not please the senses or excite the emotions by its color effects or by its proportion of form.

It is not necessary that the design contemplated by section 4929 should be a work of the fine arts, but it is necessary that the design should be new and original, and either embellished or adorned or distinguished by its grace or symmetry of form.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

HONDA *v.* BRACE.

No. 2,024. February 6, 1928.

1. INTERFERENCE—PRIORITY—REDUCTION TO PRACTICE.

The making of a number of magnets embodying the invention in issue and testing them, *Held* to constitute a reduction to practice of that invention, even though they were not of a size and shape to be used as permanent magnets in instruments, since, magnets being old, it must be assumed that the magnets in question would be capable of use.

2. SAME—SAME—SAME.

Where B., who had made certain magnets embodying the invention in issue and tested them, disclosed his invention to the assignee company but, the war coming on, the filing of the application was delayed until after the issuance of H.'s foreign patents, *Held* that, there being no evidence tending to show that B., or his assignee, was aware of these patents until B.'s application was filed, or that there was any intention to conceal or suppress the invention, the making of the magnets can not be considered as a mere abandoned experiment.

APPEAL from Patent Office. Affirmed.

Messrs. Mitford C. Massie, Roy F. Steward, and *C. O. McKay* for Honda.

Mr. Wesley G. Carr for Brace.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents in an interference proceeding awarding priority to the party Brace.

The invention relates to a magnetized body of an alloy steel, and is expressed in counts 3, 4, 6, 7, and 8. Counts 3 and 6 are illustrative, and read as follows:

3. As a new article of manufacture, a magnetized body of an alloy steel containing cobalt and a metal of the chromium group.

6. As a new article of manufacture, a permanent magnet comprising a magnetized body of an alloy steel containing a substantial percentage of cobalt substantially uniformly distributed therethrough.

Each of the tribunals of the Patent Office held that Brace was the first to conceive and the first to reduce to practice. The Examiner of Interferences awarded priority to him. The Board awarded priority to Honda, on the ground that the Brace invention had been forfeited by a concealment and delay in filing the application.

An examination of the record convinces us that the tribunals were fully justified in holding that Brace was the first to conceive and the first to re-

duce to practice. He is a skilled metallurgist and, when he made this invention, was employed by the Westinghouse Electric & Manufacturing Company. In the year 1916 he made and tested a number of magnets formed from high cobalt alloy steels, both with and without the addition of other metals. Those magnets were preserved, and were introduced as exhibits, together with the records of the laboratory tests made. Counsel for appellant contend that these tests ought not to be accepted as establishing reduction to practice, because the pieces tested were not of such shape and dimensions as to be suitable for use as permanent magnets in instruments. The Patent Office tribunals rejected this contention, because the counts are not limited to magnets having any particular shape or configuration but are drawn broadly to a magnetized body of alloy steel containing the elements recited therein. We think this position correct. Magnets were old, and it must be assumed that magnets made according to the requirements of these counts would be capable of use.

On March 13, 1917, Brace addressed a letter to the legal department of the company, explaining his invention and stating that he had—

found that the use of chromium and cobalt together in steel gives characteristics which make it well suited for use in permanent magnets.

and that what he desired to patent was—

broadly, the use of chromium and cobalt together in magnetic materials. More particularly, as regards applications, the use of chromium and cobalt together in permanent magnet steels.

The war coming on, there were changes in the company's patent department force, and the application for this invention was not prepared until November 26, 1918. In the meanwhile, on May 6, 1918, and on August 9, 1918, respectively, copies of Honda's Japanese patents, printed in Japanese characters, were filed in the library of the United States Patent Office, but there is no evidence tending to show that these patents came to the attention of Brace, or his assignee, until after the filing of his application; nor is there any evidence from which it fairly may be inferred that there was any intention to suppress or conceal the Brace invention. In fact, the evidence is to the contrary.

The question of diligence is not involved, because Brace was the first to conceive and the first to reduce to practice. *Hubbard* v. *Berg*, 195 O. G. 818, 40 App. D. C. 577. Where an alleged reduction to practice has been followed by a period of inactivity, and the filing of an application has been induced by knowledge of the entry into the field by an adversary, we have held that what was done amounted to nothing more than an abandoned experiment; but where, as here, prior reduction to practice by the first to conceive has been clearly established and there has been no suppression of the invention by him, he is entitled to an award of priority. *Rolfe* v. *Kaisling*, 143 O. G. 562, 32 App. D. C. 582; *Lederer* v. *Walker*, 182 O. G. 511; 39 App. D. C. 122. The decision appealed from is correct and is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE CORA W. BURT AND THE DOLLAR SAVINGS AND TRUST COMPANY, OF YOUNGSTOWN, OHIO, EXECUTORS OF HARRY B. BURT, DECEASED.

No. 2,028. Decided February 6, 1928.

PATENTABILITY—FROZEN CONFECTION.

A frozen confection including a frozen body portion and a stick member partially embedded therein and attached thereto by congelation, *Held* patentable over prior art disclosing a confection consisting of a core of ice cream wrapped in tinfoil or other appropriate material, and a lollipop produced by inserting a stick into warm candy, since it is one thing to insert the stick into a warm, soft substance that by cooling will adhere thereto and quite another to effect a strong union between a stick and a frozen substance.

APPEAL from Patent Office. Reversed.

Mr. H. S. Hill, *Mr. H. C. Robb*, and *Mr. J. F. Robb* for Burt.

Mr. T. A. Hostetler for Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.*:

Appeal from a decision of the Patent Office refusing the claims of the application.

The invention relates to a frozen confection on a stick. Claims 1, 3, and 6 are sufficiently illustrative, and are here reproduced:

1. A frozen confectionery product including a frozen body portion formed of an edible substance which is fluid at normal temperatures and congeals by refrigeration, and a stick member partially embedded in the body portion and attached thereto by congelation, the projecting end of the stick member forming a handle.

3. A frozen confectionery product, including a frozen ice-cream body portion, and a stick having one end thereof embedded in the ice-cream body portion, the other end of the stick projecting from the body portion and forming a handle by means of which the ice-cream body portion can be held while being eaten.

6. A frozen confectionery product, including an ice-cream portion, a handle member attached to the body portion, and an outer covering surrounding the body portion and formed of granulated particles of an edible substance which is comparatively hard and nonsticky at normal temperatures.

In 1922 there was granted Patent No. 1,404,539 to Nelson on so-called "Eskimo Pie," consisting of a core of ice cream, wrapped in tinfoil or other appropriate material. The object of the invention, as stated by Nelson, was—

to provide a frozen dainty comprising a form retaining block or brick of ice cream or the like, also to provide an encasement therefor which facilitates its ready handling.

This product achieved wide popularity. There was also on the market, and had been for years, the ordinary candy lollipop or sucker. These lollipops are produced by inserting a stick into the warm, sticky candy, which hardens and holds the stick. Mr. Burt was in the ice cream business, and the idea occurred to him to insert a similar stick in a small block of ice cream. Ice cream is not a sticky substance, but, on the contrary, is oleaginous. To insert a stick in a small cake of frozen ice cream would break the cake apart, and if the cream was less hard the stick would not adhere sufficiently to permit handling. Of course, to be a success the union between the stick and the frozen cream must be such as to permit the eating of the cream without breaking the union, and to make this result attractive to the public it must be accomplished without human hands touching the article in the process of manufacture. Finally, Mr. Burt hit upon the idea of freezing the stick in the ice cream; that is, by inserting the stick in the cream before freezing and then subjecting the mass to refrigeration. His experiments demonstrated that such a process created the desired union between the cream and the stick. The product was placed upon the market and has been a great success. In addition to the present application for a patent on the product, an application for a process patent was filed. The process patent was allowed, but its allowance is no bar to the allowance of this application. See *In re Zenk*, 277 O. G. 183, 50 App. D. C. 25; 267 Fed. 327.

The Examiner, in passing upon the present application, said:

Merely because applicant's article appears to be new is no basis for the grant of a patent. A patent may not be granted on a new article unless it is clear that it required the exercise of the inventive faculties to produce the article.

The Examiner was of the view that it required no invention to combine the lollipop stick and the Eskimo Pie. The Examiners in Chief were of the same view, and the Commissioner, in affirming their decision, said:

Heretofore the candy while in a warm, plastic state has been roughly shaped and pressed around an end of the stick by hand, or an end of the stick has been forcibly pushed into the mass, *the cooling and hardening* of which affixed it to the stick more or less securely.

The Commissioner, therefore, concluded that it was old "to secure the confection to the stick by a freezing or congealing operation."

[1] We are unable to agree with this conclusion. It is one thing to insert a stick in a warm, soft, sticky substance that by cooling will adhere thereto and quite another thing to effect a strong union between a stick and a frozen substance. Nor is the Patent Office quite consistent in its position, for it granted a patent to Nelson on his Eskimo Pie, and has since granted him a patent on the process of manufacturing it. In our view, applicant's process and product involve quite as much novelty as is involved in Nelson's process and product. As admitted by the Patent Office, applicant has produced a new article which has found public favor, and his useful and "happy thought" should be recognized. The quoted claims protect his product and his alone. It is quite easy, now that he has solved the problem, to reach the conclusion that it was very simple of solution, but the patent law contemplates rewarding the one who really solves it and not the one who, after its solution, thinks he could have solved it.

The decision is reversed.

Reversed.

Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,008,719, O. Kampfe, Safety razor, D. C., S. D. N. Y., Doc. E 37/248, *American Safety Razor Corp.* v. *Curvfit Products Co., Inc.* Complaint dismissed Mar. 13, 1928.

1,018,502, Just & Hanaman, Manufacture of incandescent electric lamps, D. C., W. D. N. Y., Doc. 1243–G. *General Electric Co.* v. *Meserrey's Industries, Inc., et al.* Consent decree Feb. 27, 1928. Same, D. C., S. D. N. Y., Doc. E 37/224, *General Electric Co.* v. *M. Kaplan.* Decree sustaining patent Mar. 9, 1928.

1,046,736, B. A. Clayton, Operating table or chair, D. C., S. D. Iowa (Davenport), Doc. E 4087, *B. J. Palmer* v. *Williams Mfg. Co. et al.* Dismissed by stipulation Feb. 25, 1928.

1,088,476, W. E. Stiles, Operating table, D. C., S. D. Iowa (Davenport), Doc. E 4088, *M. H. Palmer* v. *Williams Mfg. Co. et al.* Dismissed by stipulation Feb. 25, 1928.

1,128,144. (See Re. 12,725.)

1,128,145. (See Re. 12,725.)

1,128,252. (See Re. 12,725.)

1,171,061, E. T. Morriss, Perambulator or mail cart, filed Mar. 10, 1928, D. C., S. D. N. Y., Doc. E 44/296, *Marmet, Ltd.*, v. *F. A. Whitney Carriage Co. et al.*

1,212,677, Prince & Prince, Combined brassière and girdle, D. C., S. D. N. Y., Doc. E 48/274, *The H. W. Gossard Co.* v. *Poirette Corsets, Inc.* Consent order of discontinuance Mar. 9, 1928.

1,269,134, M. J. Trumble, Crude-petroleum and natural-gas separator, filed Mar. 5, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–52–J, *F. M. Townsend et al.* (*Trumble Gas Trap Co.*) v. *Union Tank & Pipe Co.*

1,391,750, R. C. Montgomery, Straw hat, D. C., S. D. N. Y., Doc. E 42/274, *Knox Hat Co., Inc.*, v. *Saks & Co., Inc.* Consent order of discontinuance Mar. 10, 1928.

1,436,394, P. E. Hawkinson, Process of repairing pneumatic tires and an improved patch, D. C., S. D. N. Y., Doc. E 34/323, *The Kokawke Mfg. Co.* v. *The Eastern Tire & Rubber Co., Inc.* Patent held valid and infringed Mar. 13, 1928.

1,464,162. (See 1,651,081.)

1,526,091, P. H. Robbins, Corset, D. C., S. D. N. Y., Doc. E 36/354, *Poirette Corsets, Inc.*, v. *The H. W. Gossard Co.* Patent sustained Mar. 9, 1928.

1,530,200, Richardson & Coggeshall, System of wiring conduits for building construction, appeal filed Mar. 1, 1928, C. C. A., 2d Cir., Doc. 9980, *The Fibre Conduit Co.* v. *The Bankamerio Corp. et al.*

1,553,993, W. R. Delaney, Millinery box, D. C., S. D. N. Y., Doc. E 34/335, *G. H. Brick et al.* (*Brick & Ballerstein*) v. *S. Rappaport.* Patent sustained Mar. 9, 1928.

1,561,836, N. Q. Donnelly, Apron, filed Mar. 8, 1928, D. C. Md., Doc. E 1865, *Donnelly Garment Co.* v. *O. G. Taylor et al.* (*Taylor & French*). Doc. E 1866, *Donnelly Garment Co.* v. *A. S. Katzenberg et al.* Doc. E. 1867, *Donnelly Garment Co.* v. *M. Zallis.*

1,566,047, M. B. Solomon, Tray structure, D. C., S. D. N. Y., Doc. E 36/176, *American Tray Co., Inc.*, v. *New York Tray Co.* Patent sustained Mar. 6, 1928.

1,617,094, C. Atherton, Remote control valve, D. C., S. D. Calif. (Los Angeles), Doc. E M–61–J, *Hy-Lo Unit & Metal Products Co.* v. *Pasadena Heating Co. et al.* Dismissed with prejudice Feb. 9, 1928.

1,619,765, G. B. Ridley, Desiccator, filed Feb. 21, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E N–42–J, *E. B. Ward* v. *G. I. Bauer.*

1,641,840, R. C. Enyart, Fluid meter, filed Feb. 20, 1928, D. C. Ind. (Indianapolis), Doc. 1132, *The P. H. & F. M. Roots Co.* v. *The Connersville Blower Co.*

1,645,940, R. A. Tariel, Spare-tire advertising sign, filed Feb. 28, 1928, D. C., N. D. Calif. (Sacramento), Doc. E 260, *R. A. Tariel* v. *C. D. Duffus.*

1,651,081, D. M. Bardon, Choker hook; 1,464,162, O. A. Wirkkala, same; Re. 16,413, J. D. McIntosh, Wire-rope-connecting means, filed Feb. 18, 1928, D. C. Oreg. (Portland), Doc. E 3952, *D. M. Bardon et al.* v. *W. A. Pittenger Co.*

1,653,841, H. W. Carlough, Hair-waving pad, filed Feb. 29, 1928, D. C. R. I. (Providence), Doc. 291, *Keen Waving Co. Inc.*, v. *J. Sarubi Co.*

Re. 12,725, Inwood & Lavenberg, Box; 1,128,144, same, Combined carriage and former for wire-bound-box machine; 1,128,145, same, means for making box blanks; 1,128,252, same, Method of making boxes, C. C. A., 7th Cir., Doc. 3650 *Wirebounds Patents Co. et al.* v. *H. R. Gibbons Box Co.* Decree affirmed in part, reversed in part, Feb. 6, 1928.

Re. 14,419, J. F. Mackay, Brooder, filed Feb. 20, 1928, D. C., W. D. Mich. (S. Div.), Doc. 2129, *The Buckeye Incubator Co.* v. *Kalamazoo Stove Co.*

Re. 16,413. (See 1,651,081.)

T. M. 8,536, T. M. 85,150, T. M. 111,893, Lambert & Co., Chemical or medical preparations; T. M. 41,413, Lambert Pharmacal Co., Toilet preparation; T. M. 45,682, same, Medicinal preparation; T. M. 38,511, T. M. 57,563, same, Soap; T. M. 55,690, same, Tooth powder; T. M. 73,334, same, Talcum powder; T. M. 168,134, same, Medicated tablet; T. M. 203,366, same, Cold cream; T. M. 221,121, same, Bath salts; T. M. 118,052, same, Tooth paste, D. C., S. D. Tex. (Houston), Doc. E 318, *Lambert Pharmacal Co.* v. *Listerated Co. et al.* Final decree, injunction made permanent, Feb. 17, 1928.

T. M. 38,511. (See T. M. 8,536.)

T. M. 41,413. (See T. M. 8,536.)

T. M. 45,682. (See T. M. 8,536.)

T. M. 53,937, T. M. 53,938, Schulke & Mayr, Disinfectant and antiseptic; T. M. 128,764, T. M. 137,640, Lehn & Fink, Inc., same; T. M. 135,729, same, Soap and shaving cream; T. M. 225,545, Lysol, Inc., same; T. M. 224,321, same, Disinfectant and antiseptic, filed May 27, 1927, D. C., S. D. Tex. (Galveston), Doc. E 176, *Lysol, Inc.*, v. *S. H. Stanton (Island City Drug Store)*. Final decree Feb. 13, 1928. Doc. E 177, *Lysol, Inc.*, v. *R. Millasich (Sea Wall Drug Store)*. Decree as above.

T. M. 53,938. (See T. M. 53,937.)

T. M. 55,690. (See T. M. 8,536.)

T. M. 57,563. (See T. M. 8,536.)

T. M. 73,334. (See T. M. 8,536.)

T. M. 85,150. (See T. M. 8,536.)

T. M. 111,893. (See T. M. 8,536.)

T. M. 118,052. (See T. M. 8,536.)

T. M. 128,764. (See T. M. 53,937.)

T. M. 135,729. (See T. M. 53,937.)

T. M. 137,640. (See T. M. 53,937.)

T. M. 168,134. (See T. M. 8,536.)

T. M. 203,366. (See T. M. 8,536.)

T. M. 221,121. (See T. M. 8,536.)

T. M. 224,321. (See T. M. 53,937.)

T. M. 225,545. (See T. M. 53,937.)

Trade-Marks Canceled.

85,680. Fresh celery. Prairie Side Celery Co., Tecumseh, Mich. Registered March 5, 1912. Canceled March 19, 1928.

86,180. Computing machines. Charles Twining, New York, N. Y. Registered April 16, 1912. Canceled April 7, 1928.

86,775. Disinfectants and insecticides. Barrett Manufacturing Company, New York, N. Y. Registered June 4, 1912. Canceled March 19, 1928.

111,064. Soaps. Walter Edson Andrews, New York, N. Y. Registered June 20, 1916. Canceled April 7, 1928.

111,954. Calculating machines. Arthur W. Lawrence, New York, N. Y. Registered August 15, 1916. Canceled April 7, 1928.

121,308. Citrus fruits and fresh vegetables. The Lakeland Company, Lakeland, Fla. Registered April 23, 1918. Canceled March 19, 1928.

137,993. Fountain pens and pen points. Edison Pen Company, Incorporated, Petersburg, Va. Registered December 14, 1920. Canceled March 19, 1928.

160,111. Lard, hams, and bacon. Power Packing Plant, Nashville, Tenn. Registered October 10, 1922. Canceled March 19, 1928.

164,144. Nonpoisonous antiseptic and germicide. Ralph W. Yengling, doing business as The Rasol Co., Youngstown, Ohio. Registered February 13, 1923. Canceled March 19, 1928.

179,865. Oats for use as stock feed. Embry B. Anderson, Memphis, Tenn. Registered February 19, 1924. Canceled March 19, 1928.

189,563. Nonalcoholic, maltless carbonated beverages. H. B. Hunter Company, Inc., Norfolk, Va. Registered September 23, 1924. Canceled April 7, 1928.

196,363. Ladies' hats. Pope-Maloney Millinery Company, Louisville, Ky. Registered March 17, 1925. Canceled March 19, 1928.

197,290. Butter. Arthur Co-Operative Creamery Co., Platteville, Wis. Registered April 14, 1925. Canceled March 27, 1928.

199,535. Compound for shortening, baking, and cooking. The Baltimore Butterine Company, Baltimore, Md. Registered June 9, 1925. Canceled March 19, 1928.

205,306. Golf balls. Davega, Inc., New York, N. Y. Registered November 3, 1925. Canceled March 19, 1928.

208,927. Motion-picture films. Film Booking Offices of America, Inc., New York, N. Y. Registered February 9, 1926. Canceled March 19, 1928.

218,151. Chewing laxative. William Francis Miller, New York, N. Y. Registered September 21, 1926. Canceled April 7, 1928.

218,510. Water softener. W. E. Callane & Sons, Indianapolis, Ind. Registered September 28, 1926. Canceled March 19, 1828.

228,001. Coal. Coal Hill Mining Company, Inc., Du Bois, Pa. Registered May 17, 1927. Canceled March 19, 1928.

230,615. Certain named medicinal preparation. Klerex, Inc., Indianapolis, Ind. Registered August 2, 1927. Canceled March 27, 1928.

233,123. Certain named polishing and cleaning solutions. John Quincy Adams, Philadelphia, Pa. Registered September 20, 1927. Canceled April 7, 1928.

233,427. Certain named canned fruits and vegetables. Middle States Packing Company, Chicago, Ill. Registered September 27, 1927. Canceled March 19, 1928.

234,578. Men's hats and caps. Levitt Hat Co., Inc., New York, N. Y. Registered November 1, 1927. Canceled March 27, 1928.

Adjudicated Patents.

(C. C. A. N. Y.) The Sulzberger patent, No. 1,038,227, for chewing gum containing phenolpthalein, *Held* invalid and if valid, not infringed. *Health Products Corporation* v. *Ex-Lax. Mfg. Co.*, 24 F. (2d) 245.

(D. C. Ill.) The Boyce patent, No. 1,090,776, for indicating system and apparatus for internal-combustion engines, claims 1–5 *Held* valid and infringed. *Boyce* v. *Semaphoric Indicator Co.*, 24 F. (2d) 248.

(C. C. A. Cal.) The Hicks patent, No. 1,518,067, for electric wall heater, claims 9 to 17 *Held* not infringed. *Majestic Electric Appliance Co.* v. *Hicks*, 24 F. (2d) 165.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 24, 1928.

[VOL. 369. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1.

Raw or Partly-Prepared Materials.

Ser. No. 227,736. FRIED-LANG LEATHER CO., INC., New York, N. Y. Filed Feb. 24, 1926.



No claim is made to the right to the exclusive use of any of the wording with the exception of the letters F.—L. except in the setting and relation in which they appear in the drawing.

Particular description of goods.—Leather.

Claims use since April, 1921.

Ser. No. 254,146. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands. Filed Aug. 30, 1927.

SUMMUM

Particular description of goods.—Raw Wool, Artificial Straw, Artificial Horsehair, Staple Fibers and Mixed Fibers in the Raw State of Silk, Wool, Cotton, Mercerized Cotton, and Linen; and Staple Fibers and Mixed Fibers in the Raw State of Artificial Silk, Artificial Wool, Artificial Cotton, Artificial Mercerized Cotton, and Artificial Linen.

Claims use since Mar. 20, 1926.

Ser. No. 260,806. CONSOLIDATED RENDERING COMPANY, doing business as Atlantic Packing Company, Boston, Mass. Filed Jan. 28, 1928.

ATLANTIC PACKING COMPANY

Particular description of goods.—Wool Shorn from Sheep, Furs, and Bone for Manufacturing Purposes.

Claims use since about February, 1906.

Ser. No. 261,062. IVES ICE AND COAL COMPANY, North Tonawanda, N. Y. Filed Feb. 2, 1928.



No claim is made to the word "Coal" apart from the mark shown.

Particular description of goods.—Coal.

Claims use since Nov. 25, 1927.

Ser. No. 261,213. SCHROETER COAL COMPANY, St. Louis, Mo. Filed Feb. 4, 1928.

HOME COMFORT

Particular description of goods.—Coal.

Claims use since Sept. 1, 1922.

Ser. No. 261,406. VELDOWN COMPANY, INC., New York, N. Y. Filed Feb. 8, 1928.

SWANFLEECE

Particular description of goods.—Cellulose Wadding.

Claims use since January, 1927.

Ser. No. 261,799. THE DELAWARE, LACKAWANNA & WESTERN COAL COMPANY, New York, N. Y. Filed Feb. 17, 1928.

BLUE MARK

Particular description of goods.—Coal.
Claims use since Jan. 19, 1928.

CLASS 2.

Receptacles.

Ser. No. 226,352. THE GLASCOTE COMPANY, Euclid, Ohio. Filed Jan. 25, 1926.

GLASCOTE

Particular description of goods.—Enameled Tanks for Use in the Manufacture of, Transportation, and Storage of Liquid Products.
Claims use since December, 1919.

Ser. No. 245,039. WESTERN ENVELOPE CORPORATION, Brooklyn, N. Y. Filed Feb. 28, 1927.

"WESTENCO"

Particular description of goods.—Paper Boxes, Cartons, and Merchandise Envelopes.
Claims use since Feb. 9, 1927.

Ser. No. 258,841. ST. LOUIS LABEL WORKS, St. Louis, Mo. Filed Dec. 12, 1927.

Jim Dandy



Particular description of goods.—Paper Boxes.
Claims use since Feb. 24, 1927.

Ser. No. 261,905. FRANK A. PIKE, Rochester, N. Y. Filed Feb. 18, 1928.

PI-K Products

No claim is made for the word "Products" apart from the mark as shown.
Particular description of goods.—Underground Garbage Containers.
Claims use since Mar. 1, 1927.

CLASS 3.

Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 261,050. DUTCHESS MFG. CO., Poughkeepsie, N. Y. Filed Feb. 2, 1928.

Hull Workshop

Particular description of goods.—Hand Bags and Other Fancy Bags, Work Bags, and Novelty Bags of Textile Material All in the Nature of Hand Bags.
Claims use since Nov. 1, 1927.

CLASS 4.

Abrasive, Detergent, and Polishing Materials.

Ser. No. 260,280. H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Jan. 18, 1928. Under 10-year proviso.

FRANKLIN

Particular description of goods.—Soap Flakes.
Claims use since 1885.

Ser. No. 261,507. RICHARD C. HARRISON, doing business as Harrison & Company, Haverhill, Mass. Filed Feb. 10, 1928.

4A

Particular description of goods.—Valve-Grinding Compounds.
Claims use since Feb. 4, 1928.

Ser. No. 261,508. RICHARD C. HARRISON, doing business as Harrison & Company, Haverhill, Mass. Filed Feb. 10, 1928.

DOUBLE SIDED 4A RAZOR HONE

Exclusive rights to the use of the words "Double Sided Razor Hone" is disclaimed except in connection with the mark as shown.
Particular description of goods.—Razor Hone.
Claims use since Feb. 4, 1928.

Ser. No. 261,971. MARIE EARLE, INC., New York, N. Y. Filed Feb. 20, 1928.

Marie Earle

The trade-mark consists of the words "Marie Earle" written in the handwriting of Juanita Ebbsmith, a member of the original firm of Marie Earle.
Particular description of goods.—Soap.
Claims use since 1923.

Ser. No. 262,508. CHROME LIQUID, INC., Chicago, Ill. Filed Mar. 2, 1928.

-KRO-MO-NIZE-

Particular description of goods.—Liquid Metal Polish.
Claims use since Feb. 23, 1928.

Ser. No. 262,526. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Mar. 2, 1928.

MAJESTIC

Particular description of goods.—Leather Dressing.
Claims use since Dec. 10, 1927.

Ser. No. 262,959. THE GREAT AMERICAN TEA CO., New York, N. Y. Filed Mar. 10, 1928.

Golden Key

Particular description of goods.—Stove and Metal Polish.
Claims use since January, 1925.

Ser. No. 263,066. THE BAKER-FINLEY CHEMICAL COMPANY, Cleveland, Ohio. Filed Mar. 13, 1928.

DINA



The color lining on the drawing indicates red.
Particular description of goods.—Washing Compound.
Claims use since Jan. 12, 1928.

CLASS 5.

Adhesives.

Ser. No. 243,196. WENDELL J. CALEY, doing business as Titite Company, Bala, Pa. Filed Jan. 22, 1927.



The words "Trade-Mark" and "Super Paste" are disclaimed apart from the mark shown.
Particular description of goods.—Adhesive Mending Fluid.
Claims use since Jan. 1, 1925.

Ser. No. 261,690. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Feb. 15, 1928.

POLAR BEAR

Particular description of goods.—Adhesive Paste.
Claims use since Feb. 6, 1928.

Ser. No. 262,359. HENNING-OBLA BRUHN, Copenhagen, Denmark. Filed Feb. 28, 1928.



Particular description of goods.—Glues and Mucilages.
Claims use since Sept. 21, 1927.

CLASS 6.

Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 229,148. CHEMISCHE FABRIK "PROMONTA" GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hamburg, Germany. Filed Mar. 25, 1926.

„Promonta"

Particular description of goods.—Chemical and Organotherapeutical Preparations Indicated for Treating Malnutrition, Neurasthenia, Chlorosis, Anæmia, Hypotrophy, Avitaminoses, Tuberculosis, and the Convalescent; Kidney, Corn, Bunion, and Rheumatism Plasters; Chemical Preparations Used as Rodent and Plant Exterminators, Disinfectants, Chemical Food Preservatives, Perfumery, Hair Tonics, Toilet Powders, Toilet Creams and Rouges, Essential Oils, Toilet Lotions, Dyes, Chemical Bleaches and Bleaching Powders; Laundry Starch, Laundry Bluing, and Scouring and Fulling Preparations for Textiles.
Claims use since October, 1919.

Ser. No. 250,233. CHRISTY DOUNSTIDES, Burlington, Vt. Filed June 9, 1927.



The words "Dressing," "Hair," and "Brilliant" are disclaimed.
Particular description of goods.—Hair Tonic.
Claims use since May 1, 1927.

Ser. No. 251,413. DR. F. RASCHIG, Ludwigshafen-on-the-Rhine, Germany. Filed July 1, 1927.

Neso

Particular description of goods.—Preparation for the Treatment of Colds.
Claims use since Feb. 15, 1926.

Ser. No. 252,537. ROBERT L. TUGGLE, Louisville, Ky. Filed July 25, 1927.

RUST-I-CATE

Particular description of goods.—Rust Remover and Corrosion Preventer Consisting of a Chemical Composition to be Applied to Metal Surfaces to Remove Rust and Prevent Corrosion.
Claims use since Sept. 29, 1926.

Ser. No. 253,883. IDA MAY FOLSOM, doing business as Mrs. George W. Folsom, McAllen, Tex. Filed Aug. 24, 1927.

VAL-RIE

Particular description of goods.—Preparation for the Complexion.
Claims use since June 14, 1924.

Ser. No. 255,202. REED & CARNRICK, Jersey City, N. J. Filed Sept. 24, 1927. Under 10-year proviso.

REED & CARNRICK

Particular description of goods.—Medicinal Preparations—Namely, Glandular Products, for Use in the Treatment of Functional Indigestion, Gastritis, Dyspepsia, Duodenal Catarrh, Vomiting of Pregnancy, Loss of Appetite, Heartburn, Gastralgia, Neurasthenia, Malnutrition, Debility, Acute Infection, Nephritis, Uremia, Malfunctioning or Disfunctioning of the Ovaries and the Testicles and Related Glands, Constipation, Intestinal Indigestion, Postoperative Treatment, Gall Stones, to Restore Pancreative Activity, Rheumatism, Gout, Also General Tonics, Nose, Eye, and Throat Washes, Antiseptics, Prophylactics, and Germicidals.
Claims use since 1860.

Ser. No. 256,477. MORTON G. NEUMANN, doing business as Valmor Chemical Laboratories, Chicago, Ill. Filed Oct. 22, 1927.

GRO-STRATE

Particular description of goods.—Hair Pomade.
Claims use since May 2, 1927.

Ser. No. 257,581. FRED W. HOUGHTON, doing business as Burly Drug Company, Lansing, Mich. Filed Nov. 15, 1927.

WA-KE-ZA

Particular description of goods.—Preparation for Sore Feet.
Claims use since Mar. 30, 1916.

Ser. No. 257,998. FRANK EARNEST SANDERS, doing business as Prevento Company, Alliance, Nebr. Filed Nov. 23, 1927.

Prevento

Particular description of goods.—Medicinal Preparation for Tonsilitis, Poison Ivy, Piles, Itch, Eczema, Catarrh, Hay Fever, Gonorrhea, Vaginitis, Granulated Womb, Ovarian Troubles, Leucorrhea, Painful Menstruation, Vaginismus, Pruritus Vulve, Pyorrhea, and Stomach Trouble.
Claims use since 1895.

Ser. No. 258,070. COTY, INC., Wilmington, Del., and New York, N. Y. Filed Nov. 26, 1927.

TANDEM

Particular description of goods.—Perfume Droppers Having in Combination Therewith a Lipstick.
Claims use since Oct. 20, 1927.

Ser. No. 258,806. STEPHEN FARGO, Cleveland, Ohio. Filed Dec. 12, 1927.

KIK

Particular description of goods.—Preparation for the Treatment of Corns, Bunions, and Warts.
Claims use since May 3, 1927.

Ser. No. 258,918. STEINHARDT & Co., New Orleans, La. Filed Dec. 14, 1927.

TOP-NOTCH

Particular description of goods.—Chemically Treated Fuller's Earth, for Use as a Bleaching Powder, for Decolorizing Oils, Fats, and Greases.
Claims use since Apr. 15, 1927.

Ser. No. 258,960. JOSEPH SILBERMAN, doing business as Corinthian Pharmacy, Philadelphia, Pa. Filed Dec. 15, 1927.

JAY-SAL

Particular description of goods.—Medicinal Liquid Preparation of Great Value as an Anodyne, Nongreasy, Readily Absorbed by the Skin without Producing Irritation, Relieves Pain Promptly, Antirheumatic, and Analgesic.
Claims use since Mar. 20, 1926.

Ser. No. 259,047. HARRY P. CHAPMAN, doing business as Chapman Drug Co., Yazoo City, Miss. Filed Dec. 17, 1927.

PYXOL

Particular description of goods.—Antiseptic in the Form of a Solution.
Claims use since on or about Apr. 1, 1920.

Ser. No. 259,503. REICHMAN & FAUST, New York, N. Y. Filed Dec. 30, 1927.

FINGER/ET

Particular description of goods.—Hair Lotion.
Claims use since Nov. 15, 1926.

Ser. No. 259,678. ABRAHAM E. GLICKMAN, doing business as Roxy Perfumer, Brooklyn, N. Y. Filed Jan. 4, 1928.

ROXY

Particular description of goods.—Perfumes, Toilet Waters, Facial Creams, Lotions.
Claims use since June, 1926.

Ser. No. 261,806. CREOFLOAT MANUFACTURING CO., INC., Seattle, Wash. Filed Feb. 7, 1928.



No exclusive rights are claimed in the words "Trade Mark."
Particular description of goods.—Moth Repellant
Claims use since on or about Nov. 1, 1927.

Ser. No. 261,619. MONROE A. FER-DON, doing business as Fer-Don, Indianapolis, Ind. Filed Feb. 13, 1928.

"Sansoris"

Particular description of goods.—Medicinal Wash Having Antiseptic, Deodorant, and Astringent Properties.
Claims use since July, 1927.

Ser. No. 261,646. HENRY M. PHILLIPS, doing business as Henry M. Phillips Co., Goodman, Mo. Filed Feb. 13, 1928.



The words "Pine" and "Cough Syrup" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Cough Syrup.
Claims use since November, 1924.

Ser. No. 261,788. WM. H. BROWN & BRO. COMPANY, Baltimore, Md., and New York, N. Y. Filed Feb. 17, 1928.

BULK-O-LETS

Particular description of goods.—Perfumes.
Claims use since Feb. 8, 1927.

Ser. No. 261,894. THE MARTIN DENNIS COMPANY, Newark, N. J. Filed Feb. 18, 1928.

CHROMOL

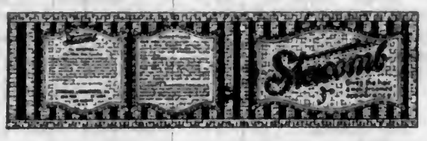
Particular description of goods.—Kind of Leather Stuffing Known as Fat Liquor.
Claims use since May 29, 1895.

Ser. No. 261,917. MEYER TOBIN, doing business as Alkine Laboratories, New Brunswick, N. J. Filed Feb. 18, 1928.

ALKINE

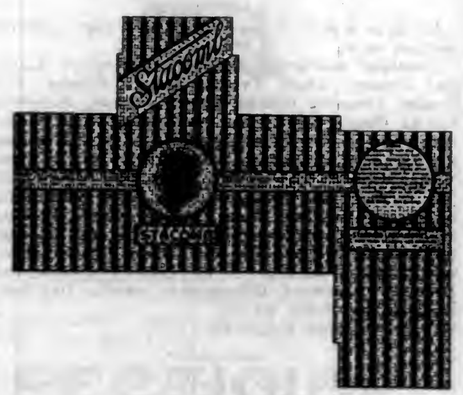
Particular description of goods.—Preparation for Neuritis, Gouty or Rheumatic Conditions.
Claims use since Jan. 15, 1927.

Ser. No. 261,930. STANDARD LABORATORIES, INC., New York, N. Y. Filed Feb. 20, 1928.



Applicant disclaims exclusive right to the wording appearing upon the drawing with the exception of "Stacomb" and "Standard Laboratories, Inc." The lining on the drawing indicates the colors gold and yellow.
Particular description of goods.—Pomades for the Hair.
Claims use since August, 1921.

Ser. No. 261,931. STANDARD LABORATORIES, INC., New York, N. Y. Filed Feb. 20, 1928.



Applicant disclaims exclusive right to the wording appearing upon the drawing with the exception of "Stacomb" and "Standard Laboratories, Inc." The lining on the drawing indicates the colors gold and yellow.
Particular description of goods.—Pomades for the Hair.
Claims use since August, 1921.

Ser. No. 261,982. SAMUEL PAUL, doing business as The Hollywood Laboratory, Los Angeles, Calif. Filed Feb. 20, 1928.

PAUL'S
VITAMIN WINE TONIC
(VITADIASTONE)

Samuel Paul

The signature forming a part of the mark is a facsimile of applicant's. The words "Vitamin Wine Tonic" are disclaimed apart from the mark shown.
Particular description of goods.—General Tonic Having a Wine Base.
Claims use since Jan. 25, 1928.

Ser. No. 262,051. BERGDORF & GOODMAN COMPANY, New York, N. Y. Filed Feb. 23, 1928.

No. 102
made in
PARIS
expressly for
BERGDORF
GOODMAN

No claim is made to the words "Made in Paris Expressly for" except in connection with the other elements of the trademark.
Particular description of goods.—Toilet Articles—Namely, Perfume, Toilet Water, Face Powder.
Claims use since Oct. 1, 1927.

Ser. No. 262,064. EDWARD B. CRUMP, Louisville, Ky. Filed Feb. 28, 1928.



Dr. Crump's Never Fail
HAIR RESTORER
REMOVES DANDRUFF
STOPS SCALP ITCHING
AND FALLING HAIR
Restores Natural Color
Regardless of Age
No Dye
FORMULA OF
Dr. Edward B. Crump
510 REPUBLIC BLDG
LOUISVILLE, KENTUCKY
SHAKE WELL

No claim is made to the wording except applicant's name apart from the mark shown in the drawing. The portrait is that of applicant.
Particular description of goods.—Hair Restorer.
Claims use since January, 1927.

Ser. No. 262,107. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Feb. 23, 1928.



Particular description of goods.—Product for Use as a Laxative.
Claims use since Feb. 6, 1928.

Ser. No. 262,111. THE MILSON COMPANY, Cincinnati, Ohio. Filed Feb. 23, 1928.

LaMysteree

Particular description of goods.—Toilet Water, Perfumes, Face Powder, Talcum Powder, Bath Powder, Face and Skin Creams, Face and Skin Lotions.
Claims use since about Jan. 10, 1928.

Ser. No. 262,225. JULIUS KRAMER, doing business as Goose Oil Mfg. Co., New York, N. Y. Filed Feb. 25, 1928.

GREESO RUB



Applicant hereby disclaims exclusive right to the use of the word "Rub" except as the same is used in connection with the other features of the mark shown on the drawing.
Particular description of goods.—Preparation for the Relief of Inflammation and Pain.
Claims use since Jan. 15, 1915.

Ser. No. 262,278. S. B. WRIGHT, doing business as Wright Products Co., Chicago, Ill. Filed Feb. 25, 1928.

GLAZIT

Particular description of goods.—Liquid Court Plaster.
Claims use since Feb. 7, 1928.

Ser. No. 262,279. S. B. WRIGHT, doing business as Wright Products Co., Chicago, Ill. Filed Feb. 25, 1928.

STOPIT

Particular description of goods.—Preparation for Stopping Runs in Hosiery and Silk.
Claims use since Feb. 7, 1928.

Ser. No. 262,365. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J., and New York, N. Y. Filed Feb. 28, 1928.

Mural-Scent

No claim is made to the word "Scent" apart from the mark as shown.
Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Feb. 9, 1928.

Ser. No. 262,368. MCCORMICK & CO., INCORPORATED, Baltimore, Md. Filed Feb. 28, 1928.



The drawing is lined for the color red. No claim is made to the word "Insect" apart from the mark as shown.
Particular description of goods.—Insecticide.
Claims use since about Jan. 15, 1928.

Ser. No. 262,416. CHARLES D. SCOTT, doing business as Formozone Chemical Co., Trenton, N. J. Filed Feb. 29, 1928.



Particular description of goods.—Antiseptic Wafers Used as an Antiseptic, Germicide, Disinfectant, Resolvent, Deodorant, Detergent, Stimulant, Astringent, and Alterative for the Treatment of Diseases of Women.
Claims use since 1909.

Ser. No. 262,470. CASIMIR A. LESIAK, doing business as Karnack-Ambrosia Co., Scranton, Pa. Filed Mar. 1, 1928.

LEKO-TORIA

Particular description of goods.—Medicinal Preparation in Liquid Form for the Treatment of Stomach, Kidney, and Liver Ailments, Piles, Weak Nerves, Heartburn, Rheumatic and Gouty Pains, and Lung Inflammation.
Claims use since December, 1927.

Ser. No. 262,531. JOHN E. SCOTT, Jersey City, N. J. Filed Mar. 2, 1928.

BLACK FLAG



Particular description of goods.—Liniment for External Use Only in the Treatment of Lumbago, Muscular Rheumatism, Wind Colic, Acute Pleurisy, Spasmodic Croup, Chilblains, Mosquito Bites, Soreness and Stiffness of Joints and Muscles, Neuralgia, Toothache, Bruises, Sprains, Enlarged Joints, and Asthma and Cold in the Chest or Lungs.
Claims use since May, 1924.

Ser. No. 262,627. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 5, 1928.

FECTICIDE

Particular description of goods.—Disinfectant.
Claims use since Nov. 26, 1927.

Ser. No. 262,732. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

LERAX

Particular description of goods.—Nose and Throat Spray and Gargle.
Claims use since Nov. 18, 1927.

Ser. No. 262,736. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

LAVAGGIO

Particular description of goods.—Nose and Throat Spray and Gargle and Mouth Wash.
Claims use since Nov. 18, 1927.

Ser. No. 262,738. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

GRIPTONE

Particular description of goods.—Cold and Grip Tablets.
Claims use since Nov. 18, 1927.

Ser. No. 262,739. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

RINSORA

Particular description of goods.—Nose and Throat Spray and Gargle.
Claims use since Nov. 28, 1927.

Ser. No. 262,740. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

IBANA

Particular description of goods.—Eye Wash.
Claims use since Nov. 18, 1927.

Ser. No. 262,752. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

MAGNEX

Particular description of goods.—Magnesium Hydroxide.
Claims use since Nov. 18, 1927.

Ser. No. 262,757. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

LAVEGE

Particular description of goods.—Nose and Throat Spray and Gargle.
Claims use since Nov. 18, 1927.

Ser. No. 262,954. COMPAGNIE MÉTALLURGIQUE DE LA CAMPINE SOC. AN., Antwerp, Belgium. Filed Mar. 10, 1928.



Particular description of goods.—Antimony Oxide.
Claims use since October, 1925.

Ser. No. 263,213. THE HOWELL COMPANY, INC., New Orleans, La. Filed Mar. 15, 1928.

999

Particular description of goods.—Preparation for Chills, Fever, Colds, and La Grippe.
Claims use since 1910.

Ser. No. 262,107. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Feb. 23, 1928.



Particular description of goods.—Product for Use as a Laxative.
Claims use since Feb. 6, 1928.

Ser. No. 262,111. THE MILSON COMPANY, Cincinnati, Ohio. Filed Feb. 23, 1928.

LaMysteree

Particular description of goods.—Toilet Water, Perfumes, Face Powder, Talcum Powder, Bath Powder, Face and Skin Creams, Face and Skin Lotions.
Claims use since about Jan. 10, 1928.

Ser. No. 262,225. JULIUS KRAMER, doing business as Goose Oil Mfg. Co., New York, N. Y. Filed Feb. 25, 1928.

GREESO RUB



Applicant hereby disclaims exclusive right to the use of the word "Rub" except as the same is used in connection with the other features of the mark shown on the drawing.
Particular description of goods.—Preparation for the Relief of Inflammation and Pain.
Claims use since Jan. 15, 1915.

Ser. No. 262,278. S. B. WRIGHT, doing business as Wright Products Co., Chicago, Ill. Filed Feb. 25, 1928.

GLAZIT

Particular description of goods.—Liquid Court Plaster.
Claims use since Feb. 7, 1928.

Ser. No. 262,279. S. B. WRIGHT, doing business as Wright Products Co., Chicago, Ill. Filed Feb. 25, 1928.

STOPIT

Particular description of goods.—Preparation for Stopping Runs in Hosiery and Silk.
Claims use since Feb. 7, 1928.

Ser. No. 262,365. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J., and New York, N. Y. Filed Feb. 28, 1928.

Mural-Scent

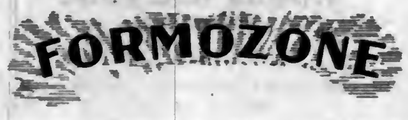
No claim is made to the word "Scent" apart from the mark as shown.
Particular description of goods.—Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Feb. 9, 1928.

Ser. No. 262,368. MCCORMICK & CO., INCORPORATED, Baltimore, Md. Filed Feb. 28, 1928.



The drawing is lined for the color red. No claim is made to the word "Insect" apart from the mark as shown.
Particular description of goods.—Insecticide.
Claims use since about Jan. 15, 1928.

Ser. No. 262,416. CHARLES D. SCOTT, doing business as Formozone Chemical Co., Trenton, N. J. Filed Feb. 29, 1928.



Particular description of goods.—Antiseptic Wafers Used as an Antiseptic, Germicide, Disinfectant, Resolvent, Deodorant, Detergent, Stimulant, Astringent, and Alterative for the Treatment of Diseases of Women.
Claims use since 1909.

Ser. No. 262,470. CASIMIR A. LESIAK, doing business as Karnack-Ambrosia Co., Scranton, Pa. Filed Mar. 1, 1928.

LEKO-TORIA

Particular description of goods.—Medicinal Preparation in Liquid Form for the Treatment of Stomach, Kidney, and Liver Ailments, Piles, Weak Nerves, Heartburn, Rheumatic and Gouty Pains, and Lung Inflammation.
Claims use since December, 1927.

Ser. No. 262,531. JOHN E. SCOTT, Jersey City, N. J. Filed Mar. 2, 1928.

BLACK FLAG



Particular description of goods.—Liniment for External Use Only in the Treatment of Lumbago, Muscular Rheumatism, Wind Colic, Acute Pleurisy, Spasmodic Croup, Chilblains, Mosquito Bites, Soreness and Stiffness of Joints and Muscles, Neuralgia, Toothache, Bruises, Sprains, Enlarged Joints, and Asthma and Cold in the Chest or Lungs.
Claims use since May, 1924.

Ser. No. 262,627. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 5, 1928.

FECTICIDE

Particular description of goods.—Disinfectant.
Claims use since Nov. 26, 1927.

Ser. No. 262,732. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

LERAX

Particular description of goods.—Nose and Throat Spray and Gargle.
Claims use since Nov. 18, 1927.

Ser. No. 262,736. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

LAVAGGIO

Particular description of goods.—Nose and Throat Spray and Gargle and Mouth Wash.
Claims use since Nov. 18, 1927.

Ser. No. 262,738. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

GRIPTONE

Particular description of goods.—Cold and Grip Tablets.
Claims use since Nov. 18, 1927.

Ser. No. 262,739. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

RINSORA

Particular description of goods.—Nose and Throat Spray and Gargle.
Claims use since Nov. 28, 1927.

Ser. No. 262,740. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

IBANA

Particular description of goods.—Eye Wash.
Claims use since Nov. 18, 1927.

Ser. No. 262,752. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

MAGNEX

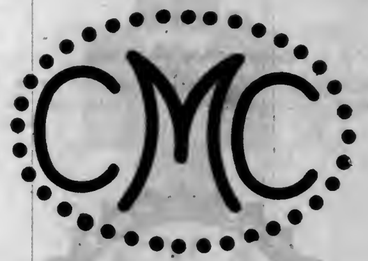
Particular description of goods.—Magnesium Hydroxide.
Claims use since Nov. 18, 1927.

Ser. No. 262,757. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

LAVEGE

Particular description of goods.—Nose and Throat Spray and Gargle.
Claims use since Nov. 18, 1927.

Ser. No. 262,954. COMPAGNIE MÉTALLURGIQUE DE LA CAMPINE SOC. AN., Antwerp, Belgium. Filed Mar. 10, 1928.



Particular description of goods.—Antimony Oxide.
Claims use since October, 1925.

Ser. No. 263,213. THE HOWELL COMPANY, INC., New Orleans, La. Filed Mar. 15, 1928.

999

Particular description of goods.—Preparation for Chills, Fever, Colds, and La Grippe.
Claims use since 1910.

CLASS 10.

Fertilizers.

Ser. No. 262,429. SYNTHETIC NITROGEN PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 29, 1928.



Particular description of goods.—Fertilizer.
Claims use since Jan. 15, 1928.

CLASS 11.

Inks and Inking Materials.

Ser. No. 262,042. THE SMITH PREMIER TYPEWRITER COMPANY, Syracuse and New York, N. Y. Filed Feb. 21, 1928.

UNIVERSAL

Particular description of goods.—Carbon Paper.
Claims use since about 1902.

CLASS 12.

Construction Materials.

Ser. No. 254,187. MANHATTAN TERRAZZO BRASS STRIP COMPANY, INC., New York, N. Y. Filed Aug. 31, 1927.



No registration rights are herein claimed for the words "The Strip Without It's Equal" and the word "Brand" apart from the rest of the mark.
Particular description of goods.—Strips for Terrazzo Flooring.
Claims use since July 1, 1925.

Ser. No. 256,250. GRAND RAPIDS VENEER WORKS, Grand Rapids, Mich. Filed Oct. 18, 1927.

PLASTICO

Particular description of goods.—Cement for Use on Kiln Walls and Roofs.
Claims use since 1924.

Ser. No. 257,875. THE J. W. MORTELL CO., Kankakee and Chicago, Ill. Filed Nov. 10, 1927.

Mortex

No claim is made to the words "Protects the Surface" apart from the mark shown on the drawing.
Particular description of goods.—Asphaltic Water-Proofing Materials, Asphaltic Dampproofing Materials, Cork Insulation, Floor Patching Material, and Asphaltic Protective Surface Covering.
Claims use since Sept. 1, 1927.

Ser. No. 259,264. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif. Filed Dec. 22, 1927.



The descriptive word "Brand" is disclaimed apart from the mark shown.
Particular description of goods.—Hydrated Lime and Quick Lime.
Claims use since about January, 1922.

Ser. No. 259,936. WEST PENN BRICK COMPANY, Latrobe, Pa. Filed Jan. 10, 1928.

PARAMOUNT

Particular description of goods.—Building Brick.
Claims use since July 10, 1927.

Ser. No. 260,554. CALIFORNIA STUCCO PRODUCTS COMPANY, Los Angeles, Calif. Filed Jan. 24, 1928.

STUCOUSTIC

Particular description of goods.—Plaster.
Claims use since Oct. 11, 1927.

Ser. No. 261,999. TRAVATEX PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 20, 1928.

TRAVATEX

Particular description of goods.—Tiles.
Claims use since early fall of 1926.

CLASS 13.

Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 245,385. WATEROUS FIRE ENGINE WORKS, INCORPORATED, St. Paul, Minn. Filed Mar. 7, 1927. Under 10-year proviso.

Waterous

Particular description of goods.—Fire Hydrants.
Claims use since about Dec. 1, 1886.

Ser. No. 249,898. GRINNELL COMPANY, INC., Providence, R. I. Filed June 2, 1927.

G

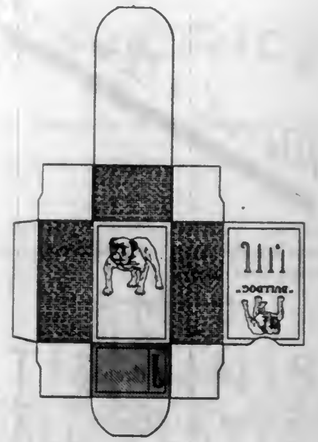
Particular description of goods.—Pipe Fittings, Valves and Cocks Composed Wholly or in Part of Metal, Automatic Sprinkler Systems, Dry Valve Accelerators, Water-Motor Gongs, Quarts Bulb Sprinklers, Retarding Chambers, Indicator Posts, Water-Motor Gong Hoods, Sprinkler Cabinets, Restriction Units for Alarm Valves, Sediment Strainers, Air Traps, Stationary Fire-Extinguishing Foam Tanks, Sight-Test Connections, Fire-Department Connections, Fire-Department Connection Plates, Hose Caps, Fusible Links, Pipe Hangers and Brackets.
Claims use since 1905.

Ser. No. 252,872. WOLFF MANUFACTURING CORPORATION, Chicago, Ill. Filed Aug. 1, 1927.



No claim is made to the words "Wolff" and "Enamel" apart from the trade-mark.
Particular description of goods.—Bathtubs, Sinks, and All Kinds of Lavatories.
Claims use since June 1, 1927.

Ser. No. 259,877. G. G. ROBERTS CORPORATION, Whitman, Mass. Filed Jan. 9, 1928.



The representation of the goods—namely, the nails, is disclaimed apart from the mark as shown; also the outline of a carton is disclaimed per se.
Particular description of goods.—Clinching Nails.
Claims use since 1909.

Ser. No. 260,571. FRED I. JADEN, doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Filed Jan. 24, 1928.

GOLDEN ROD

Particular description of goods.—Oil Cans.
Claims use since about February, 1925.

Ser. No. 261,962. WILLIAM C. KRABIEL, doing business as Bull Dog Floor Clip Company, Winterset, Iowa. Filed Feb. 20, 1928.

JUNIOR

Particular description of goods.—Metal Clips for Fastening Wood Floors or the Like to a Concrete Construction.
Claims use since Feb. 1, 1925.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 257,540. GARDNER & YATES, Bellefonte, Pa. Filed Nov. 14, 1927.

Mend-A-Lum

Particular description of goods.—Aluminum Solder.
Claims use since May 1, 1927.

CLASS 15.

Oils and Greases.

Ser. No. 254,572. THE CANFIELD OIL COMPANY, Cleveland, Ohio. Filed Sept. 10, 1927.



Wm. Penn

Particular description of goods.—Lubricating Oils.
Claims use since Mar. 20, 1920.

Ser. No. 256,335. COMBINED BUYERS LIMITED, Wellington, New Zealand. Filed Oct. 20, 1927.

COMBUYO

Particular description of goods.—Lubricating Oils, Lubricating Greases, Petrol, and Kerosene.
Claims use since Mar. 4, 1925.

Ser. No. 262,257. PENN PETROLEUM AND SUPPLY COMPANY, Philadelphia, Pa. Filed Feb. 25, 1928.

PENNLAND

Particular description of goods.—Lubricating Oil and Grease.
Claims use since Feb. 18, 1928.

Ser. No. 262,421. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Feb. 29, 1928.

VARSOL

Particular description of goods.—Refined, Semirefined. and Unrefined Oils Made from Petroleum, Both with and without Admixture of Animal, Vegetable, or Mineral Oils for Illuminating, Burning, Power, Fuel, and Lubricating Purposes, and Lubricating Greases.
Claims use since Jan. 4, 1928.

Ser. No. 262,518. E. R. JOSHUA, doing business as E. R. Joshua Oil Company, Youngstown, Ohio. Filed Mar. 2, 1928.

Okay

Particular description of goods.—Gasoline and Other Motor Fuels, Illuminating Oils, and Lubricating Oils and Greases.
Claims use since Feb. 17, 1928.

CLASS 16.

Paints and Painters' Materials.

Ser. No. 262,580. TRUSCON STEEL COMPANY, Detroit, Mich., doing business as The Truscon Laboratories, Hamtramck, Mich. Filed Mar. 3, 1928.

TRU SEAL

Particular description of goods.—Ready-Mixed Paints for Coating Metals.
Claims use since on or about June 21, 1927.

CLASS 17.

Tobacco Products.

Ser. No. 256,735. THE MEADS TOBACCO CO., Red Lion, Pa. Filed Oct. 28, 1927.

WEST

Particular description of goods.—Cigars, Chewing and Smoking Tobacco.
Claims use since October, 1918.

Ser. No. 261,118. GEORGE G. HAAXMA, doing business as M. Haaxma & Sons, Winthrop, Mass. Filed Feb. 8, 1928.

Colonial Bond

Particular description of goods.—Cigars.
Claims use since Feb. 15, 1920.

CLASS 19.

Vehicles, Not Including Engines.

Ser. No. 231,468. AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Filed May 12, 1926.

SHO-LITE

Particular description of goods.—Telltale Devices for Indicating Whether Lamps are Lighted or Unlighted.
Claims use since July 5, 1924.

Ser. No. 255,714. JOHN ISAACSON, Seattle, Wash. Filed Oct. 6, 1927.



Particular description of goods.—Stanchions, Davits, Stern Frames, Rudder Posts, Shackles, Shell Rings, Pile Rings, Axles, Mast Bands, and Truck Bodies.
Claims use since about 1910.

Ser. No. 260,890. INLAND MANUFACTURING COMPANY, Dayton, Ohio. Filed Jan. 30, 1928.

INLAND MANUFACTURING COMPANY DAYTON OHIO

The words "Dayton" and "Ohio" are disclaimed apart from the mark shown.
Particular description of goods.—Steering Wheels for Motor-Driven Vehicles.
Claims use since Oct. 1, 1924.

CLASS 21.

Electrical Apparatus, Machines, and Supplies.

Ser. No. 247,903. HALBERT G. MARSH, doing business as Acme Company, Birmingham, Ala. Filed Apr. 23, 1927.

MAVERICK

Particular description of goods.—Electric Smoothing Irons.
Claims use since on or about Jan. 10, 1927.

Ser. No. 249,225. HEMCO ELECTRIC MANUFACTURING COMPANY, INC., Bridgeport, Conn. Filed May 19, 1927.

HEMCO
SATIN FINISH
WALL PLATES

Applicant disclaims exclusive right to the words "Satin Finish" and "Wall Plates" apart from the mark shown in the drawing.
Particular description of goods.—Wall Plates for Switch Boxes.
Claims use since Aug. 1, 1926.

Ser. No. 258,688. GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill. Filed Dec. 9, 1927.

Majestic

Particular description of goods.—Radio Receiving Sets.
Claims use since Nov. 8, 1927.

Ser. No. 259,325. DEMCO, INCORPORATED, Baltimore, Md. Filed Dec. 24, 1927.

MARDO

Particular description of goods.—Electrical Apparatus, Machines, and Supplies Particularly Electric Grinders, Buffers, Pumps, Air Pumps, Compressors, Disc Grinders, Universal Saws for Wood or Metal, Polishes, Cleaners, Wood-Turning Lathes, Metal-Working Lathes, and Parts of Such Apparatus and Machines.
Claims use since Nov. 10, 1927.

Ser. No. 260,552. BRIGHT STAR BATTERY CO., Hoboken, N. J., doing business as Uneedit Battery Co., New York, N. Y. Filed Jan. 24, 1928.

REMAX

Particular description of goods.—Electric Batteries.
Claims use since Aug. 26, 1927.

Ser. No. 261,773. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 16, 1928.

HI-GLO

Particular description of goods.—Electric Lighting Fixtures and Electric Lamps.
Claims use since Oct. 28, 1927.

Ser. No. 261,855. THE AIR-CHROME STUDIOS, INC., Irvington, N. J. Filed Feb. 18, 1928.

AIR-CHROME

Particular description of goods.—Radio Loud Speakers.
Claims use since Sept. 15, 1927.

Ser. No. 261,925. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Feb. 18, 1928.



Particular description of goods.—Electric Household Irons—to wit, Sadirons.
Claims use since Aug. 16, 1927.

CLASS 22.

Games, Toys, and Sporting Goods.

Ser. No. 248,022. THE PERFECTION MANUFACTURING COMPANY, St. Louis, Mo. Filed May 12, 1927.

Rock-A-Bye

Particular description of goods.—Children's Swings with or without Supporting Stands, Children's Jumper Swings, Baby Toddlers, Children's Toy Rocking-Chairs or Shoofflies, Doll Sulkies, Doll Swings, Doll Beds, and Doll Rockers.
Claims use since June, 1916.

Ser. No. 258,430. S C & E MANUFACTURING CORPORATION, New York, N. Y. Filed Dec. 3, 1927.

IDEAL

Particular description of goods.—Punching Bags, Punching-Bag Gloves, Boxing Gloves, Protective Head Gear Including Boxing and Football Head Gear, Dummy Bags, Knuckle Protectors, Boxer's Hand Bandages, Skates, Knee and Elbow Pads, Skate Scabbards and Straps.
Claims use since Dec. 1, 1924.

Ser. No. 261,247. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Feb. 6, 1928.

CAPTAIN

Particular description of goods.—Fishing Reels.
Claims use since on or about Dec. 1, 1927.

Ser. No. 261,248. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Feb. 6, 1928.

TOPIC

Particular description of goods.—Fishing Reels.
Claims use since on or about Dec. 1, 1927.

Ser. No. 262,501. ADVERTISING GOLF BALL CORPORATION, New York, N. Y. Filed Mar. 2, 1928.

COUNTRY CLUB

Particular description of goods.—Golf Balls.
Claims use since January, 1928.

CLASS 23.

Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 253,841. J. A. HENCKELS, Solingen, Germany. Filed Aug. 23, 1927.

Twins

Particular description of goods.—Scissors, Shears, and Razors.
Claims use since Aug. 26, 1926.

Ser. No. 254,275. FINNELL SYSTEM, INC., Elkhart, Ind. Filed Sept. 2, 1927.

FINNELL SYSTEM OF POWER SCRUBBING

No claim is made to the words "System of Power Scrubbing" apart from the mark shown.
Particular description of goods.—Floor Treating Machines for Domestic and Commercial Use—Namely, Scrubbing Machines; Sanding, Waxing, and Polishing Machines; Mop Trucks (Transportable Structures Arranged to Support Hand-Operated Mopping Apparatus), Mopping Machinery (Apparatus Adapted to be Propelled Along the Floor Manually or Otherwise and Embodying Mechanically-Acting Means Associated with the Floor Surface for Rinsing the Same and for Collecting and Removing Dirt and Fluid Therefrom), Water Absorbsers (Transportable Mopping Apparatus Embodying Manually or Mechanically Operated Means for Collecting and Removing Dirt and Fluid from the Floor Surface), and Powder Distributors.
Claims use since June 15, 1916.

Ser. No. 258,621. CLUSOR, INCORPORATED, New York, N. Y. Filed Dec. 8, 1927.

CLUSOR

Particular description of goods.—Binding Machines for Binding Together Sheets of Paper or Other Materials.
Claims use since Oct. 27, 1927.

Ser. No. 261,521. PORTABLE SELF-SERVING STORE COMPANY, Dover, Del., and Houston, Tex. Filed Feb. 10, 1928.

TRYET

Particular description of goods.—Vending Machines.
Claims use since Feb. 2, 1928.

Ser. No. 261,789. JAMES DENARO, doing business as Automatic Cone Company, Cambridge, Mass., assignor to American Pastry Products Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 16, 1928.

ICYPI

Particular description of goods.—Ice-Cream Molding and Dispensing Device.
Claims use since June 15, 1925.

Ser. No. 262,793. S. F. BOWSER & COMPANY, INC., Fort Wayne, Ind. Filed Mar. 8, 1928.

XACTO SENTRY

Particular description of goods.—Pumps.
Claims use since Jan. 19, 1928.

CLASS 24.

Laundry Appliances and Machines.

Ser. No. 260,441. MAURICE H. GLASSMAN, Boston, Mass. Filed Jan. 21, 1928.

KLEEN ALL

The word "Kleen" so far as it has any descriptive significance and the descriptive word "All" is disclaimed apart from the mark shown.
Particular description of goods.—Rotary Dry-Cleaning Machines.
Claims use since Sept. 12, 1927.

CLASS 26.

Measuring and Scientific Appliances.

Ser. No. 260,343. THE MOTOMETER COMPANY, INC., Long Island City, N. Y. Filed Jan. 19, 1928.

MOTOMETER

Particular description of goods.—Tire Gauges.
Claims use since about January, 1927.

Ser. No. 261,914. ISIDOR SCHWARTZ, New York, N. Y. Filed Feb. 18, 1928.

Master of Ceremonies

Particular description of goods.—Motion-Picture Novelty Films and Trailers.
Claims use since Jan. 12, 1928.

CLASS 27.

Horological Instruments.

Ser. No. 228,224. L. H. BURNETT, doing business as Burnett Bros., San Francisco, Calif. Filed Mar. 6, 1926.

BURNETT SUN TIMER

The word "Burnett" and the word "Timer" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Watches.
Claims use since Apr. 1, 1924.

Ser. No. 261,716. THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Filed Feb. 15, 1928.

QUINTET

Particular description of goods.—Watches and Clocks.
Claims use since Feb. 1, 1928.

CLASS 28.

Jewelry and Precious-Metal Ware.

Ser. No. 255,463. ORESTE PENNINO, doing business as Pennino Brothers, New York, N. Y. Filed Sept. 30, 1927.



Particular description of goods.—Jewelry for Personal Use for Adornment, Consisting of Finger Rings, Earrings, Bracelets, Pendants, Necklaces, Watch Bracelets, Bags, Brooches, Buckles, Bar Pins, Cuff Links, Lorgnettes, Studs, Scarf Pins, Hatpins, Vest Buttons, and Handy Pins All Made of or Plated with Precious Metal.
Claims use since Nov. 1, 1926.

Ser. No. 260,104. DAVIS & LOWE COMPANY, Newark, N. J. Filed Jan. 14, 1928.

D & L CO

Particular description of goods.—Jewelry and Precious-Metal Ware—Namely, Cuff Buttons, Belt Buckles, Collar Ornaments, Hatpins, Hair Ornaments, Seals, All of which are Made of or Plated with Precious Metal; Brooches, Watch Chains, Neck Chains, Key Chains, Handy Pins, Fobs, Scarfpins, Pendants, Lockets, Necklaces, Finger Rings, Studs, and Similar Articles for Personal Adornment, Not Including Watches.
Claims use since Jan. 10, 1925.

Ser. No. 260,830. HAIMES & KLEIN, INC., New York, N. Y. Filed Jan. 19, 1928.

HK

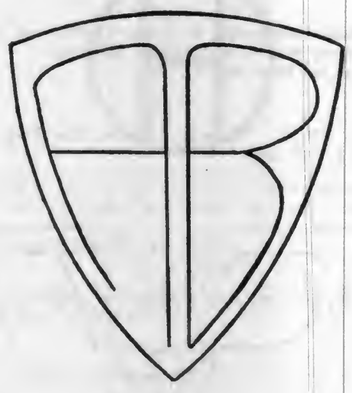
Particular description of goods.—Finger-Ring Mountings and Settings, Brooch Mountings and Settings, Bracelets, and Watch and Locket Chains.
Claims use since 1920.

Ser. No. 260,859. LEO. R. STRAUS & CO., New York, N. Y. Filed Jan. 28, 1928.

L.R.S.

Particular description of goods.—Finger Rings, Brooches, Bar Pins, Bracelets, Scarfpins, Sautoirs, Necklaces, and Emblems Made of or Plated with Precious Metal.
Claims use since May 1, 1915.

Ser. No. 260,931. AXEL BROS., New York, N. Y. Filed Jan. 31, 1928.



Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 260,932. SIGMUND BERGER, New York, N. Y. Filed Jan. 31, 1928.

SB

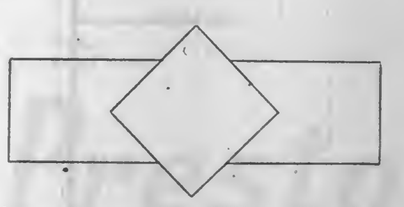
The lining in the drawing is to indicate shading only.
Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 260,945. SAMUEL KOSHERS, New York, N. Y. Filed Jan. 31, 1928.

SK

The lining in the drawing is to indicate shading only.
Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 260,968. MITCHALL WALDMAN, New York, N. Y. Filed Jan. 31, 1928.



Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 260,996. ISAAC GARSON, New York, N. Y. Filed Feb. 1, 1928.



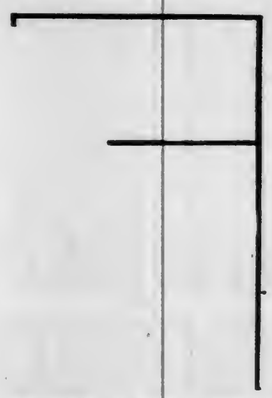
Particular description of goods.—Finger Rings, Bar Pins, Scarfpins, and Bracelets.
Claims use since Jan. 24, 1928.

Ser. No. 261,009. MAX JOHNSON, doing business as Johnson Bros., New York, N. Y. Filed Feb. 1, 1928.



Particular description of goods.—Gold, Silver, and Platinum Finger Rings.
Claims use since 1915.

Ser. No. 261,251. SAMUEL FLAKSER, New York, N. Y. Filed Feb. 6, 1928.



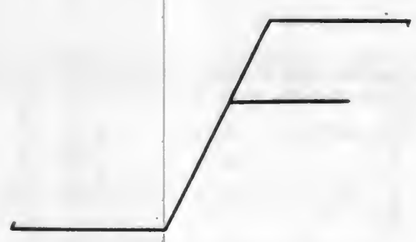
Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 261,265. KEDGER & GOTTLIEB, New York, N. Y. Filed Feb. 6, 1928.



Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 261,270. SAMUEL LEVINE and ABRAHAM FRUCHTBAUM, New York, N. Y. Filed Feb. 6, 1928.



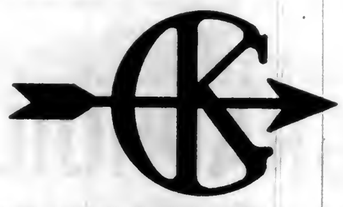
Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 261,291. CHARLES TURROW, New York, N. Y. Filed Feb. 6, 1928.



Particular description of goods.—Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since Jan. 1, 1928.

Ser. No. 261,419. CARPENTER-KOLLMAR CO., Newark, N. J. Filed Feb. 9, 1928.



Particular description of goods.—Finger Rings and Other Items of Jewelry for Personal Wear, Not Including Watches.
Claims use since about Jan. 2, 1928.

Ser. No. 261,755. INTERSTATE SMELTING & REFINING CO. INC., Newark, N. J. Filed Feb. 16, 1928.



Particular description of goods.—Finger Rings.
Claims use since Jan. 5, 1928.

Ser. No. 262,030. W. J. HARBER CO., INC., New York, N. Y. Filed Feb. 21, 1928.



Particular description of goods.—Finger Rings, Bar Pins, Brooches, Pendants, Charms, Cuff Links, and Scarfpins.
Claims use since Jan. 16, 1928.

Ser. No. 262,438. ANDERSON & KROENER, New York, N. N. Y. Filed Mar. 1, 1928.



Particular description of goods.—Platinum Bracelets.
Claims use since Feb. 6, 1928.

CLASS 29.

Brooms, Brushes, and Dusters.

Ser. No. 257,846. ADAMS-WHITE BRUSH COMPANY, Boston, Mass. Filed Nov. 21, 1927.



Particular description of goods.—Cylindrical and Flat Industrial Brushes and Machine-Operated Brushes.
Claims use since Nov. 14, 1927.

CLASS 32.

Furniture and Upholstery.

Ser. No. 260,664. THE YEAGER FURNITURE COMPANY, Allentown, Pa. Filed Jan. 25, 1928.



Particular description of goods.—Tables for Household and Office Use.
Claims use since December, 1927.

CLASS 33.

Glassware.

Ser. No. 261,632. ILLINOIS GLASS COMPANY, Alton, Ill. Filed Feb. 13, 1928.



Particular description of goods.—Glass Jars and Glasses.
Claims use since about Mar. 1, 1927, on jars, and about Jan. 1, 1928, on glasses.

CLASS 34.

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 229,189. MODINE MANUFACTURING COMPANY, Racine, Wis. Filed Mar. 25, 1926.

ThermoDine

Particular description of goods.—Heating Apparatus and Specialties—Namely, Radiators for Heating Buildings, Heating Units Comprising Radiators Assembled with Fans for Advancing Air Therethrough, Heating Systems Comprising a Plurality of Radiators Having Fans Fixed with Respect to the Radiators to Advance Air Therethrough, Heating Units Each of Which Comprises a Radiator Assembled in a Housing with a Fan and an Electrical Motor and Radiators Adapted to be Suspended Above the Floors of Rooms Which are to be Heated.
Claims use since Mar. 12, 1926.

Ser. No. 239,393. YAGER SHEET METAL COMPANY, Oakland, Calif. Filed Oct. 28, 1926.

YA-BO

Particular description of goods.—Galvanized Iron, Louver Ventilators, Leader Pipes, Leader Heads, Ventilator Elbows, Ventilator Outlets, Ventilator Fan, and Pump Outlets.
Claims use since Aug. 31, 1926.

Ser. No. 242,963. PERFECTION STOVE COMPANY, Cleveland, Ohio. Filed Jan. 17, 1927.

PURITAN

Particular description of goods.—Gasoline or Pressure-Vapor Stoves, Parts Thereof, and Fuel-Supply Tanks for Detachable Connection to Such Stoves.
Claims use since Dec. 24, 1926.

Ser. No. 251,470. ADAMS BROS. MFG. CO. INC., Pittsburgh, Pa. Filed July 5, 1927.

CHEERFUL

Particular description of goods.—Gas Heaters and Parts Thereof.
Claims use since August, 1898.

CLASS 35.

Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 257,159. JOHN C. HOOF & COMPANY, Chicago, Ill. Filed Nov. 7, 1927.

GRAPHOIL

Particular description of goods.—Piston Rings.
Claims use since about Oct. 7, 1927.

Ser. No. 259,287. MEOSON PISTON RING CO., INC., Brooklyn, N. Y. Filed Dec. 23, 1927.

PROTEX

Particular description of goods.—Piston Rings.
Claims use since Sept. 14, 1926.

Ser. No. 263,062. ALLEN BELTING COMPANY, Clifton Heights, Pa. Filed Mar. 13, 1928.

Alco Round Belt

No claim is made to the words "Round Belt" apart from the mark shown in the drawing.
Particular description of goods.—Round Leather Belting.
Claims use since Feb. 28, 1927.

CLASS 37.

Paper and Stationery.

Ser. No. 252,381. THE GREAT AMERICAN TEA CO., New York, N. Y. Filed July 21, 1927.

Golden Key

Particular description of goods.—Waxed Paper and Toilet Paper.
Claims use since January, 1925.

Ser. No. 262,128. SERVICE GROCER COMPANY, INC., Detroit, Mich. Filed Feb. 23, 1928.

SERVICEBOY



Particular description of goods.—Paper Napkins, Wax Paper, Paper Towels, Wrapping Paper, Toilet Paper.
Claims use since September, 1925.

Ser. No. 262,605. GRAHAM PAPER COMPANY, St. Louis, Mo. Filed Mar. 5, 1928.

DEXO

Particular description of goods.—Index Cards Commonly Employed for Printing and Writing Purposes.
Claims use since Feb. 1, 1928.

Ser. No. 262,924. NEENAH PAPER COMPANY, Neenah, Wis. Filed Mar. 10, 1928.

CRYSTALLITE

Particular description of goods.—Bond, Ledger, and Writing Paper.
Claims use since 1913.

Ser. No. 262,932. RIVERSIDE FIBRE & PAPER CO., Appleton, Wis. Filed Mar. 10, 1928.

COLONEL

Particular description of goods.—Bond Paper.
Claims use since Nov. 1, 1927.

Ser. No. 262,933. RIVERSIDE FIBRE & PAPER CO., Appleton, Wis. Filed Mar. 10, 1928.

CAPTAIN

Particular description of goods.—Bond Paper.
Claims use since Nov. 1, 1927.

Ser. No. 262,966. KANSAS CITY PAPER HOUSE, Kansas City, Mo. Filed Mar. 10, 1928.

HILLCREST

Particular description of goods.—Book Paper.
Claims use since July, 1919.

CLASS 38.

Prints and Publications.

Ser. No. 254,733. MAURICE R. TESHNOR, New York, N. Y. Filed Sept. 14, 1927.

YEARS AGO TODAY IN PICTURES

Particular description of goods.—Syndicated Newspaper Pictures.
Claims use since Sept. 8, 1927.

Ser. No. 254,921. LOOSELEAF EDUCATION, INC., Columbus, Ohio. Filed Sept. 19, 1927.

CURRENT LITERATURE

Particular description of goods—Weekly Publication.
Claims use since Sept. 18, 1926.

Ser. No. 261,254. THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Feb. 6, 1928.

BRIGHTER·HOMES MAGAZINE

No claim is made to the word "Magazine" apart from the mark as shown.
Particular description of goods.—Magazine Published Seven Times a Year.
Claims use since Sept. 23, 1927.

Ser. No. 261,559. FEDERATED BUSINESS PUBLICATIONS, INC., New York, N. Y. Filed Feb. 11, 1928.

THE SODA FOUNTAIN
LUNCH ICE CREAM CANDY

Particular description of goods.—Monthly Printed Periodical or Trade Paper.
Claims use since Aug. 10, 1927.

Ser. No. 261,655. EMMY SLOAN, Ridgefield, Conn. Filed Feb. 13, 1928.

The BOOK BARN

No exclusive right is claimed to the word "Book" except in connection with the mark as shown in the drawing.

Particular description of goods.—Books.

Claims use since on or about Oct. 1, 1926.

Ser. No. 262,250. JULIAN OLLENDORFF, New York, N. Y. Filed Feb. 25, 1928.

HOME MOVIES by JAY-O

Particular description of goods.—Cartoons and Comic Strips of Drawings and Sketches for Newspaper, Magazine, or/and Book Publication, with Each Drawing or Sketch Succeeding Another in the Manner of and in Imitation of a Strip of Motion-Picture Film, or in Any Other Manner Customarily Used for Comic Strips.

Claims use since Jan. 15, 1928.

CLASS 39.

Clothing.

Ser. No. 242,807. ACOMA TEXTILE MILLS, Brooklyn, N. Y. Filed Jan. 14, 1927.

FEATHERWEIGHT



No claim is made to the exclusive use of the word "Featherweight" apart from the mark shown in the drawing.

Particular description of goods.—Neckties.

Claims use since about Jan. 8, 1927.

Ser. No. 244,500. IPSWICH MILLS, Boston, Mass. Filed Feb. 17, 1927.



No claim is made to the words "Ipswich" and "Hosiery" apart from their association with the rest of the mark as shown in the drawing.

Particular description of goods.—Women's Knitted and Woven Underwear.

Claims use since Jan. 28, 1927.

Ser. No. 245,066. R. H. MACY & CO., INC., New York, N. Y. Filed Mar. 1, 1927.

VICEROY

Particular description of goods.—Men's Leather Shoes.

Claims use since Aug. 1, 1926.

Ser. No. 246,296. LEVY BROS. & ADLER ROCHESTER, INC., Rochester, N. Y. Filed Mar. 24, 1927.

MURRAY



No claim is made to the right to the exclusive use of the name "Murray" apart from the mark shown in the drawing.

Particular description of goods.—Men's and Young Men's Suits, Overcoats, Topcoats, and Knickers.

Claims use since January, 1927.

Ser. No. 246,358. PAYMER BROTHERS, Baltimore, Md. Filed Mar. 25, 1927.

ROYAL

Particular description of goods.—Men's Suits and Overcoats.

Claims use since 1898.

Ser. No. 246,359. PAYMER BROTHERS, Baltimore, Md. Filed Mar. 25, 1927.



The exclusive use of the words "Brand," "Custom Made," and "Baltimore" is disclaimed. The lining in the drawing represents colors. The background of the whole mark is a pinkish silver. The heavy rectangular marginal line and the band of short intersecting lines surrounding it are red, as are also the crown, the fleurs-de-lis, and all lettering. The diagonal lines represent green. The outlines of the scroll are also green. The narrow strips forming the rim of the escutcheon and of its bend sinister are in gold.

Particular description of goods.—Men's Suits and Overcoats.

Claims use since 1898.

Ser. No. 252,185. R. BELTH CO. INC., New York, N. Y. Filed July 18, 1927.

DÉSIRÉ

Particular description of goods.—Ladies' Hats and Hat Linings.

Claims use since Jan. 1, 1927.

Ser. No. 254,422. RODMAN C. PELL, Jr., doing business as Sanitary Undergarment Co., San Francisco, Calif. Filed Sept. 6, 1927.

SANI-PATCH

Particular description of goods.—Sleeveless Union Suits.

Claims use since Aug. 26, 1927.

Ser. No. 255,658. C. G. GUNTHER'S SONS, New York, N. Y. Filed Oct. 5, 1927. Under 10-year proviso.

C·G·GUNTHER'S SONS

Particular description of goods.—Garments and Wearing Apparel Manufactured in Whole or in Part from Furs Consisting of Coats, Wraps, Capes, Hats, and Caps for Men, Women, and Children and Scarfs, Muffs, Neckpieces, Boas, and Gloves.

Claims use since about 1869.

Ser. No. 256,461. C. G. GUNTHER'S SONS, New York, N. Y. Filed Oct. 22, 1927. Under 10-year proviso.

Gunther

Particular description of goods.—Garments and Wearing Apparel Manufactured in Whole or in Part from Furs Consisting of Coats, Wraps, Capes, Hats, and Caps for Men, Women, and Children and Scarfs, Muffs, Neckpieces, Boas, and Gloves.

Claims use since Dec. 20, 1820.

Ser. No. 256,462. C. G. GUNTHER'S SONS, New York, N. Y. Filed Oct. 22, 1927. Under 10-year proviso.

GUNTHER'S

Particular description of goods.—Garments and Wearing Apparel Manufactured in Whole or in Part from Furs Consisting of Coats, Wraps, Capes, Hats, and Caps for Men, Women, and Children and Scarfs, Muffs, Neckpieces, Boas, and Gloves.

Claims use since about Dec. 20, 1820.

Ser. No. 257,231. GOLDEN ROD HAT CO., New York, N. Y. Filed Nov. 8, 1927.

THE WASHINGTON SQUARE HAT



STYLED AND MADE IN
GREENWICH VILLAGE
NEW YORK
BENCH MADE

The right to the exclusive use of the words "Hat," "Styled," and "Made in Greenwich Village," "New York," and "Bench Made" is disclaimed.

Particular description of goods.—Men's Hats.

Claims use since Mar. 1, 1923.

Ser. No. 259,927. BENJAMIN W. SHAUB, Lancaster, Pa. Filed Jan. 10, 1928.

Shaub's FOOT ERECTOR

No claim is made to the exclusive use of the word "Foot" apart from the mark as shown in the drawing.
Particular description of goods.—Boots and Shoes Made of Leather, Rubber, Fabric, Canvas, and of Combinations of any of Said Materials.
Claims use since Mar. 19, 1926.

Ser. No. 259,929. THOMAS, FIELD & CO., Charleston, W. Va. Filed Jan. 10, 1928.

Mystic

Particular description of goods.—Hosiery.
Claims use since Nov. 16, 1927.

Ser. No. 260,195. SHU-STILES, INCORPORATED, St. Louis Mo. Filed Jan. 16, 1928.

SnappiARCH
CORRECTION STYLE-SNAP
LTW

Particular description of goods.—Women's Shoes Made of Leather or Fabric or Combinations Thereof.
Claims use since Dec. 1, 1927.

Ser. No. 260,358. PETER SIEBEL, doing business as Siebel Company, New York, N. Y. Filed Jan. 19, 1928.

PAPRONS

Particular description of goods.—Masonic or Lodge Aprons.
Claims use since on or about Sept. 1, 1926.

Ser. No. 260,490. CHIC MANUFACTURING CO., Peoria, Ill. Filed Jan. 23, 1928.

Princess Peggy

Particular description of goods.—Ladies' Aprons and House Frocks.
Claims use since about Jan. 1, 1928.

Ser. No. 260,783. PEARSON BROTHERS, London, England. Filed Jan. 28, 1928.

PORTAMAC

Particular description of goods.—Waterproof Coats and Waterproof Capes for Men, Women, and Children.
Claims use since Mar. 1, 1925.

Ser. No. 260,784. PEARSON BROTHERS, London, England. Filed Jan. 28, 1928.

TUTELLA

Particular description of goods.—Waterproof Coats and Waterproof Capes for Men, Women, and Children.
Claims use since Sept. 20, 1909.

Ser. No. 260,813. DESSAUER & ENGEL COMPANY, Chicago, Ill. Filed Jan. 28, 1928.

TEE-OFF

Particular description of goods.—Sweaters and Sweater Coats for Men, Women, and Children.
Claims use since Jan. 6, 1928.

Ser. No. 261,323. LUBOW BROTHERS, INC., New York, N. Y. Filed Feb. 7, 1928.

savon clothes

The word "Clothes" is not claimed apart from the mark shown in the drawing.
Particular description of goods.—Men's and Boys' Topcoats, Overcoats, Suits, Trousers, Vests, and Knickers.
Claims use since Jan. 1, 1928.

Ser. No. 261,324. THE MCCLELLAN SHOE SPECIALTY CO., Kennett Square, Pa. Filed Feb. 7, 1928.

McCLELLAN SHOE SPECIALTY COMPANY
Terma-form
THE SUPERIOR BOX TOE

The word "Form" and the words "The Superior Box Toe" are disclaimed apart from the mark shown.
Particular description of goods.—Box Toes.
Claims use since on or about Dec. 8, 1927.

Ser. No. 261,417. THE BIJOU DRESS CO., New York, N. Y. Filed Feb. 9, 1928.

J Jeunie Frocks

No claim is made to the exclusive use of the word "Frocks" apart from the mark shown in the drawing.
Particular description of goods.—Ladies' Dresses.
Claims use since about January, 1928.

Ser. No. 261,577. MORRIS LABENSKY, doing business as M. Labensky, New York, N. Y. Filed Feb. 11, 1928.

BRUMMELLY CLOTHES

The word "Clothes" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Men's and Young Men's Coats and Suits.
Claims use since Jan. 20, 1928.

Ser. No. 261,579. LEBANON MILL COMPANY, Pawtucket, R. I. Filed Feb. 11, 1928.

Fleuray

Particular description of goods.—Women's, Misses', and Girls' Undergarments—Namely, Vests, Step-Ins, Bandeaux, Nightgowns, Pajamas, Bloomers, Bandeau Suits, Costume Slips, and Panel Suits of Woven or Knitted Textile Material.
Claims use since Dec. 15, 1926.

Ser. No. 262,026. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Feb. 21, 1928.

BOLIVAR



Particular description of goods.—Men's Overcoats.
Claims use since Dec. 21, 1927.

Ser. No. 262,027. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Feb. 21, 1928.

DURATWIST

Particular description of goods.—Men's Topcoats and Men's Suits Comprising Coats, Vests, and Trousers.
Claims use since Dec. 29, 1927.

Ser. No. 262,496. VANITY FAIR SILK MILLS, Reading, Pa., and New York, N. Y. Filed Mar. 1, 1928.

ONE'S ALL

Particular description of goods.—Women's and Children's Underwear.
Claims use since Feb. 17, 1928.

CLASS 42.

Knitted, Netted, and Textile Fabrics.

Ser. No. 262,137. WARREN MANUFACTURING COMPANY, Warren, R. I. Filed Feb. 23, 1928.

Dainty-Debs

Particular description of goods.—Cotton and Silk Piece Goods and Mixtures Including Rayon.
Claims use since Jan. 20, 1928.

Ser. No. 263,063. AMERICAN WOOLEN COMPANY, Boston, Mass. Filed Mar. 13, 1928.

Ram's Head
FABRICS
GUARANTEED ALL-WOOL

No claim is made to the exclusive right to use the words "Fabrics," "Guaranteed," and "All Wool" as shown in connection with said trade-mark.
Particular description of goods.—Woolen Piece Goods.
Claims use since on or about Mar. 3, 1928.

Ser. No. 263,212. HART SILK COMPANY, San Francisco, Calif. Filed Mar. 15, 1928.

Fujiyama

Particular description of goods.—Silk Piece Goods, Rayon Piece Goods, Silk and Rayon Piece Goods, and Silk and Cotton Piece Goods.
Claims use since Sept. 23, 1927.

CLASS 44.

Dental, Medical, and Surgical Appliances.

Ser. No. 254,071. GEORGE EDWARDS BJORKMAN, Paris, France. Filed Aug. 29, 1927.

ÈVERA

Particular description of goods.—Electric Apparatus for Permanent Waving of Hair.
Claims use since July 1, 1927.

CLASS 45.

Beverages, Nonalcoholic.

Ser. No. 262,656. CHARLES J. GRUBER'S SONS, Philadelphia, Pa. Filed Mar. 6, 1928.

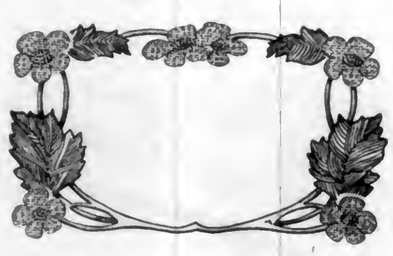
PI-NELLA

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink, Sirup, Extract, and Concentrate for Making the Same.
Claims use since Oct. 2, 1927.

CLASS 46.

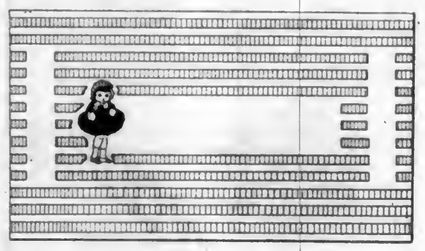
Foods and Ingredients of Foods.

Ser. No. 238,014. FISCHER BAKING CO., Newark, N. J. Filed Oct. 1, 1926.



The cross hatching in the drawing indicates yellow, the stems and foliage being green.
Particular description of goods.—Bread.
Claims use since June, 1919.

Ser. No. 238,334. CHARLES N. MILLER CO., Boston, Mass. Filed Oct. 8, 1926.



The lining on the drawing indicates the color red.
Particular description of goods.—Candy.
Claims use since Sept. 22, 1926.

Ser. No. 238,870. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Oct. 19, 1926.

PROTECTOR

Particular description of goods.—Wheat Flour.
Claims use since on or about May 31, 1928.

Ser. No. 240,711. HOBBS-PARSONS COMPANY, Fresno, Calif. Filed Nov. 29, 1926.

BLUE BRAND
H-P

Applicant disclaims the right to use of the word "Brand." The horizontal lining indicates a royal-blue color. No claim is made to the exclusive right to a label colored blue.
Particular description of goods.—Fresh Apples, Fresh Bananas, Dried Beans, Eggs, Fresh Lemons, Dried Onions, Fresh Oranges, Fresh Potatoes, and Walnuts in Their Natural State.
Claims use since Jan. 1, 1904.

Ser. No. 243,490. B. HELLER & COMPANY, Chicago, Ill. Filed Jan. 28, 1927.

B. HELLER & CO.
THE PLANT BEHIND THIS PRODUCT

CHICAGO U.S.A.

The word "Chicago" and the phrase "U. S. A." are hereby disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Dessert Powders, Ice-Cream Powders, Cocoa, Spices, Pie-Topping Preparations, Food-Icing Preparations, Seasonings for Sausages and Meat Products, Sausage Flour, and Food-Flavoring Extracts.
Claims use since June 15, 1926.

Ser. No. 247,616. HIYAMA SHOTEN, Honolulu, Territory of Hawaii. Filed Apr. 18, 1927.

"SUKI-YAKI SOY"

Exclusive right to the word "Soy" is disclaimed apart from the mark shown.
Particular description of goods.—Liquid Sauce or Flavoring Known as Soy.
Claims use since Nov. 1, 1926.

Ser. No. 253,242. ADAM STUART KEDZIE, doing business as Polar Malt Company, Los Angeles, Calif. Filed Aug. 9, 1927.

POLAR MALT

The word "Malt" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Frozen Concentrate for Making Malted Milk Being More Particularly a Frozen Mixture Containing the Ingredients to be Used with Liquid in Desired Quantities for Making Malted Milk.
Claims use since May 28, 1927.

Ser. No. 254,141. MANNING'S, INC., Seattle, Wash. Filed Aug. 30, 1927.

Tase-Ty Pastrie
BAKERS.

The words "Tase-Ty Pastrie Bakers" and the representation of the cake are disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—All Kinds of Bakery Products Such as Bread, Cookies, Rolls, Pies, Cakes, Sweet Dough, and French Pastry.
Claims use since about June 6, 1927.

Ser. No. 254,829. JOHN H. WILKINS CO., Washington, D. C. Filed Sept. 16, 1927.



Particular description of goods.—Coffee.
Claims use since Sept. 6, 1927.

Ser. No. 255,998. R. H. MACY & CO., INC., New York, N. Y. Filed Oct. 12, 1927.



The word "Brand" is disclaimed apart from the mark as shown. No claim is made to the representation of a fish apart from the mark as shown.

Particular description of goods.—Canned Salmon.

Claims use since 1896.

Ser. No. 256,765. ALBERT J. COLEMAN, doing business as Acme Supply Store, Binghamton, N. Y. Filed Oct. 29, 1927.



No claim is made to the words "Starý Plzenský" and/or "Odvar" apart from their association with the mark.

Particular description of goods.—Pure Barley Malt Extract for Beverage Purposes Only.

Claims use since Jan. 1, 1922.

Ser. No. 258,089. MEXICO-ARIZONA TRADING COMPANY, Nogales, Ariz. Filed Nov. 26, 1927.

MEXCO

Particular description of goods.—Fresh Tomatoes.

Claims use since Oct. 27, 1927.

Ser. No. 258,848. WURM BROTHERS COMPANY, Chicago, Ill. Filed Dec. 12, 1927.

RAREBIT

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Preserved Fruit, Dried Fruit, Candied and Salted Nuts, Nuts in Their Natural State, Catsup, and Chile Sauce.

Claims use since Aug. 15, 1927.

Ser. No. 258,949. C. H. KRONEBERGER AND COMPANY, Baltimore, Md. Filed Dec. 15, 1927.



All words shown on the drawing except "Joy Cup" are disclaimed apart from the mark shown.

Particular description of goods.—Steel Cut and Pulverized Coffees.

Claims use since Dec. 1, 1927.

Ser. No. 258,950. C. H. KRONEBERGER AND COMPANY, Baltimore, Md. Filed Dec. 15, 1927.



All words on drawing are disclaimed apart from the mark shown except the words "Ariel Club."

Particular description of goods.—Steel Cut and Pulverized Coffees.

Claims use since Dec. 1, 1927.

Ser. No. 259,112. HAAS, BARUCH & COMPANY, Los Angeles, Calif. Filed Dec. 19, 1927.

MAYCREST

Particular description of goods.—Canned Fish, Canned Fruits, Canned Vegetables, Tomato Catsup, and Coffee.

Claims use since Oct. 3, 1927.

Ser. No. 259,962. THE FREDERICK W. LIPPS CO., Baltimore, Md. Filed Jan. 11, 1928.

MARDI-GRAS

Particular description of goods.—Candy.

Claims use since Dec. 21, 1927.

Ser. No. 260,569. IGLEHEART BROTHERS, INC., Evansville, Ind. Filed Jan. 24, 1928.



The representation of a carton and the words "Cake Flour, Prepared (Not Self Rising)," and "Evansville, Ind. U. S. A." are disclaimed apart from the mark as shown in the drawing. The drawing is lined for the colors red, yellow, and blue.

Particular description of goods.—Cake Flour.

Claims use since 1895.

Ser. No. 260,699. WILLIAM D. ROSE, doing business as Have A Heart Candy Co., Portland, Oreg. Filed Jan. 26, 1928.



No claim is made to the lining which indicates red color on the drawing.

Particular description of goods.—Candy Bars.

Claims use since May 18, 1925.

Ser. No. 260,810. DAVIS BROS. CHEESE CO., Plymouth, Wis. Filed Jan. 28, 1928.



Particular description of goods.—Cheese.

Claims use since 1889.

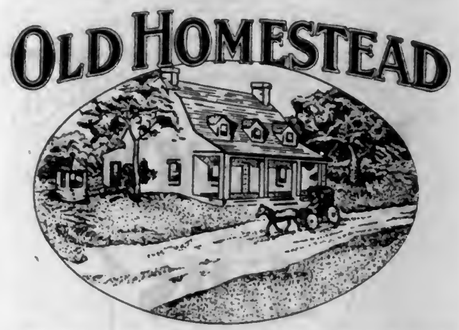
Ser. No. 260,853. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Jan. 28, 1928.

HEALTHNOG

Particular description of goods.—Malt Extract Powder for Food Purposes.

Claims use since Jan. 5, 1928.

Ser. No. 261,199. MALT-DIASTASE COMPANY, New York, N. Y. Filed Feb. 4, 1928.



Particular description of goods.—Concentrated Liquid Malt Extracts.

Claims use since Aug. 8, 1921.

Ser. No. 261,290. D. J. TOOMEY MILLING CO. INC., Spearfish, S. Dak., and Crawford, Nebr. Filed Feb. 6, 1928.

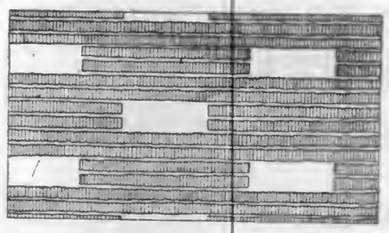


No claim is made to the words "Toomey's Famous Flap-Jack Flour" except in the combination claimed.

Particular description of goods.—Pancake Flour.

Claims use since Dec. 15, 1925.

Ser. No. 261,526. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Filed Feb. 10, 1928.



Applicant disclaims the outline of the wrapper of the goods apart from the mark shown. The mark consists of a series of horizontal red stripes equally spaced from each other and provided with a series of blank spaces or gaps along two of the stripes. The lining on the drawing represents the color red.

Particular description of goods.—Confectionery—Namely, Chocolates and Candy.

Claims use since Feb. 1, 1920.

Ser. No. 261,675. W. J. HOWEY CO., Howey-in-the-Hills, Fla. Filed Feb. 14, 1928.

Howey IN THE Hills

Particular description of goods.—Fresh Citrus Fruits.

Claims use since September, 1925.

Ser. No. 261,808. S. S. GOFFIN, Jacksonville, Fla. Filed Feb. 17, 1928.

PonceDeleon

Particular description of goods.—Canned Oysters and Canned Fruit.

Claims use since about 1898.

Ser. No. 261,920. VEJOLA COMPANY, INC., Philadelphia, Pa. Filed Feb. 18, 1928.

VEJOLA

Particular description of goods.—Compound of Vegetable Fat Consisting Principally of Cocoanut Oil for Frying, Baking, and Shortening.

Claims use since Nov. 15, 1927.

Ser. No. 262,005. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y. Filed Feb. 20, 1928.

I=VAN

Particular description of goods.—Flavoring Extracts for Foods.

Claims use since Aug. 16, 1926.

Ser. No. 262,090. KLOTTER & NORTON CO., Chicago, Ill. Filed Feb. 23, 1928.

KLOTTER'S

Particular description of goods.—Canned Sauerkraut, Sauerkraut Juice, Canned Peas, Canned Corn, Canned Tomatoes, and Malt Syrups.

Claims use since about January, 1926.

Ser. No. 262,141. M. A. REX, doing business as California Sea Food Company, Los Angeles, Calif. Filed Jan. 9, 1928.



All reading matter shown on the drawing except the words "White Sea" is disclaimed apart from the other features of the mark. The pictorial representation of the goods is also disclaimed.

Particular description of goods.—Canned Fish.

Claims use since Aug. 1, 1927.

Ser. No. 262,172. MALTZYME COMPANY, INC., Long Island City, N. Y. Filed Feb. 24, 1928.

MACOMI

Particular description of goods.—Food Product in Granular and Flaked Form Containing Nutritive Elements of Malt, Cocoa, and Milk.

Claims use since Feb. 21, 1928.

Ser. No. 262,209. CLARENCE A. CRANE, doing business as Cartier, Cleveland, Ohio. Filed Feb. 25, 1928.

101

Particular description of goods.—Candy.

Claims use since Jan. 7, 1928.

Ser. No. 262,293. CRON & DEHN, INC., Seattle, Wash. Filed Feb. 27, 1928.

Referee

Particular description of goods.—Fresh Fruit—Namely, Apples; Dried Fruit, Canned Fish, Canned Fruit, and Vegetables.

Claims use since October, 1921.

Ser. No. 262,314. LINCOLN WILDER CO., INC., St. Louis, Mo. Filed Feb. 27, 1928.

"ONE A OR



LOAD"

Particular description of goods.—Fresh Potatoes.

Claims use since about Oct. 1, 1927.

Ser. No. 262,337. EDWARD P. VELAT, doing business as Ritsy Products Co., St. Paul, Minn. Filed Feb. 27, 1928.

Ritsy

Particular description of goods.—Egg Noodles.

Claims use since Jan. 3, 1928.

Ser. No. 262,463. KATSAFANAS COFFEE COMPANY, Pittsburgh, Pa. Filed Mar. 1, 1928.

HERMES



Particular description of goods.—Coffee.

Claims use since Jan. 1, 1916.

Ser. No. 262,492. STATESVILLE FLOUR MILLS COMPANY, Statesville, N. C. Filed Mar. 1, 1928.

STATESVILLE

S

Particular description of goods.—Dairy and Poultry Feed.

Claims use since Jan. 10, 1928.

Ser. No. 262,519. LEADER FOOD PRODUCTS CO., Chicago, Ill. Filed Mar. 2, 1928.

VICTORY

Particular description of goods.—Mayonnaise, Thousand Island Dressing and Prepared Mustard.

Claims use since Dec. 31, 1927.

Ser. No. 262,520. LEADER FOOD PRODUCTS CO., Chicago, Ill. Filed Mar. 2, 1928.

V

Particular description of goods.—Mayonnaise, Thousand Island Dressing, and Prepared Mustard.

Claims use since Dec. 31, 1927.

Ser. No. 262,548. J. & V. CALDERON INC., New York, N. Y. Filed Mar. 3, 1928.

PETIT BELGE

Particular description of goods.—All Kinds of Fish Conserves—Namely, Sardines in Olive Oil, Peanut Oil, and in Tomato Sauce; Sprats in Olive Oil, Peanut Oil, and in Tomato Sauce.
Claims use since Oct. 1, 1927.

Ser. No. 262,549. J. & V. CALDERON INC., New York, N. Y. Filed Mar. 3, 1928.

LES TROIS PECHEURS

Particular description of goods.—All Kinds of Fish Conserves—Namely, Sardines in Olive Oil, Peanut Oil, and in Tomato Sauce; Sprats in Olive Oil, Peanut Oil, and in Tomato Sauce.
Claims use since Oct. 1, 1927.

Ser. No. 262,564. HELLER & PERRIN, Pittsburgh, Pa. Filed Mar. 3, 1928.

LADIES FAVORITE

Particular description of goods.—Evaporated Milk.
Claims use since about November, 1905.

Ser. No. 262,609. JOBBERS SERVICE INCORPORATED, Coldwater, Mich. Filed Mar. 5, 1928.

MIO

Particular description of goods.—Coffee.
Claims use since Feb. 20, 1928.

Ser. No. 262,648. COMPANIA FRUTERA TRANSCONTINENTAL, S. A., Mexico City, Mex., and El Paso, Tex. Filed Mar. 6, 1928.

OTAPEC

Particular description of goods.—Bananas.
Claims use since Sept. 1, 1927.

Ser. No. 262,649. COMPANIA FRUTERA TRANSCONTINENTAL, S. A., Mexico City, Mex., and El Paso, Tex. Filed Mar. 6, 1928.

TUXLAN

Particular description of goods.—Bananas.
Claims use since Sept. 1, 1927.

Ser. No. 262,781. TUCKWELL & WISEMAN, INC., Middletown, N. Y. Filed Mar. 7, 1928.

BLUE BAR

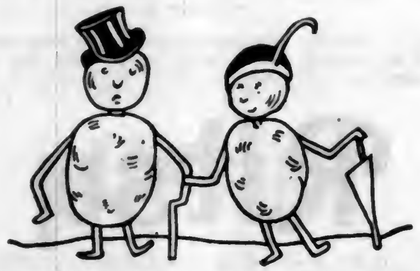
Particular description of goods.—Canned Fruits and Vegetables.
Claims use since July 19, 1927.

Ser. No. 262,817. JULIETTE L. PHILIPPEAU, New York, N. Y. Filed Mar. 8, 1928.

SOUTH SEAS

Particular description of goods.—Food-Flavoring Preparation.
Claims use since June 1, 1927.

Ser. No. 262,943. TINY TATERS, INC., Cleveland, Ohio. Filed Mar. 10, 1928.



Particular description of goods.—Potato Chips.
Claims use since Jan. 20, 1928.

Ser. No. 263,013. POLAR MILLING COMPANY, Minneapolis, Minn. Filed Mar. 12, 1928.

MAGNETO

Particular description of goods.—Wheat Flour.
Claims use since on or about Mar. 1, 1928.

CLASS 49.

Distilled Alcoholic Liquors.

Ser. No. 244,383. AMERICAN SOLVENTS & CHEMICAL CORPORATION, New York, N. Y. Filed Feb. 15, 1927.

AMER SOL

Particular description of goods.—Alcoholic Liquors—Namely, Ethyl Alcohol, Pure Commercial Ethyl Alcohol, and Anhydrous Ethyl Alcohol.
Claims use since about Sept. 1, 1926.

CLASS 50.

Merchandise Not Otherwise Classified.

Ser. No. 226,148. F. B. KELLY CO. INC., Rochester, N. Y. Filed Jan. 20, 1926.

TRANSTRETCH

Particular description of goods.—Window-Display Frames for Exhibiting Transparencies.
Claims use since Aug. 24, 1925.

Ser. No. 247,505. UNION TANK & PIPE CO., Los Angeles, Calif. Filed Apr. 15, 1927.

UNION TANK

Particular description of goods.—Device for Marking Pedestrian Pathway or for Other Marking Purposes to be Embedded in the Surface of a Roadway or Pavement.
Claims use since Jan. 1, 1926.

Ser. No. 259,955. THE GREEN TABLE PAD CORP., New York and Brooklyn, N. Y. Filed Jan. 11, 1928.

TABLE DAN-DEE PAD TRADE MARK

The words "Table Pad" and "Trade-Mark" are disclaimed apart from the mark shown.
Particular description of goods.—Heatproof and Waterproof Table Pads Made of Felt Composition.
Claims use since Nov. 25, 1927.

Ser. No. 261,211. NATHAN SCHOENTHAL, doing business as Window Poster Co., New York, N. Y. Filed Feb. 4, 1928.

WINPOCO

Particular description of goods.—Nonelectrical Signs and Sign Letters.
Claims use since about Nov. 1, 1920.

Ser. No. 262,868. THE MOCOTAN COMPANY, Newark, N. J. Filed Mar. 9, 1928.

MOCOTAN

Particular description of goods.—Artificial or Imitation Leather.
Claims use since Jan. 1, 1928.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 24, 1928.

241,273. A GRINDING AND CUTTING LUBRICANT AND COOLING-OIL COMPOUND. THE WHITE & BAGLEY COMPANY, Worcester, Mass.
Filed February 3, 1927. Serial No. 243,794. PUBLISHED JANUARY 31, 1928. Class 15.

241,274. COTTON PIECE GOODS. I. M. FRIEDMAN & Co. INC., New York, N. Y.
Filed August 9, 1927. Serial No. 253,236. PUBLISHED FEBRUARY 14, 1928. Class 42.

241,275. HERB TONIC FOR USE AS A BLOOD PURIFIER, FOR USE IN THE TREATMENT OF ECZEMA, NEURITIS, RHEUMATISM, DIABETES, AND FOR ALLEVIATION OF PAIN. FRANK J. HOFFMANN, Huron, S. Dak.
Filed August 12, 1927. Serial No. 253,374. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,276. PATCHES FOR TIRE TUBES. HARRY SAUNDERS, doing business as Red Crown Patch Company, Menominee, Mich.
Filed August 12, 1927. Serial No. 253,391. PUBLISHED NOVEMBER 1, 1927. Class 35.

241,277. CANNED FISH. SOUTHERN CALIFORNIA FISH CORP., Terminal Island, Calif.
Filed September 2, 1927. Serial No. 254,306. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,278. CHEMICAL COMPOUND FOR USE IN PREVENTING THE FORMATION OF SULPHATE UPON PLATES OF ELECTRIC STORAGE BATTERIES AND TO DISSOLVE SULPHATE FORMED ON THE PLATES OF ELECTRIC STORAGE BATTERIES. BATEX LABORATORY, INC., Camden, N. J.
Filed September 21, 1927. Serial No. 254,989. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,279. OVERALLS. SWEET-ORR & CO., INC., Wappingers Falls and New York, N. Y.
Filed October 7, 1927. Serial No. 255,779. PUBLISHED DECEMBER 13, 1927. Class 39.

241,280. MAYONNAISE DRESSING, PLAIN AND SALTED NUTS, SALAD DRESSING, GLACÉ NUTS, CANDIES, CANDIED NUTS, RUSSIAN DRESSING; CAKE FILLING, AND CAKE FROSTING MADE FROM THE WHITES OF EGGS, SUGAR, AND GLUCOSE; RELISH OF CHOPPED GREEN PEPPERS AND ONIONS, VINEGAR, AND SPICE; AND SANDWICH SPREAD OF MAYONNAISE WITH CHOPPED PICKLE AND PEPPERS. SWA-ROBA PRODUCTS CO., Lynnfield and Wakefield, Mass.
Filed May 5, 1927. Serial No. 248,522. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,281. CANNED SARDINES. A/S EINAR HAUGVIK & Co., Bergen, Norway.
Filed May 10, 1927. Serial No. 248,739. PUBLISHED FEBRUARY 7, 1928. Class 46.

241,282. AUTOMATIC OIL-PRESSURE-CONTROLLED DEVICES FOR CONTROLLING THE FEEDING OF FUEL TO INTERNAL-COMBUSTION ENGINES. BIFLEX PRODUCTS COMPANY, Waukegan, Ill.
Filed May 18, 1927. Serial No. 249,150. PUBLISHED FEBRUARY 14, 1928. Class 23.

241,283. INFANT LAXATIVE. CHARLES T. RICHARDSON, doing business as Junior Chemical Co., Smackover, Ark.
Filed May 21, 1927. Serial No. 249,376. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,284. CANNED VEGETABLES, CANNED SHELLFISH, AND TABLE SYRUP. FRANK FREY, New Orleans, La.
Filed May 31, 1927. Serial No. 249,787. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,285. BRAKE-LINING CUSHIONS. MINERVA PICTURES CORPORATION, doing business as Standard Automotive and Machine Works, Los Angeles, Calif.
Filed June 6, 1927. Serial No. 250,084. PUBLISHED FEBRUARY 14, 1928. Class 35.

241,286. MANGE AND GALL MEDICINE FOR ANIMALS. JOHN B. LYONS, Norphlet, Ark.
Filed June 7, 1927. Serial No. 250,128. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,287. STRETCHERS AND SEALERS EMPLOYED IN THE ACME METHOD OF LOADING FREIGHT CARS AND THE LIKE. ACME STEEL COMPANY, Chicago, Ill.
Filed June 11, 1927. Serial No. 250,345. PUBLISHED FEBRUARY 14, 1928. Class 23.

241,288. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. THE VILLA PARK ORCHARDS ASSOCIATION, Villa Park, Calif.
Filed June 21, 1927. Serial No. 250,875. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,289. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. TEAGUE-MCKEVETT COMPANY, Santa Paula, Calif.
Filed June 21, 1927. Serial No. 250,869. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,290. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. THE VILLA PARK ORCHARDS ASSOCIATION, Villa Park, Calif.
Filed June 21, 1927. Serial No. 250,877. PUBLISHED FEBRUARY 14 ,1928. Class 46.

241,291. FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. THE VILLA PARK ORCHARDS ASSOCIATION, Villa Park, Calif.
Filed June 21, 1927. Serial No. 250,876. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,292. CANNED FRUITS, CANNED VEGETABLES. NEW YORK CANNERS, INC., Rochester, N. Y.
Filed June 24, 1927. Serial No. 251,074. PUBLISHED DECEMBER 13, 1927. Class 46.

241,293. DRESSES FOR WOMEN AND MISSES. LEHRER & CORDAY, New York, N. Y.
Filed October 8, 1927. Serial No. 255,811. PUBLISHED DECEMBER 13, 1927. Class 39.

241,294. GINGER ALE. FRESNO BEVERAGE COMPANY, Fresno and Los Angeles, Calif.
Filed October 12, 1927. Serial No. 255,979. PUBLISHED FEBRUARY 14, 1928. Class 45.

241,295. DILL PICKLES, SOUR PICKLES, SWEET PICKLES, SOUR MIXED PICKLES, CHOWCHOW, AND SWEET RELISH. RECHT & ROSENBAUM, INC., New York, N. Y.
Filed October 12, 1927. Serial No. 256,010. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,296. EFFERVESCENT PURGATIVE. RAMON LOPEZ IRIZARRY, doing business as Laboratoire Chimique Supreme (Supreme Chemical Laboratories), Mayaguez, P. R.
Filed October 17, 1927. Serial No. 256,192. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,297. WOMEN'S FROCKS AND COATS. LOUIS K. ELLENBOGEN, New York, N. Y.
Filed October 19, 1927. Serial No. 256,286. PUBLISHED JANUARY 10, 1928. Class 39.

241,298. BREAD, CANNED RED KIDNEY BEANS; MACARONI, DRY; NOODLES, DRY; SPAGHETTI, DRY; OLIVES, CANNED PINEAPPLE, CANNED PEACHES, CANNED SUCCOTASH, CRULLERS, AND COFFEE AND VANILLA FOOD-FLAVORING EXTRACT. SHAFFER STORES COMPANY, Altoona, Pa.
Filed October 20, 1927. Serial No. 256,378. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,299. LIQUID FUEL WHICH IS NOT PRIMARILY AN OIL, BUT PREFERABLY VOLATILE, FOR GASIFICATION OR VAPORIZATION, ESPECIALLY FOR USE FOR HEATING AND ILLUMINATING. LIQUO-GAS COMPANY, Erie, Pa.
Filed October 21, 1927. Serial No. 256,413. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,300. MEDICINAL PREPARATION IN TABLET FORM FOR INTERNAL USE AS AN ORGANIC IRON BLOOD TONIC AND NERVE STIMULANT. SAMUEL O. BRONSTEIN, doing business as Bronstein Pharmical Co., Not Inc., Chicago, Ill.
Filed October 22, 1927. Serial No. 256,446. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,301. CERTAIN NAMED CLEANING CLOTHS AND TOWELS. BROWN & SORRENSEN, New York, N. Y.
Filed October 25, 1927. Serial No. 256,561. PUBLISHED FEBRUARY 14, 1928. Class 42.

241,302. ANTISEPTIC TABLETS, VAGINAL-DOUCHE TABLETS, VAGINAL ANTISEPTIC, AND VAGINAL OINTMENT. HAROLD L. DE BAR, Los Angeles, Calif.
Filed October 26, 1927. Serial No. 256,614. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,303. BUILT-IN MEDICINE CABINETS. HOSSGER INC., Jersey City, N. J.
Filed October 27, 1927. Serial No. 256,672. PUBLISHED JANUARY 10, 1928. Class 32.

241,304. POTATO CHIPS. PO-GO FOOD COMPANY, INC., Miami, Fla.
Filed October 27, 1927. Serial No. 256,683. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,305. LIQUID FOR THE TREATMENT OF PYORRHEA. FREDERICK J. ABBOTT, New York, N. Y.
Filed November 7, 1927. Serial No. 257,134. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,306. WHEAT FLOUR. RED LION MILLING COMPANY, Red Lion, Pa.
Filed November 9, 1927. Serial No. 257,311. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,307. CANNED SALMON. ALASKA CONSOLIDATED CANNERIES INC., Seattle, Wash.
Filed March 26, 1927. Serial No. 246,878. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,308. FRESH ORANGES AND GRAPEFRUIT. ORLANDO ORANGE GROVES COMPANY, INC., Orlando, Fla.
Filed March 28, 1927. Serial No. 246,405. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,309. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed April 16, 1927. Serial No. 247,533. PUBLISHED FEBRUARY 14, 1928. Class 42.

241,310. TEA, COFFEE, EGGS, BREAD, CAKE, HOMINY, RICE, AND CORN MEAL. THOS. ROULSTON INC., Brooklyn, N. Y.
Filed April 26, 1927. Serial No. 248,016. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,311. DRIED PRUNES. EARL E. MELONE, Saratoga, Calif.
Filed March 24, 1927. Serial No. 246,301. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,312. DRY PASTE FOR WALL-PAPER HANGING, LABELING, BILLPOSTING, AND ALL OTHER COMMERCIAL USES. MINER HILLARD MILLING CO., Wilkes-Barre, Pa.
Filed February 21, 1927. Serial No. 244,710. PUBLISHED FEBRUARY 14, 1928. Class 5.

241,313. ROUGES, CREAMS, AND TOILET POWDER. THE MILLINGTON COMPANY, INC., Boston, Mass.
Filed February 12, 1927. Serial No. 244,311. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,314. CANDY. ALBERTA CANDY CO., INC., San Francisco, Calif.
Filed February 10, 1927. Serial No. 244,123. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,315. GLASS GLOBES AND REFRACTORS. HOLOPHANE COMPANY, INC., New York, N. Y.
Filed January 17, 1927. Serial No. 242,951. PUBLISHED FEBRUARY 14, 1928. Class 33.

241,316. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT; FRESH DECIDUOUS FRUITS—NAMELY, AVOCADOS, PERSIMMONS, POMEGRANATES, APPLES, AND PEARS. CHARLES C. CHAPMAN, Fullerton and Lindsay, Calif.
Filed January 14, 1927. Serial No. 242,819. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,317. KNITTED, NETTED, AND WOVEN TEXTILE FABRICS CONSISTING OF WOOLEN, WORSTED, AND COTTON TEXTILES. STEIN BROTHERS, Williamsport, Pa.
Filed December 28, 1926. Serial No. 241,909. PUBLISHED FEBRUARY 14, 1928. Class 42.

241,318. MILK AND MILK PRODUCTS—NAMELY, WHOLE-MILK POWDER, SKIM-MILK POWDER, AND INFANTS' FOOD. HARRIS ALTMAN & CO. INC., New York, N. Y.
Filed December 14, 1926. Serial No. 241,480. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,319. SUBSTITUTE FOR SUGAR—NAMELY, A PREPARATION MADE FROM CORN SUGAR, GELATINE, SULPHATES, ETC., TO BE USED AS A SUBSTITUTE FOR THE SUGAR INGREDIENT IN JELLIES, ICES, BEVERAGES, ETC. LOUIS SCHLOSSER, doing business as L. Schlosser & Company, Chicago, Ill.
Filed October 2, 1926. Serial No. 238,078. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,320. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT; FRESH DECIDUOUS FRUITS—NAMELY, POMEGRANATES, PEACHES, AND QUINCES. TULE RIVER CITRUS ASSOCIATION, Success, Calif.
Filed September 24, 1926. Serial No. 237,711. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,321. MANUFACTURED LIVESTOCK FOODS. THE LAKE SHORE ELEVATOR COMPANY, Cleveland, Ohio.
Filed September 1, 1926. Serial No. 236,760. PUBLISHED NOVEMBER 16, 1926. Class 46.

241,322. MANUFACTURED LIVESTOCK FOODS. THE LAKE SHORE ELEVATOR COMPANY, Cleveland, Ohio.
Filed September 1, 1926. Serial No. 236,759. PUBLISHED NOVEMBER 16, 1926. Class 46.

241,323. FRESH VEGETABLES—NAMELY, TOMATOES; FRESH DECIDUOUS FRUITS—NAMELY, CACTUS APPLES AND FRESH GRAPES. PETE FERRARIS, doing business as P. Ferraris Fruit and Produce, Los Angeles, Calif.
Filed May 21, 1926. Serial No. 231,992. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,324. PREPARATION FOR THE TREATMENT OF TUBERCULOSIS, ASTHMA, BRONCHITIS, COLDS, AND COUGHS. WILLIAM D. STOKES, Baton Rouge, La.
Filed May 14, 1926. Serial No. 231,641. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,325. VARNISH, ENAMEL, AND LACQUER. REPUBLIC PAINT & VARNISH WORKS, Chicago, Ill.
Filed April 9, 1926. Serial No. 229,930. PUBLISHED MAY 31, 1927. Class 16.

241,326. POTATO CHIPS. DERNELL POTATO PRODUCTS CO., Chicago, Ill.
Filed March 31, 1926. Serial No. 229,437. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,327. FABRICS OF RAYON AND DRESS AND GARMENT LENGTHS OF THIS FABRIC. BEAR MILL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed December 26, 1925. Serial No. 225,163. PUBLISHED FEBRUARY 14, 1928. Class 42.

241,328. CRACKERS. AMERICAN BISCUIT COMPANY, San Francisco, Calif.
Filed October 14, 1925. Serial No. 221,688. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,329. CANDY MINTS. W. P. CHASE CANDY CORP., New York, N. Y.
Filed September 26, 1925. Serial No. 220,879. PUBLISHED JANUARY 25, 1927. Class 46.

241,330. AUTOMOBILES AND CONSTRUCTIVE PARTS THEREOF. GRAHAM-PAIGE MOTORS CORPORATION, Detroit, Mich.
Filed January 12, 1928. Serial No. 260,010. PUBLISHED FEBRUARY 21, 1928. Class 19.

241,331. CHEWING GUM FOR COUGHS AND COLDS. SCHICK AND SON, Wilmerding, Pa.
Filed December 31, 1927. Serial No. 259,596. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,332. WARDROBE TRUNKS. NATIONAL TRUNK CORPORATION, Racine, Wis.
Filed December 31, 1927. Serial No. 259,573. PUBLISHED FEBRUARY 14, 1928. Class 3.

241,333. COLD CREAM, BATH SALTS, PERFUME, ALMOND MEAL, TOILET CERATE, HEADACHE COLOGNE, FACE POWDER, BATH POWDER, TALCUM POWDER, TOOTH POWDER, TOOTH PASTE, TOILET WATER, SMELLING SALTS, SKIN AND TISSUE CREAM, LIP ROUGE, SACHET, AND VANISHING CREAM. RICHARD HUDNUT, New York, N. Y.
Filed December 31, 1927. Serial No. 259,563. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,334. COLD CREAM, BATH SALTS, PERFUME, ALMOND MEAL, TOILET CERATE, HEADACHE COLOGNE, FACE POWDER, BATH POWDER, TALCUM POWDER, TOOTH POWDER, TOOTH PASTE, TOILET WATER, SMELLING SALTS, SKIN AND TISSUE CREAM, LIP ROUGE, SACHET, AND VANISHING CREAM. RICHARD HUDNUT, New York, N. Y.
Filed December 31, 1927. Serial No. 259,560. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,335. BEVERAGE CONTAINING APPLE JUICE. THE HILDICK CORPORATION, New York, N. Y.
Filed December 31, 1927. Serial No. 259,555. PUBLISHED FEBRUARY 14, 1928. Class 45.

241,336. WIRE-STAPLING MACHINES AND WIRE-TACKING MACHINES. GERTRUDE H. HEYN, Westport, Conn.
Filed December 31, 1927. Serial No. 259,553. PUBLISHED FEBRUARY 14, 1928. Class 23.

241,337. PRINTING MACHINES. ADDRESSOGRAPH COMPANY, Chicago, Ill.
Filed December 31, 1927. Serial No. 259,522. PUBLISHED FEBRUARY 14, 1928. Class 23.

241,338. FRESH OR RAW MILK AND CREAM. AMERICAN ASSOCIATION OF MEDICAL MILK COMMISSIONS, INC., doing business as Certified Milk Producers' Association of America, Inc., Brooklyn, N. Y.
Filed December 30, 1927. Serial No. 259,518. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,339. COD-LIVER-OIL EMULSION. CHARLES T. CLARK, doing business as Clark Chemical Co., Bay City, Mich.
Filed December 30, 1927. Serial No. 259,488. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,340. EXTERNAL SALVE USED FOR THE TREATMENT OF COUGHS AND COLDS, CATARRH, BRONCHITIS, CROUP, AND LIKE AFFLICTIONS RESULTING FROM CONGESTION AND FOR THE TREATMENT OF SPRAINS, RHEUMATISM, AND INFLAMMATION AND ERUPTIONS OF THE SKIN. J. E. MCBRADY, doing business as J. E. McBrady & Co., Chicago, Ill.
Filed December 29, 1927. Serial No. 259,452. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,341. INCENSE PERFUME. IWATA TRADING CO., INC., San Francisco, Calif.
Filed December 29, 1927. Serial No. 259,447. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,342. WHEAT FLOUR. MARQUIS FLOUR MILLING COMPANY, Scobey, Mont.
Filed December 27, 1927. Serial No. 259,368. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,343. GERMICIDAL INHALANTS FOR NOSE, MOUTH, AND THROAT AFFECTIONS. EUGENE E. BEADLE, doing business as The Pickett Drug Company, Waterbury, Conn.
Filed December 27, 1927. Serial No. 259,347. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,344. FOLDING DESK TABLES. JOHN SCHROEDER LUMBER CO., Milwaukee, Wis.
Filed December 21, 1927. Serial No. 259,220. PUBLISHED FEBRUARY 14, 1928. Class 32.

241,345. PREPARATION FOR USE IN THE TREATMENT OF DISEASES AND DISORDERS OF THE STOMACH AND INTESTINES. LES LABORATOIRES DUBET & REMY, Asnieres, France.
Filed December 20, 1927. Serial No. 259,180. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,346. CHEMICAL USED IN DYEING. PHILIP A. HUNT COMPANY, Brooklyn, N. Y.
Filed December 20, 1927. Serial No. 259,176. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,347. LIQUID LINIMENT FOR THE TREATMENT OF RHEUMATISM, COUGHS, COLDS, SOUR STOMACH, HEADACHES, AND ERUPTIONS OF THE SKIN. JOHN TRILIS, Beechbottom, W. Va.
Filed December 19, 1927. Serial No. 259,147. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,348. ANTISEPTIC POWDER. ARTHUR C. THORPE, doing business as Ecopo Chemical Company, Los Angeles, Calif.
Filed December 19, 1927. Serial No. 259,146. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,349. MALT AND PORTER-MALT SYRUPS. THE HOLLAND DISTRIBUTING COMPANY, Philadelphia, Pa.
Filed December 19, 1927. Serial No. 259,114. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,350. CANNED SHRIMP, CANNED RAVIOLIS, AND CANNED OYSTERS. DUNBAR-DUKATE COMPANY, INC., New Orleans, La.
Filed December 17, 1927. Serial No. 259,053. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,351. CLAM CHOWDER, CLAM JUICE, AND CLAM BROTH IN BOTTLED FORM. ART-BERNOT, INC., New York, N. Y.
Filed December 17, 1927. Serial No. 259,037. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,352. CONDITIONER FOR FIBRES FOR WEAVING—VIZ, FOR WETTING OUT, BOILING OUT, BLEACHING, SCOURING, SOFTENING, SOAKING, THROWING, DEGUMMING, DYEING, FINISHING, WEIGHTING, LUBRICATING, CLEANING, AND RENDERING HYGROSCOPIC ALL FIBRES, YARNS, AND FABRICS CONSISTING OF AND MADE FROM COTTON, WOOL, SILK, ART SILK, RAYON, CELANESE, TUSSAH, JUTE, HEMP, SISAL, CHINA GRASS, AND OTHER FIBRES OF AN ANIMAL, VEGETABLE, OR CHEMICAL NATURE. JOHN CAMPBELL & CO., New York, N. Y.
Filed December 16, 1927. Serial No. 259,006. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,353. LINIMENT FOR THE RELIEF OF PAIN, FOOT TROUBLES SUCH AS CORNS AND CALLOUSES, NEURALGIA, NEURITIS, SORE AND ACHING MUSCLES, SORE THROAT, STIFF NECK, PLEURISY, BRONCHITIS, CHEST COLDS, HAY FEVER, HEADACHE, BITES, STINGS, RHEUMATISM, SCIATICA, STRAINS, AND LUMBAGO. RUDOLPH W. KERN, Riverside, Calif.
Filed December 12, 1927. Serial No. 258,984. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,354. INK ERADICATOR. SCRIPTEX INK AND PASTE CO., Philadelphia, Pa.
Filed December 15, 1927. Serial No. 258,981. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,355. LIQUID PASTE. SCRIPTEX INK AND PASTE CO., Philadelphia, Pa.
Filed December 15, 1927. Serial No. 258,979. PUBLISHED FEBRUARY 7, 1928. Class 5.

241,356. DEODORANTS. WESTERN CHEMICAL COMPANY, St. Joseph, Mo.
Filed December 14, 1927. Serial No. 258,925. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,357. INSECTICIDE. KOSSMAN CHEMICAL CO., New Orleans, La.
Filed December 13, 1927. Serial No. 258,873. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,358. TABLETS FOR USE AS AN ANALGESIC, ANTIPYRETIC, AND FEBRIFUGE. FIRST TEXAS CHEMICAL MANUFACTURING CO., Dallas, Tex.
Filed December 13, 1927. Serial No. 258,868. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,359. A PREPARATION FOR THE TREATMENT OF BRONCHIAL DISORDERS. FIRST TEXAS CHEMICAL MANUFACTURING CO., Dallas, Tex.
Filed December 13, 1927 Serial No 258,861. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,360. EGGS. A. F. THIBODEAU CO. INC., Detroit, Mich.
Filed December 12, 1927. Serial No. 258,844. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,361. CERTAIN NAMED PAINT PRODUCTS. THYBONY & BENOTSON, Chicago, Ill.
Filed November 19, 1927. Serial No. 257,821. PUBLISHED FEBRUARY 14, 1928. Class 16.

241,362. OLIVE OIL. P. PASTENE & CO. INC., Boston, Mass.
Filed December 10, 1927. Serial No. 258,766. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,363. CRACKERS, COOKIES, BISCUITS, WAFERS, AND PRETZELS. INDEPENDENT BAKING COMPANY, Davenport, Iowa.
Filed December 10, 1927. Serial No. 258,747. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,364. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed December 10, 1927. Serial No. 258,730. PUBLISHED FEBRUARY 14, 1928. Class 43.

241,365. SCYTHES. WESTERN IMPORTING COMPANY, Minneapolis, Minn.
Filed December 9, 1927. Serial No. 258,706. PUBLISHED FEBRUARY 14, 1928. Class 23.

241,366. MEDICINAL PREPARATION FOR INTERNAL TREATMENT OF CRAMPS, COLIC, CHOLERA MORBUS, AND DIARRHŒA, AND THE EXTERNAL TREATMENT OF BRUISES, STRAINS, SPRAINS, NEURALGIC PAIN, TOOTHACHE, AND MYALGIA AND AS A LINIMENT FOR VETERINARY PURPOSES. SAMUEL W. WORTHINGTON, doing business as Dr. Worthington's Southern Mfg. Co., Wilson, N. C.
Filed December 7, 1927. Serial No. 258,608. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,367. NONINTOXICATING CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL BY VOLUME. JOHN F. TROMMER, INC., Brooklyn, N. Y.
Filed December 7, 1927. Serial No. 258,606. PUBLISHED FEBRUARY 14, 1928. Class 48.

241,368. ANTIFREEZE SOLUTION FOR AUTOMOBILE COOLING SYSTEMS. VACU-TITE COMPANY, Chicago, Ill.
Filed December 8, 1927. Serial No. 258,437. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,369. LAXATIVE TABLETS. LANMAN & KEMP, INC., New York, N. Y.
Filed December 8, 1927. Serial No. 258,416. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,370. NUT CONFECTION. JOHN L. LONG, Madisonville, Ky.
Filed December 8, 1927. Serial No. 258,419. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,371. METAL RADIATOR COVERS. HAL DANIELL, doing business as The Radova Co., Atlanta, Ga.
Filed December 8, 1927. Serial No. 258,405. PUBLISHED FEBRUARY 14, 1928. Class 32.

241,372. OIL-EMULSION SPRAY SOLUTION, SAID SOLUTION BEING USED FOR SPRAYING FRUIT TREES TO ERADICATE SCALE AND OTHER DISEASES. WINCHESTER FRUIT EXCHANGE INC., Winchester, Va.
Filed December 2, 1927. Serial No. 258,387. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,373. BREAD—VIZ, PUMPERNICKEL. PECHTER BAKING CO. INC., New York, N. Y.
Filed December 1, 1927. Serial No. 258,281. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,374. BAKING POWDER. L. H. PARKE COMPANY, Philadelphia, Pa.
Filed December 1, 1927. Serial No. 258,277. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,375. TOMATO CATSUP, TOMATO SAUCE, AND DRIED FRUITS. EMERY FOOD COMPANY, Chicago, Ill.
Filed December 1, 1927. Serial No. 258,255. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,376. TABLE-CUTLERY HANDLES MADE OF BASE METAL. CARL H. HEMMING, doing business as The Sta-Brite Cutlery Co., New Haven, Conn.
Filed November 30, 1927. Serial No. 258,228. PUBLISHED FEBRUARY 14, 1928. Class 23.

241,377. MEDICINAL BATH PREPARATIONS FOR THE TREATMENT OF MUSCULAR AND JOINT AFFLICTIONS CAUSED BY RHEUMATISM, ARTHRITIS, GOUT, OR GONORRHEA; NEURALGIA, INFLAMMATORY EXUDATES OF THE FEMALE SEX ORGANS, CATARRH, LUMBAGO, FIBROSITIS, PSORIASIS, SCIATICA, SEVERE COLDS, BRONCHIAL CONGESTIONS, AND OTHER KINDRED CONDITIONS. ERNST HAMMEL, doing business as Chem. Pharm. Laboratorium Fur Transkutan Praparate, Berlin, Germany.
Filed November 30, 1927. Serial No. 258,209. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,378. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER. EDWARD FRIEDMAN, INC., New York, N. Y.
Filed November 29, 1927. Serial No. 258,175. PUBLISHED FEBRUARY 7, 1928. Class 39.

241,379. PAINT IN DRY AND LIQUID FORM. LEON SEIDEMAN, doing business as The L. S. French Laboratories, New York, N. Y.
Filed November 28, 1927. Serial No. 258,139. PUBLISHED FEBRUARY 14, 1928. Class 16.

241,380. SALTED AND CANDIED NUTS AND NUTS IN THEIR NATURAL CONDITION, EITHER SHELLED OR UNSHELLED. EDWARD F. KEMP, doing business as Radio Nut Company, Somerville, Mass.
Filed November 22, 1927. Serial No. 257,929. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,381. SALTED AND CANDIED NUTS AND NUTS IN THEIR NATURAL CONDITION, EITHER SHELLED OR UNSHELLED. EDWARD F. KEMP, doing business as Radio Nut Company, Somerville, Mass.
Filed November 22, 1927. Serial No. 257,928. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,382. REMEDY FOR INFLAMMATION. PARKE, DAVIS & Co., Detroit, Mich.
Filed November 21, 1927. Serial No. 257,894. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,383. BUTTER, EGGS, CHEESE, PURE PORK SAUSAGE, AND FRANKFURTS. OMAHA PACKING COMPANY, INC., Chicago, Ill.
Filed November 21, 1927. Serial No. 257,892. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,384. PERFUMES AND TOILET WATERS. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed November 21, 1927. Serial No. 257,861. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,385. EGG MASH, MASH, ALL-MASH CHICK STARTER, ALL-MASH GROWER, CHICK STARTER, GROWING MASH, SCRATCH FEED, CRATE FATTENER, PIGEON FEED, DAIRY RATION, DAIRY FEED, HOG MEAL, HORSE FEED, CALF MEAL, AND PIG MEAL. THE MCMILLEN COMPANY, Fort Wayne, Ind.
Filed November 21, 1927. Serial No. 257,842. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,386. KNITTED PIECE GOODS OF WOOL, SILK, RAYON, COTTON, WORSTED, AND COMBINATIONS THEREOF. I. A. WINER & Co., INC., New York, N. Y.
Filed November 19, 1927. Serial No. 257,836. PUBLISHED FEBRUARY 14, 1928. Class 42.

241,387. LADIES', MISSES', AND JUNIORS' SPORT COATS AND DRESS COATS. GOLDSMITH & MATLICK, New York, N. Y.
Filed November 19, 1927. Serial No. 257,800. PUBLISHED JANUARY 10, 1928. Class 39.

241,388. LAXATIVE DIGESTANT TABLETS. GEOFFREY PEPLOW, doing business as The Peplow Company, Pasadena, Calif.
Filed November 17, 1927. Serial No. 257,702. PUBLISHED FEBRUARY 14, 1928. Class 6.

241,389. SELF-RISING FLOUR. EISENMAYER MILLING Co., Springfield, Mo.
Filed November 14, 1927. Serial No. 257,538. PUBLISHED FEBRUARY 14, 1928. Class 46.

241,390. METAL POLISH FOR CLEANING PRECIOUS METALS, SUCH AS SILVER, GOLD, WHITE GOLD, AND PLATINUM. EDWARD A. BROWNE, doing business as E. A. Browne & Co., Yonkers, N. Y.
Filed December 5, 1927. Serial No. 258,457. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,391. CIRCULARS AND OTHER LITERATURE. HARVEY W. BAILEY, doing business as General Research Foundation Society, Seattle, Wash.
Filed December 6, 1927. Serial No. 258,512. PUBLISHED FEBRUARY 14, 1928. Class 38.

241,392. SOLDER. DAVID METZGER INC., New York, N. Y.
Filed December 9, 1927. Serial No. 258,695. PUBLISHED FEBRUARY 14, 1928. Class 14.

241,393. MOPS, DUSTERS, AND BRUSHES. THE DONALD BRUSH COMPANY, Camden, N. J.
Filed December 14, 1927. Serial No. 258,897. PUBLISHED FEBRUARY 14, 1928. Class 29.

241,394. MOPS, DUSTERS, AND BRUSHES. THE DONALD BRUSH COMPANY, Camden, N. J.
Filed December 14, 1927. Serial No. 258,898. PUBLISHED FEBRUARY 14, 1928. Class 29.

241,395. LOCOMOTIVE AND CAR REPLACER. GEORGE T. CHAMBERS, La Grange, Ill.
Filed December 21, 1927. Serial No. 259,199. PUBLISHED FEBRUARY 14, 1928. Class 14.

241,396. TOILET SOAP ESPECIALLY ADAPTED FOR THE HAIR. HO-RO-CO MANUFACTURING COMPANY, St. Louis, Mo.
Filed December 16, 1927. Serial No. 259,005. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,397. FIREWORKS. J. HALPERN, doing business as J. Halpern Company, Pittsburgh, Pa.
Filed December 20, 1927. Serial No. 259,168. PUBLISHED FEBRUARY 14, 1928. Class 9.

241,398. MONTHLY MAGAZINES. PERSONAL ARTS COMPANY, Scranton, Pa.
Filed March 6, 1928. Serial No. 262,677. Class 38.

241,399. ANTACIDS. HYNSON, WESTCOTT & DUNNING, Baltimore, Md.
Filed July 8, 1927. Serial No. 251,670. PUBLISHED AUGUST 30, 1927. Class 6.

241,400. CLEANER FOR CLEANING AND REMOVING SPOTS FROM FABRICS, LEATHER GOODS, AND SIMILAR MATERIALS. A. B. SHOVER, doing business as S. M. C. Cleaner Company, Des Moines, Iowa.
Filed June 27, 1927. Serial No. 251,210. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,401. A POLISH FOR NICKEL, SILVER, BRASS, COPPER, ALUMINUM, AND GLASS. E. LEWIS, Denver, Colo.
Filed July 18, 1927. Serial No. 252,212. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,402. NEUTRAL PASTE AND LIQUID CLEANING AND POLISHING PRODUCTS USED FOR THE CLEANING AND POLISHING OF PAINTED, VARNISHED, LACQUERED, AND ENAMELED SURFACES, CARPETS, RUGS, AND FABRICS, SILVER, NICKEL, BRASS, AND ALL METAL SURFACES, MARBLE, TILE, AND TERRA COTTA. CLEAN SURFACE PRODUCTS COMPANY, Chicago, Ill.
Filed July 29, 1927. Serial No. 252,683. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,403. WHEAT FLOUR. THE LARABEE FLOUR MILLS COMPANY, doing business as The Interior Flour Mills Company, Kansas City, Mo.
Filed August 29, 1927. Serial No. 254,111. PUBLISHED DECEMBER 27, 1927. Class 46.

241,404. INDUSTRIAL WIPING CLOTHS. HILLSIDE COTTON MILLS, trading as Valley Mills, Lagrange, Ga.
Filed September 17, 1927. Serial No. 254,850. PUBLISHED FEBRUARY 7, 1928. Class 29.

241,405. WHEAT FLOUR. J. F. EESLEY MILLING COMPANY, Plainwell, Mich.
Filed September 21, 1927. Serial No. 255,000. PUBLISHED DECEMBER 27, 1927. Class 46.

241,406. WRITING TABLETS, WRITING BOOKS, AND BLANK BOOKS. MILLER PAPER COMPANY, INC., Syracuse, N. Y.
Filed October 8, 1927. Serial No. 255,816. PUBLISHED FEBRUARY 14, 1928. Class 37.

241,407. COOKIES, CAKES, CRACKERS, AND BISCUITS. THE ONTARIO BISCUIT COMPANY, Buffalo, N. Y.
Filed October 11, 1927. Serial No. 255,924. PUBLISHED DECEMBER 27, 1927. Class 46.

241,408. SUPPORTS OR TABS FOR MAPS AND SIMILAR SHEETS. HARRY W. HALL, San Francisco, Calif.
Filed October 15, 1927. Serial No. 256,120. PUBLISHED FEBRUARY 18, 1928. Class 37.

241,409. TABLE GAME. MARY V. MARTIN, doing business as M. V. Martin Mfg. Co., Los Angeles, Calif.
Filed November 9, 1927. Serial No. 257,298. PUBLISHED FEBRUARY 14, 1928. Class 22.

241,410. OILCLOTH NOVELTIES—NAMELY, TOYS FOR INFANTS. WASHME MANUFACTURING CO., Decatur, Ill.
Filed November 19, 1927. Serial No. 257,838. PUBLISHED FEBRUARY 14, 1928. Class 22.

241,411. PLAYGROUND AND GYMNASIUM APPARATUS, IN PARTICULAR CLIMBING FRAMES. JUNGLEGYM, INC., Chicago, Ill.
Filed November 21, 1927. Serial No. 257,876. PUBLISHED FEBRUARY 14, 1928. Class 22.

241,412. MAPS AND CHARTS. FELIX M. LOCHER, Fresno, Calif.
Filed November 26, 1927. Serial No. 258,086. PUBLISHED FEBRUARY 14, 1928. Class 38.

241,413. MEDICINE FOR ASTHMA, COLDS, HAY FEVER, AND BRONCHITIS. WILLIAMS MANUFACTURING CO., Cleveland, Ohio.
Filed November 26, 1927. Serial No. 258,104. PUBLISHED JANUARY 24, 1928. Class 6.

241,414. ABRASIVE PAPER. THE AMERICAN FLOOR SURFACING MACHINE COMPANY, Toledo, Ohio.
Filed December 2, 1927. Serial No. 258,808. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,415. WATER AND WEATHER PROOF PAPER TO BE USED FOR WRAPPINGS AND CONTAINERS SUCH AS BAGS, ENVELOPES, AND THE LIKE. THE SCUTAN COMPANY, Dover, Del., and Brooklyn, N. Y.
Filed May 27, 1927. Serial No. 249,677. PUBLISHED FEBRUARY 14, 1928. Class 37.

241,416. WEEKLY PUBLICATION. AMERICAN EDUCATION PRESS, INC., Columbus, Ohio.
Filed April 14, 1927. Serial No. 247,405. PUBLISHED FEBRUARY 14, 1928. Class 38.

241,417. RUBBER TYPE, RUBBER-TYPE SETS, OFFICE PRINTING OUTFITS, SOLID-RUBBER-TYPE DATES, TYPE HOLDERS, SIGN MARKERS (RUBBER FACED), RUBBER STAMPS, STAMP RACKS, RUBBER MOUNTS FOR STAMPS, RUBBER BALLOT MARKERS, TYPE POCKETS, AND STAMP BASES. THE SUPERIOR TYPE COMPANY, Chicago, Ill.
Filed December 29, 1926. Serial No. 242,152. PUBLISHED FEBRUARY 14, 1928. Class 37.

241,418. MOTION PICTURES. STERLING PICTURES DISTRIBUTING CORPORATION, New York, N. Y.
Filed December 11, 1926. Serial No. 241,860. PUBLISHED FEBRUARY 1, 1927. Class 26.

241,419. DIRT CHASER, SAME BEING A GENERAL HOUSEHOLD CLEANING AND POLISHING PREPARATION IN POWDER FORM. KEEK COMPANY, INC., St. Louis, Mo.
Filed June 15, 1927. Serial No. 250,548. PUBLISHED FEBRUARY 14, 1928. Class 4.

241,420. TOOTHBRUSHES. IODENT CHEMICAL COMPANY, Detroit, Mich.
Filed Aug. 26, 1926. Serial No. 236,488. PUBLISHED FEBRUARY 7, 1928. Class 29.

241,421. TOOTHBRUSHES. IODENT CHEMICAL COMPANY, Detroit, Mich.
Filed August 26, 1926. Serial No. 236,487. PUBLISHED FEBRUARY 7, 1928. Class 29.

241,422. ELECTRIC GRILLS FOR HOTEL, RESTAURANT, AND HOUSEHOLD USE. CLARENCE W. CARTER, doing business as The Auto Grill Co., Minneapolis, Minn.
Filed August 18, 1927. Serial No. 253,689. PUBLISHED FEBRUARY 21, 1928. Class 21.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

241,423. (CLASS 37. PAPER AND STATIONERY.) CLARK LOOSE LEAF MANUFACTURING COMPANY, New York, N. Y. Filed Feb. 12, 1927. Serial No. 244,287.

"Ever Ready"

Particular description of goods.—Bridge Pads.
Claims use since Feb. 2, 1927.

241,424. (CLASS 37. PAPER AND STATIONERY.) GLASS SALES AGENCY, INC., Oakland, Calif. Filed Jan. 15, 1927. Serial No. 242,887.

Merritt

Particular description of goods.—Toilet Paper, Paper Towels, and Paper Napkins.
Claims use since May 9, 1923.

241,425. (CLASS 37. PAPER AND STATIONERY.) THE BEVERIDGE PAPER COMPANY, Indianapolis, Ind. Filed Feb. 21, 1927. Serial No. 244,651.

CATHAY

Particular description of goods.—Cover Paper, Bristol and Card Board, Boxboard, Box-Cover Paper, Calendar Board, and Photo Mount.
Claims use since Nov. 1, 1926.

241,426. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH T. BRENNAN, doing business as D. H. Maguire & Co., Haverhill, Mass. Filed Mar. 7, 1927. Serial No. 245,328.

EASY WASH

Particular description of goods.—Preparation Used in Washing Clothes and Other General Household Cleaning.
Claims use since Oct. 7, 1903.

241,427. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLD MEDAL PRODUCTS CO., Philadelphia, Pa. Filed Mar. 17, 1927. Serial No. 245,901.

The Malt without a Fault

Particular description of goods.—A Barley Malt Syrup.
Claims use since Feb. 21, 1927.

241,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PYROXYLIN ART CO., Brooklyn, N. Y. Filed Mar. 23, 1927. Serial No. 246,224.

NICKELAC

Particular description of goods.—Compound for Protecting Metal from Rust and Oxidation.
Claims use since Feb. 5, 1927.

241,429. (CLASS 37. PAPER AND STATIONERY.) CLARK LOOSE LEAF MANUFACTURING COMPANY, New York, N. Y. Filed Mar. 31, 1927. Serial No. 246,668.

EVER READY

Particular description of goods.—Calendar and Desk Pads.
Claims use since 1911.

241,430. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAGAZINE REPEATING RAZOR COMPANY, Sound Beach, Conn. Filed Mar. 31, 1927. Serial No. 246,693.

SCHICK

Particular description of goods.—Razors and Razor Blades.
Claims use since Mar. 12, 1927.

241,431. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NICHOLAS DE MARK, doing business as De Mark Products Company, Pasadena, Calif. Filed June 21, 1927. Serial No. 250,839.

Tile-Kleen

Particular description of goods.—Cleaning Preparations—Namely, Tile Cleaner.
Claims use since Mar. 1, 1927.

241,432. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed July 14, 1927. Serial No. 252,022.

LOK-WALL

Particular description of goods.—Brick and Tile.
Claims use since Mar. 18, 1927.

241,433. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) D'ORSAY PERFUMERIES CORPORATION, New York, N. Y. Filed Aug. 18, 1927. Serial No. 253,641.

D'ORSAY

Particular description of goods.—Soaps.
Claims use since 1915.

241,434. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOODMAN & SUAS INC., Rochester, N. Y. Filed Oct. 14, 1927. Serial No. 256,081.

DUOPLY

Particular description of goods.—Woolen Fabrics.
Claims use since Oct. 9, 1926.

241,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDMANSON, BATES & COMPANY, LIMITED, Toronto, Ontario, Canada. Filed Nov. 30, 1927. Serial No. 258,218.

Dr. A.W. Chase's

Particular description of goods.—Pills for Relieving Headache, Biliousness, Liver and Kidney Trouble, Indigestion, Jaundice, and Constipation; Medicines for Treating Coughs, Colds, Catarrh, Nerves, and Liver; Liniment for Treating Cuts and Wounds, Hives, Burns, and Irritations of the Skin; Mouth Washes, and Plasters for Use in Relieving Backache.
Claims use since 1898.

241,436. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BROOKLYN DAILY EAGLE, Brooklyn, N. Y. Filed Dec. 31, 1927. Serial No. 259,519.

Helen Worth

Particular description of goods.—Column of the Woman's Page.
Claims use since 1922.

241,437. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE H. SMITH, doing business as Leto Remedy Company, San Antonio, Tex. Filed Jan. 9, 1928. Serial No. 259,882.

LETO'S

Particular description of goods.—A Preparation for the Treatment of Pyorrhea.
Claims use since March, 1924.

241,438. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SCRU-TITE CORPORATION, Newark, N. J. Filed Feb. 18, 1928. Serial No. 261,915.

SCRU-TITE

Particular description of goods.—Screw Anchor Nuts for Woodwork.
Claims use since Feb. 15, 1927.

241,439. (CLASS 38. PRINTS AND PUBLICATIONS.) THE WALLACE PRESS, Chicago, Ill. Filed Feb. 20, 1928. Serial No. 262,009.

TYPELESS PRINTING

Particular description of goods.—Maps, Diagrams, Plats, Booklets, Catalogues, Price Lists, Printed Commercial Forms, and Facsimile Letters.
Claims use since Feb. 7, 1927.

241,440. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Feb. 25, 1928. Serial No. 262,272.

United Press

Particular description of goods.—News Articles for Newspapers.
Claims use since June 19, 1907.

TRADE-MARK REGISTRATIONS RENEWED

29,634. CITRUS FRUITS SUCH AS ORANGES, LEMONS, AND GRAPEFRUIT. Registered March 2, 1897. WILLIAM B. WALL, Tustin, Calif. Renewed March 2, 1927, to Santiago Orange Growers Ass'n, Orange, Calif., a Corporation of California, assignee by mesne assignments.

31,397. A REMEDY FOR THE REMOVAL OF CORNS, CALLOUSES, BUNIONS, INGROWING NAILS, AND WARTS. Registered March 8, 1898. LINFORD J. SMITH, La Crosse, Wis. Renewed March 8, 1928, to Linford J. Smith, Denver, Colo.

31,900. TEA. Registered August 23, 1898. PETER C. LARKIN, Toronto, Ontario, Canada. Renewed August 23, 1928, to Salada Tea Company, Boston, Mass., a Corporation of Maine, assignee.

31,905. FLUID METERS. Registered August 23, 1898. NEPTUNE METER COMPANY, Jersey City, N. J., and New York, N. Y. Renewed August 23, 1928, to Neptune Meter Company, New York N. Y., a Corporation of New Jersey.

65,631. DENTIFRICES. Registered October 15, 1907. HENRY J. S. HALL, WM. HENRY HALL, MARTHA M. HALL, IRAD HAWLEY, executors of the estate of William Henry Hall, deceased. Renewed October 15, 1927, to Hall & Ruckel, Inc., New York, N. Y., a Corporation of New York, assignee.

67,722. LEATHER GLOVES. Registered February 18, 1908. SARANAC GLOVE COMPANY, Littleton, N. H., a Corporation of New Hampshire. Renewed February 18, 1928.

67,850. CERTAIN TOOLS. Registered February 25, 1908. THE CHILLINGTON TOOL COMPANY LIMITED, Wolverhampton, England, a Corporation of Great Britain. Renewed February 25, 1928.

68,099. METAL ROASTERS. Registered March 10, 1908. THE REPUBLIC METALWARE CO., Buffalo, N. Y., a Corporation of New York. Renewed March 10, 1928.

68,123. SHOTGUNS. Registered March 10, 1908. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 10, 1928, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, assignee.

68,158. RYE BREAD. Registered March 10, 1908. CHARLES J. BIEHLE, St. Louis, Mo. Renewed March 10, 1928.

68,285. CERTAIN FIREARMS AND PARTS THEREOF. Registered March 24, 1908. THE BIRMINGHAM SMALL ARMS COMPANY LIMITED, Small Heath, near Birmingham, England, a Corporation of Great Britain. Renewed March 24, 1928.

68,310. WHISKY. Registered March 24, 1908. JAMES BUCHANAN & CO. LIMITED, London, England, a Corporation of Great Britain. Renewed March 24, 1928.

68,316. PORCELAIN DISHES AND UTENSILS FOR HOUSEHOLD USE. Registered March 24, 1908. PORZELLANFABRIK PH. ROSENTHAL & CO. AKTIENGESELLSCHAFT, Selb, Germany. Renewed March 24, 1928, to The Rosenthal China Corporation, New York, N. Y., a Corporation of New York, assignee.

68,382. INK RIBBONS AND CARBON PAPER. Registered April 7, 1908. F. S. WEBSTER COMPANY. Renewed April 7, 1928, to F. S. Webster Company, Boston, Mass., a Corporation of Massachusetts, assignee.

68,468. RUBBER BOOTS AND SHOES AND RUBBER SOLES. Registered April 7, 1908. NATIONAL INDIA RUBBER CO., Bristol, R. I. Renewed April 7, 1928, to United States Rubber Company, New Brunswick, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

68,546. DISINFECTANTS. Registered April 14, 1908. CHEMISCHE FABRIKS WERKE GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Vienna, Austria. Renewed April 14, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,560. CERTAIN CLOTHING. Registered April 14, 1908. SAMUEL STERNBERGER & CO. Renewed April 14, 1928, to Eclipse-Needles Co., Philadelphia, Pa., a Corporation of Pennsylvania, assignee by mesne assignments.

68,570. OPTICAL INSTRUMENTS AND PARTS THEREOF. Registered April 14, 1908. CARL ZEISS, Jena, Germany. Renewed April 14, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,571. OPTICAL INSTRUMENTS AND PARTS THEREOF. Registered April 14, 1908. CARL ZEISS, Jena, Germany. Renewed April 14, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,572. OPTICAL INSTRUMENTS AND PARTS THEREOF. Registered April 14, 1908. CARL ZEISS, Jena, Germany. Renewed April 14, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,573. OPTICAL INSTRUMENTS AND PARTS THEREOF. Registered April 14, 1908. CARL ZEISS, Jena, Germany. Renewed April 14, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,587. CERTAIN CHEMICAL PREPARATIONS. Registered April 21, 1908. MAX ELB GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Dresden, Germany. Renewed April 21, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,797. LEATHER DRESSING AND LEATHER BLACKING. Registered April 28, 1908. DAIMLER-MOTOREN-GESELLSCHAFT, Unterturkheim, near Stuttgart, Germany. Renewed April 28, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

68,893. TWINES. Registered May 5, 1908. THE OVERMAN & SCHRADER CORDAGE CO., Cincinnati, Ohio. Renewed May 5, 1928, to The Hooven & Allison Company, Xenia, Ohio, a Corporation of Ohio, successors.

68,927. HARNESS, SADDLES, HORSE COLLARS, WHIPS, AND LAP ROBES. Registered May 5, 1908. THE HARRIS SADDLERY COMPANY. Renewed May 5, 1928, to Harris-Kahn Saddlery Co., Cairo, Ill., assignee by mesne assignments.

69,098. HORSE BLANKETS. Registered May 19, 1908. BURLINGTON BLANKET COMPANY, Burlington, Wis., a Corporation of Wisconsin. Renewed May 19, 1928.

69,100. STORAGE TANKS AND PARTS OF SAME. Registered May 19, 1908. LEADER IRON WORKS, Decatur, Ill., a Corporation of Illinois. Renewed May 19, 1928.

69,446. YARNS. Registered June 16, 1908. NORDDEUTSCHE WOLLKÄMMEREI & KAMMGARNSPINNEREI, Bremen and Delmenhorst, Germany, a Corporation of Germany. Renewed June 16, 1928.

69,448. AUGERS AND BITS. Registered June 16, 1908. THE RUSSELL JENNINGS MFG. CO., Chester, Conn., a Corporation of Connecticut. Renewed June 16, 1928.

69,586. LEATHER BOOTS AND SHOES. Registered June 23, 1908. HAYNES-HENSON SHOE CO., Knoxville, Tenn., a Corporation of Tennessee. Renewed June 23, 1928.

69,725. CERTAIN VEHICLES AND PARTS THEREOF. Registered June 30, 1908. THE BIRMINGHAM SMALL ARMS COMPANY LIMITED, Small Heath, near Birmingham, England, a Corporation of Great Britain. Renewed June 30, 1928.

69,810. LEATHER BOOTS AND SHOES. Registered July 7, 1908. HAYNES-HENSON SHOE CO., Knoxville, Tenn., a Corporation of Tennessee. Renewed July 7, 1928.

69,968. WHEAT FLOUR. Registered July 21, 1908. THE REA-PATTERSON MILLING COMPANY, Coffeyville, Kans., a Corporation of Kansas. Renewed July 21, 1928.

70,272. PORTLAND CEMENT. Registered August 18, 1908. THE SANDUSKY PORTLAND CEMENT COMPANY, Sandusky, Ohio. Renewed August 18, 1928, to The Sandusky Cement Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

70,339. CERTAIN MACHINES. Registered August 25, 1908. THE BIRMINGHAM SMALL ARMS COMPANY, LIMITED, Small Heath, near Birmingham, England, a Corporation of Great Britain. Renewed August 25, 1928.

70,369. SAFES. Registered August 25, 1908. HERRING-HALL-MARVIN SAFE COMPANY, Hamilton, Ohio, and New York, N. Y. Renewed August 25, 1928, to Herring-Hall-Marvin Safe Company, New York, N. Y., a Corporation of New York.

70,411. SAFES. Registered August 25, 1908. HERRING-HALL-MARVIN SAFE COMPANY, Hamilton, Ohio, and New York, N. Y. Renewed August 25, 1928, to Herring-Hall-Marvin Safe Company, New York, N. Y., a Corporation of New York.

70,418. A GINSENG COMPOUND. Registered August 25, 1908. NICHOLAS B. MATTLE, Syracuse, N. Y. Renewed August 25, 1928.

70,429. WRAPPING PAPER. Registered September 1, 1908. GRAHAM PAPER COMPANY., St. Louis, Mo., a Corporation of Missouri. Renewed September 1, 1928.

70,477. HOSIERY. Registered September 8, 1908. DOROTHY DODD SHOE COMPANY, Boston, Mass., a Corporation of New Jersey. Renewed September 8, 1928.

70,481. HOSIERY. Registered September 8, 1908. THOMAS G. PLANT COMPANY. Renewed September 8, 1928, to Thomas G. Plant Corporation, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

LABELS

REGISTERED APRIL 24, 1928.

33,873.—*Title:* FOUR-TO-ONE. For Gloves. THE CLEAVER MANUFACTURING CO., INC., Wilmington, Del., and Effingham, Ill. Published February 23, 1928.

33,874.—*Title:* COOK'S ORIENTAL BRAND COFFEE. For Coffee. A. H. COOK, doing business as Cook Tea & Coffee Co., Salt Lake City, Utah. Published August 6, 1927.

33,875.—*Title:* QUALITY SUPREME BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published November 5, 1927.

33,876.—*Title:* PEERLESS BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published November 11, 1927.

33,877.—*Title:* QUALITY ICE CREAM. For Ice Cream. WILLIAM DOANE, St. Louis, Mo. Published December 10, 1927.

33,878.—*Title:* QUALITY BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published December 10, 1927.

33,879.—*Title:* GRENNAN PEANUT COOKIES MADE FROM TESTED COOK BOOK. For Recipes, Cookies. GRENNAN BAKERIES, INCORPORATED, Chicago, Ill. Published December 30, 1927.

33,880.—*Title:* GEO. E. STIFEL CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 2, 1928.

33,881.—*Title:* FASHIONABLE FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 17, 1927.

33,882.—*Title:* QUALITY FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 2, 1928.

33,883.—*Title:* FOOTWEAR. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 14, 1928.

33,884.—*Title:* DE LUXE SLIPPERS. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 3, 1928.

33,885.—*Title:* WOMEN'S NOVELTY SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 11, 1928.

33,886.—*Title:* SHOES FOR EVERY OCCASION. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 9, 1928.

33,887.—*Title:* THE POKORNY SHOE. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 12, 1928.

33,888.—*Title:* L. S. DONALDSON CO. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 5, 1928.

33,889.—*Title:* ARCH SUPPORT SHOE. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 11, 1928.

33,890.—*Title:* QUALITY SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 5, 1928.

33,891.—*Title:* GOOD SHOES FOR EVERYBODY. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 17, 1927.

33,892.—*Title:* STERLING. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 12, 1928.

33,893.—*Title:* FOOTWEAR OF DISTINCTION. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 14, 1927.

33,894.—*Title:* FOLLOW DIAL FOR STYLE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published February 4, 1928.

33,895.—*Title:* QUALITY SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 7, 1928.

33,896.—*Title:* QUALITY SHOES. For Footwear. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 7, 1928.

33,897.—*Title:* TOWN CLUB. For Ginger Ale. MERCER BOTTLING CO., Trenton, N. J. Published March 1, 1928.

33,898.—*Title:* MILLERTONE LAXATIVE. For Laxative Preparation. JOSEPH MILLER, Newark, N. J. Published January 7, 1928.

33,899.—*Title:* S AND P. For Fresh Tomatoes. SANZONE-PALMISANO COMPANY, Cincinnati, Ohio. Published December 1, 1927.

33,900.—*Title:* SCOTLAND LINEN. For Writing Paper and Envelopes. THE TAYLOR-ATKINS PAPER COMPANY, East Hartford, Conn. Published February 16, 1928.

33,901.—*Title:* PINEAPPLE LINEN. For Writing Paper and Envelopes. THE TAYLOR-ATKINS PAPER COMPANY, East Hartford, Conn. Published February 16, 1928.

33,902.—*Title:* RITSY. For Egg Noodles. EDWARD P. VELAT, doing business as Ritsy Products Co., St. Paul, Minn. Published December 23, 1928.

33,903.—*Title:* WORLD SWEETS. For Candy, Nuts, and Other Confections. WORLD SWEETS, INC., Albuquerque, N. Mex. Published June 1, 1927.

33,904.—*Title:* WRIGLEY'S DULCE 16—CHICLE ROSADO. For Chewing Gum. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Published January 21, 1928.

PRINTS

REGISTERED APRIL 24, 1928.

10,788.—*Title:* A MERRY CHRISTMAS FROM ARMAND. For Cosmetics. THE ARMAND COMPANY, Des Moines, Iowa. Published November 1, 1927.

10,789.—*Title:* DE LA GUARDIA, INC. For Coal. DE LA GUARDIA, INC., New York, N. Y. Published March 5, 1928.

10,790.—*Title:* THE BEST I EVER TASTED. For Ginger Ale. ELCO DISTRIBUTING COMPANY, Chicago, Ill. Published January 10, 1928.

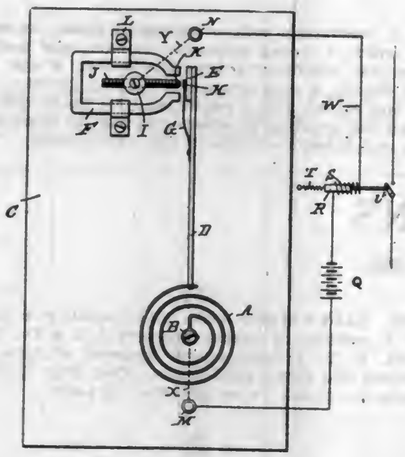
REISSUES

APRIL 24, 1928.

16,939. VAT DYESTUFF AND PROCESS OF MAKING SAME. JOSEPH G. DINWIDDIE, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 2, 1926. Serial No. 152,241. Original No. 1,558,252, dated Oct. 20, 1925, Serial No. 1,153, filed Jan. 8, 1925. 10 Claims. (Cl. 260—49.)

1. The process of producing a vat dyestuff which comprises condensing a halogenated isatin-chloride with one molecularly-equivalent amount of an hydroxy-methyl-halothionaphthene.

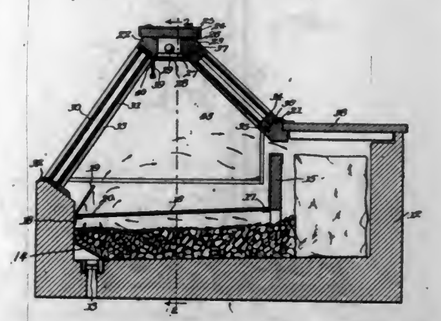
16,940. THERMOSTAT. ROBERT F. MASSA, New York, N. Y., assignor, by mesne assignments, to Ralph Penn and Albert Penn, Des Moines, Iowa. Filed Jan. 9, 1928. Serial No. 245,614. Original No. 1,146,637, dated July 13, 1915, Serial No. 800,398, filed Nov. 11, 1913. 11 Claims. (Cl. 200—87.)



1. In an automatic temperature controlling device the combination of a flexible, elastic thermostatic member, rigidly fastened at one point, an armature carried on said thermostatic member at another point, a magnetic field of varied intensity located within the line of travel of the armature when moved by the effect of varying temperature on the thermostatic member, a contact member located near the point of greatest intensity of the field and a cooperating contact member carried by the thermostatic member.

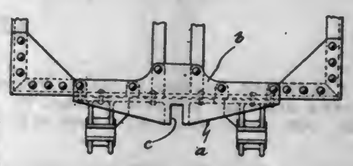
16,941. REFRIGERATING CASE. REUBEN E. OTTENHEIMER, Baltimore, Md., assignor to Ottenheimer Bros., Inc., Baltimore, Md., a Corporation of Maryland. Filed Feb. 8, 1928. Serial No. 252,920. Original No. 1,572,855, dated Feb. 9, 1926, Serial No. 6,151, filed Jan. 31, 1925. 14 Claims. (Cl. 62—37.)

1. The combination of a display case having a wide bottom, a top defined by a narrow frame structure, and an inclined transparent front sustained at its upper edge by said frame structure; artificial lighting means con-



cealed within the top of said frame structure; and refrigerating means arranged to exert a localized refrigerating effect in the lower portion of said case.

16,942. TRAILER LOCK. FREDERICK MALCOLM REID, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 29, 1927. Serial No. 164,593. Original No. 1,566,617, dated Dec. 22, 1925, Serial No. 10,747, filed Feb. 21, 1925. 10 Claims. (Cl. 280—33.1.)

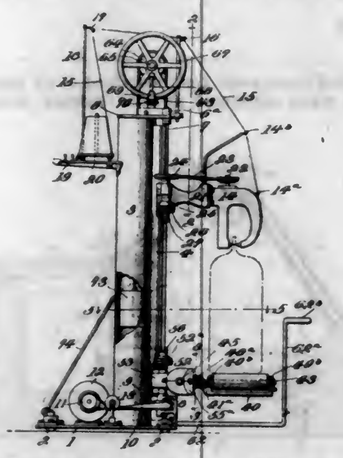


1. A center lock for vehicles, having in combination an upper member, a lower member, with two members arranged to have relative movement with respect to each other, a bolt guide housing on the one member, a table provided with a center keeper socket on the other member, a sliding bolt guided in the bolt guide and tending to project into the keeper socket when lined up therewith, and means connected with the outer end of the sliding bolt and operating in direct connection with the bolt guide housing to either release the bolt for automatic projection into the keeper socket or else to set the bolt against projection into the keeper socket.

16,943. LUBRICATING COMPOUND. RALPH PAGE JUDD, Cleveland, Ohio. Filed Sept. 9, 1926. Serial No. 134,568. Original No. 1,449,608, dated Mar. 27, 1923, Serial No. 380,598, filed May 11, 1920. 4 Claims. (Cl. 87—9.)

1. A lubricating compound consisting of lubricating oil thickened to the consistency of heavy grease by finely divided zinc white, in substantially the proportion of about five gallons of the oil and one hundred pounds of the zinc white.

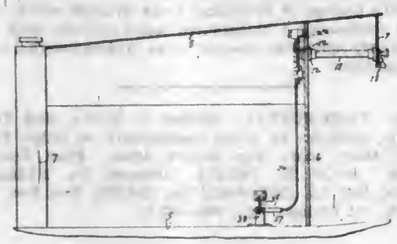
16,944. BAG-SEWING MACHINE. FRANK J. THULL, Minneapolis, Minn., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 28, 1926. Serial No. 132,291. Original No. 1,570,100, dated Jan. 19, 1926, Serial No. 726,501, filed July 17, 1924. 28 Claims. (Cl. 112—11.)



18. A machine for operating on bags comprising a column, a sewing head on said column, a conveyor normally disposed substantially horizontally for supporting bags and vertically movable on said column, said conveyor being pivoted about a substantially horizontal axis adjacent said column and swingable about said axis into substantially vertical depending position.

26. A bag sewing machine comprising a supporting frame structure including spaced vertical guides, a support for a filled bag mounted for vertical adjustment on said guides, means for adjusting said support, a sewing head mounted for vertical adjustment on said guides and overhanging the bag support, means for adjusting said sewing head, said sewing head and said support being movable substantially throughout the length of said supporting frame so that the range of adjustments of said head and said support overlap each other.

16,945. AUTOMOBILE THEFT LOCK. EDWARD R. KNIGHT, Carson City, Nev., assignor, by direct and mesne assignments, to Chas. E. Townsend, San Francisco, Calif. Filed Mar. 10, 1928. Serial No. 260,693. Original No. 1,598,529, dated Aug. 31, 1926, Serial No. 73,759, filed Dec. 7, 1925. 6 Claims. (Cl. 180—82.)

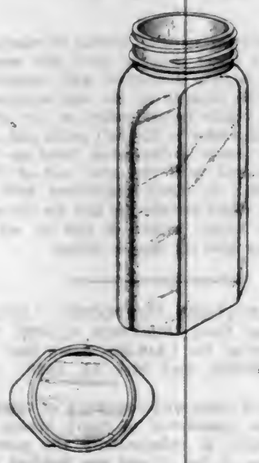


4. In combination with an automobile having an ignition system, a locking mechanism therefor, said locking mechanism comprising a key-actuated lock, a cam secured thereto, a wire actuated in opposite directions by said cam, extending to a remote point for the purpose of locking and unlocking an essential part of the automobile when said locking mechanism is selectively rotated.

DESIGNS

APRIL 24, 1928.

74,956. CANDY JAR. ALFRED S. ADAMS, WILLIS BURTON ADAMS, and PAUL S. MOYER, Chicago, Ill. Filed Nov. 29, 1926. Serial No. 19,877. Term of patent 14 years.



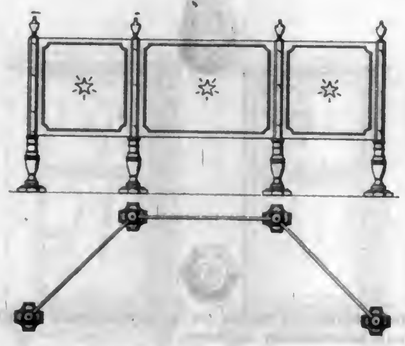
The ornamental design for a candy jar as shown.

74,957. LADY'S HAND BAG. MAX ARNOLD, New York, N. Y., assignor to Herman Scheuer's Sons & Co., New York, N. Y., a Copartnership composed of Jacob H. Scheuer and Henry Lichtenstein. Filed Sept. 7, 1927. Serial No. 23,318. Term of patent 3½ years.



The ornamental design for a lady's hand bag, substantially as shown.

74,958. SCREEN. ABRAHAM ASHKENAS, Brooklyn, N. Y. Filed Feb. 1, 1928. Serial No. 25,125. Term of patent 14 years.



The ornamental design for a screen, as shown.

74,959. SPINDLE FOR FURNITURE PIECES. OSCAR B. BACH, New York, N. Y. Filed Nov. 10, 1927. Serial No. 24,067. Term of patent 3½ years.



The ornamental design for a spindle for furniture pieces, as shown.

74,960. METAL BOWL OR SIMILAR ARTICLE. ERNEST T. BECK, Meriden, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed Nov. 9, 1927. Serial No. 24,051. Term of patent 7 years.



The ornamental design for a metal bowl or similar article as shown.

74,961. ICE-CREAM CONE. CHARLES F. BETZ, St. Louis, Mo., assignor to American Cone & Pretzel Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Nov. 14, 1927. Serial No. 24,122. Term of patent 7 years.



The ornamental design for an ice cream cone as shown.

74,962. CURTAIN-POLE END OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,292. Term of patent 3½ years.



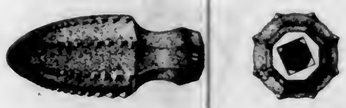
The ornamental design for a curtain pole end or similar article substantially as shown.

74,963. CURTAIN-POLE END OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,293. Term of patent 3½ years.



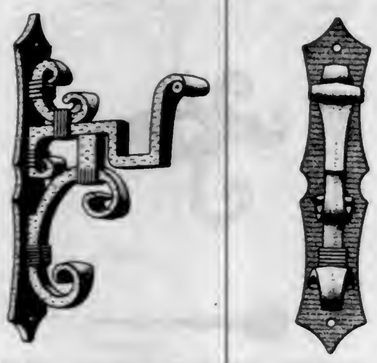
The ornamental design for a curtain pole end or similar article, substantially as shown.

74,964. CURTAIN-POLE END OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov 26, 1927. Serial No. 24,294. Term of patent 3½ years.



The ornamental design for a curtain pole end or similar article substantially as shown.

74,965. CURTAIN-POLE BRACKET OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,296. Term of patent 3½ years.



The ornamental design for a curtain pole bracket or similar article substantially as shown.

74,966. CURTAIN TASSEL OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1927. Serial No. 24,298. Term of patent 3½ years.





The ornamental design for a curtain tassel or similar article, substantially as shown.

74,967. CURTAIN-POLE END OR SIMILAR ARTICLE. JAMES O. CRAWFORD, Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y., a Corporation of New York. Filed Dec. 1, 1927. Serial No. 24,354. Term of patent 3½ years.





The ornamental design for a curtain pole end or similar article substantially as shown.

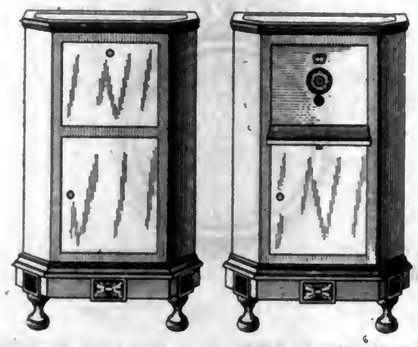
74,968. POWDER PUFF. EDNA DANIELSON, Berkeley, Calif. Filed Oct. 20, 1926. Serial No. 19,434. Term of patent 7 years.





The ornamental design for a powder puff substantially as shown.

74,969. RADIOCABINET. NOEL S. DUNBAR, New York, N. Y., assignor, by mesne assignments, to Splitdorf Radio Corporation, Newark, N. J. Filed Jan. 20, 1928. Serial No. 24,949. Term of patent 3½ years.



The ornamental design for a radiocabinet, as shown.

74,970. RADIOCABINET. NOEL S. DUNBAR, New York, N. Y., assignor, by mesne assignments, to Splitdorf Radio Corporation, Newark, N. J. Filed Jan. 20, 1928. Serial No. 24,950. Term of patent 3½ years.





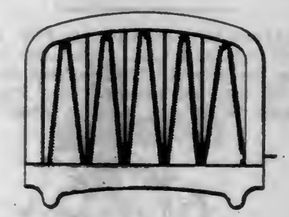
The ornamental design for a radiocabinet, as shown.

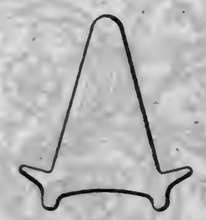
74,971. RADIOCABINET. NOEL S. DUNBAR, New York, N. Y., assignor, by mene assignments, to Splitdorf Radio Corporation, Newark, N. J. Filed Jan. 20, 1928. Serial No. 24,951. Term of patent 3½ years.



The ornamental design for a radiocabinet, as shown.

74,972. ELECTRIC TOASTER. GEORGE EATON, Cleveland, Ohio, assignor to May C. Eaton, Cleveland, Ohio. Filed Dec. 5, 1927. Serial No. 24,896. Term of patent 14 years.





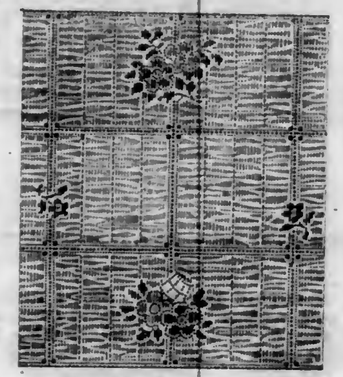
The ornamental design for an electric toaster, as shown.

74,973. HOLDER FOR GLASSES. SIMON W. FARBER, Brooklyn, N. Y. Filed Sept. 21, 1927. Serial No. 23,495. Term of patent 14 years.



The ornamental design for a holder for glasses substantially as shown.

74,974. LINOLEUM OR SIMILAR HARD-SURFACED FLOOR COVERING. OSCAR W. FAUSER, Bellerose, N. Y. Filed Oct. 29, 1927. Serial No. 23,929. Term of patent 7 years.



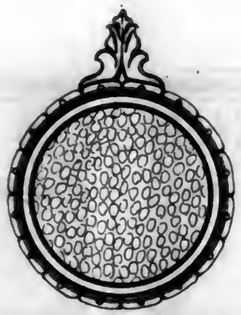
The ornamental design for linoleum or similar hard surfaced floor covering, substantially as shown and described.

74,975. ITALIAN-EFFECT GRILLE FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. HARRY R. HOLDEMAN, Los Angeles, Calif., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Filed Jan. 21, 1928. Serial No. 24,970. Term of patent 3½ years.



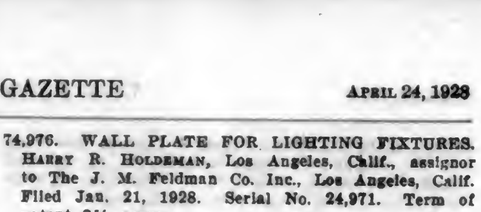
The ornamental design for an Italian effect grille for lighting fixtures or similar articles as shown.

74,976. WALL PLATE FOR LIGHTING FIXTURES. HARRY R. HOLDEMAN, Los Angeles, Calif., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Filed Jan. 21, 1928. Serial No. 24,971. Term of patent 3½ years.



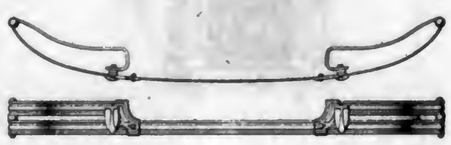
The ornamental design for a wall plate for lighting fixtures as shown.

74,977. VEHICLE BUMPER. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,621. Term of patent 14 years.



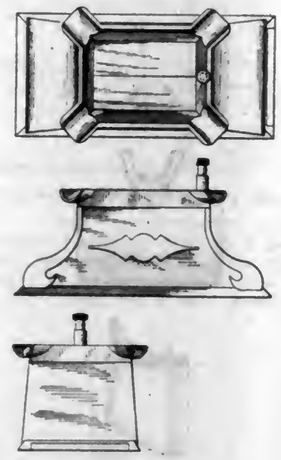
The ornamental design for a vehicle bumper substantially as shown.

74,978. VEHICLE BUMPER. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,627. Term of patent 14 years.



The ornamental design for a vehicle bumper, substantially as shown.

74,979. ASH TRAY. SAMUEL KIRSNER, Malden, Mass. Filed Nov. 11, 1927. Serial No. 24,082. Term of patent 14 years.



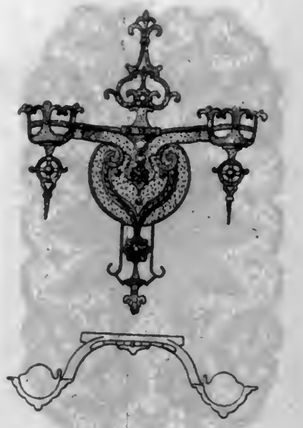
The ornamental design for an ash tray as shown.

74,980. COMBINED DESK SET AND PICTURE FRAME. HENRY AUGUST KRETSCHMER, La Grange Park, Ill. Filed Jan. 3, 1928. Serial No. 24,727. Term of patent 14 years.



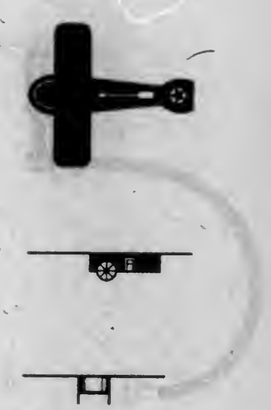
The ornamental design for a combined desk set and picture frame, as shown.

74,981. LIGHTING-FIXTURE WALL BRACKET OR ANALOGOUS ARTICLE. NORMAN LIPSKY, New York, N. Y., assignor to Halcolite Company, Inc., a Corporation of New York. Filed Feb. 21, 1928. Serial No. 25,530. Term of patent 7 years.



The ornamental design for a lighting fixture wall bracket or analogous article substantially as shown.

74,982. STICK-CANDY WRAPPER. CHARLES R. LUCE, New York, N. Y. Filed Jan. 20, 1928. Serial No. 24,943. Term of patent 14 years.



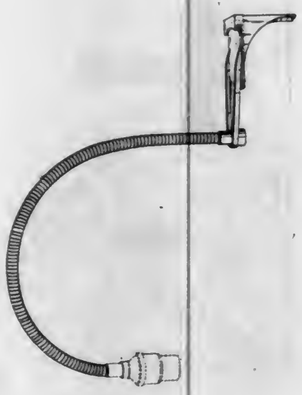
The ornamental design for a stick candy wrapper substantially as shown.

74,983. LACE MEDALLION. WALTER MEADS, Hightstown, N. J., assignor to Acme Lace Works, Inc., Hightstown, N. J., a Corporation of New Jersey. Filed Feb. 14, 1928. Serial No. 25,440. Term of patent 3½ years.



The ornamental design for a lace medallion, as shown.

74,984. BRACKET FOR LIGHTING FIXTURES. AUGUST G. MYERS, Cleveland, Ohio. Filed Jan. 23, 1926. Serial No. 16,231. Term of patent 7 years.



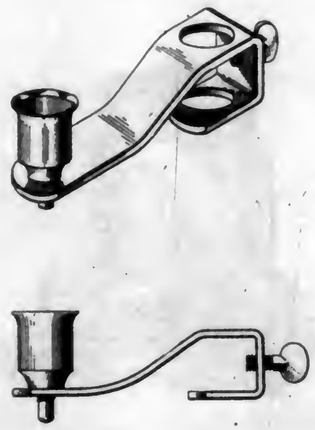
The ornamental design for a bracket for lighting fixtures as shown.

74,985. COMBINED SWITCH BOX AND SUPPORT FOR A HAND TELEPHONE. HERBERT F. OBERGFELL, River Forest, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1925. Serial No. 15,079. Term of patent 14 years.



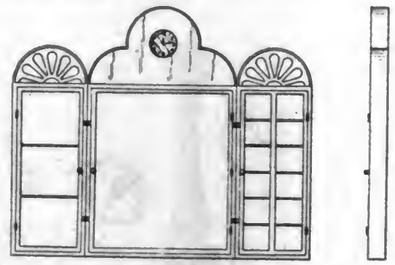
The ornamental design for a combined switch box and support for a hand telephone, as shown.

74,986. CANDLE-HOLDING BRACKET. ANDREW PAUL, Philadelphia, Pa. Filed Aug. 8, 1927. Serial No. 22,990. Term of patent 3½ years.



The ornamental design for a candle holding bracket as shown.

74,987. DISPLAY STAND. ROY LEWIS POULTON, Columbus, Ohio. Filed Sept. 12, 1927. Serial No. 23,890. Term of patent 14 years.



The ornamental design for a display stand as shown.

74,988. POCKET LIGHTER. WILLIAM RAEBURN, Waterbury, Conn., assignor to M. E. Bernhardt Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 2, 1927. Serial No. 23,282. Term of patent 14 years.





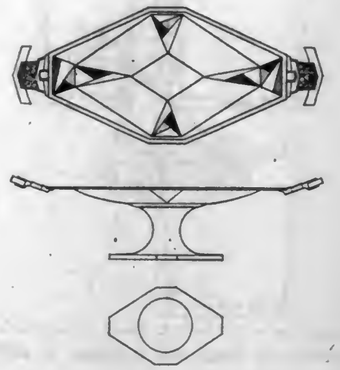
The ornamental design for a pocket lighter substantially as shown.

74,989. COMBINED CIGARETTE LIGHTER AND CIGARETTE CONTAINER. ALFRED F. REILLY, Attleboro, Mass. Filed Jan. 19, 1928. Serial No. 24,933. Term of patent 3½ years.



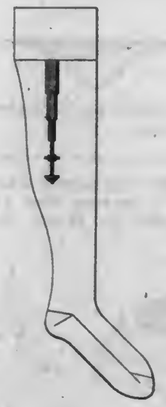
The ornamental design for a combined cigarette lighter and cigarette container, as shown.

74,990. CAKE STAND. ALBERT F. SAUNDERS, Syracuse, N. Y., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Filed Jan. 31, 1928. Serial No. 25,088. Term of patent 3½ years.



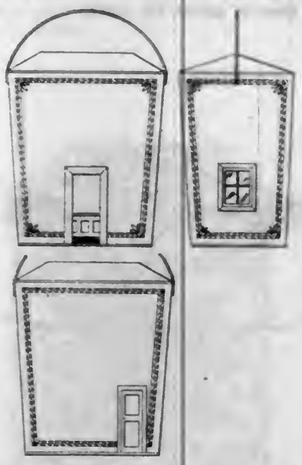
The ornamental design for a cake stand substantially as shown.

74,991. STOCKING. CLARENCE H. TAUBEL, Riverside, N. J. Filed May 31, 1927. Serial No. 22,241. Term of patent 14 years.



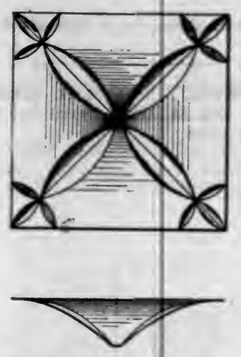
The ornamental design for a stocking, as shown and described.

74,992. CARTON. FRED W. TESTEAL, Los Angeles, Calif. Filed Dec. 27, 1927. Serial No. 24,661. Term of patent 3½ years.



The ornamental design for a carton, as shown.

74,993. DIAPHRAGM FOR A RADIO LOUD SPEAKER. BENSON F. WADDELL, New York, N. Y. Filed Aug. 2. 1927. Serial No. 22,980. Term of patent 14 years.



The ornamental design for a diaphragm for a radio loud speaker, as shown.

74,994. COMBINED RADIATOR CAP AND FILLING TUBE. GEORGE B. WARNER, New York, N. Y. Filed Oct. 24, 1927. Serial No. 23,866. Term of patent 3½ years.



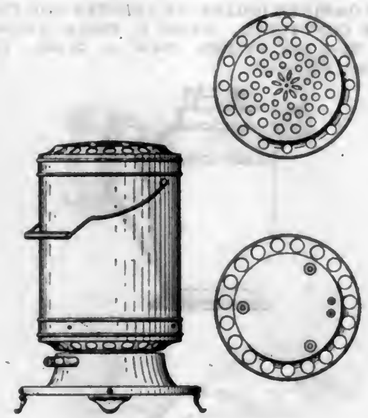
The ornamental design for a combined "radiator cap" and filling tube as shown.

74,995. SMOKER'S STAND. CHRISTOPHER WILMANNS, Indianapolis, Ind. Filed Aug. 4, 1927. Serial No. 22,995. Term of patent 7 years.



The ornamental design for a smoker's stand, as shown.

74,996. ELECTRICAL HEATER. FRANK E. WOLCOTT, West Hartford, Conn., assignor to The Frank E. Wolcott Manufacturing Co., a Corporation of Connecticut. Filed Sept. 22, 1926. Serial No. 19,144. Term of patent 7 years.



The ornamental design for an electrical heater substantially as shown.

74,997. BASE FOR DISPLAY STANDS. WILLIAM E. KEHOE, San Francisco, Calif. Filed Jan. 3, 1928. Serial No. 24,741. Term of patent 14 years.



The ornamental design for a base for display stands, as shown.

74,998. ASH TRAY. JOSEPH L. PINARD, Sherbrooke, Quebec, Canada. Filed Feb. 15, 1928. Serial No. 25,446. Term of patent 3½ years.

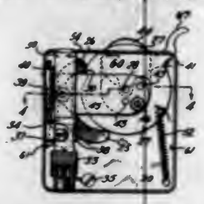


The ornamental design for an ash tray substantially as shown.

PATENTS

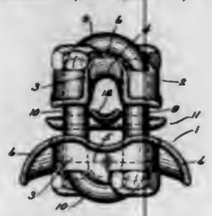
GRANTED APRIL 24, 1928.

1,666,884. VENDING MACHINE. RICHARD S. ARTHUR, New York, N. Y., assignor to Kalyptol Products Inc., a Corporation of New Jersey. Filed Jan. 15, 1925. Serial No. 2,551. 6 Claims. (Cl. 194—65.)



1. A vending machine comprising a receptacle having a closure member, a locking mechanism for said closure member embodying a latch member, and a rotary disc having a pocket for a coin and having a notch on its periphery into which a portion of the latch member moves to permit the coin to release said latch when the disc has rotated a predetermined amount.

1,666,885. CABLE CLAMP. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 14, 1927. Serial No. 226,108. 7 Claims. (Cl. 24—135.)

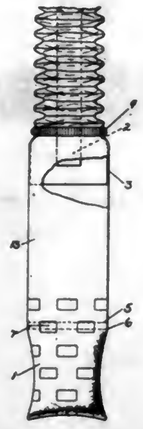


1. A clamp for crossed cables comprising a clamping member with a seat therein to receive and rest upon the upper cable, a clamping member with a seat to receive the lower cable and support the same, an intermediate member positioned between the cables and having a seat to receive each cable and means engaging the first two clamping members to draw them, the cables and the intermediate member into clamped and fixed relation.

1,666,886. PROCESS OF MAKING AND FILLING BAGS. ADELMER M. BATES, Chicago, Ill., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 23, 1923. Serial No. 633,904. 7 Claims. (Cl. 226—47.)

1. The method of making filled bags, which consists in marking bag fabric with a series of marks so placed and of such size that the smallest contemplated bag will show at least one complete mark, however the material is cut to form such bag, forming a tube from the marked fabric, filling successive properly weighed charges into the tube, closing the tube adjacent each successive charge, the charge being the guide, and severing the tube adjacent each closure.

6. The method of making filled bags, which consists in marking bag fabric with a series of marks which do not need to be varied for bags containing different weights of material, the marks being so placed and of such size that the smallest contemplated bag will show at least one complete mark, however the material is cut to form such bag, forming a tube from the marked fabric, filling successive properly weighed charges into



the tube, closing the tube adjacent each successive charge, the charge being the guide, severing the tube adjacent each closure, and marking the weight on each bag as a part of the bag forming and filling operation, the weight mark being made of a different color from the previously formed marks.

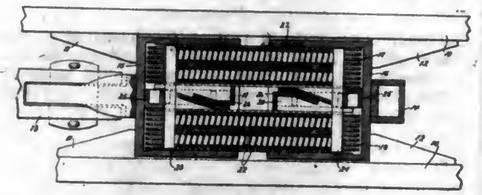
1,666,887. BARREL-COOLING DEVICE FOR FIREARMS. JOHN M. BROWNING, Ogden, Utah; John Browning administrator of said John M. Browning. Filed Oct. 15, 1925. Serial No. 62,672. 18 Claims. (Cl. 89—1.)



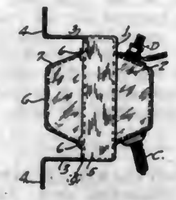
3. In an automatic gun having a recoiling barrel, a frame supporting the barrel, a cooling jacket surrounding said barrel and slidable off the barrel in forward direction, and a readily detachable connection between said jacket and said frame, the said connection being located entirely at one side of the said jacket and frame.

1,666,888. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 3, 1923. Serial No. 678,094. 8 Claims. (Cl. 213—33.)

1. In a draft gear, in combination a pair of opposed followers, frictional elements relatively movable responsive to the relative movement of the followers, two independent sets of compressing means relatively disposed longitudinally of the gear for forcing the friction elements together with substantially uniform pressure throughout the approaching movements of the followers, means against which the compressing means react laterally, means for limiting the outward movement of the friction elements, and means for restoring the parts to normal positions upon release of the gear.

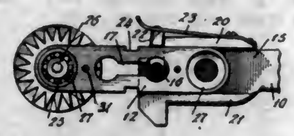


1,666,889. TRANSFORMER. JOSEPH DESLOGE, St. Louis, Mo., assignor to Killark Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 30, 1925. Serial No. 19,478. 4 Claims. (Cl. 175—361.)



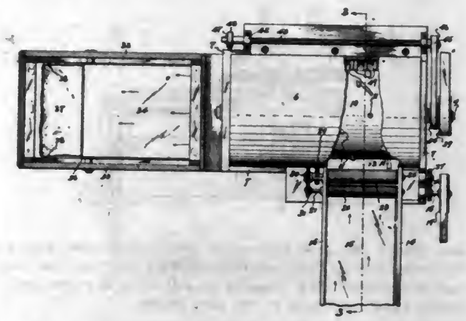
1. In a transformer, a core comprising a plurality of laminations, in combination with an enclosing shell including a main section comprising a top wall, a pair of opposite side walls, and a pair of opposite end walls, a closure section adapted for disposition intermediate the side walls and to rest at its margin upon an outer end lamination of the core, said end walls being of reduced length relatively to the side walls, and bendable tongues integral with the end walls adapted for clinching engagement over and upon the margin of the closure-section for securing said sections together in housing formation about the core and said laminations in compact, rigid and compressed relation.

1,666,890. DRESSING TOOL. JOHN SHEARMAN DONALDSON, New York, N. Y. Filed Nov. 21, 1924. Serial No. 751,233. 9 Claims. (Cl. 125—37.)



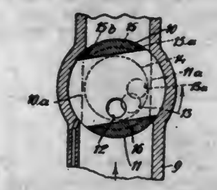
1. A dressing tool, comprising a shank, two removable side plates held against opposite sides of the shank with their ends extending beyond the end of the shank by a headed stud extending from the shank through a longitudinal slot in each side plate, a dressing wheel mounted between the extending ends of the side plates, and holding means for normally holding the side plates against longitudinal movement from their normal position on the shank, the side plates being movable longitudinally for removal from the shank when released by said means.

1,666,891. MACHINE FOR CLEANING HAIR AND OTHER FILAMENTARY MATERIAL. CARL H. DONNER, Summit, N. J. Filed May 19, 1926. Serial No. 110,184. 2 Claims. (Cl. 19—86.)



1. A machine of the kind described, comprising a housing, a rotatable drum longitudinally mounted in said housing, said housing being substantially concentric to said drum, said drum having a plurality of radially projecting agitating and propelling blades arranged in a helical line around its surface from end to end thereof, a perforate bottom connected with said housing to extend longitudinally beneath said drum and spaced to just clear the ends of said blades, said housing having on one side a lateral material intake opening above said perforate bottom and adjacent to one end of said drum, said housing having at its opposite side a row of inwardly projecting comb elements coincident in length to the length of said drum and adapted to cooperate with the blades of the latter, and said housing having a material discharge opening at an end thereof adjacent the opposite end of said drum and bordering said perforate bottom.

1,666,892. APPARATUS FOR REGULATING MIXTURE FORMATION IN CARBURETOR SYSTEMS. WILHELM EBERHARD ERNST, Berlin-Schoeneberg, Germany. Filed Oct. 6, 1925, Serial No. 60,795, and in Germany July 19, 1924. 5 Claims. (Cl. 48—180.)

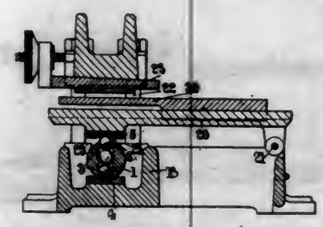


1. In combination with the intake conduit of an internal combustion engine, a pair of throttle valves in said conduit spaced from each other to define a mixing space, and unyielding connecting means between said valves holding them at a fixed angular relation to each other so that a change in the degree of opening of one causes a corresponding change in the degree of opening of the other, the valve positioned nearer the motor being at all times inclined to the axis of said conduit to a greater extent than is the other valve.

1,666,893. MECHANISM FOR PRODUCING CAM-LIKE OR SIMILAR IRREGULAR MOTIONS. CHARLES GEORGE GARRARD, London, England, assignor to George Stanley Walpole, London, England. Filed Dec. 23, 1924, Serial No. 757,598, and in Great Britain June 5, 1924. 5 Claims. (Cl. 74—14.)

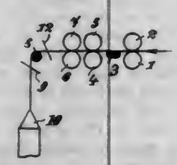
1. A cam-like mechanism for producing relative movement between two bodies from the rotational movement

of a shaft, comprising two bodies, a cage on said shaft, said cage having a diametrical slot; an odd number of rollers, not less than three, loosely housed in said slot



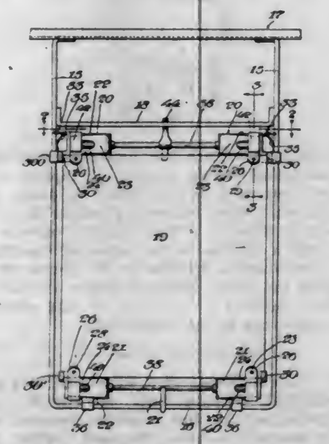
and tracks for said rollers on said bodies, the sum of the diameters of the rollers exceeding that of the cage and the rollers being adapted to roll upon the two roller tracks fixed relatively to the said bodies.

1,666,894. SPINNING. EMIL GMINDER, Reutlingen, Germany. Filed Sept. 17, 1925, Serial No. 57,038, and in Germany Sept. 22, 1924. 8 Claims. (Cl. 19—130.)



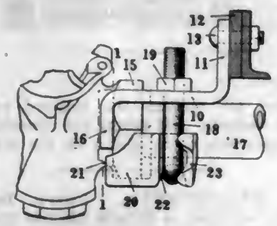
1. In a spinning process, deflecting the thread in process of formation through approximately a right angle, thereby diminishing the yarn tension originating from the spindle, imparting a spinning twist to the thread at the spindle and applying to the thread, at a place where said deflection occurs, a twist in the direction of twist of the thread imparted by the spindle, said last mentioned twist extending right back to the nipping point.

1,666,895. PHOTOGRAPHIC-FILM HANGER. HERMAN GOLLOMB, Brooklyn, N. Y. Filed Mar. 24, 1927. Serial No. 177,865. 12 Claims. (Cl. 95—100.)



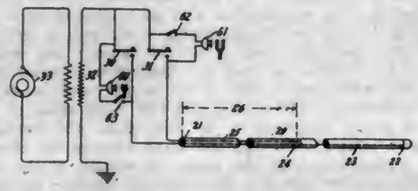
1. A film hanger comprising a frame having a plurality of spaced-apart spring clips arranged and adapted to receive and clamp an edge of a film to be treated, the jaws of the respective clips being held by spring action in a normal position, and means for simultaneously actuating said clips in opposition to the spring action and locking them in abnormal position.

1,666,896. ANGLE-COCK HOLDER. FREDERICK K. HABENICHT, St. Louis, Mo., assignor to Railway Devices Company, St. Louis, Mo., a Corporation of Missouri. Filed June 22, 1923. Serial No. 647,133. 1 Claim. (Cl. 248—81.)



In a device of the class described, the combination with a unitary supporting plate adapted to be secured to a car and to bear on the train pipe, the front end of said plate being bifurcated for the passage of the angle cock and having a turned-down portion for engaging the front face of the head, of a U-bolt passing around the pipe and through the plate for holding said pipe and plate in contact, and a member carried by the bolt and providing a pocket engaging the angle cock head to prevent its rotation.

1,666,897. SHIP-GUIDANCE SYSTEM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Apr. 27, 1922. Serial No. 556,846. 14 Claims. (Cl. 177—385.)



11. In a system for signalling from a movable body, means for emitting radiant energy therefrom comprising a pair of spaced members towed at different distances from said body, and means for modifying said energy to produce a signal.

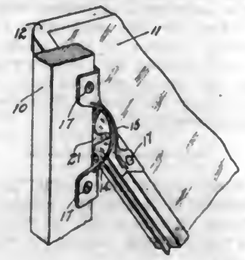
1,666,898. DRILL BIT. CARL H. HANSON, Hudson Heights, N. J. Filed Mar. 29, 1927. Serial No. 179,291. 1 Claim. (Cl. 255—63.)



In a drill bit a circular shank having a plurality of channels formed in part of its length, and a central bore ending before the inner ends of said channels open

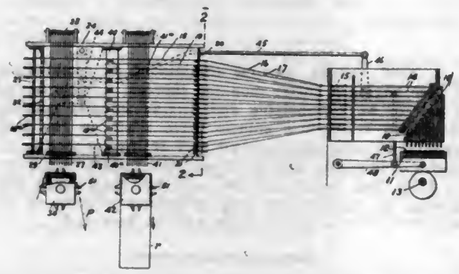
at the opposite end, a plurality of cutting members formed between said channels having sharp pointed outer ends situated in one level plane to form a support for the bit on the work piece during the operation thereof for preventing inaccurate drilling to produce a smooth drill hole, each of said members having two elongated sharp outer edges to limit the channels, the inner ends of said channels getting shallower towards the shank to run smoothly and gradually into the material thereof, the opposite ends of the channels getting gradually deeper to form with the members extending beyond the ends of the channels substantially V-shaped recesses, the central bore in said shank ending at the end point of said channels between the foot of the member points, each of said members having below their points two adjoining angularly disposed cutting faces, a ridge separating the two faces of each member, the outer faces of said members beveled towards the point, and a square butt on said shank for allowing an attachment of the same to the chuck of a brace.

1,666,899. WINDSHIELD PIVOT. EDWIN A. HENRICSON, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 9, 1925. Serial No. 14,263. 8 Claims. (Cl. 296—92.)



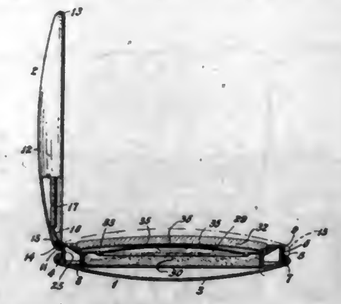
1. In a pivotal connection, a pair of pivot members adapted for attachment respectively to the parts to be connected and a spider having a spring arm projecting through one of said members into abuting engagement with the other affording a releasable interlocking connection between said pivot members for holding the same in their adjusted position.

1,666,900. SELECTING MACHINE FOR DICTATING THE PUNCHING OF HOLES IN JACQUARD CARDS. WALTER W. HODGSON, Philadelphia, Pa., assignor to Walter W. Hodgson, Inc., Philadelphia, Pa., a Corporation of Pennsylvania Filed Feb. 24, 1927. Serial No. 170,461. 10 Claims. (Cl. 164—111.)



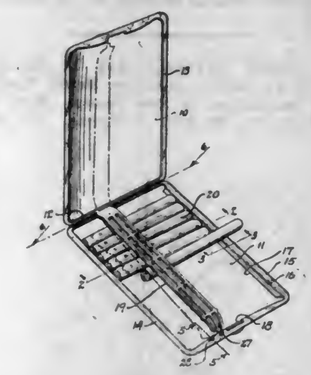
1. In apparatus of the character stated, the combination with a jacquard card punching machine of a selecting mechanism operatively connected with respect to said jacquard card punching machine, said selecting mechanism being provided with two selecting cylinders.

1,666,901. VANITY CASE. HERBERT D. HOUGH, Cranston, R. I., assignor to Wightman and Hough Company, Providence, R. I., a Corporation of Rhode Island. Filed July 29, 1925. Serial No. 46,696. 18 Claims. (Cl. 132—83.)



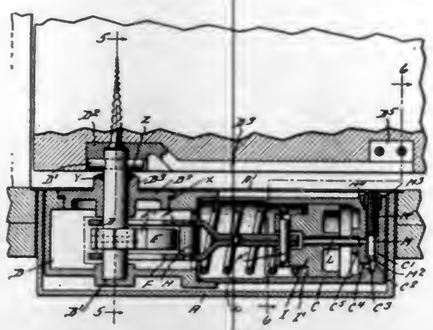
1. A vanity case comprising cover and base sections, a container in one of said sections, a dispensing plate located in a wall of said container, said plate having a finger engaging portion and an opening, a valve secured to the edge of said opening normally closing said opening, whereby, when said portion is engaged, it moves away from said valve and substance in said chamber is forced out thru said opening.

1,666,902. CIGARETTE CASE. EDWARD B. HOUGH, Providence, R. I. Filed July 21, 1926. Serial No. 123,851. 3 Claims. (Cl. 206—41.)



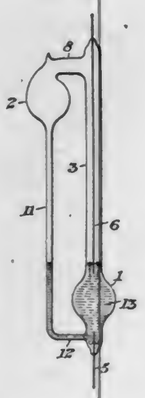
3. A cigarette holder comprising a pair of case members, each of said members being substantially thinner than a cigarette whereby when closed said members are adapted to form a chamber of substantially the thickness of a cigarette, an edge of one of said members being provided with a bezel extending downwardly and inwardly therefrom and forming an incline for guiding said cigarette thereover, the inner portion of said bezel being of such shape and so positioned with respect to said case members that the cigarette is normally allowed to lie closely adjacent and substantially parallel to said case member, and a retaining arm overlying said cigarettes and displaced from the centre thereof away from said bezel, the thickness of said case member and the position of said retaining arm being so related as to permit withdrawal of said cigarette without substantial bending thereof, the cigarette containing compartment being of a width substantially equal to the length of the cigarette.

1,666,903. DOUBLE-ACTING HINGE AND CHECK. HENRY E. HUBBS and LEVI D. MALONE, Shelby, Ohio, assignors to The Shelby Spring Hinge Company, Shelby, Ohio, a Corporation of Ohio. Filed June 30, 1926. Serial No. 119,554. 3 Claims. (Cl. 16—55.)



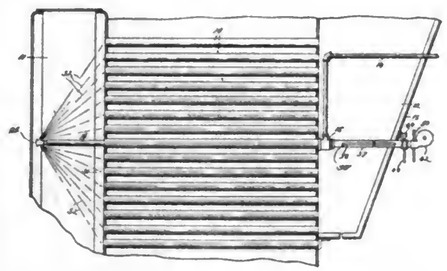
1. In a combined hinge and check, the combination with a hollow casting and cylinder connected thereto, of a pintle journaled in the casting and having a cam connected thereto, a yoke provided with rollers arranged for engagement with the cam and whereby the yoke is moved as the pintle turns, a piston movable in the cylinder and pivotally connected to the forward end of the yoke, a coil spring arranged in the cylinder and engaging the piston, a check valve arranged in a passage in the piston, a chamber at the forward end of the cylinder, an adjustable valve arranged in said chamber, said chamber having two outlets, and a tube communicating with one of said outlets and arranged centrally of the piston.

1,666,904. TIME SWITCH. ROY D. MAILEY, East Orange, N. J., assignor to Cooper Hewitt Electric Company, a Corporation of New Jersey. Filed Oct. 30, 1923. Serial No. 671,637. 2 Claims. (Cl. 200—33.)



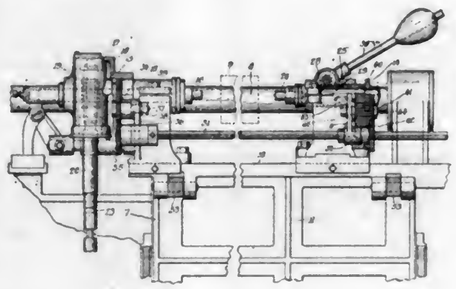
1. In an electric switch comprising a sealed glass envelope, in combination, two reservoirs one placed above and to one side of the other, a tube substantially L shaped connecting the top of one reservoir to the top of the other, another L shaped tube of considerably smaller cross section connecting the bottoms of the two reservoirs, and a pair of electrical conductors sealed into said envelope and terminating within said lower reservoir, and a liquid conductor in sufficient quantity to make connection between the two said conductors.

1,666,905. BOILER CLEANER. ALFRED G. MATTSSON, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed Apr. 16, 1923. Serial No. 632,388. 7 Claims. (Cl. 122—392.)



1. A boiler cleaner comprising a fluid conductor, a nozzle normally lying in a tube of a boiler and communicating with said fluid conductor, said nozzle being adapted to project into the combustion chamber of the boiler; a housing exterior of said boiler and a spring mounted in said housing for withdrawing said nozzle into said tube, and means effective upon rotation of the housing, for rocking the nozzle when the nozzle is in its said projected position.

1,666,906. WOOD-TURNING MACHINE. CARL LAWRENCE MATTISON, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed May 11, 1925. Serial No. 29,814. 1 Claim. (Cl. 142—55.)

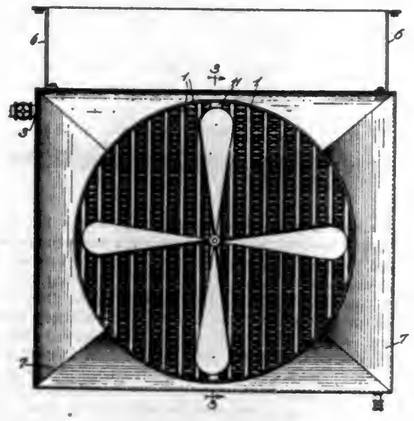


A wood turning machine comprising, in combination, a base having a cutter mounted thereon, a table having a pair of work-supporting and driving spindles mounted in spaced relation, a spindle drive shaft on the table parallel to said spindles, and gear trains connecting opposite ends of the said shaft with the respective spindles to drive them in synchronism, said gear trains each comprising an intermediate gear adjustable relative to the adjacent gears of the train to prevent back lash.

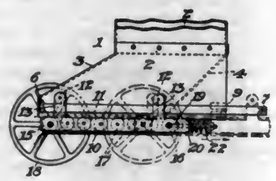
1,666,907. HEATING UNIT. ARTHUR B. MODINE, Racine, Wis. Filed Apr. 7, 1923. Serial No. 630,617. 5 Claims. (Cl. 257—137.)

3. In a device of the kind described and in combination, a heating unit formed of a series of adjoined heating elements, a casing around said unit and extending

therefrom, a fan in said casing, a motor on the opposite side of said unit and a shaft connecting said motor and fan, one of said heating elements having a bracket integrally formed thereon and extending on opposite sides thereof to support said motor and provided with apertures to form bearings for the fan shaft.



1,666,908. BIN GATE. RALPH SWITZER MOORE, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 18, 1926. Serial No. 142,254. 11 Claims. (Cl. 221—145.)



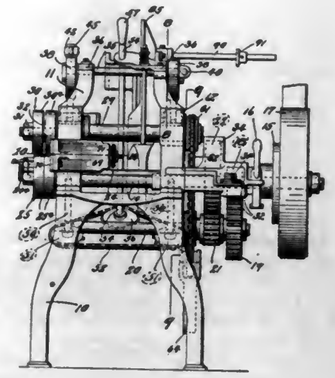
1. In a device of the class described, a chamber having an opening, a gate including an endless belt-like member for said opening, and means for operating said gate by rolling said member across said opening.

7. In combination, a container having an opening, a gate including a belt-like member for said opening, means for supporting said member including a roll, and means for operating said gate by applying a rotating force to said roll.

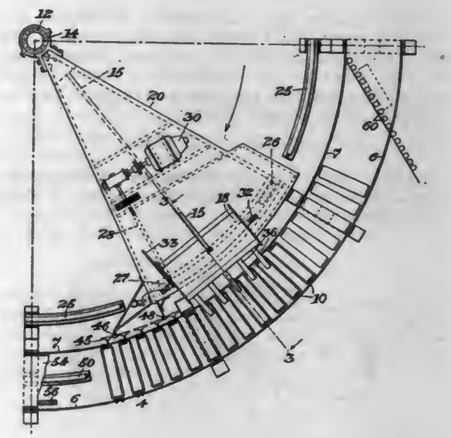
10. In storage apparatus, a chamber having an opening, a gate for said opening, said gate including a frame, an endless belt-like member, supports for said member, and a spring mounting between said frame and one of said supports to hold said member taut.

1,666,909. BENDING MACHINE. THEODORE F. PHILIPPI, East St. Louis, Ill. Filed Sept. 10, 1923. Serial No. 661,916. 11 Claims. (Cl. 153—57.)

1. A bending machine comprising a plurality of cooperating rollers adapted to receive and curve bars of metal, flexible driving means for positively actuating all of said rollers, mechanism for adjusting one of said rollers relative to the others to regulate the curvature of the bar, said mechanism including a longitudinally movable member and means cooperating with said longitudinally movable member for indicating the extent of said curvature.

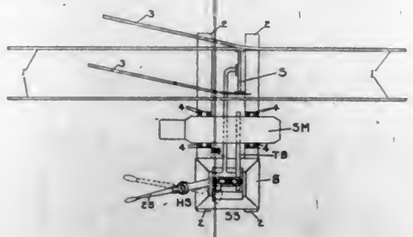


1,666,910. METAL-CASTING MACHINE. HARRY CHRISTIAN POSKE, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 29, 1925. Serial No. 65,529. 13 Claims. (Cl. 22—63.



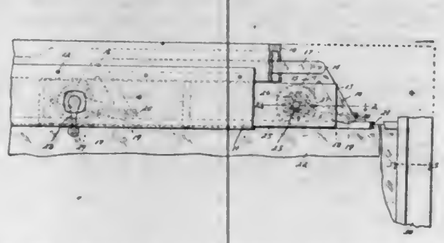
1. In a casting machine, in combination, a series of molds mounted for tilting to a position in which castings will fall out of them, a movable pouring spout adapted to be moved along the series of molds for pouring metal to be cast thereinto and means movable with said pouring spout adapted to tilt said molds successively into a normal position.

1,666,911. SWITCH-OPERATOR SELECTOR. CHARLES W. PRESCOTT, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed May 20, 1926. Serial No. 110,394. 16 Claims. (Cl. 246—240.)



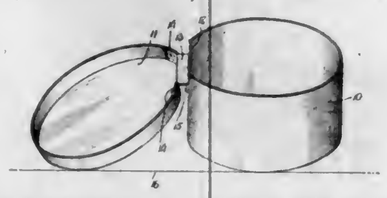
11. In combination, a track switch and switch operating rod, a power operated switch machine and an operated rod, and a hand operated switch stand and an operated rod, and means for operatively connecting the switch rod to the switch machine rod or to the switch stand rod.

1,666,912. WINDSHIELD-OPERATING MECHANISM. WILLIAM S. PRITCHARD, Detroit, Mich., assignor to Motor Products Corp., Detroit, Mich., a Corporation of New York. Filed June 14, 1926. Serial No. 115,989. 4 Claims. (Cl. 268—126.)



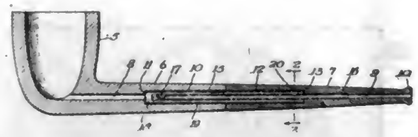
1. The combination of a slidable windshield, of an operating mechanism therefor including, a pair of spaced levers connected for parallel movement, means connecting said levers to the windshield, a counter-balancing spring associated with one lever and an operating handle connected to one of said levers.

1,666,913. BOX. SAMUEL RAPPAPORT, Brooklyn, N. Y. Filed June 27, 1927. Serial No. 201,581. 3 Claims. (Cl. 229—44.)



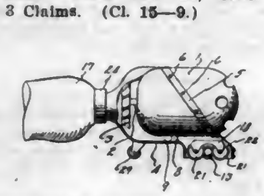
1. A box having a body provided with a flat wall, a cover for said box having a contour corresponding to the contour of said body, said cover having a wall adapted to fit over said body, and an intermediate rigid connecting strip having an intermediate portion connected to two end flanges which are bendable with respect to said intermediate portion, one of said flanges being connected to the wall of said cover and constituting a flat wall portion thereof directly adjacent the flat wall of the body, said flat portion being continuous with and in alignment with the remainder of the wall of the cover, the other of said flanges being connected to the flat wall of the body below the top thereof.

1,666,914. SMOKING PIPE. HEATH C. REESE, Chicago, Ill. Filed Mar. 21, 1927. Serial No. 176,937. 3 Claims. (Cl. 131—12.)



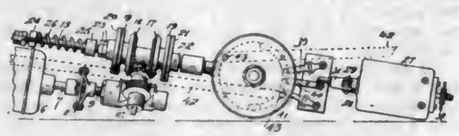
3. A smoking pipe comprising a stem and a bit having an enlarged bore therein, and forming a continuous smoke chamber, a hollow metal insert in said chamber frictionally-engaging one of said parts for holding the stem and bit together, a second hollow metal tube fixed to the bit and extending near the end of the enlarged bore in the stem, and a removable cap for said second tube and forming a saliva chamber, said second tube having a hole in the top thereof near the end of the bore in the bit.

1,666,915. VACUUM CLEANER. DAVID U. REMALEY, Detroit, Mich. Filed Dec. 26, 1924. Serial No. 758,030. 3 Claims. (Cl. 15—9.)



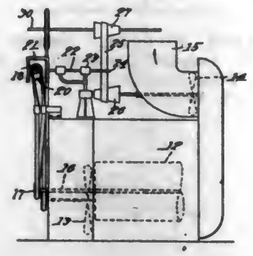
1. A vacuum cleaner comprising a substantially cylindrical casing having an opening at its forward end and a discharge opening at the rear end, a nozzle at the forward end below the said forward opening, an electric motor having a shell mounted in the said forward opening of the casing closing the same and positioned in spaced relation with the bottom wall and rear end of the casing providing in conjunction therewith a channel extending from the nozzle to the said discharge opening, and a fan in the said channel at the rear end of the motor shell forward of the discharge opening and operatively connected with the motor.

1,666,916. ELECTRICALLY-OPERATED DOOR. HAROLD ROWNTREE, Scarsdale, N. Y., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Oct. 4, 1924. Serial No. 741,698. 10 Claims. (Cl. 303—6.1.)



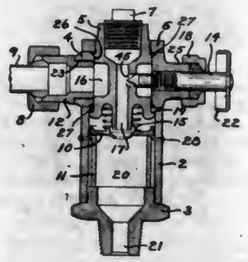
9. In operating mechanism for car doors, the combination with a door, of a door moving element operatively connected thereto, a non-reversible motor, reversible driving connections between the motor and the door moving element, electromagnetic means for controlling the driving direction of the driving connections, and electrical connections including the motor, said electromagnetic means and switch mechanism adapted to control the operations of the motor, and said electrical connections also including a normally open switch, the closing of which is caused by the application of air to the air brakes of the car.

1,666,917. VARIABLE-SPEED DRIVE FOR EXHAUST FANS. FREDERICK G. SARGENT, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1926. Serial No. 130,057. 8 Claims. (Cl. 34—12.)



2. The combination with a drying machine and its exhaust fan, of an endless apron for conveying the material in the machine and subjecting it to the action of the air therein for drying it, of a shaft rotatable in synchronism with the endless conveyor, a cam on said shaft, a yoke operated by the cam, a sliding guide movable with the yoke as the cam operates, and speed varying pulleys over which a belt travels connected for operating the exhaust fan, said guide being arranged to shift the belt back and forth, whereby the cam will control the action of the fan.

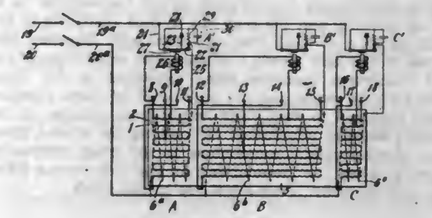
1,666,918. SIGHT FEED. EUGENE M. SCOVILLE, Cincinnati, Ohio, assignor of one-half to Floyd L. Swanberg, Pittsburgh, Pa. Filed May 19, 1927. Serial No. 192,770. 13 Claims. (Cl. 116—117.)



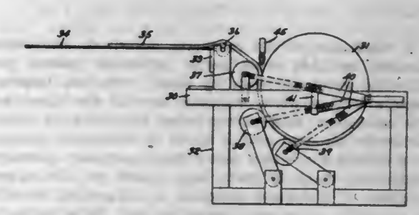
6. In combination, a body having a side opening, a transparent member covering said opening, a casing rotatably attached to said body above said opening, said casing having passages communicating with the interior of said body, a fitting pivotally supported by said body and embracing said casing, and a needle valve carried by said fitting and adjustable relative to said casing to control the flow of liquid through said passages.

1,666,919. THERMOELECTRIC TRANSFORMER. JOHN H. STEUBER, Rockville Center, N. Y., assignor of one-half to Louis Charles Henkel, Rockville Center, N. Y. Filed June 25, 1925. Serial No. 39,585. 9 Claims. (Cl. 136—4.)

1. In a thermoelectric transformer, the combination with a plurality of thermoelectric couples connected in series, and provided with two series of junctions located in two separated lines substantially parallel to each other, of an electric heating element located in close proximity to but electrically insulated from one line of junctions, the other line of junctions, and the portions of the couples adjacent thereto being exposed to the atmosphere to facilitate radiation, and a terminal voltage regulating device in circuit with certain of said couples constructed to vary the heating circuit through the heating element in accordance with variations in the voltage generated in the couples connected therewith, and maintain a substantially constant terminal voltage in all of said couples.

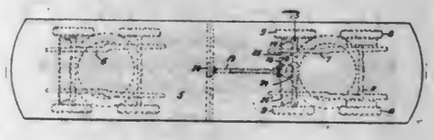


1,666,920. TRANSFERRING APPARATUS AND METHOD OF MAKING SAME. GUIDO VON WEBERN, Dayton, Ohio, assignor, by mesne assignments, to Oxford Varnish Corporation, Detroit, Mich. Original application filed July 30, 1924, Serial No. 729,135. Divided and this application filed May 1, 1925. Serial No. 27,276. 7 Claims. (Cl. 154—1.)



7. In an apparatus for forming transferring apparatus having impression material mounted on a backing roll, the combination of a frame, adjustable means for supporting a backing roll, means for feeding a sheet of impression material to the backing roll, means for heating one surface of the impression material, and yieldable adjustable means for holding the impression material in contact with the backing roll until it has cooled.

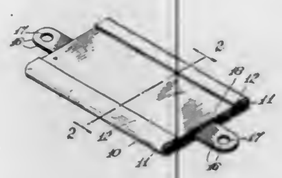
1,666,921. DOUBLE-TRUCK VEHICLE. OLIVER FRANCIS WARHUS, Albany, N. Y., assignor, by mesne assignments, to Versare Corporation, a Corporation of New York. Filed Aug. 30, 1924. Serial No. 735,063. 2 Claims. (Cl. 280—81.)



1. A vehicle having a body, a rear bogie truck having front and rear wheels on which the rear portion of the body is pivotally mounted, the front wheels of the truck

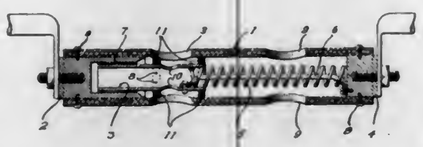
being pivotally mounted on the truck to turn about two separate substantially vertical axes, a steering member pivotally connected at its forward end to the body at a point on the body forward of the truck and pivotally connected at its rear end to the truck at a point on the truck forward of the pivotal connection of the truck to the body, whereby lateral movement of the forward end of the body causes the forward end of the member to be moved laterally and the rear end to turn relatively to the truck about a vertical axis, and transverse members connected to the said steering member, the outer ends of the said transverse members being connected to the front wheels of the truck, and the inner ends of these members being arranged to vary their longitudinal relation as the steering member is actuated for turning the wheels about their vertical pivotal connections to the truck differential amounts when the forward end of the body moves laterally and the body turns relatively to the truck.

1,666,922. CONDENSER. EDWARD J. WIGGINS, Chicago, Ill., assignor, by mesne assignments, to Electrical Research Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 9, 1923. Serial No. 656,586. 2 Claims. (Cl. 175—41.)



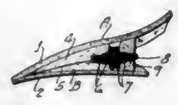
1. A condenser of the character described, comprising a plurality of thin sheet metal conductor plates, provided with terminal receiving ends, with the terminal of each alternate plate disposed beyond the same end of the condenser, said plates being separated by sheets of dielectric material and a sheet of dielectric material being disposed above and below the superposed elements, a nonflexible metallic plate superposed on the uppermost sheet of dielectric material, a supporting metallic plate on which the conductor plates and dielectric material are superposed, said supporting plate being of greater width than the conductor plates and sheets of dielectric material, with both longitudinal sides of said supporting plate being bent upwardly and over onto the superposed elements into pressure applying relation with said non-flexible metallic plate whereby uniform pressure is applied throughout the superposed conductor plates and dielectric material, and a thin coating of moisture resisting material on the conductor plates and at the ends of the condenser.

1,666,923. PROTECTIVE DEVICE. W. WARREN WOODRUFF, Swarthmore, Pa. Filed Nov. 3, 1922. Serial No. 598,733. 10 Claims. (Cl. 200—142.)



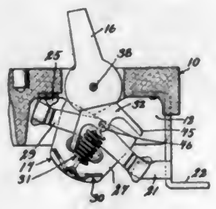
1. In a protective device constructed to operate when predetermined operating conditions have been reached, the combination of a casing perforated to allow a fluid to pass in engagement with the inside and outside thereof, a pair of elements supported by said casing so as to be normally held in operative relation to one another and adapted to be moved apart under predetermined operating conditions, said elements being mounted to have said fluid pass in contact therewith, means for holding said elements in normal operative relation, said means being responsive to a predetermined condition of said fluid, and means for positively moving said elements out of normal operative relation when the predetermined operating conditions have been reached.

1,666,924. ARCH SUPPORT. JOSEPH ABRAMOWITZ, Madison, Ill., assignor of one-half to John J. Selb, Venice, Ill. Filed June 23, 1924. Serial No. 721,878. 6 Claims. (Cl. 36—71.)



1. In an arch support adapted to fit within a shoe, a pair of co-operating relatively movable superimposed sections, in combination with means adapted for removable edgewise disposition intermediate said sections and including a pair of relatively movable members and a screw-member having oppositely threaded opposed portions having engagement with said members, respectively, for adjustably spacing said members for correspondingly spacing said sections for varying the arch supporting height of the support.

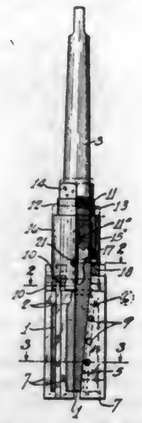
1,666,925. SWITCH CONSTRUCTION. REUBEN B. BENJAMIN, Chicago, and CHESTER E. WARNER, Berwyn, Ill., assignors to Benjamin Electric Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1923. Serial No. 672,755. 7 Claims. (Cl. 200—67.)



1. A switch construction comprising a pivoted oscillatable switch arm, a contact with which the switch arm is engageable and means for oscillating said switch arm, comprising a pivoted oscillatable actuating member, a coil tension spring connecting said switch arm and oscillatable member and a push member carried by said oscillatable member for engaging said spring to free said switch arm from said contact, after the spring has passed the dead center.

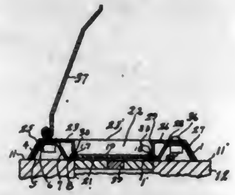
1,666,926. REAMING TOOL. ROBERT R. DAVIS, St. Louis, Mo., assignor, by mesne assignments, of one-half to George C. Albers and one-half to John D. Young, St. Louis, Mo. Filed Mar. 28, 1924. Serial No. 702,534. 8 Claims. (Cl. 77—75.5.)

1. A reamer comprising a bar having an annular series of radial slots opening upon its peripheral face and being externally threaded rearwardly of the slots, and cutters disposed in the slots for movement longitudinally of the bar, in combination with an internally threaded collet disposed for axial movement upon the



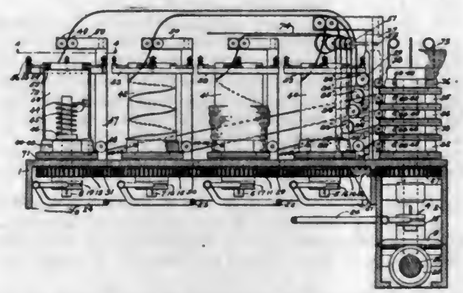
bar and having engagement with the cutters and an internally and externally threaded barrel also disposed upon the bar and having threaded engagement with both the bar and the collet for shifting the collet and the cutters axially of the bar.

1,666,927. METER-WINDOW FRAME. JOSEPH ROBERT DELANEY, Cincinnati, Ohio. Filed May 9, 1927. Serial No. 190,124. 10 Claims. (Cl. 189—77.)



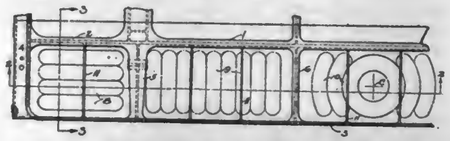
1. The combination with a casing having a window, of a main-frame secured in sealing relation to said casing and having a window registering with said first mentioned window, a glass in said window in said main-frame, a sub-frame releasably secured to said main-frame and engaging said glass, to releasably maintain said glass in its position.

1,666,928. ATTENUATION OF MATERIALS. MARTIN E. EVANS, Kankakee, Ill. Filed Nov. 29, 1921. Serial No. 518,687. 21 Claims. (Cl. 205—13.)



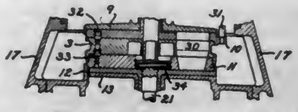
1. An apparatus for attennating material of rod-like form comprising in combination: a plurality of coaxially mounted drawing drums, dies associated with each of said drums, and an accumulator for each pair of drawing drums to hold material taken off one of the drums constituting a pair and to supply material to the other drum of the pair.

1,666,929. CAR UNDERFRAME. CHARLES F. FREDE, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Feb. 21, 1927. Serial No. 169,926. 18 Claims. (Cl. 105—236.)



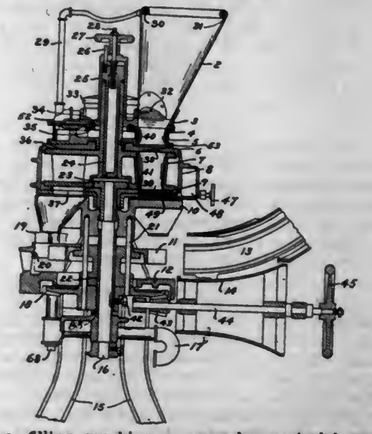
1. In an underframe for a railway vehicle, longitudinal and transverse sills, and a corrugated horizontal wall extending between said sills and formed integrally therewith.

1,666,930. CAN-FILLING MACHINE. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis., a Corporation of Wisconsin. Filed Nov. 23, 1922. Serial No. 602,728. 8 Claims. (Cl. 226—102.)



1. In a can filling machine, an upper measuring element having openings therein, a lower measuring element having openings therein in alinement with said upper element openings, a removable intermediate element having openings therein of fixed size alinable with said upper and lower element openings to form measuring pockets, said intermediate element being replaceable by other intermediate elements having differently sized openings therein, means for feeding material to said pockets through said upper element openings, and means for effecting delivery of said material from said pockets through said lower element openings.

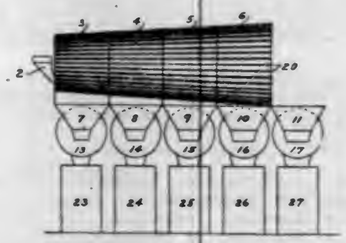
1,666,931. CAN-FILLING MACHINE. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed June 7, 1923. Serial No. 643,850. 25 Claims. (Cl. 226—96.)



1. In a filling machine, a granular material supply hopper having a lower discharge opening, an agitator

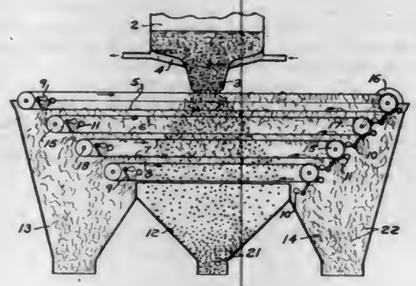
within said pocket adjacent to said opening, means for directing liquid downwardly along the surface of said hopper beneath the granular material resting thereon, a series of pockets successively communicable with said opening, and means for positively urging granular material into said pockets as they pass laterally beyond said opening.

1,666,932. APPARATUS FOR FACILITATING THE TREATMENT OF CORN. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed Oct. 2, 1924. Serial No. 741,218. 4 Claims. (Cl. 130—5.)



1. In combination, a grading drum having peripheral slots, a treating machine, and a rotary tapered drum having an internal helical groove for feeding corn bearing cobs from said grading drum to said machine.

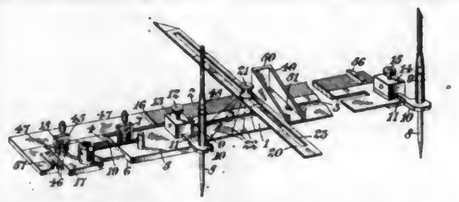
1,666,933. CORN SILKER. OSWALD H. HANSEN, Milwaukee, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed June 14, 1926. Serial No. 115,774. 5 Claims. (Cl. 209—77.)



1. In combination, a series of superposed wires of different lengths, each of said wires being shorter than the wire thereabove, means for longitudinally moving said wires, means for dropping a mixture of kernels and silk upon said wires, and means for removing the silk from an end portion of each of said wires vertically beyond the end portion of the wire thereunder.

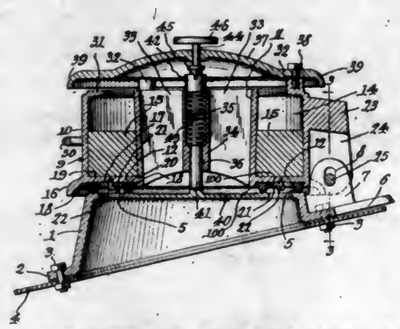
1,666,934. INSTRUMENT FOR DRAWING, MARKING OUT, AND MEASURING OR LIKE PURPOSES. ALBERT EDWARD HAYWOOD, Coventry, England. Filed Dec. 17, 1925. Serial No. 75,972, and in Great Britain Dec. 17, 1924. 2 Claims. (Cl. 33—159.)

1. An instrument assembly of the type described, comprising a graduated rule having a longitudinal slot therein, one side of the rule defining said slot being undercut, a slide carrying a block sliding in said slot, a portion of said slide extending under the undercut side of the rule,



and means penetrating said slide and said block whereby the slide may be fixed in relation to the rule, said slide carrying means to fix other instruments to said assembly.

1,666,935. COMBINATION PRESSURE-VACUUM VALVE AND THIEF HATCH. HARRY HAMMOND HOWELL, Kansas City, Mo., assignor of one-half to W. H. Elliott, Tulsa, Okla. Filed Aug. 9, 1926. Serial No. 128,247. 4 Claims. (Cl. 220—85.)



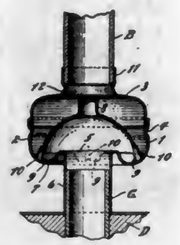
1. In an attachment for oil tanks, a tubular base, a substantially horizontal, weighted cover cooperating with the base to close it, means for connecting the cover to the base for swinging movement into a fully open position at the control of an operator, and for substantially vertical right-line sliding movement to and from closed position with respect to the base responsive to pressure within a tank, an inwardly opening vacuum release valve carried by the cover, and means for holding the valve yieldably in closed position.

1,666,936. PROCESS OF MANUFACTURING CERAMIC PRODUCTS. LUDWIG KERN, Baltimore, Md. Filed Oct. 13, 1925. Serial No. 62,306. 5 Claims. (Cl. 18—47.)

1. In the manufacture of molded articles, the herein described improvement which comprises adding to a sand and hydrated lime mixture, a substantial amount of hydrated silicic acid, molding the mixture under pressure, and indurating the product under superatmospheric pressure with an elastic fluid capable of entering into reaction and produce a hardening of the molded article.

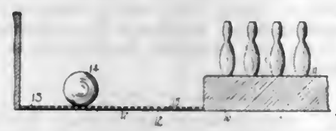
1,666,937. REFRIGERATOR-DRAIN TRAP. CHARLES E. KILBOURNE, Worcester, Mass., assignor to Harder Refrigerator Corporation, a Corporation of New York. Filed Oct. 4, 1927. Serial No. 223,939. 1 Claim. (Cl. 182—8.)

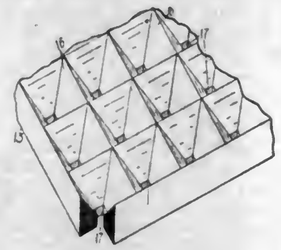
A refrigerator trap comprising a bowl member having a raised central overflow orifice and a coupling sleeve integrally joined to the bowl member at the overflow orifice, the annular water pocket thus provided in the bottom of the bowl being substantially semicircular in cross section, and a substantially hemispherical baffle loosely arranged over the overflow orifice and having its bottom edge discontinuous thereby providing spaced feet, the diameter



of the bottom of the baffle being substantially that of the deepest part of the water pocket and the feet having each a central vertical rib the bottom of which is shaped substantially to the curve of the water pocket so as to bear against an upwardly curving portion of the water pocket wall and allow the feet to rest in the bottom of the pocket.

1,666,938. BOWLING-ALLEY MAT. FRED KSELLMANN, Akron, Ohio. Filed June 2, 1927. Serial No. 195,942. 2 Claims. (Cl. 273—54.)

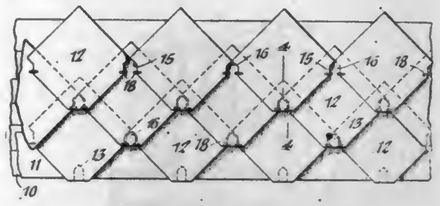




1. A pit mat for bowling alleys, said mat being constructed of soft, tough, vulcanized rubber formed with reticulations defining pockets of frusto-pyramidal shape, the division walls therebetween being formed with acuminate upper edges so that dust cannot collect upon the upper surface of the mat, the sides of said walls diverging widely to provide a sturdy base portion, the bottoms of the pockets having open passages extending therefrom through the mat whereby dust collecting in the pockets may pass freely through the mat.

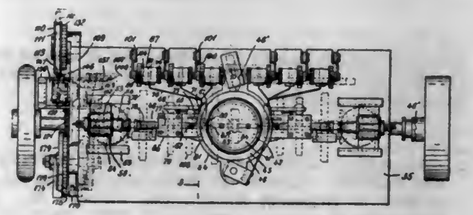
1,666,939. ROOFING CONSTRUCTION. JOHN F. LIETZ, Buffalo, N. Y. Filed June 16, 1927. Serial No. 199,260. 3 Claims. (Cl. 108—7.)

1. In a roofing construction, a pair of flexible diagonally-laid shingles notched in their opposing side edges, forming a recess, a third shingle overlying said pair and provided at its lower end with a locking tongue lying in said recess, the latter being wider than said tongue, per-



mitting lateral adjustment of the last-named shingle relative to said first-named pair, and means for retaining the tongue in said recess.

1,666,940. MESH MACHINE. FRED HARRIS LYNDS, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed Oct. 24, 1924. Serial No. 745,602. 60 Claims. (Cl. 140—3.)

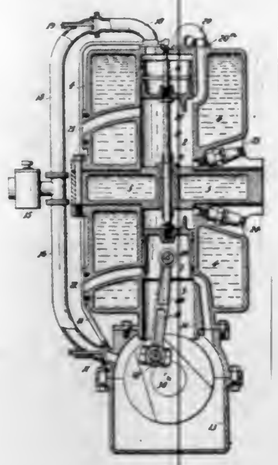


1. A machine for making link mesh comprising the combination of a support for a piece of mesh, link forming tools, power driven mechanism for giving the tools and the piece of mesh a step by step relative movement and for operating the tools in the periods of rest of this movement, a plurality of supplies of wire, a plurality of devices, one for each of the supplies, for feeding wire therefrom to the link forming tools, and means for controlling the action of the wire feeding devices to cause the wire to be fed from the supplies in a predetermined order of succession and including a pattern control member having effective areas arranged thereon in accordance with a predetermined pattern, actuating means for bringing these areas successively into position as each link is formed, and automatic means for rendering the actuating means ineffective throughout the formation of a group of links, the said automatic means including a member continuously advanced step by step, one step as each link is formed.

1,666,941. INTERNAL-COMBUSTION ENGINE. MORRIS MARTIN, Curl Curl, near Sydney, and WILLIAM ROBERT WERNER, Nymagee, New South Wales, Australia. Filed Dec. 16, 1927, Serial No. 240,542, and in Australia Oct. 15, 1926. 1 Claim. (Cl. 123—57.)

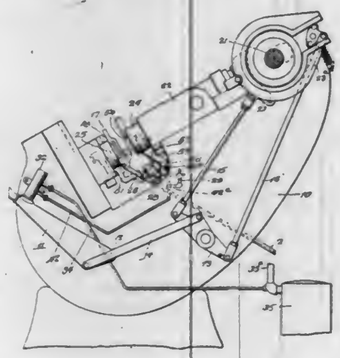
An improved internal combustion engine comprising, two combustion or firing cylinders arranged in tandem fashion, two pistons slidable one in each of said cylinders, a rod rigidly coupling said pistons together for movement in unison, an engine crank-shaft, a single connecting rod adapted to transmit the power strokes of both pistons to said crankshaft, a crankcase wherein gaseous fuel mixture is compressed, a transfer passage delivering said compressed fuel mixture from the crankcase to one of

the engine cylinders, means for supplying gaseous fuel mixture to one end of the other cylinder for compression, a transfer pipe delivering said compressed fuel mixture



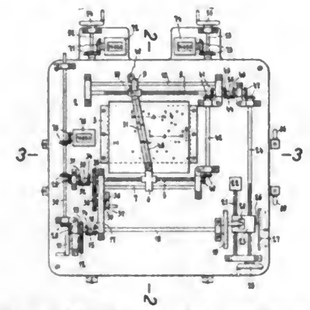
from said supplying means to the firing end of said other cylinder, and means for firing the fuel charges alternately in said cylinders.

1,666,942. AUTOMATIC DIE-PRESS STOPPING MECHANISM. CHARLES D. MCDONALD, Chicago, Ill., assignor to McDonald Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1927. Serial No. 211,369. 8 Claims. (Cl. 192—128.)



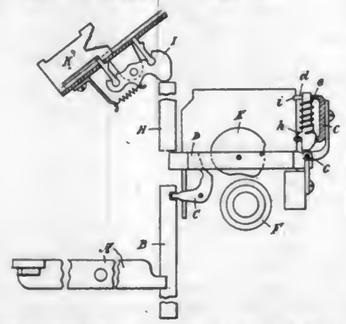
3. Automatic die press stopping mechanism, comprising in combination, the hand lever of the press starting and stopping mechanism of a die press having a strip feed way, a vacuum head having a suction end arranged to contact with said hand lever, whereby the lever is supported in starting position when vacuum is created in the suction end of said vacuum head, said vacuum head being connected with a vacuum source, a vent tube leading from the suction end of said vacuum head and having an air valve thereon, a normally inactive trip device associated with the strip feed way of the press and having a valve actuating member operating to open said air valve when an abnormal condition arises in the feed way.

1,666,943. RANGE FINDER. WILLEM ANNE MOUTON, The Hague, Netherlands, assignor to N. V. Nederlandsche Instrumenten Compagnie, The Hague, Netherlands. Filed June 8, 1925, Serial No. 35,839, and in Germany June 12, 1924. 2 Claims. (Cl. 235—61.5.)



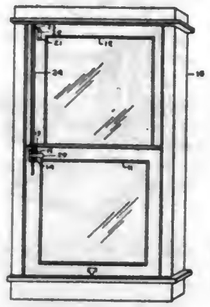
1. Device for ascertaining of a number of distance-values the mean value appertaining to a certain definite period, containing a writing ribbon, movable in a rectilinear direction, a marking device, which is movably disposed parallel to the plane of the writing ribbon and perpendicular to the direction of motion of the writing ribbon and adapted to mark on the writing ribbon the distance-values, a carriage which is displaceably disposed parallel to the direction of motion of the marking device, a ruler carried by the said carriage, means for imparting to the carriage a displacement by hand, other means for imparting to the carriage an automatic displacement, means for adjusting the speed of this automatic displacement, the ruler being disposed on the carriage movable about an axis which is perpendicular to the direction of motion of the writing ribbon and to that of the marking device, and means for automatically imparting to the ruler an angular displacement, on the said speed being altered.

1,666,944. ESCAPEMENT-ACTUATING MECHANISM OF TYPOGRAPHICAL COMPOSING MACHINES. CARL MUEHLEISEN, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Filed Sept. 25, 1926, Serial No. 137,771, and in Germany Oct. 6, 1925. 7 Claims. (Cl. 199—25.)



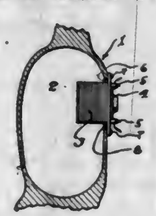
1. In escapement-actuating mechanism of a typographical composing machine, the combination with a series of pivoted cam-carrying yokes and a bar movably mounted above the pivots of said yokes, of pins carried by said bar adapted to yieldingly bear upon the cam-carrying yokes and a spring adapted to retain each of said pins in position on the bar and in contact with the respective cam-carrying yoke, each pin together with its spring being removable from and replaceable on the bar as an individual unit without disturbing the others when said bar is moved out of its operative position above the yokes.

1,666,945. SASH FASTENER. CARL PETERSEN SEKYER, Montreal, Quebec, Canada. Filed Aug. 2, 1926, Serial No. 126,515. Renewed Jan. 24, 1928. 2 Claims. (Cl. 292—305.)



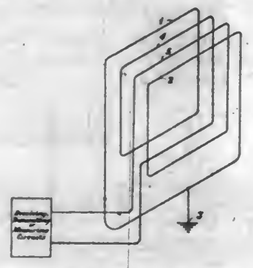
1. A sash fastener comprising a rod bracket formed of an angle bracket having a key slot extending into the two sections, a rod having a key end adjustably secured in one section and inserted from the other section and secured to the frame through the latter, a lower bracket having the rod slidable therein and a clamping member binding said rod.

1,666,946. COMBINATION DOLL AND RADIO SET. CHARLES B. SHERLOCK, Philadelphia, Pa. Filed Dec. 29, 1923. Serial No. 683,526. 1 Claim. (Cl. 46—40.)



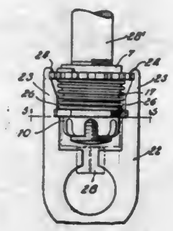
In a device of the class described, the combination of a doll body having a hollow interior and an opening at the front, a radio set inserted through said opening and having a flange for attachment to the exterior of the body of the doll around said opening, means for securing said flange to said body and means to operate the radio set from the exterior of the body.

1,666,947. METHOD OF AND MEANS FOR REDUCING BODY-CAPACITY EFFECTS ON LOOP-ANTENNA SYSTEMS. HAROLD C. SILENT, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 31, 1924. Serial No. 759,095. 5 Claims. (Cl. 250—33.)



3. A loop antenna including a plurality of turns and having its outer turns connected to ground and its inner turns connected to the apparatus served by the antenna.

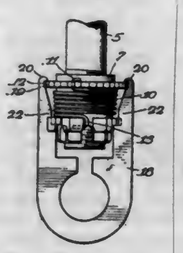
1,666,948. TAKE-UP DEVICE. STEPHEN A. SLAUSON, Cedar Rapids, Iowa, assignor to Vec Products Company, Cedar Rapids, Iowa, a Corporation of Iowa. Filed Feb. 2, 1925. Serial No. 6,167. 14 Claims. (Cl. 85—32.)



5. A take-up device comprising a main nut, a lock nut, and a key comprising resilient legs terminating in inturned hooks engaging one of said nuts, to hold it against axial movement in respect to the other nut, and provided with substantially parallel intermediate portions engaging the other of said nuts to prevent relative rotation of said nuts, said legs being provided with projections extending toward one another and having their ends spaced apart to permit the insertion of a tool.

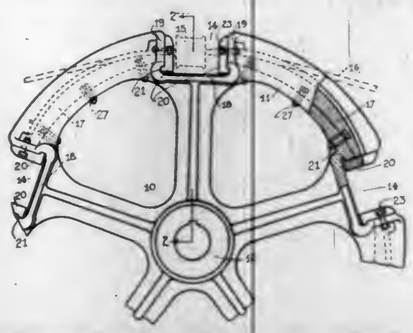
6. A take-up device comprising a main nut, a lock nut, a spring having its ends connected respectively to said nuts and tending to cause relative rotation therebetween, a key to prevent such relative rotation, one of said nuts being provided with a plurality of means to receive said key, and with a plurality of means to receive one end of said spring and the other nut being provided with means to receive said key and with means to receive the other end of said spring.

1,666,949. TAKE-UP DEVICE. STEPHEN A. SLAUSON, Cedar Rapids, Iowa, assignor to Vec Products Company, Cedar Rapids, Iowa, a Corporation of Iowa. Filed June 20, 1925. Serial No. 38,483. 7 Claims. (Cl. 85—32.)



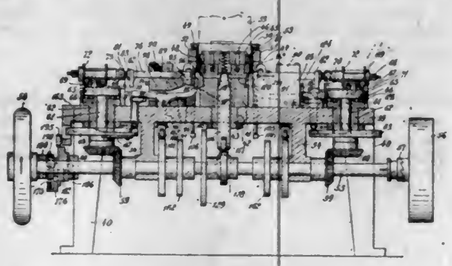
4. A take-up device comprising a main nut, a flange on said main nut, said flange having a plurality of notches therein all of the same depth and form and arranged in pairs, the notches in each pair being arranged diametrically opposite to each other, a lock nut having a shoulder, said shoulder having a pair of oppositely disposed notches adapted to be brought into alignment with any one of the pairs of notches in said main nut, a spring connected to said nuts and adapted to cause relative rotation therebetween, and means on said main nut to receive one end of said spring in a certain position, the shoulder on said lock nut having an annular groove therein and also having a plurality of recesses intercepting the groove and co-operating therewith to form a plurality of means to receive the other end of said spring.

1,666,950. CABLE CONVEYER SPROCKET. RICHARD LIDSTONE SMALLWOOD, Toronto, Ontario, Canada. Filed June 20, 1927, Serial No. 200,156, and in Canada Mar. 1, 1927. 2 Claims. (Cl. 74—42.)



1. A cable conveyer sprocket comprising a web section, and a plurality of rim sections spaced to provide gaps therebetween adapted to receive the cable buttons, said rim sections terminating in vertically-arranged flanges having each a horizontally-arranged recess, and a button wearing plate detachably secured upon each of said flanges and having a lug engaging said recess.

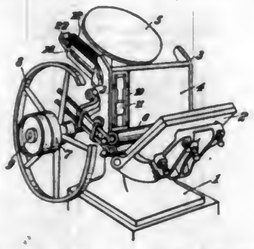
1,666,951. MESH MACHINE. OSCAR SODERSTROM, North Attleboro. Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed Nov. 2, 1923. Serial No. 672,271. 47 Claims. (Cl. 140—3.)



1. A machine for making link mesh, comprising the combination of a support for a piece of mesh, link forming tools, power driven mechanism for giving the tools and the piece of mesh a step by step relative movement and for operating the tools in each period of rest of this movement, a plurality of supplies of wire link material, a plurality of devices, one for each supply for feeding this material to the link forming tools, pattern mechanism for determining the supply from which material is to be fed and for controlling the action of the feeding devices, means for actuating the pattern mechanism, and means for controlling the operation of said actuating means.

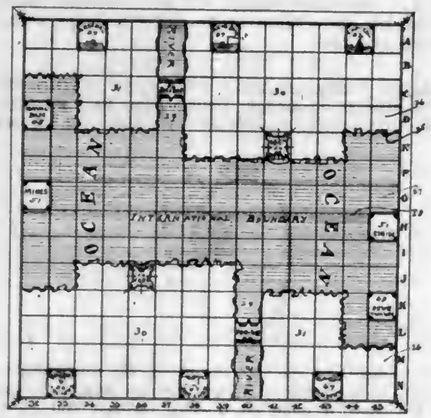
1,666,952. ADDRESSING DEVICE FOR PRINTING PRESSES FOR PRINTING OF FIXED TEXT WITH CHANGEABLE ADDRESS. HUGO TOCKHORN, Berlin-Tempelhof, Germany. Filed Mar. 17, 1927. Serial No. 176,178. 13 Claims. (Cl. 101—67.)

1. In an addressing device for printing presses for printing of fixed text with changeable address, a container for the address printing plates supplied for printing, said container being arranged below the inking means for the inking rollers of the printing press and behind the printing plane of the press, the delivery opening of said container being arranged in the printing plane of the press, a guide path for the address printing plates below said delivery opening of said container, said guide path being inclined in such a degree to the horizontal direction that



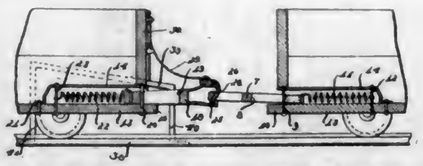
said address printing plates will slip along said guide path downward into printing position under the action of their own gravity.

1,666,953. WAR GAME. JULIUS O. TUTTLE and ROY C. TUTTLE, Sioux City, Iowa. Filed May 7, 1927. Serial No. 189,556. 14 Claims. (Cl. 273—131.)



1. In a game, a board representing two sections of territory separated by a section of territory of different nature and subdivided into units, some of which are designated as a plurality of stationary defenses, stationary pieces for successively occupying said stationary defenses and limited to defending said stationary defenses, and moving pieces including a plurality of pieces movable only over the territory of one nature, and a plurality of pieces movable only over the territory of different nature, the stationary pieces being empowered to capture any moving piece occupying a unit adjacent its own unit.

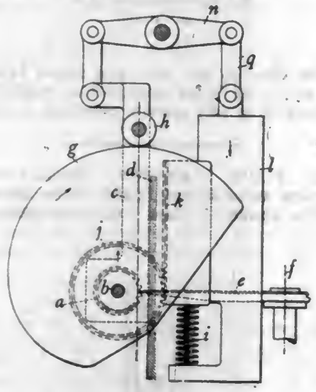
1,666,954. CAR COUPLING. JOSEPH WERNIS, Detroit, Mich. Filed Apr. 2, 1927. Serial No. 180,352. 3 Claims. (Cl. 213—211.)



1. In a car coupling mechanism of the class described, adapted for use with a car having an end wall; a rockably mounted coupling pin; a flexible member attached

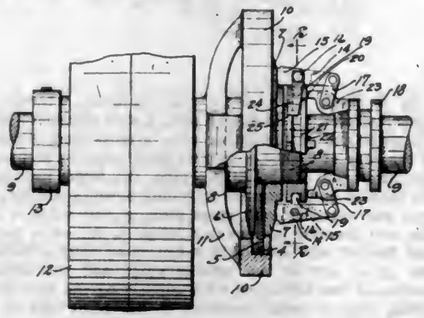
at one end to said coupling pin and at its opposite end to a car with which used, said flexible member, upon being drawn taut, effecting a rocking of said coupling pin to inoperative position; and independent means mounted on said end wall and projecting outwardly from each side thereof, engageable with and disconnected from said flexible member for rendering said flexible member taut.

1,666,955. GRINDING OF GEAR-WHEEL TEETH. HARRY HALES ASBRIDGE, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England. Filed June 11, 1926, Serial No. 115,400, and in Great Britain Nov. 24, 1925. 3 Claims. (Cl. 51—52.)



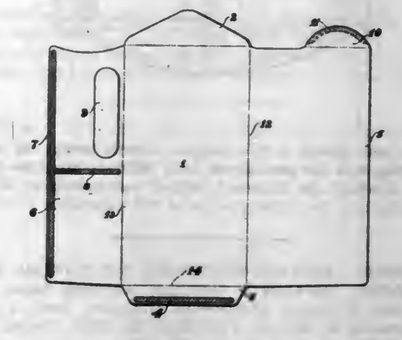
1. In a gear cutting machine, a grinding disc having a flat face, a templet and stationary abutment, the rolling of a tooth face relatively to the flat grinding face being effected, in one direction, by the interaction of said templet and stationary abutment, a spring for effecting rolling of the tooth in the opposite direction, means comprising a movable carrier for the spring, and means for co-ordinating the movements of the carrier with those of a member carrying the toothed wheel, substantially as described.

1,666,956. FRICTION CLUTCH. EMIL A. BEYL, Minneapolis, Minn. Filed June 17, 1927 Serial No. 199,502. 2 Claims. (Cl. 192—68.)



1. In a clutch, an axially movable clutch-setting member, a collar adjustable in respect to said member by a rotary movement and having inner and outer peripheral flanges and a plurality of circumferentially spaced lock notches in said inner flange, a spring finger, and a bolt extending through an aperture in the spring finger and aneboring the same to said member, said spring finger having a lock detent arranged to enter any one of said lock notches, said lock detent being held by the clutch-setting member and collar against endwise movement to prevent the same from moving out of the engaged lock notch.

1,666,957. DUPLEX ENVELOPE. CHARLES E. CATHER, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Mar. 18, 1921. Serial No. 453,362. 2 Claims. Cl. 229—72.)



1. A double compartment envelope comprising a blank having a body portion, a relatively large side flap extending from one edge of said body portion and folded over said body portion to provide a relatively large compartment between said large flap and body portion, said large flap being approximately equal in length and width to said body portion, a relatively small side flap extending from said body portion at the edge opposite to the first mentioned edge, said small side flap being folded over said large side flap to provide a second compartment directly between said side flaps, the two compartments having one common boundary line, said small side flap having a gummed margin sealed to the outer face of said large side flap in a line between and parallel with said edges, an end flap extending from the lower edge of said body portion and sealed to the outer faces of both of said side flaps, a gummed sealing flap extending from the upper edge of said large side flap and foldable over said small side flap, the length of said gummed sealing flap being approximately equal to the width of said small side flap so as to form a closure for said second compartment, and a non-sealing closure flap extending from the upper edge of said body portion to form a closure for said relatively large compartment.

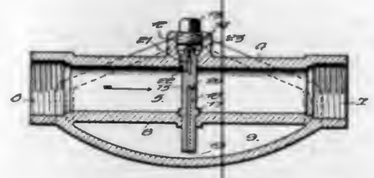
1,666,958. CATALYTIC COMBUSTION OF AMMONIA-OXYGEN MIXTURES. IVAR WALFRID CEDERBERG, Steglitz, near Berlin, Germany. Filed Dec. 8, 1924, Serial No. 754,655, and in Germany Dec. 4, 1923. 2 Claims. (Cl. 23—288.)

1. In the process of catalytically oxidizing ammonia to nitric oxides, the step which comprises passing a mixture of ammonia and oxygen over a catalyst heated to reaction temperature and maintained in a reaction zone, and cooling one face of the reaction zone whereby a high temperature gradient is formed between the catalyst and the cooled face.

1,666,959. LUBRICATOR. OMAR E. CLARK, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Original application filed Mar. 15, 1923, Serial No. 625,352. Divided and this application filed Feb. 19, 1924. Serial No. 693,886. 12 Claims. (Cl. 184—55.)

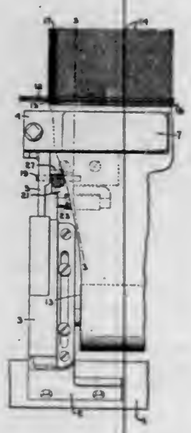
1. A lubricator comprising a casing having a fluid passageway therethrough and a lubricant reservoir walled from the passageway and a single stem extending through

the wall into the passageway and into the reservoir, said stem having a lubricant outlet conduit consisting of an inlet communicating with the lower portion of the reservoir and an outlet opening into to the passageway, said



stem also having a fluid supply conduit having an inlet opening into the passageway in a different direction from the outlet of the lubricant conduit and having an outlet opening into the upper portion of the reservoir.

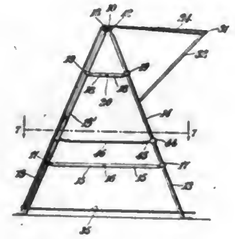
1,666,960. SELVAGE-RELIEVING MECHANISM FOR LOOMS. EDWARD A. CUNNIFF, Waltham, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 25, 1927. Serial No. 208,179. 11 Claims. (Cl. 139—292.)



1. A loom comprising means acting on the cloth forward of the fell to maintain the cloth stretched widthwise as it advances in the weaving operation, and means acting on the cloth at the selvage forward of the stretching means prior to beat-up to advance the fell at the selvage when beat-up occurs.

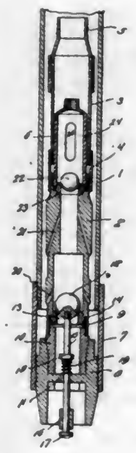
1,666,961. COMBINED TENT AND SWING FRAME. HART E. DELVIN, Evanston, Ill. Filed Dec. 31, 1923. Serial No. 683,636. 3 Claims. (Cl. 135—3.)

1. A tent comprising a ridge-pole having a pair of divergent legs at each end, said legs being composed of cylindrical tubular sections pivoted at their points of intersection, foldable braces independently connecting the upper and lower sections of each pair of legs, arms pivoted to the upper section of one of each pair of legs, said arms being angularly extensible or closely foldable alongside the legs, a pole extending between the lower ends of said legs on each side, said pole being also engageable with the outer ends of said arms when said arms are folded, a cover extensible over said ridge-pole between said pairs of legs to the lower ends thereof, means to



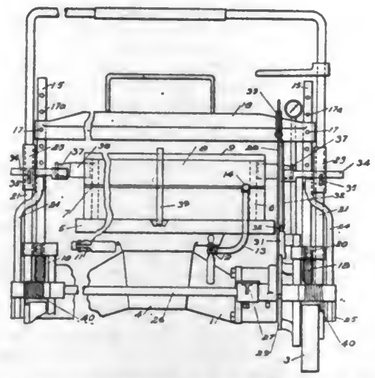
secure said cover to said pole, and means to secure the edges of said cover to the main portion thereof when the pole is elevated by said arms to constitute a canopy.

1,666,962. FLUID ELEVATOR. DOUGLAS B. DENNIS and CLAUD WILSON, Taft, Calif. Filed Mar. 9, 1926. Serial No. 93,468. 1 Claim. (Cl. 103—229.)



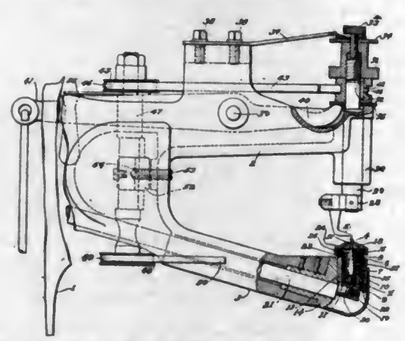
In a check valve for a fluid elevator wherein the latter includes a fluid lifting pipe, a shoe supported below the lower end of the lifting pipe, a cross piece arranged in the bore of a shoe, a tubular guide member secured in the lower end of the lifting pipe, the lower portion of the tubular guide member extending downwardly into the shoe and engaging said cross piece, a ball valve, a ring like seat therefor, an annular flange on the outer peripheral face of said seat, said flange being secured between the upper end of the tubular guide and the adjacent portion of the lifting pipe for supporting the seat in the lifting pipe, a stem threaded at its upper end in the bottom of the ball valve and extending downwardly through the cross piece in the shoe, a guide sleeve for the lower end of the stem and arranged in the lower portion of the shoe, a head on the lower end of the stem, a collar secured on the stem at a point above the cross piece, and a retractile coil spring encircling the stem and secured at its opposite ends to the collar and the cross piece respectively for normally holding the ball valve seated in a closed position.

1,666,963. MOLDING MACHINE. EDWARD G. GERMER, EARL G. WALBRIDGE, and JOHN M. WYSOCKI, Erie, Pa.; said Walbridge and Wysocki assignors to said Germer. Filed Oct. 30, 1925. Serial No. 65,765. 11 Claims. (Cl. 22—48.)



1. In a molding machine, the combination of a molding machine platform; a flask lifter adapted to lift flasks from the platform comprising means pivotally engaging a flask; and a swinging mounting for said lifter.

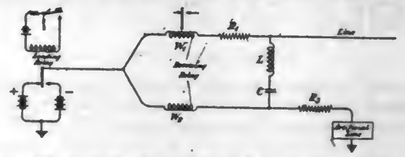
1,666,964. LINING-TRIMMING MACHINE. JOSEPH GOULDBOURN and JOHN WILLIAM GODDARD, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 28, 1925, Serial No. 12,427, and in Great Britain Mar. 8, 1924. 28 Claims. (Cl. 12—51.)



1. A machine for severing the lining which projects beyond an edge of the upper of a shoe having, in combination, a work support arranged to project into a shoe and to support a portion of the lining thereof, a cutter mounted in and movable relatively to said support to enter the shoe, and means for operating said cutter to sever the lining.

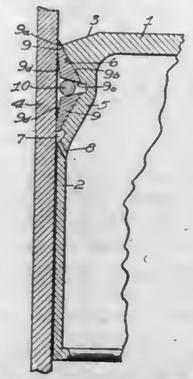
1,666,965. DIFFERENTIAL DUPLEX TELEGRAPH REPEATER. JOSEPH HERMAN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 26, 1926. Serial No. 118,693. 2 Claims. (Cl. 178—58.)

1. In a differential duplex telegraph repeater system, a line, an artificial line, a sending relay, a receiving relay having a first winding in series with said line and a second winding in series with said artificial line, a shunt path between said line and said artificial line, said shunt path including an inductance and a capacity of such values that they form a tuned circuit resonant at the frequencies of interfering alternating currents in the line, a first resistance in series with the first winding of the receiving relay, and a second resistance in the artificial line, said first resistance being of such a value that the



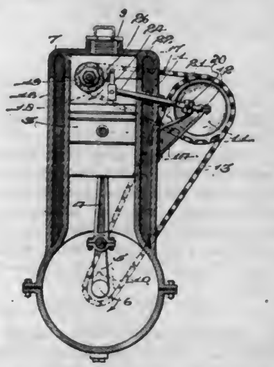
interfering alternating currents will divide between the two windings of the receiving relay, having no effect upon said relay, and said second resistance being of such a value that a duplex balance of the system is maintained.

1,666,966. PISTON AND PISTON-RING CONSTRUCTION. ROSCOE GOULD HILL, River Falls, Wis., assignor of one-half to Frederic X. Knobel, River Falls, Wis. Filed June 3, 1927. Serial No. 196,317. 5 Claims. (Cl. 74—109.)



1. The combination with a piston having an annular groove V-shaped in cross section, of a pair of piston rings, each having a surface arranged to bear on a wall of the groove, and a contractile spring ring arranged to bear simultaneously on said piston rings and tending to force them outwardly.

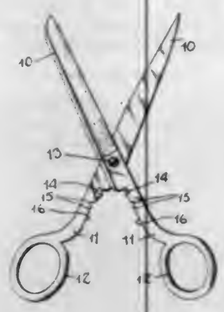
1,666,967. IGNITER FOR INTERNAL-COMBUSTION ENGINES. HARLEY A. W. HOWCOTT, New Orleans, La. Filed Jan. 15, 1926. Serial No. 81,485. 8 Claims. (Cl. 123—143.)



1. In combination with an engine cylinder having a piston operable therein to form a combustion chamber, an abrasive element situated solely and revoluble within

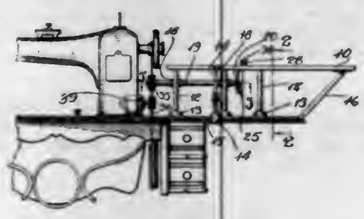
the combustion chamber, a metallic contactor also situated solely within the combustion chamber, and means carrying the contactor being reciprocatively mounted in the cylinder wall for periodically engaging the contactor with the surface of said element.

1,666,968. SCISSORS AND SHEARS. HENRY NEWTON JAMES, Miami, Fla. Filed Apr. 18, 1925. Serial No. 24,266. 1 Claim. (Cl. 7—6.)



In combination, a pair of members pivotally connected and having overlapping edges, the overlapping edges being provided with opposed rectangular notches, the bottoms of said notches being beveled to form opposed cutting edges, and the sides of the notches projecting beyond the cutting edges whereby to prevent slipping of an article being cut.

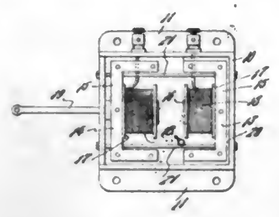
1,666,969. CLOTH CUTTER. HENRY NEWTON JAMES, Miami, Fla. Filed Oct. 5, 1925. Serial No. 60,588. 1 Claim. (Cl. 164—60.)



In a device of the kind described, a table having a slot therein, a rotating cutter journaled beneath said table and having a portion of its periphery projecting slantably above said table through said slot, a post extending upward from the table in parallel alignment with said slot, a clamp screw extending through the upper end of said post, a pair of arms each having one end pivoted to the clamp screw and the remaining end positioned adjacent said slot, and a cutter blade supported beneath the free ends of said arms and cooperating with the rotatable cutter.

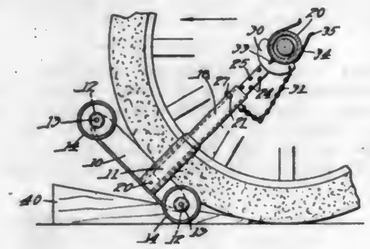
1,666,970. ELECTROMAGNET. CARLOS LUIS JAUSS, Mexico, Mexico. Filed Sept. 23, 1925. Serial No. 58,146. 2 Claims. (Cl. 175—340.)

2. In an electromagnet, a support, electro-magnets carried thereby, each of said magnets comprising a substantially E-shaped bar including a middle leg and an inductance mounted upon the middle leg of each of said bars with the ends of the bars and the inductances arranged in opposed relation, means to fixedly secure one



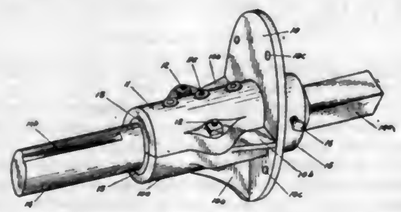
of the magnets to the support and spaced parallel slide rods fixed to the support and extending through the bar of the other magnet to slidingly support the latter.

1,666,971. AUTOMOBILE JACK. EUGENE J. MCCARTY, Clinton, Mass. Filed Dec. 10, 1926. Serial No. 153,967. 1 Claim. (Cl. 254—94.)



In an automobile jack, the combination with a base having a socket projecting upwardly therefrom near one end, a telescoping support carried in said socket and connected with the base to hold the upper end of the telescoping support always at the same distance from the base, a head on the upper end of said support adapted to support the axle of a car and having a seat therethrough at the top, and means on said head for grasping the axle of an automobile simply by pressing the jack upwardly toward it so that the jack will be supported by and hung from the axle and will be capable of swinging about it.

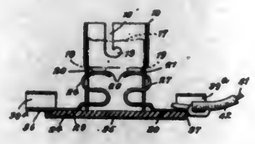
1,666,972. MOTOR POWER TAKE-OFF. GUSTAF E. MILLER and OSCAR E. MILLER, Stratton, Nebr. Filed Feb. 21, 1927. Serial No. 170,065. 1 Claim. (Cl. 308—15.)



A motor power take off which is adapted to be secured to an automobile engine in the place of the universal joint, said power take off including a shaft and a support

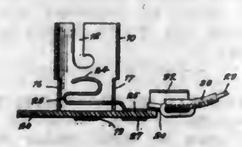
therefor, said support including two parts, one of said two parts comprising a semi-cylindrical part and a circular disc, said circular disc being provided with apertures for securing said take off to the engine in the place of the universal joint, the other of said two parts being semi-cylindrical and having means for securing it to the semi-cylindrical portion of said first described part, bearings between said semi-cylindrical members, said shaft passing through said bearings and having its inner end portion in square form, an adjustable collar surrounding said shaft adjacent said square portion, and a set screw for securing said collar to said shaft.

1,666,973. DOUBLE-CONTACT SOCKET FOR ELECTRIC LAMPS. FREDERICK J. MILES and DONALD C. THOMPSON, Newark, N. J., assignors, by mesne assignments, to Eugene Sullivan, New York, N. Y. Filed Nov. 14, 1924. Serial No. 749,906. 1 Claim. (Cl. 173—328.)



An electric lamp socket consisting of five parts, a base member of insulating material having a plurality of slots formed therein, a cylindrical sleeve or socket member having at one end two oppositely located bayonet-lock slots adapted to receive the laterally projecting pins of a lamp base, two oppositely located gaps at the other end and positioned diametrically opposite to the bayonet-lock slots, and two oppositely located lugs positioned between said gaps and adapted to pass through slots in the base, and bent over to clamp the sleeve in position; two contact members mounted on said base and projecting into the sleeve member through said gaps, each of said contact members being formed in one piece, stamped from sheet metal and having the contact end in the form of the letter S, lugs projecting from the mid-section adapted to pass through slots in the base plate and bent over to clamp the contact piece in position, and at the outer end having lugs for clamping a circuit wire thereto, and a plate of insulating material covering all said lugs on the under side of the base plate.

1,666,974. SOCKET FOR ELECTRIC LAMPS. FREDERICK J. MILES and DONALD C. THOMPSON, Newark, N. J., assignors, by mesne assignments, to Eugene Sullivan, New York, N. Y. Filed Nov. 14, 1924. Serial No. 749,907. 2 Claims. (Cl. 173—328.)



1. An electric lamp socket consisting of three pieces, one, a base member of insulating material having a plurality of slots formed therein; two, a cylindrical contact member having two oppositely located bayonet-lock slots adapted to receive the latterally projecting pins of a lamp base, a slot or gap for receiving the other contact element, and two oppositely located lugs adapted to pass through slots in the base piece and to be bent over for clamping same to the base piece and which lugs are adapted to make contact with a metallic piece included in a grounded circuit; and three, a spring contact member projecting into said cylindrical piece and having downwardly projecting lugs passing through slots in said base piece and bent over to clamp same in position and also having lugs for clamping a circuit wire to said contact member.

1,666,975. BELT ATTACHMENT. JOSEPH H. MONAHAN, Worcester, Mass. Filed May 11, 1927. Serial No. 190,588. 9 Claims. (Cl. 24—8.)

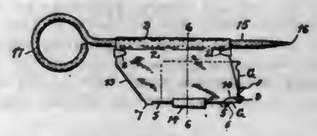


1. A belt attachment comprising a supporting member and a tongue mounted for swinging movement thereon, said tongue and supporting member having curved portions substantially concentrically disposed and forming a pivot bearing for said tongue, and a portion of said tongue engaging a portion of said supporting member adjacent said pivot bearing by which cooperative engagement said tongue is held under tension in assembled relation with said supporting member.

1,666,976. GASOLINE SUBSTITUTE AND PROCESS OF MAKING. JOHN B. NEUENDORFF, San Antonio, Tex. Substitute for application Serial No. 473,382, filed May 18, 1921. This application filed Aug. 6, 1926. Serial No. 127,705. 7 Claims. (Cl. 44—9.)

1. A process of improving petroleum distillates for use in internal combustion engines which comprises subjecting the said distillates in a liquid state to the action of clear lime water.

1,666,977. COMBINATION TOOL. CLARK H. RUTTER, New Castle, Pa. Filed Oct. 27, 1926. Serial No. 144,428. 1 Claim. (Cl. 30—20.)

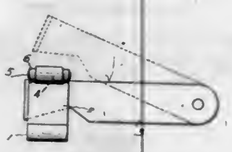


A tool comprising a body including two sides, a tubular portion formed at the juncture of the two sides and adapted to hold a stem removably therein, a blade located between the two sides, a clamp for detachably securing the blade in position, a tongue disposed at an angle from the corner of one of said sides, a second tongue extending from the corresponding corner of the other side, said tongues being located at right-angles to each other, there being a notch formed in the body between said tongues to expose a portion of said blade.

1,666,978. TERMINAL CONTACT CLIP. JOSEPH SACHS, Hartford, Conn. Filed Dec. 12, 1921, Serial No. 521,776. Renewed Aug. 14, 1926. 6 Claims. (Cl. 200—166.)

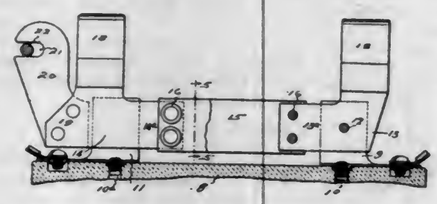
1. A rupture contact for an electric switch adapted to receive and contact with a switching member, the said contact comprising in combination a contact finger adapt-

ed to make electrical contact with said member, and a rotatable conducting rupture element electrically connected with the finger and held against bodily movement in directions parallel with the plane of the normal contact surface thereof, the said rupture element being positioned beyond



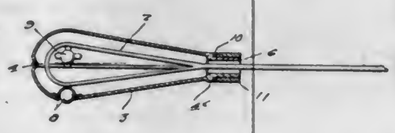
the end of the said normal contact surface of the finger so as to contact with the normal contact surface of the switching member during its circuit opening movement, thus providing a shifting rupture surface located beyond the end of the normal contact portion of the finger which is thereby protected from arcing manifestation.

1,666,979. FUSIBLE SWITCH. JOSEPH SACHS, Hartford, Conn. Filed Jan. 25, 1923. Serial No. 614,848. 1 Claim. (Cl. 200—114.)



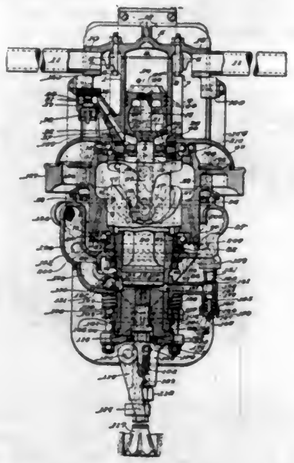
In an electric switch of the knife blade type, the combination with a base and two separated clips secured to the base in alignment with each other and each having ears with standard spacing between them, of a pivotally mounted switch member comprising four thin plates of conducting material arranged in pairs with the inner faces of the plates of each pair in direct contact with each other and with their combined thickness such as to adapt them to fit between and electrically engage at their outer faces with the ears of the corresponding terminal clips, opposed integral extensions on the plates of the respective pairs forming pairs of fuse receiving clips, and two spaced plates of insulating material connecting the conducting plates and respectively secured to and engaging the opposite outer faces of the said plates at portions thereof other than the terminal clip engaging portions.

1,666,980. CABLE HEAD. JOHN E. SHARP, Wheeling, W. Va. Filed Apr. 1, 1927. Serial No. 180,207. 4 Claims. (Cl. 175—376.)



4. A snake head comprising concavo-convex sections hingedly connected together at their forward ends and having a comparatively large forward portion and antifriction devices carried by and protruding from said portions, and means for detachably holding the rear end portions of said sections together.

1,666,981. IMPACT OR PERCUSSIVE TOOL OF THE EXPLOSIVE-MOTOR TYPE. CHARLES STUART SOMERVELL, Riverton, N. J.; Bertha W. Somervell, administratrix of said Charles Stuart Somervell, deceased, assignor to Pennsylvania Gasoline Drill Company, Philadelphia, Pa., a Corporation of Delaware. Filed Aug. 25, 1923. Serial No. 659,350. 34 Claims. (Cl. 123—7.)



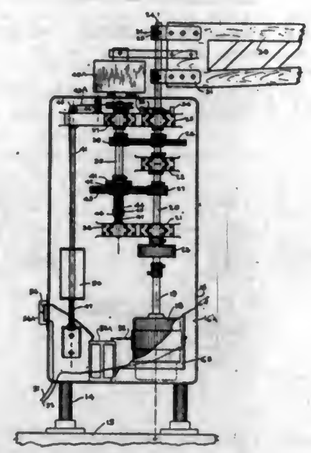
14. In an impact tool, the combination of a cylinder, a piston reciprocable therein on the principle of an internal combustion engine, a rotor surrounding said cylinder coaxially therewith and rotated by said piston-hammer, and an oil pan rigidly secured to said cylinder, surrounding said cylinder, extending upwardly to surround the lower portion of said rotor and having a flange at the top thereof extending inwardly close to the outer surface of said rotor to prevent the escape of oil over the top of said pan when said cylinder is inclined in any direction.

33. In an impact tool, the combination of a cylinder, a piston-hammer reciprocable therein on the principle of an internal combustion engine, said piston-hammer cooperating with said cylinder to draw air into a portion of said cylinder on the return stroke of said piston-hammer and to compress air in said cylinder during the power stroke of said piston-hammer, means to regulate and control the pressure of the air so compressed in said cylinder to vary and modify the force of the blow delivered by said piston-hammer, means to conduct some of the air so compressed to the bottom of the hole being drilled to remove detritus therefrom, and means to conduct some of the air so compressed from said cylinder to the combustion end of said cylinder to cool said end of said cylinder.

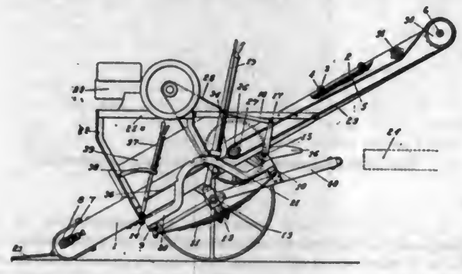
1,666,982. RAILWAY GATE. ROBERT STRICKLER and JOHN HENRY MCJANNETT, Woodstock, Ontario, Canada. Filed June 24, 1926. Serial No. 118,251. 2 Claims. (Cl. 39—7.)

1. In a railway gate, a frame, a motor, a spindle, a bar carried by said spindle, a gear rigidly mounted upon said spindle, a long shaft arranged in parallel alignment with said spindle, a gear rigidly mounted upon said shaft and meshing with said first-mentioned gear, a friction disc rigidly secured upon said long shaft, a gear loosely mounted upon said long shaft and springheld against said friction disc, a short shaft in alignment with said spindle and the motor shaft and lying therebetween, a clutch member interposed between the

motor shaft and said short shaft adapted to operatively connect one with the other when the motor is rotating, a gear rigidly mounted upon said short shaft and meshing with said loosely mounted gear, and gravity operated means adapted for operating said short shaft in a direction opposite to that of the motor shaft.



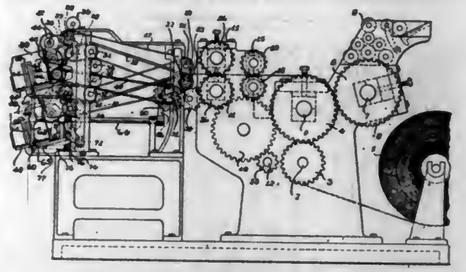
1,666,983. TRUCK LOADER. ERNEST W. SULLIVAN, Manteca, Calif. Filed Aug. 25, 1926. Serial No. 131,373. 1 Claim. (Cl. 198—121.)



A truck loader comprising a conveyor structure arranged to rest on the ground at one end and to slope upwardly from said end, a longitudinally extending frame under the conveyor intermediate its ends, means supporting the frame from the ground, hinge connections between the conveyor and frame at the lower end of the latter, cam members turnably mounted on the frame at its upper end and on which the conveyor rests, and manually operated lever means mounted on the frame and connected to the cam members for turning the same to raise and lower the conveyor and cause the same to turn about its hinge connection.

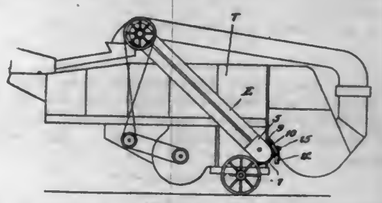
1,666,984. DELIVERY MECHANISM. LOUIS P. WILLSEA, Rochester, N. Y. Filed Jan. 26, 1927. Serial No. 163,773. 16 Claims. (Cl. 271—64.)

1. The combination with a sheet slitting mechanism and a transverse cutting mechanism for cutting the strips formed by the slitting mechanism, of a delivery mechanism having a plurality of feeding mechanisms receiving the pieces cut from the different strips, some



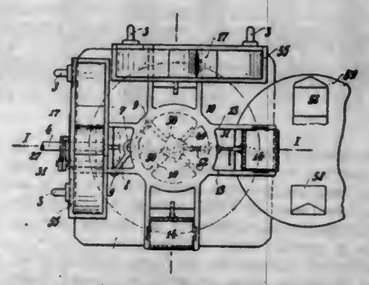
of said feeding mechanisms having their discharge ends discharging the pieces at the different horizontal planes from other of said feeding devices.

1,666,985. LATCH. WILLARD W. AYOTTE, Midale, Saskatchewan, Canada. Filed May 21, 1926. Serial No. 110,750. 1 Claim. (Cl. 292—113.)



A latch of the class described including a pair of brackets adapted to be attached to a support, a hook adapted to be attached to a closure or gate, links pivotally engaged with said brackets, a shank pivoted intermediate its ends to the extremities of the links, one end of said shank being twisted at right angles and bent to form a loop for engaging said hook.

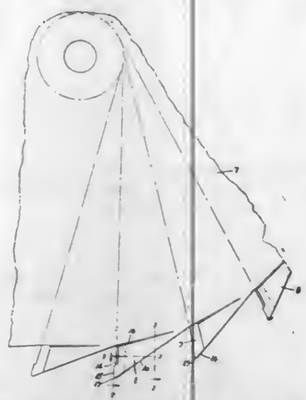
1,666,986. CIGARETTE-PACKING MACHINE. MAXIMILIAN BÄUML, Vienna, Austria, assignor to the Firm Jagenbergwerke Akt.-Ges., Dusseldorf, Germany. Filed Nov. 30, 1925, Serial No. 72,355, and in Austria Dec. 2, 1924. 5 Claims. (Cl. 226—5.)



1. A cigarette packing machine comprising in combination storage receptacles for the cigarettes, collecting receptacles for a certain number of cigarettes, means for intermittently feeding forward the collecting receptacles underneath the storage receptacles, compartments in the latter separated from one another by intermediate spaces,

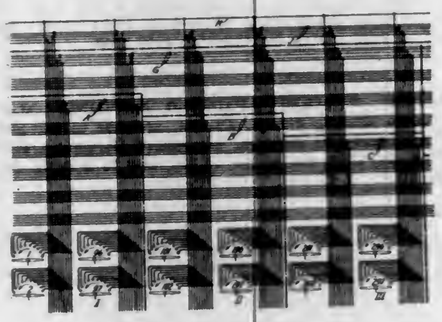
and means in these spaces for periodically releasing the cigarettes contained in the said compartments for permitting or preventing the passage of the cigarettes into the collecting receptacles.

1,666,987. SAW TOOTH. PERCY LEON BILLINGSLEY, Orlando, Fla., assignor of one-fourth to M. O. Overstreet, Orlando, Fla. Filed Nov. 26, 1926. Serial No. 150,950. 5 Claims. (Cl. 143—133.)



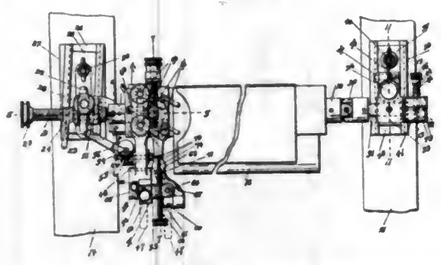
1. A saw whose teeth have bevelled faces with those edges between said faces and outer sides of the teeth forming cutting edges and being terminated within the height of the teeth by bevels reverse to the bevels of said faces.

1,666,988. TRUNKING SYSTEM. WILLIAM G. BLAUVELT, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 27, 1927. Serial No. 186,998. 6 Claims. (Cl. 179—18.)



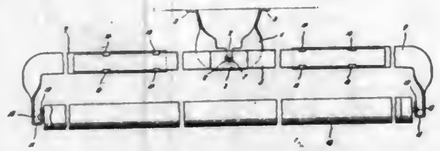
1. A trunking system in which a plurality of trunks gives service to a plurality of lines, the lines being divided into groups each having access to a number of trunks less than the total number provided, the trunks being divided into a plurality of groups, certain of said groups of trunks being assigned as first choice trunks to certain of said groups of lines, certain other of said groups of trunks being assigned as second choice trunks to certain pluralities of said groups of lines and another group of trunks being assigned as third choice trunks in common to all of said groups of lines, the numbers of the trunks of each group assigned to any group of lines and the order in which the trunks are selected being such that when a given number of the total number of trunks are busy the probability of one set of trunks of a given number being busy will be at least approximately the same as the probability that any other set of equal number will be busy.

1,666,989. RULING MACHINE. ALBERT BROADMEYER, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a Corporation of Pennsylvania. Filed Aug. 14, 1925. Serial No. 50,199. 9 Claims. (Cl. 33—39.)



1. In ruling apparatus, the combination with a movable pen beam, of an actuated arm carried thereby, an actuating arm, a trip movably mounted on the actuating arm, and means adjustably mounted on the actuated arm for engagement by the trip.

1,666,990. WINDOW-SHADE APPARATUS. THOMAS S. CATLIN, Waveland, Ind., assignor to Catlin-Tompkins Corporation of Indiana, Indianapolis, Ind., a Corporation of Indiana. Original application filed Feb. 3, 1922, Serial No. 533,795, Patent No. 1,546,565, dated July 21, 1925. Divided and this application filed June 15, 1925. Serial No. 37,100. 2 Claims. (Cl. 156—28.)



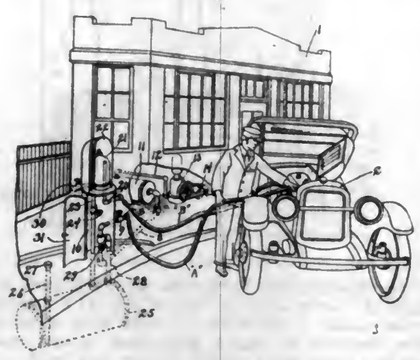
2. In window shade apparatus, the combination of a U-shaped bracket plate adapted to have its legs anchored to a horizontal overhanging surface, the plate having a vertical slot opening upwardly intermediate its ends, a flat bracket rod having an offset portion contacting with the bracket plate and pivotally engaging the same through said slot, and shade roller sustaining means carried by said bracket rod.

1,666,991. ELECTRICAL CONNECTER. SIDNEY COHEN, Neponsit, N. Y. Filed Aug. 25, 1925. Serial No. 52,437. 1 Claim. (Cl. 173—269.)



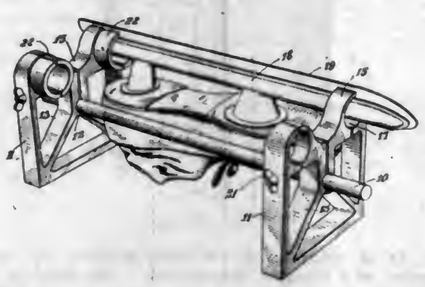
In a connecter for flexible electric conductors, the combination of a shank U-shaped in cross section having a terminal connection integral with one end and an upset bead projecting from the inside of the closed side of the shank, a jaw pivotally mounted in the terminal connection end of the shank and having its underside provided with a notch to coincide with the bead and a tooth to bite into the interposed flexible conductor, and a tapered insulating sheath slidable over the free ends of the jaw on said shank to force the two members into clamping position about the conductor.

1,666,992. APPARATUS FOR FORCING LUBRICANT FROM MOTOR-VEHICLE LUBRICANT-CONTAINING CASES. HENRY DEWARD COLLIER, San Francisco, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Mar. 30, 1925. Serial No. 19,555. 5 Claims. (Cl. 184—1.5.)



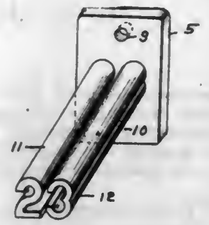
1. In an apparatus for discharging lubricant from a motor vehicle, the combination of a lubricant containing case, a discharge pipe secured to the said case and communicating with the same from below, the body of lubricant therein, and extending to a point readily accessible above the point at which the same is secured to the containing case, said pipe being adapted to normally prevent the flow of lubricant from the said case, an inlet communicating with the interior of the said case above the normal level of lubricant within the said case, means for connecting the said inlet with a source of air under pressure, and means for connecting the discharge pipe with a lubricant receiving container.

1,666,993. SHARPENING BLOCK FOR RACING SKATES. RICHARD D. CORKE, Yonkers, N. Y. Filed Dec. 2, 1926. Serial No. 152,236. 1 Claim. (Cl. 51—228.)



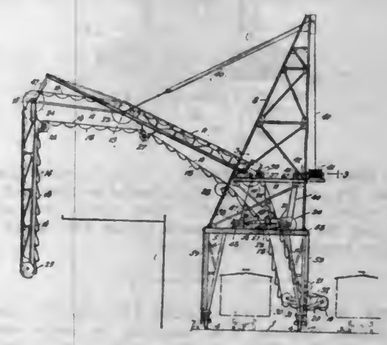
A device of the class described comprising a longitudinally extending bar and a plurality of clamping members slidably mounted thereon, each of said clamping members comprising a hub portion around the bar, a frame portion, means connecting the frame and hub, resilient clamping jaws carried by the frame and hub, and means for pulling the jaws of the frame and hub toward each other whereby the hub is put under tension on the bar.

1,666,994. MARKING SYSTEM. GEORGE H. CROSS, Merced, Calif., assignor of one-fifth to Samuel V. Cornell and two-fifths to Charles C. Hale. Filed June 20, 1925. Serial No. 38,586. 4 Claims. (Cl. 40—19.5.)



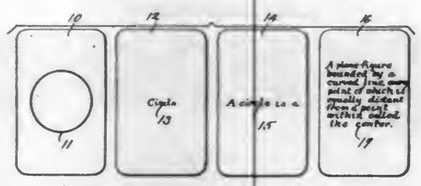
1. In a marking system a supporting rack adapted to be mounted upon a stationary support to project outwardly, said rack being of a configuration in transverse section corresponding to characters, in combination with a disc provided with perforations adapted to fit said rack bar.

1,666,995. MACHINE FOR LOADING AND UNLOADING SHIPS. BEMISS N. DAVIS, New Orleans, La. Filed June 1, 1925. Serial No. 34,019. 4 Claims. (Cl. 198—116.)



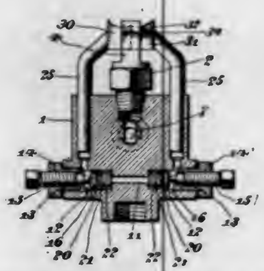
1. A machine for loading and unloading fruit and the like into and out of ships comprising a rigid supporting frame designed to be located entirely upon a dock and having gantry legs arranged inward and outward so vehicles may travel along the dock between the gantry legs, a boom connected to the frame above the gantry legs and adapted to overhang the ship, an endless conveyor, means carried by the frame and its boom for guiding the conveyor, and power-driven means for operating the conveyor in engagement with the load-carrying run thereof adjacent the frame-connected end of the boom, said conveyor including a bight portion guided on the frame and descending from the power-driven means into proximity to the dock permanently adjacent the inward gantry leg so that vehicles may be located outward relatively to said descending conveyor portion, said conveyor being guided on the boom and extending outward along the boom from the power-driven means and having a bight portion depending from the boom to enter the hold of the ship.

1,666,996. EDUCATIONAL CARD GAME. HAZEN DOUGLAS, Dundalk, Md. Filed Apr. 9, 1927. Serial No. 182,253. 3 Claims. (Cl. 273—152.)



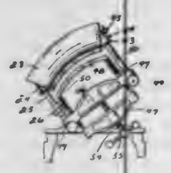
1. In an educational card game, a series of groups of cards, each group including a key card bearing the picotrial representation of a geometrical figure, and each group having a series of other cards bearing indica of facts relating to the geometrical figure illustrated on the key card.

1,666,997. PILOT BURNER. SVEN AUGUST ESKILSON and KARL AXEL BERNHARD HOLM, Stockholm, Sweden, assignors to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 10, 1927. Serial No. 160,052. 6 Claims. (Cl. 67—16.)



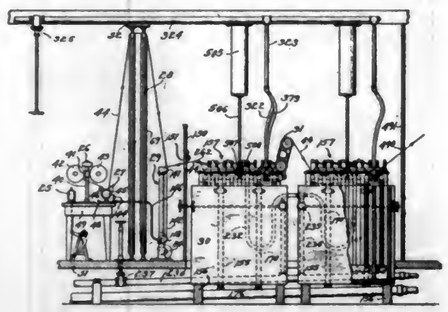
1. A pilot burner comprising a casing to which gas is supplied, the upper end of which casing is open and one side of which is provided with a notch, which notch opens out toward the body of the main burner with which the said pilot burner may be associated.

1,666,998. REPAIR VULCANIZING APPARATUS. MERLE E. FABER, Waupun, Wis., assignor, by mesne assignments, to The Shaler Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 13, 1926. Serial No. 94,444. 8 Claims. (Cl. 18—18.)



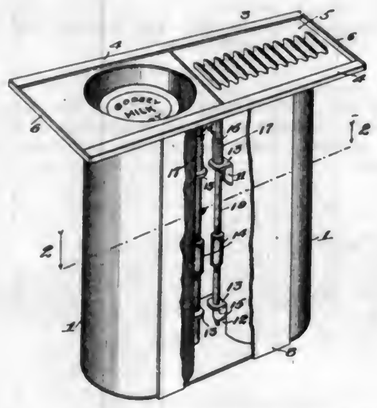
1. In a vulcanizing apparatus, the combination with a source of supply for heated fluid, of a post for interchangeably supporting a set of hollow mandrels in an axially tilted position to drain through one end, a set of hollow mandrels each having an elbowed member at one end adapted for sliding engagement with the end of the post, and a connecting member leading from the source of supply and adapted to be interchangeably coupled to the lower ends of the mandrels for fluid admission and exhaust purposes.

1,666,999. FILM-DEVELOPING MACHINE. FRANK E. GARBUTT and LEIGH M. GRIFFITH, Los Angeles, Calif., assignors to Paramount Famous Lasky Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1926. Serial No. 104,609. 14 Claims. (Cl. 95—94.)



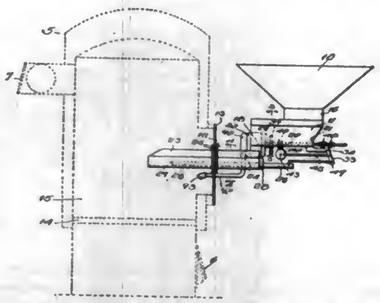
1. An apparatus for developing motion picture film comprising: means suited to contain liquids; a plurality of roller means so placed that a single strip of motion picture film may be looped about each of said roller means in a single series passing through said liquid; and a series of prime movers, each independent of the other, and each adapted to drive one of said roller means.

1,667,000. MILK DISTRIBUTOR AND BOTTLE COLLECTOR. ROBERT D. GODSEY and MOSES P. LITTON, Bristol, Va., assignors of three-fourths to said Godsey and one-fourth to said Litton. Filed Mar. 9, 1927. Serial No. 173,915. 11 Claims. (Cl. 232—4.)



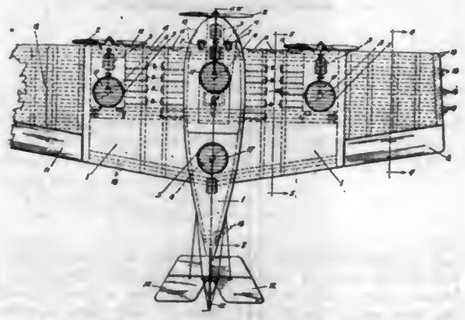
1. In an apparatus of the class described, the combination of a plurality of containers, a top structure including a sliding top upon said containers, and bodily movable locking means extending into said containers and actuated by the weight of a bottle and adapted to normally engage said top for preventing sliding movement thereof.

1,667,001. FURNACE. OWEN H. GRAY and CHARLES E. MURDOCK, Salt Lake City, Utah, assignors to Gray & Murdock Mfg. Co., Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 3, 1927. Serial No. 172,260. 9 Claims. (Cl. 236—46.)



1. In a furnace, the combination of a mechanical fuel feed, means for periodically operating said fuel feed independently of temperature requirements, and means for varying the duration of the periodic fuel feeding operations produced by said first means and the intervals between said operations with the temperature requirements of the furnace.

1,667,002. AIRCRAFT. CHARLES S. HALL, Los Angeles, Calif., assignor to Hall Airways Corporation, Dover, Del., a Corporation. Filed Nov. 12, 1921. Serial No. 514,737. 8 Claims. (Cl. 244—7.)



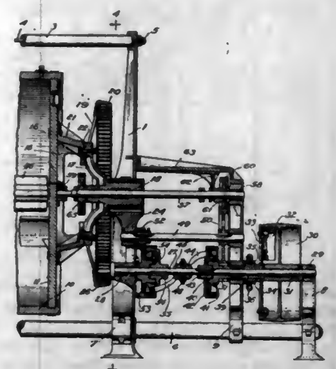
3. In an aircraft the combination of a body and sustaining wing elements extending from each side thereof, a plurality of air tight compartments in said body and wings, said compartments having a lighter-than-air constituent therein, means for varying the weight of the constituent in the compartments, propelling means for advancing said aircraft, helicopter propellers between the compartments in said body and means to drive all of said propellers.

1,667,003. SCREW-CAP CLOSURE. JAMES S. HARDIMAN, Long Island City, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Filed Oct. 31, 1922. Serial No. 598,061. 15 Claims. (Cl. 215—43.)



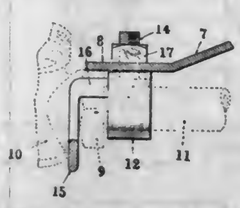
1. A closure cap having a cover portion, a skirt depending from said cover portion, the metal at the lower edge of said skirt being inturned and forming a hollow part adjacent the lower edge of said skirt, and a thread groove across said hollow portion to form a screw thread lug therein.

1,667,004. GUDGEON STRUCTURE FOR CHURNS AND BUTTER WORKERS. LEONARD F. HEITZ, Lake Mills, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 16, 1922. Serial No. 544,310. 3 Claims. (Cl. 308—36.)



3. In apparatus of the class described, a gudgeon structure adapted to support a rotatable drum having rotatable roll shafts extending outwardly therefrom, comprising, in combination, a base portion adapted to be attached to said drum, a journal portion alined with the axis of said drum, and lateral extending portions having bearings therein for the outward support of said roll shafts.

1,667,005. ANGLE-COCK AND PIPE HOLDER. LOUIS A. HOERR, St. Louis, Mo., assignor to Railway Devices Company, a Corporation of Missouri. Filed Feb. 8, 1924. Serial No. 691,329. 2 Claims. (Cl. 248—31.)

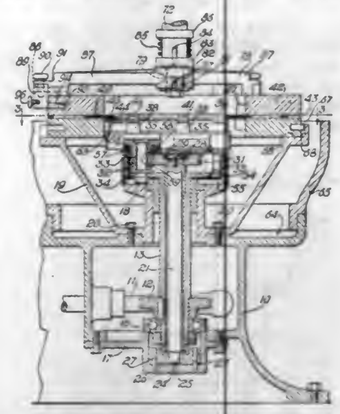


1. A supporting device for the elements of a railway car consisting of a train pipe, a train pipe nipple coupled to the pipe and an angle cock carried by the nipple, which comprises a one-piece bent plate adapted to be secured to the car at a point intermediate the ends of the plate, the rear end of said plate being bent downward to support the train pipe independently of the nipple, the forward end of said plate being positioned to prevent rotation of the angle cock, and means carried by said forward end of the plate and separable therefrom and adapted to support the forward end of the train pipe nipple.

1,667,006. LAPPING MACHINE. ROBERT HOFSTETTER, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 27, 1925. Serial No. 39,890. 7 Claims. (Cl. 51—161.)

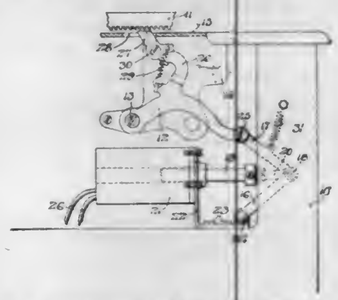
1. The combination of a lapping machine having upper and lower lapping plates mountable in operative position relative to each other, a work carrier mountable between said plates, means for providing a relative motion between

said plates and carrier whereby lapping movements between the work and plates are accomplished, of means for loading and mounting said carrier in operative posi-



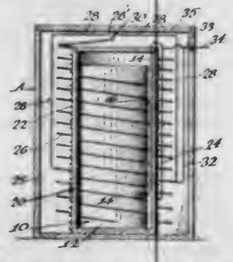
tion relative to said plates comprising a sectional ring like member adapted to be removed before the lapping operation.

1,667,007. BACKSPACING MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed July 29, 1925. Serial No. 46,747. 2 Claims. (Cl. 197—91.)



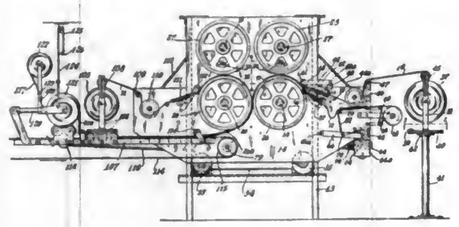
1. In a typewriter, a backspace lever, a solenoid, a plunger arranged to be operated by said solenoid and toggle mechanism for connecting said plunger with said lever.

1,667,008. UNDERGROUND ANTENNA. NICHOLAS KADEL, Glendale, Calif. Filed Dec. 27, 1926. Serial No. 157,061. 5 Claims. (Cl. 250—33.)



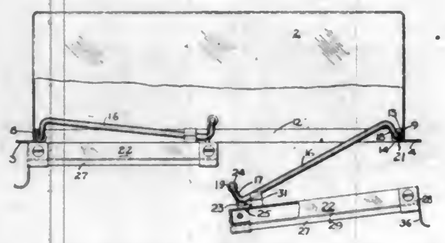
1. In an underground aerial for radio reception, a plurality of glass containers arranged one within another, the outermost being sealed, a bare wire coil arranged in each of said containers, and a lead connecting said coils in parallel and passing without said outermost container.

1,667,009. METHOD AND APPARATUS FOR MAKING LAMINATED STRIPS. GILBERT L. MATTHIAS, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 16, 1924. Serial No. 693,398. 12 Claims. (Cl. 154—9.)



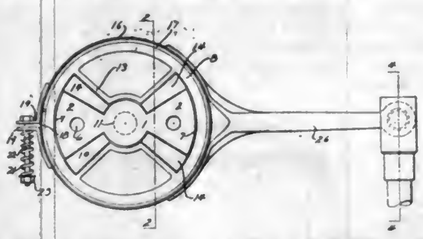
1. The method of making laminated imbricated units of adhesive sheet material which comprises progressively bringing separate series of sections of said material into face-to-face contact, and coordinating the super position of the sections of said series to bring the ends of the sections of any series in overlapping relation to the ends of a contiguous series.

1,667,010. WALL-CABINET HINGE. DANIEL J. MURNANE, San Mateo, Calif., assignor, by direct and mesne assignments, to Murnane Universal Twin Mirror Company, San Francisco, Calif., a Corporation of California. Filed Nov. 30, 1925. Serial No. 72,154. 4 Claims. (Cl. 16—163.)



1. A hinge mounting for a cabinet door comprising a rod having arms at its ends extending from the rod in a common plane and in opposite directions, a pivot extending from each arm at right angles to said plane, a socket secured to the cabinet adjacent one side thereof for seating one of said pivots, and a second socket for seating the other of said pivots and secured to the door adjacent an edge remote from the first socket.

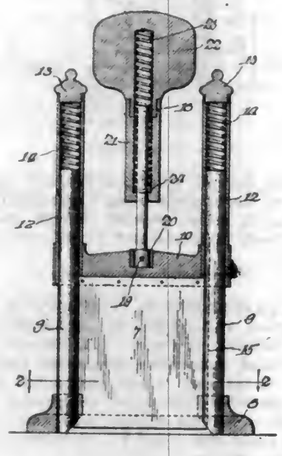
1,667,011. SHOCK ABSORBER. ELISHA LEONARD PEACOCK, San Francisco, Calif., assignor to George A. Peacock, San Francisco, Calif. Filed Feb. 23, 1926. Serial No. 90,017. 2 Claims. (Cl. 188—130.)



1. A shock absorber for vehicles comprising a hub fixedly attached to the frame of the vehicle, a plurality of radial arms integral with the hub, a drum mounted

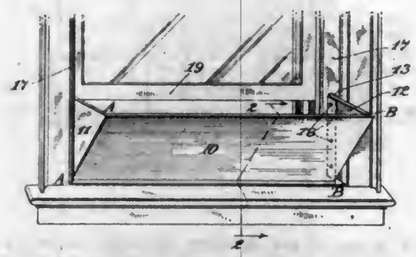
for rotary movement about the hub and arms, inwardly extending segments on the drum and spaced between the arms, cushioning means filling the space between the segments and the arms, and means connected to the axle and frictionally engaged with said drum.

1,667,012. PUNCHING AND CUTTING TOOL. ALBERT G. L. PIEPER, Chicago, Ill., assignor of one-half to Robert Hofeller, Chicago, Ill. Filed Dec. 21, 1923. Serial No. 682,081. 2 Claims. (Cl. 164—94.)



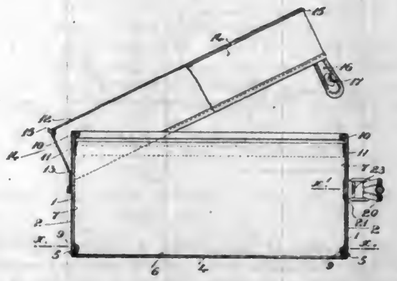
1. In a device of the character described, the combination of a base, a head movably mounted on the base, springs for retracting the head, a tool connected to the lower end of said head, a stem secured to the upper end of the head, a hammer slidably mounted on the stem for imparting a blow to said head to drive the tool, and a spring for retracting the hammer.

1,667,013. WIND DEFLECTOR. WILLIAM H. ROSE, Jersey City, N. J. Filed Apr. 13, 1927. Serial No. 183,590. 4 Claims. (Cl. 98—99.)



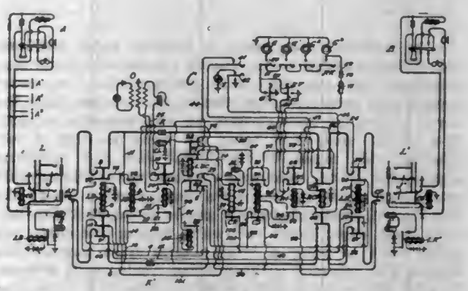
1. In a wind deflector made of corrugated cardboard, in combination, a front member, a triangular side member integral with each end of the front member having openings therein, a U shaped metallic strengthening member carried by the free side of each side member, the metallic member having oppositely positioned aligned openings so positioned that fastening means passed therethrough will affix the side members in abutment with a window frame, and a plurality of inwardly extended teeth carried by the inner edge of each metallic member inserted within the cardboard.

1,667,014. HAND BAG OR CASE. GEORGE CARRUTHERS ST. JOHN SNELL, Birmingham, England, assignor to J. B. Brooks and Company Limited, Birmingham, England, a British Company. Filed Aug. 7, 1926, Serial No. 127,764, and in Great Britain Mar. 31, 1926. 3 Claims. (Cl. 190—54.)



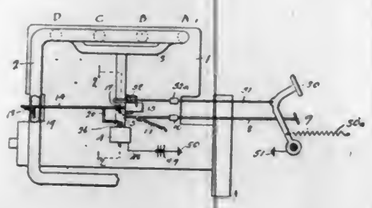
1. A hand travelling case comprising a body portion composed of a peripheral stiffening board set vertically on edge with the ends overlapping and joined together to form the required shape, separate top and bottom endless reinforcing frames corresponding in shape to the contour of the stiffening board and engaged with the inner face thereof, one adjacent the bottom and the other adjacent the top, an outer covering of flexible material the upper edge of which is turned over and secured to the inside face of the stiffening board so as to overlap the top reinforcing frame, and an inside lining covering the bottom reinforcing frame and secured to the inside face of the stiffening board.

1,667,015. TELEPHONE SYSTEM. MICHAEL B. STAZAK, Chicago, Ill., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill., a Corporation of Illinois. Filed June 18, 1926. Serial No. 116,804. 10 Claims. (Cl. 179—51.)



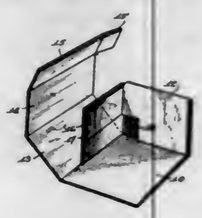
1. A telephone system having party lines each provided with a plurality of answering jacks and line signals terminating at a plurality of operators' positions, link circuits provided with connection terminals for interconnecting said lines, a calling subscriber and a called subscriber on one of said party lines connected in conversational circuit via one of said link circuits, and means in said link circuit including a disconnect relay energized upon the connection of one of said terminals to the party line and a supervisory relay controlled over said subscribers' telephone line for deenergizing said disconnect relay thereby disconnecting said link circuit from the jack of said party line.

1,667,016. METHOD AND MEANS FOR BRAKING VEHICLES. CHARLES L. STOKES, Los Angeles, Calif., assignor of one-half to George L. Erts, Los Angeles, Calif. Filed Apr. 23, 1925, Serial No. 25,345. Renewed Aug. 22, 1927. 10 Claims. (Cl. 192—3.)



1. The method of decelerating a vehicle impelled by an internal combustion engine, which comprises supplying a gaseous fluid to an engine rotated by the inertia of a vehicle, creating a back pressure in the engine by throttling the discharge of the gaseous fluid therefrom and governing said back pressure by the engine induction vacuum.

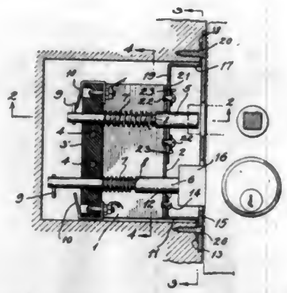
1,667,017. DOUBLE CORNER AND LOCK FOR CONTAINERS. EDWARD O. TINSLEY, New York, N. Y., assignor to Robert Gair Company, New York, N. Y., a Corporation of New York. Filed Nov. 20, 1924. Serial No. 751,014. 6 Claims. (Cl. 229—34.)



1. A container comprising, a bottom; outer side and end walls connected to the bottom; inner side walls connected to the outer side walls and provided with inner closure tabs each connected thereto by a corner fold; the lower portion of each closure tab and the adjacent portion of the inner wall being cut away to form a rectangular side recess in the inner wall and extending under said corner fold and an end space joining said recess and extending under the inner closure tab to the end thereof, each side recess having a substantially vertical inner edge; inner end walls joining the outer end walls, each carrying a locking strip lying against the bottom and provided with upturned locking ends disposed in said side recesses and projecting into said end spaces.

1,667,018. BURGLAR-ALARM MOUNTING. PAUL VICTOR VANDEVELDE, Corona, N. Y. Filed Apr. 13, 1926. Serial No. 101,654. 1 Claim. (Cl. 200—55.)

A circuit closer for burglar alarm system, adapted to be arranged behind the striking plate of a door latch, and including a support, and plungers movable in the support and spring urged toward the openings of the striking plate, and arranged to open a circuit when moved against the resistance of the springs by the bolts of the door, and means to enable the support to be connected to the door frame by the connecting means of the striking plate, including brackets for the ends of the support, each bracket consisting of laterally offset connected portions, one adapted to lie beneath the striking plate and having an opening for the securing means of the striking plate, and the other adapted to lap on the adjacent face of the support and to be secured thereto,

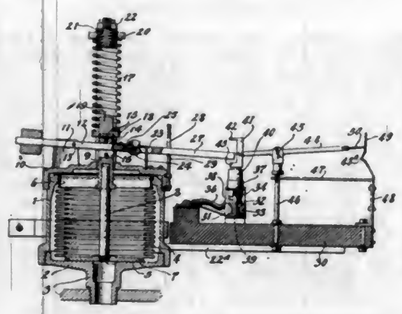


securing means for said other portions, the lapping portion of one of the brackets being longitudinally slotted, and the securing means passing through the slots to enable adjustment of the bracket for different lengths of striking plates.

1,667,019. PLASTER-BLOCK COMPOSITION. FREDERICK M. VENZIE, Philadelphia, Pa. Filed May 18, 1923. Serial No. 639,973. 1 Claim. (Cl. 106—84.)

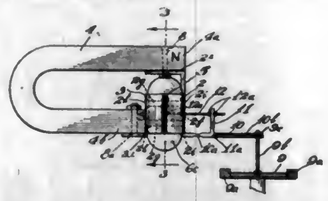
A plaster block composition comprising approximately from a half to one part of saw dust mixed with about one part of plaster-of-Paris, there being added about one part of water to wet the mixture, said water containing about 5% of liquid glue, about 5% of dextrine, and about 10% of silicate of soda.

1,667,020. PRESSURE-RESPONSIVE DEVICE. OTTO G. WENDEL, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 21, 1921. Serial No. 502,237. 13 Claims. (Cl. 200—81.)



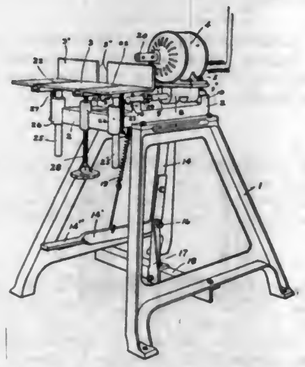
1. A device of the character described comprising a support, a plunger adapted to be reciprocated relative to said support, a rocker arm pivoted to said support at one side of said plunger and extending transversely of said plunger between opposing portions of the same to permit of said plunger positively moving said arm back and forth; said opposing portions being spaced to permit of a limited independent movement of said arm between said opposing portions, and a snap action device interposed between said arm and said support for imparting a snap movement to said arm in one direction or the other depending on the direction of movement of said plunger, substantially as specified.

1,667,021. TRANSLATOR OF ELECTRICAL ENERGY. HENRY M. WILLIAMSON, Chicago, Ill., assignor to Johnson-Williamson Laboratories, Incorporated, Chicago, Ill. Filed Dec. 8, 1923. Serial No. 679,426. 17 Claims. (Cl. 175—337.)



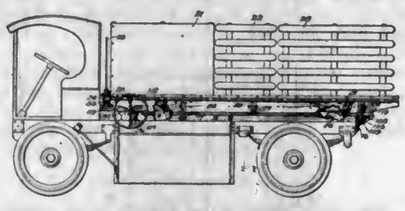
1. An electrical device including a magnet and pole-pieces for said magnet, an armature having a plurality of bearings intermediate its ends and means for changing relative polarities of said pole-pieces and said armature.

1,667,022. DRILLING MACHINE. HUGH C. WOOD, San Francisco, Calif. Filed Mar. 24, 1925. Serial No. 17,934. 3 Claims. (Cl. 144—92.)



1. In a drilling machine of the character described, a floor stand, a pair of horizontally arranged bars thereon supported by and above the upper end of the stand, and a drilling carriage block slidably mounted on said bars, said bars being seated and secured in vertically open horizontal grooves formed on top of the stand and the bars being removable vertically from the open sides of the grooves.

1,667,023. REMOVABLE-BODY TRUCK. WILLIAM M. BAXTER, Chicago, Ill., assignor to Ideal Removable Body Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 14, 1922. Serial No. 581,565. 28 Claims. (Cl. 214—38.)

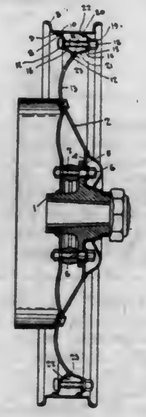


1. In a removable body truck, the combination of a chassis frame provided with a track, a removable body, and laterally yieldable supporting rollers mounted upon said body in position to engage said track.

15. In a removable body truck, the combination of a chassis frame, a removable body provided with a rack, a pinion adjustably mounted on said chassis frame in position to engage and actuate said rack, means including a worm drive for rotating said pinion, and means for vertically adjusting said pinion, said means including a bell crank lever, a spring carried thereby in position to exert an upward thrust upon the pinion, worm driven means for rocking said bell crank lever, and a lifting arm fixed to said bell crank lever to raise said pinion beyond the point to which it has been raised by the maximum thrust of said spring.

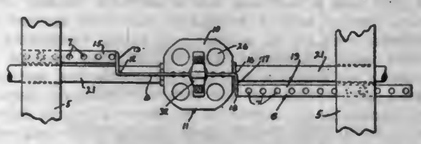
28. In a removable body truck, a chassis frame, a pinion carried by said frame, a body removably disposed upon said chassis, a rack carried by said body, means including a resilient element cooperative with said rack for resiliently elevating said body, and means to positively position said elevating means.

1,667,024. VEHICLE WHEEL. WILLIAM N. BOOTH, Detroit, Mich. Filed Aug. 21, 1922. Serial No. 583,340. 4 Claims. (Cl. 301—28.)



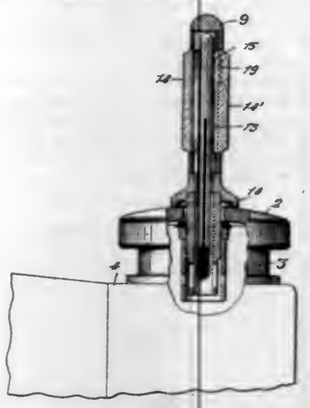
4. In a vehicle wheel, a wheel body having a flared seat and a radially inwardly spaced beaded portion, in combination with a demountable rim engageable with said flared seat and a sheet metal channel shaped clamping ring having an outer flange engageable with said demountable rim and an inner flange transversely sheared to terminate in peripherally separated diverging foot flanges engageable with said beaded portion to position said ring concentrically upon said wheel body.

1,667,025. OUTLET-BOX HANGER. CLAUDE E. BOWERS, Los Angeles, Calif. Filed Oct. 21, 1925. Serial No. 63,874. 1 Claim. (Cl. 247—22.)



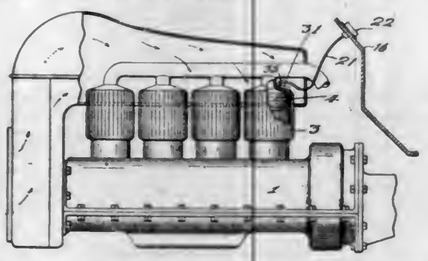
A hanger bar for terminal boxes comprising a strap metal bar having a terminal box supporting portion intermediate its ends, said bar being bent downwardly at the ends of the supporting portion and to one side of the space that may be occupied by a conduit, the end of each bend being again bent to form attaching portions extending parallel to the supporting portion, the surfaces of said attaching portions being disposed at substantially right angles to the surface of the box supporting portion, whereby the attaching portions will be disposed out of alinement with the box supporting portion of the bar.

1,667,026. INDICATING INSTRUMENT FOR AUTOMOBILE RADIATOR CAPS AND THE LIKE. HARRISON H. BOYCE, Jericho, N. Y. Original application filed Oct. 31, 1917, Serial No. 199,413. Divided and this application filed Jan. 19, 1922. Serial No. 530,274. 7 Claims. (Cl. 73—52.)



1. In an instrument of the character described, a frame, an indicating dial mounted therein having a window, indicating means arranged for movement across said dial and window, and a crystal having a prismatic portion registering with said window and mounted in said frame on that side of said dial and indicating means which is away from the side from which said indicating means is intended to be observed.

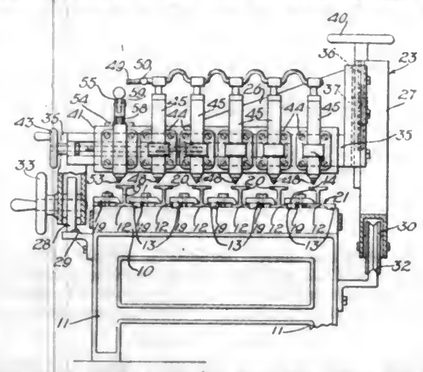
1,667,027. TEMPERATURE-INDICATING APPARATUS FOR VEHICLE-PROPELLING MOTORS. HARRISON H. BOYCE, Jericho, N. Y. Filed July 29, 1925. Serial No. 46,731. 2 Claims. (Cl. 73—52.)



1. In temperature indicating means for air-cooled internal combustion motors or motor vehicles, the combination of a flattened fluid filled bulb, means for securing said bulb with a flattened side in intimate thermal conductive contact with a portion of the outer surface of a cylinder wall of the motor, said means comprising a metallic casing extending over the bulb and secured to the motor wall, and a layer of non-conducting material between said casing and the bulb, an indicating instrument located in a position to be observed by the driver when operating the vehicle, and a means connecting said instrument for operating from bulb.

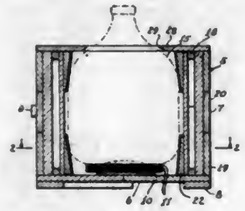
1,667,028. MATERIAL-WORKING APPARATUS. STANLEY EDWARD BOYNTON, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1925. Serial No. 4,976. 4 Claims. (Cl. 164—86.)

1. In a material working apparatus, means for supporting a plurality of blanks upon definite centers, a plurality of work tools adjacent thereto and upon centers corresponding to the blanks, means for moving said tools longitudinally and laterally of the blanks, means associated with said tools and blanks and designed for movement independent of said tools for indicating when said



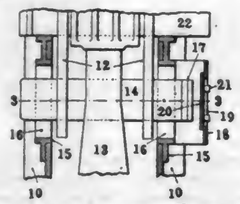
tools are at a predetermined point with respect to said blanks, and means for causing said tools to perform work upon said blanks.

1,667,029. CARBOY-SHIPPING CONTAINER. OSCAR Z. BREWER, Spokane, Wash., assignor of one-half to Herbert H. McNeill, New York, N. Y. Filed Mar. 9, 1926. Serial No. 93,461. 10 Claims. (Cl. 217—54.)



1. In a carrier for carboys, in combination, a rectangular box, corner posts triangular in cross-section disposed in the corner angles of said box and extending from the top to the bottom of the box, spring members secured at their ends to the flat inward faces of the corner posts and extending longitudinally thereof for the length of the corner posts and spaced away from said faces for the portions of their lengths between said ends and having guideways on their inward faces, and a pair of triangular wedges for each spring member engaging the guideway of the spring member and spaced away from each other in apex to apex relation, one of said wedges being at the top of the spring member and the other being at the bottom of the spring member.

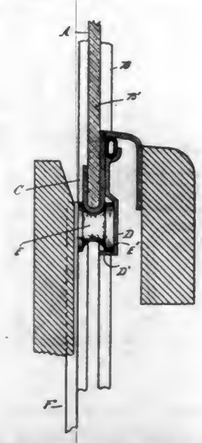
1,667,030. DRAFT GEAR. STERLING H. CAMPBELL, St. Louis, Mo., assignor to Western Railway Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 26, 1925. Serial No. 58,692. 5 Claims. (Cl. 213—61.)



1. In a device of the class described, the combination with a pair of draft sills, of a draft key passing through said sills, a stop plate arranged in the path of said key,

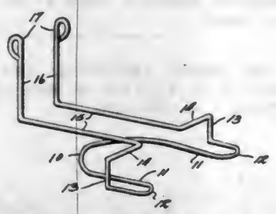
said plate being provided with an opening for the insertion and removal of the key, and a closure piece for said opening.

1,667,031. ROLLER FOR WINDOW-CONTROL MECHANISM. WELLS W. CARROLL and STANLEY W. NICHOLSON, Toledo, Ohio, assignors to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed July 20, 1921, Serial No. 486,279. Renewed July 6, 1925. 4 Claims. (Cl. 268—126.)



1. The combination with a sliding window member and a control arm for actuating said window member, of a shock absorbing element carried by said arm and engaged with said window member to operate the latter from the former.

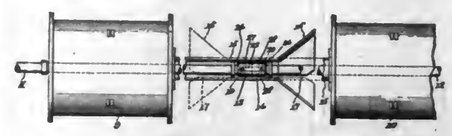
1,667,032. MILK-BOTTLE SUPPORT. CHESTER FRANKLIN and CHRISTINE FRANKLIN, Willard, Ohio. Filed Aug. 17, 1926. Serial No. 129,850. 1 Claim. (Cl. 248—65.)



A milk bottle holder comprising a U-shaped neck embracing portion contracted at its throat, and made of wire, the holder extending laterally from the ends of the U-shaped portion in opposite directions, then extending rearward, then extending upward at right angles to the U-shaped portion and then extending inward beyond the legs of the U-shaped portion, then extending longitudinally rearward beyond the bight end of the U-shaped portion, then extending upwardly and formed with attachment eyes, the inwardly extending portions being disposed in a plane above the U-shaped portion to thus provide means engageable over the top of a milk bottle to prevent upward movement of the milk bottle.

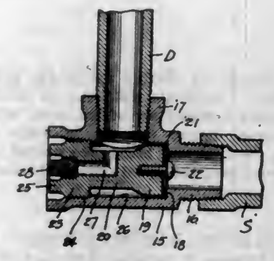
1,667,033. AUTOMATIC TRAIN-PIPE COUPLING. ARTHUR C. HARRELL, Pensacola, Fla. Filed July 6, 1926. Serial No. 120,815. 2 Claims. (Cl. 285—58.)

1. In combination with opposed train line sections having rotary heads, a radial pin on each head, a claw carried by each coupling head and extending beyond the coupling head for engaging the pin on the opposite head, and knuckles on the coupling heads at substantially 90° from said claw, said knuckles having opposed noses with



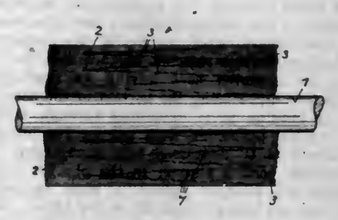
depressions at the bases of the noses for receiving the opposed noses whereby coupling heads may be drawn together and locked against accidental rotation.

1,667,034. SEALING VALVE FOR GAS LINES. HUGH B. HATTON, Jr., Glendale, Calif. Filed Feb. 9, 1927. Serial No. 1,166,981. 5 Claims. (Cl. 251—43.)



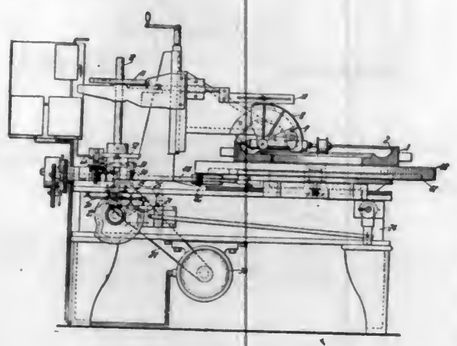
2. A sealing valve for gas lines comprising a T-shaped pipe body including an elongated tubular body, a connecting nipple at one end of the body, and a second connecting nipple between the ends of the body, a valve seat within the valve body adjacent its point of connection with the first nipple, a valve body insertable into the pipe body and including a valve head, and an adjusting head threaded in the pipe body to permit adjustment of the valve head to engage or disengage said seat, a duct in the valve body extending through the adjusting head, and a plug for the duct.

1,667,035. INSULATING TUBE. PETER ADOLF HÜNERMANN, Berlin-Weissensee, Germany, assignor to the Firm Jaroslaw's Erste Glimmerwarenfabrik in Berlin, Berlin-Weissensee, Germany. Filed Sept. 28, 1926, Serial No. 138,245, and in Germany May 14, 1925. 6 Claims. (Cl. 154—2.6.)



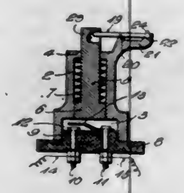
1. Insulating tube consisting of a spirally wound sheet of insulating material and comprising two adjoining sections, each consisting of closely adjoining layers of insulating material, the engaging ends of said sections having the form of concentric rings of conical section.

1,667,036. MOLD-ENGRAVING MACHINE. AUGUSTUS P. JAHANT, Akron, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 3, 1927. Serial No. 172,249. 9 Claims. (Cl. 90—13.4.)



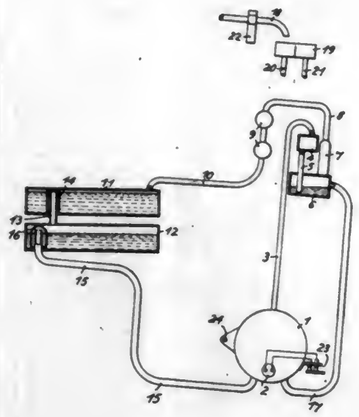
1. In a machine for cutting tire molds with repeated units of design, a rotatable mold and an oscillatory cutter head movable transversely of the mold, and means to rotate the mold during periodic intervals of cutting and spacing, said means being accelerated during the spacing interval over the speed during the cutting intervals.

1,667,037. ELECTRIC CIRCUIT CLOSER. EDUARD M. KYLE and EDWARD F. HURLEY, Lakeport, N. H. Filed Dec. 1, 1924. Serial No. 753,254. 1 Claim. (Cl. 200—142.)



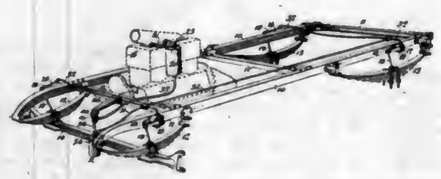
In a circuit-closer, a casing having a plunger chamber, a wall at the top of the plunger chamber having a plunger guide opening, an open-bottom enlargement at the bottom of the casing forming a base chamber, a horizontal arm integral with the top of the casing and provided with a forked fulcrum surface and an abutment surface, an insulated base having an upstanding boss threaded into and closing the bottom of the base chamber, a pair of binding posts extending through said boss, a contact spring connected with one of the binding posts and adapted to be depressed into engagement with the other binding post, a plunger in the plunger chamber for depressing the contact spring, a stem carried by the plunger and extending outwardly at its upper end through the guide opening in the top wall of the casing, said upper end of the plunger having a recess, a spring in the casing for depressing the plunger, and a rocker arm fulcrumed upon the forked fulcrum of the horizontal arm and having its inner end engaging the recess in the plunger stem and its outer end adapted to rest upon the abutment and to be secured thereto by fusible material.

1,667,038. REFRIGERATING SYSTEM. ERICH KINDERMANN, Berlin-Reinickendorf, Germany, assignor to A. Borsig G. m. b. H., Berlin-Tegel, Germany. Filed Mar. 10, 1926, Serial No. 93,685, and in Germany Mar. 10, 1925. 4 Claims. (Cl. 62—5.)



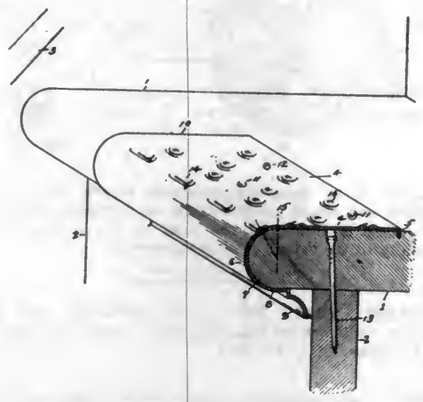
1. Absorption refrigerating machine comprising a generator absorber vessel, an evaporating vessel, and a condenser connected both with said generator absorber vessel and with said evaporating vessel a pipe connecting the said vessels, the whole system being arranged to be tipped automatically about a point below its centre of gravity, in consequence of the passage of liquid from one to the other vessel in the course of operation of the machine and means for causing liquid, which remained over in said evaporating vessel from an evaporating operation, to flow through said pipe into said generator absorber vessel when the system is tipped at the end of the generating period.

1,667,039. SHOCK ABSORBER. EDWARD J. KOLODZIEJ, Buffalo, N. Y. Filed Feb. 26, 1927. Serial No. 171,296. 3 Claims. (Cl. 267—65.)



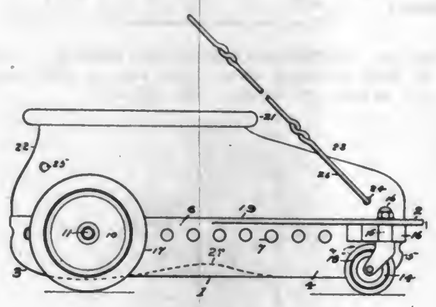
1. A plurality of hydraulic shock absorbers mounted on different parts of a vehicle, a liquid reservoir, and a pump which is actuated by relatively movable parts of the vehicle and whereby liquid is delivered from said reservoir to the several shock absorbers, said pump comprising a cylinder adapted to be mounted on one part of the vehicle, a piston arranged in the cylinder, a rod connected with said piston, a spring for moving the piston in one direction, and a tappet on another part of the vehicle and adapted to engage said rod and move the piston in the opposite direction.

1,667,040. STEP PROTECTOR. DENNIS F. LARKIN, San Francisco, Calif., assignor to The Larkin Specialty Manufacturing Co., San Francisco, Calif., a Corporation of California. Filed Apr. 23, 1925. Serial No. 25,384. 3 Claims. (Cl. 20—79.)



1. A step protector comprising a strip of sheet metal having an edge flanged perpendicularly to and adapted to be countersunk into the step and a bent edge adapted to enclose the step nosing.

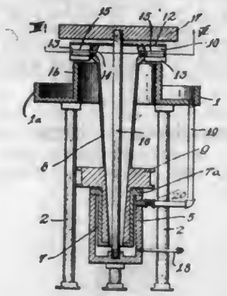
1,667,041. PERAMBULATOR. DENNIS F. LARKIN, San Francisco, Calif. Filed May 5, 1925. Serial No. 28,092. 3 Claims. (Cl. 280—47.)



1. A baby tender comprising an elongated enclosed body with a substantially circular top opening of less diameter than the internal width of said body; rear wheels mounted above the bottom of said body within reach of the occupant of the said body; and a rolling support for the front of said body.

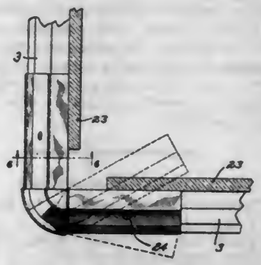
1,667,042. OIL-BURNING APPARATUS. JAMES W. LOGAN, Chicago, Ill., assignor to The Vulcan Oil Burner Corporation, New York, N. Y., a Corporation of Nevada. Filed June 24, 1926. Serial No. 118,138. 5 Claims. (Cl. 158—77.)

1. In a liquid fuel burner, the combination with a combustion chamber, of a centrifugal member including a relatively long conical bore of sufficient divergence to effect fuel elevation at comparatively low speeds, a guide rod



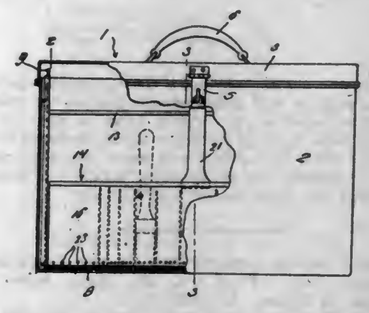
extending through said bore and about which said member is rotatable and fuel projecting means associated with the discharge end of said conical bore.

1,667,043. CORNER CAP FOR SASH STRUCTURES. FRED H. MEYER, Oakland, Calif., assignor to Non-Pressure Glazing Company, San Francisco, Calif., a Corporation of California. Filed Sept. 16, 1925. Serial No. 56,564. 5 Claims. (Cl. 20—56.4.)



1. A corner cap for sash structures comprising sheath members complementary to and overlying the ends of the adjacent sashes, one of said members terminating in a curved socket and the other member terminating in a curved end complementary to said socket and adapted to lie therein with the members at different angular relations.

1,667,044. BRUSH KIT. CHARLES A. ODDO, Buffalo, N. Y. Filed Apr. 15, 1927. Serial No. 184,095. 5 Claims. (Cl. 206—16.)



1. In a kit for brushes, an open top receptacle, a cover therefor, a brush carrying unit vertically slidable in the

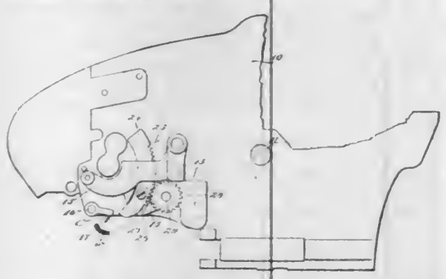
receptacle, a handle associated with the unit for lifting the same upwardly to permit the ready removal of a brush when the cover for the receptacle is opened, said unit comprising a casing including complementary sections hingedly connected together at their lower edges, said sections being automatically separated when the unit is raised upwardly a predetermined distance in the receptacle.

1,667,045. SHAVING-SOAP CAKE AND HOLDER THEREFOR. BLANCHARD OGDEN, San Diego, Calif. Filed Oct. 2, 1923. Serial No. 666,052. 2 Claims. (Cl. 45—28.)



2. A crescent shaped shaving soap holder comprising two mutually adjustable telescoping members having a bolt extending therethrough for clamping the same to the edge of a cake of soap, said members having flanges thereon for penetrating the sides and edge of the soap cake, a downwardly extending handle secured to one of said members, said members provided with confronting grooves adapted to receive ridges on the soap cake, for the purposes specified.

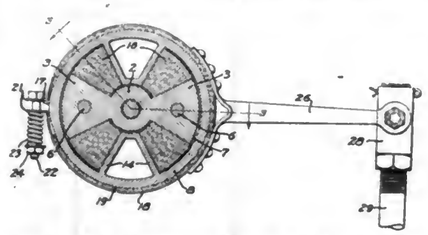
1,667,046. WELT-SEWING MACHINE. JOHN ROGER OLIVER, Medfield, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Oct. 26, 1925. Serial No. 65,014. 13 Claims. (Cl. 112—46.)



1. In a welt sewing machine, a shaft, a needle operated from the shaft, a welt guide member guiding the welt to the shoe or other work, a cutter fitted to move to the welt and sever it, a spring under strain arranged to actuate the cutter to advance and sever the welt, power means for putting the spring under strain, and a latch for holding the parts in set position.

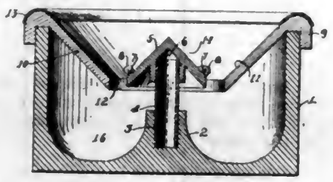
1,667,047. SHOCK ABSORBER. GEORGE A. PEACOCK, Oakland, Calif. Filed Oct. 27, 1926. Serial No. 144,417. 4 Claims. (Cl. 267—9.)

1. A shock absorber for vehicles comprising a hub having arms thereon, a drum mounted for rotary movement about said hub and having arms spaced between the arms of the hub, cushions filling the space between the arms to resiliently resist relative rotary movement between the hub and drum, a band frictionally engaging the drum and



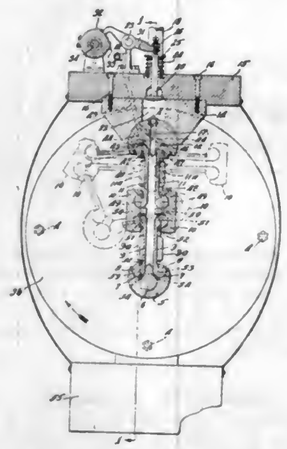
adapted to be mediately connected to the axle of the vehicle, and means for increasing the frictional resistance to rotary movement of the band on the drum proportionally to the extent of such movement.

1,667,048. TRAP. WILLIAM E. RAWLINGS, near San Jose, Calif. Filed Jan. 26, 1927. Serial No. 163,752. 4 Claims. (Cl. 43—64.)



1. A device of the character indicated, comprising a receptacle, an upstanding yieldable element mounted upon the bottom thereof, and a chute extending downwardly into the receptacle to a point adjacent the said yieldable element.

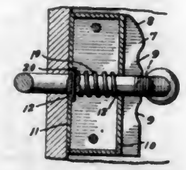
1,667,049. INTERNAL-COMBUSTION ENGINE. JAMES S. REID, Cleveland, Ohio. Filed June 1, 1925. Serial No. 34,098. 12 Claims. (Cl. 123—1.)



3. An internal combustion engine, comprising a relatively fixed member, a movable member, means forming an expansible gas chamber arranged between and having

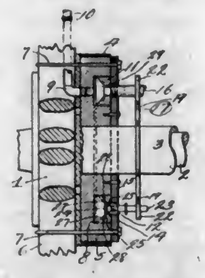
operative connection with said fixed and movable members, said means comprising a plurality of collapsible walls extending between said fixed and movable members, and a sectional fly-wheel upon which the said movable member is mounted, the sections of said fly-wheel supplementing the said collapsible walls as an enclosure for the gas chamber, and means for exploding gases in said chamber so as to cause expansion of the same for operation of said movable member.

1,667,050. SIGNALING DEVICE FOR AUTOMOBILES. ARTHUR F. REMTER, Artois, Calif. Filed May 20, 1927. Serial No. 192,982. 2 Claims. (Cl. 116—52.)



1. In a signal device of the class described, a casing having one of its walls provided with a portion projecting beyond an adjacent wall and formed with a series of notches, a member comprising a portion mounted for rotation in the second mentioned wall of the casing and the wall opposite thereto, and an operating arm and a signal arm extending in opposite directions from the opposite ends of the said portion of the member, the operating arm being angularly adjustable to effect adjustment of the signal arm and being engageable selectively in the notches in the projecting wall portion to be held in its positions of adjustment.

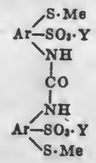
1,667,051. AUTOMOBILE TIRE AIR PUMP. WILLIAM H. RICE, East St. Louis, Ill. Filed Dec. 2, 1924. Serial No. 753,480. 1 Claim. (Cl. 152—11.)



The combination with a rotatable wheel, an air pipe carried by said wheel, a stationary air supply pipe, of means for supplying air from the supply pipe to the wheel carried air pipe during the rotation of the wheel, said means comprising a plate secured to the wheel and rotatable therewith and provided with an annular air chamber, a ring slidably mounted in said air chamber and having an annular channel in the inner side thereof, said air supply pipe discharging into the air chamber through the ring and connected to the ring, an air supply pipe carried by said ring, a yoke clamped to a stationary support, said yoke being provided with bifurcations, a pin carried by said slidable ring, said pin and air supply pipe carried by the ring extending through the bifurcations of the yoke.

1,667,052. PHARMACEUTICAL PRODUCT. WALTER SCHOELLER, ADOLF FELDT, MAX GEHRKE, and ERICH BORGWARDT, Berlin, Germany, assignors to Firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Original application filed May 9, 1925, Serial No. 29,207, and in Germany June 2, 1924. Divided and this application filed June 1, 1926. Serial No. 113,078. 4 Claims. (Cl. 260—11.)

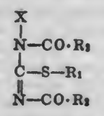
1. As a new product, the derivative of an amino metal benzene compound corresponding to the formula



wherein Ar is a benzene nucleus, Me is a heavy metal, Y is hydrogen or a metal, more especially an alkali metal, such product as an acid dissolving only with difficulty, as an alkali salt readily in water and having a therapeutical effect more especially in cases caused by spirochaetae.

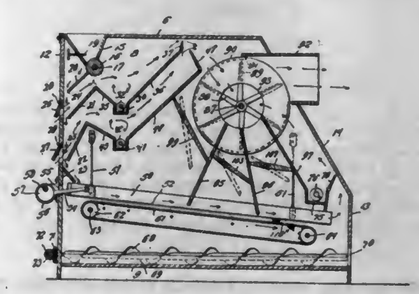
1,667,053. DIACYL ISOTHIOCARBAMIDE ETHER AND METHOD OF PRODUCING SAME. HERBERT SCHOTTE, Berlin-Wilmersdorf, Germany, assignor to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed July 12, 1926, Serial No. 122,043, and in Germany July 16, 1925. 8 Claims. (Cl. 260—125.)

5. As a new product, the diacyl isothiocarbamide ethers having the formula



wherein X is a hydrogen atom or a univalent radical, while R_1 and R_2 may be any univalent radicals either of the same or of a different kind, these ethers being neutral bodies dissolving only with difficulty in water being soluble in most organic solvents and colorless provided that no chromophoric groups are present in the molecule.

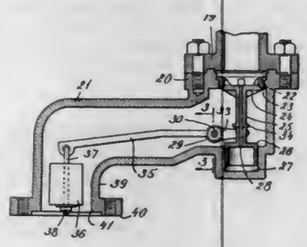
1,667,054. COMBINED PURIFIER AND ASPIRATOR FOR MIDDLINGS. GEORGE W. T. SEIFERT, Cairo, Ill. Filed June 2, 1927. Serial No. 196,004. 1 Claim. (Cl. 209—21.)



In a middlings purifier, a casing comprising a top wall, end walls, side walls, and a bottom longitudinal trough, a sieve longitudinally arranged in the casing immedi-

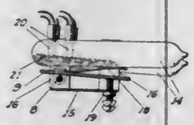
ately above the trough, a feed hopper in the top of the casing adjacent one end wall for the purpose of gravitating material to the sieve, said one end wall being provided with a pair of openings one above the other, means for forming air currentways leading from the openings longitudinally along the top of the casing, conveyor means transversely across said ways, a blower for creating air current in said ways, partitions in the casing rising upwardly from the sieve adjacent the other end of the casing to provide upright airways, the current in said upright airways being created by said current creating means.

1,667,055. PRESSURE STILL. ALFRED JAMES SLOAN, Kansas City, Kans., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Original application filed Sept. 15, 1923, Serial No. 662,797. Divided and this application filed May 18, 1926. Serial No. 109,880. 2 Claims. (Cl. 137—53.)



1. An automatic relief valve comprising casing having inlet and outlet openings, a valve seat in the casing adjacent the inlet opening, a valve head fitting the seat to close the inlet opening, a hollow stem attached to the head, a piston on the stem movable in a chamber communicating with the inlet through the stem and operable by the pressure on the inlet side of the head to force the latter toward the seat, and a weighted arm pivoted within the casing and having one end engaging the stem to force the head toward the seat.

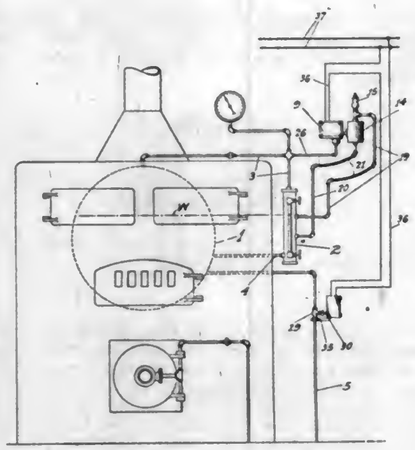
1,667,056. MERCURY-CONTACT SWITCH. IRA E. SMITH, Stockton, Calif. Filed May 4, 1927. Serial No. 188,826. 4 Claims. (Cl. 200—152.)



1. In a switch, a contact-tube supporting structure including a pivoted member, means for tilting the member, a contact-tube to extend longitudinally thereof, supporting means for the tube mounted in connection with the member, and means between said member and supporting means for enabling the angular setting of the tube relative to the member to be altered at will.

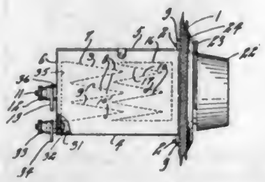
1,667,057. WATER-FEED-CONTROL-SYSTEM FOR BOILERS. IRA E. SMITH, Stockton, Calif. Filed June 20, 1927. Serial No. 199,990. 5 Claims. (Cl. 122—451.)

1. A water-feed control system for a steam boiler including a normally open electric switch, a water feed device controlled by the closing of said switch, a rockable lever, means between the lever and switch for causing the latter to be opened when the lever is tilted in one direction and vice vessa, means acting on said lever tending to tilt it in a switch closing direction, steam released stop means normally preventing the lever from thus being tilted, a vessel supported by the outer end of the lever and tending to tilt the lever in a switch



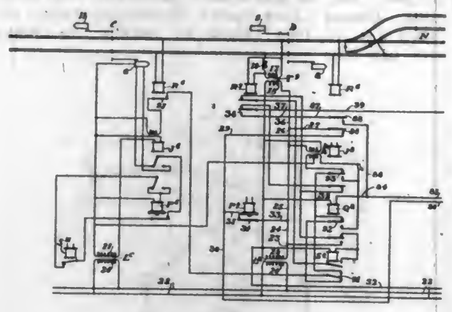
opening direction; the weight of said vessel when empty being insufficient to overcome said first named tilting means but causing said first named means to be overcome when the vessel is full of water, means causing said vessel to be filled with water when the water in the boiler is at a predetermined level, and means causing the vessel to be emptied of such water when the water in the boiler drops below such level.

1,667,058. CONDENSER. SAMUEL HAROLD SMITH, Rocky River, Ohio. Filed Jan. 16, 1925. Serial No. 2,785. 2 Claims. (Cl. 175—41.5.)



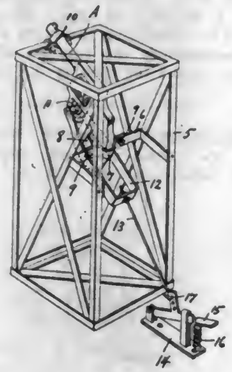
1. An electric condenser comprising opposing series of interfitting wedge faces, insulation guide means protruding from one series and through the other series, rotatable adjusting means for propelling one series on said guide means toward the other, a housing for the members, castor oil in said housing extending between said faces, a terminal for one series of faces connected through the adjusting means and mounted on said housing, a terminal for the other series directly mounted on said other member, and a packing for the adjusting means as passing into the housing.

1,667,059. RAILWAY SIGNALING. LESTER E. SPRAY, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1926. Serial No. 144,935. 6 Claims. (Cl. 246—33.)



4. In combination, a stretch of railway track comprising a first, a second, and a third section, a stick relay, a signal for the third section controlled by said stick relay, and means for energizing the stick relay when a train moves from the second section into the first section.

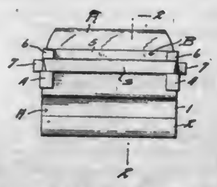
1,667,060. FIREARM-HOLDING AND TRIGGER-ACTUATING DEVICE. ALPHA PRENTIST STARK, Pampa, Tex. Filed Dec. 27, 1926. Serial No. 157,190. 8 Claims. (Cl. 89—1.)



1. In a device of the class described, a frame, a substantially U-shaped bracket secured on the frame, the crown portion of the bracket being shaped to receive the butt of a revolver, a complementary clamp for rigidly securing the butt on said bracket, an additional clamp for securing the barrel on the front of the frame, and remotely operable means for actuating the trigger of the revolver.

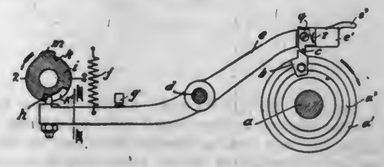
1,667,061. BLADE HOLDER. CLARENCE E. STRICKLAND, Atlantic City, N. J. Filed Apr. 5, 1927. Serial No. 181,080. 4 Claims. (Cl. 30—25.)

2. A holder for a razor blade comprising two members, one of said members constituting two overlying plates, the rear marginal portions of said plates being resiliently connected, the forward marginal portions of said plates being spaced apart, arms connecting the outer portions of said plates for positively maintaining such portions of the plates separated, a blade carrying member insertable between the plates of the first member, said blade carrying member having outstanding lugs coacting



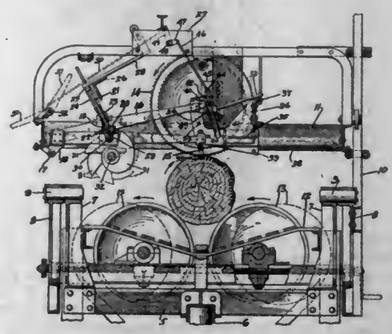
with the first named member for limiting the extent of insertion of the blade carrying member inwardly of the first named member.

1,667,062. AUTOMATIC CONTROL MECHANISM. KARL TESSKY, Esslingen-on-the-Neckar, Germany. Filed Feb. 4, 1926, Serial No. 85,057, and in Germany Feb. 21, 1925. 2 Claims. (Cl. 29—64.)



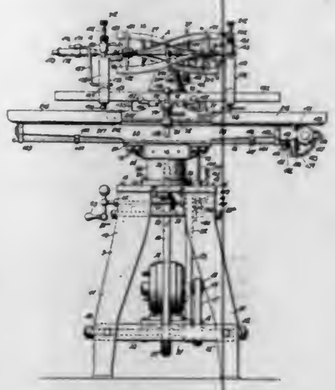
1. An automatic control mechanism comprising a driving shaft, a clutch on said driving shaft, a control shaft, a tappet on said control shaft, means adapted to be actuated by said tappet to operate said clutch, an adjustable pawl pivotally carried on said clutch-operating means, a projection on said pawl adapted to cooperate with said tappet, two contact faces on said pawl extending at an angle to each other, and a spring plunger slidably carried on said clutch-operating means and adapted to alternately engage said contact faces.

1,667,063. POLE-PUNCTURING MACHINE. ROBERT D. VALENTINE, Minneapolis, Minn., assignor, by mesne assignments, to National Pole & Treating Company, Minneapolis, Minn., a Corporation of Delaware. Original application filed June 4, 1923, Serial No. 643,256. Divided and this application filed June 3, 1926. Serial No. 113,483. 14 Claims. (Cl. 144—2.)



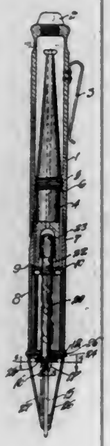
1. In a pole puncturing machine, means for supporting the end of the pole to be punctured, a puncture tool above the pole having means for engaging and rotating the pole on its support, and means for puncturing the surface of the pole during such rotation.

1,667,064. GRINDING MACHINE. HENRY YERKEY, Viola, Ill. Filed Nov. 21, 1925. Serial No. 70,517. 8 Claims. (Cl. 51—95.)



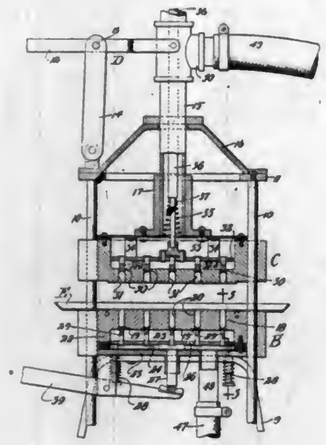
8. A machine for grinding an article having spaced spiral blades such as a lawn mower reel, comprising a device for turning the reel in opposite directions as the reel reverses its reciprocatory travel relatively to a tool, a plate having cam edges leading to an apex along which each blade individually is adapted to travel, escapement stops located one on each side of said apex and engageable by each blade as it moves off of said apex onto said edges, and an auxiliary escapement stop engageable by the blades and superposed on one of the first-mentioned stops.

1,667,065. CIGARETTE-HOLDER CASE. EDWARD E. BROSIUS, Spokane, Wash. Filed Apr. 19, 1926. Serial No. 102,908. 2 Claims. (Cl. 131—10.)



1. A device of the class described, comprising a case, a cigarette holder engaged therein, a barrel engaged with the case, a tube mounted in the barrel, a cap of absorbent material carried by the tube for engaging the socket of the holder when the case and barrel are interlocked with each other, as and far the purpose set forth.

1,667,066. ART OF HANDLING CAPSULES FOR FILLING. GEORGE LANCE BROWN, Huntingdon Valley, Pa. Filed Apr. 17, 1926. Serial No. 102,613. 10 Claims. (Cl. 226—41.)



1. A capsule filling device comprising in combination, a holder for a plurality of empty assembled capsules, suction means for separating the parts of the capsules, means for reassembling the capsules after they have been filled, and means for ejecting the filled capsules.

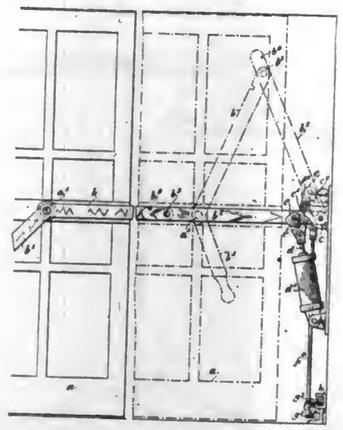
1,667,067. MOISTENING DEVICE. FRANK CHESLEY, Louisville, Ky. Filed Aug. 29, 1927. Serial No. 216,067. 6 Claims. (Cl. 15—133.)



1. A moistening device adapted to be attached to a finger, comprising, a ring, a body portion integral therewith, said body forming a well, and a wick extending from the well, said wick having its outer end overlying the outer face of the ring.

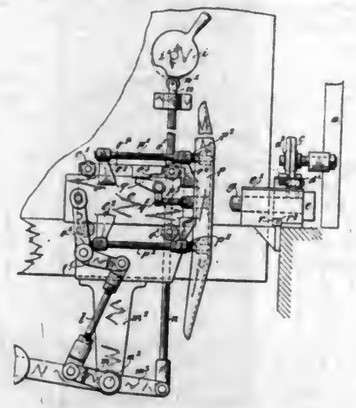
1,667,068. ELEVATOR. JOHN DARBY, Philadelphia, Pa., and CLAYTON W. OLD, Montclair, N. J., assignors, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J., a Corporation of New Jersey. Filed Apr. 30, 1926. Serial No. 105,742. 3 Claims. (Cl. 187—49.)

3. In an elevator, the combination of a shaft-door, a car, a control element for the car, a lock for the control element, a toggle lever system to operate the door, a lever carried by one of the toggle elements, a fixed control plate for cooperation with said lever in the movement of the toggle member, a shoe mounted movably on the car and operatively connected with the lock, a plunger mounted



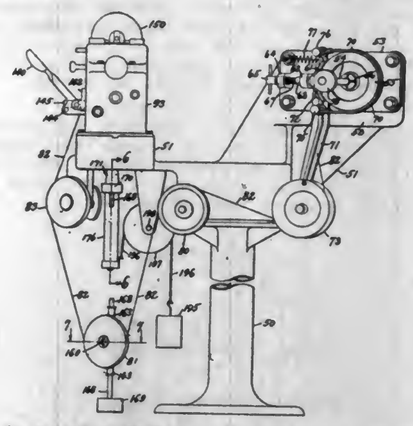
on the shaft-way for cooperation with the shoe, and intermediate devices whereby the plunger is moved by the movement of said lever.

1,667,069. ELEVATOR. JOHN DARBY, Summit, N. J., assignor, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J., a Corporation of New Jersey. Filed Oct. 5, 1926, Serial No. 139,603. Renewed Sept. 30, 1927. 11 Claims. (Cl. 187—49.)



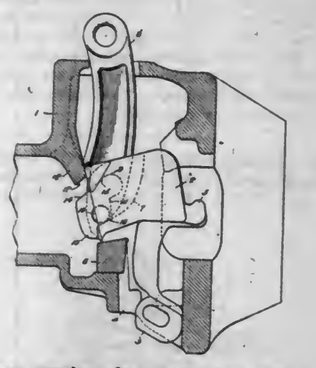
10. In an elevator, the combination of a car, a movable door, a notched controller on the car, a locking rod, means to press the locking rod into the notch of said controller, a sliding block operatively connected with the locking rod and movable therewith, a dog carried by the block and adapted to engage a stop when the locking rod is in the notch of said controller and prevent movement of the block and of the locking rod, and means actuated by the opening movement of the door to actuate the dog to engage the stop and prevent movement of the block and of the locking rod, such means including a shoe mounted movably on the block for coaction with the dog to move it to locking position.

1,667,070. ARMATURE-WINDING MACHINE. RUSSELL G. JONES, London, England, and CARL ZWIEBEL, Dayton, Ohio, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Original application filed Jan. 23, 1925, Serial No. 4,342. Divided and this application filed Apr. 11, 1927. Serial No. 183,019. 14 Claims. (Cl. 242—13.)



1. An armature winding machine comprising, in combination, a device for winding wire from a supply reel upon an armature core, means for guiding the wire from the reel to the device and including a movable member for maintaining a loop in the wire between the reel and the device during the winding operation, and means for controlling the movable member so that a substantial amount of wire may be pulled toward the winding device when desired without unreeling a substantial amount of wire from the reel.

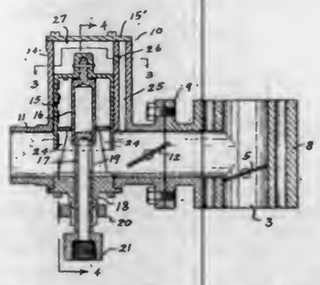
1,667,071. CAR COUPLER. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 27, 1925. Serial No. 26,131. 4 Claims. (Cl. 213—127.)



1. In a car coupler, the combination with a coupler head, knuckle, a knuckle opening lever, and a vertically movable lock for said knuckle adapted to swing rearwardly so as to engage and actuate said knuckle opening lever, of a lifter for actuating said lock, said head being provided rearwardly of said lock with a projection having an inclined face adapted to engage the lower end of said lifter to prevent accidental unlocking or said lock, said lifter being provided with oppositely extending trunnions and its lower end being adapted to stand beneath said projection when said lock and lifter are in normal locked relation, said lock being provided at its upper end

with an upwardly and rearwardly opening slot whose side walls are formed with recesses to receive said trunnions, the upper walls of said recesses when the lock is in normal locked position being more steeply inclined than said inclined face of said projection, said lifter being slidably and rotatably movable in said slot and being adapted when performing an unlocking operation to execute a preliminary movement with respect to said lock causing the lower end of said lifter to be withdrawn from beneath said projection, and the lower end of said lifter being adapted to engage and slide upon said projection during said preliminary movement while said trunnions are out of contact with the upper walls of said recesses.

1,667,072. PROPORTIONAL GAS AND AIR MIXING DEVICE. JOHN L. KLUPPEL, Houston, Tex., assignor to Portable Rotary Rig Company, Houston, Tex., a Corporation of Texas. Filed July 24, 1926. Serial No. 124,588. 6 Claims. (Cl. 48—180.)

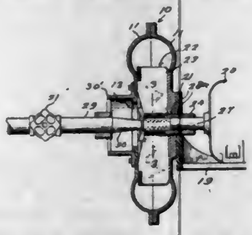


1. A mixing device including a fuel mixture intake conduit, a cylindrical member carried by said conduit and closed at its outer end, a plunger in said cylindrical member adapted to control the flow of air through said conduit, a nipple having a longitudinal discharge opening through the wall thereof into said conduit, and a sleeve valve fitted over the nipple and movable with said plunger and controlling said opening, there being a by pass connecting the conduit with said cylindrical member above the outer end of said plunger.

1,667,073. GLUE AND PROCESS OF MAKING SAME. PAUL KREISMANN, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,193. 3 Claims. (Cl. 87—17.)

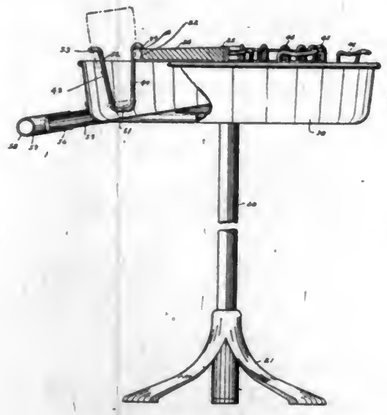
1. The process of making vegetable glue which consists in mixing potato starch, clay, water and an alkali, and subjecting the mixture to heat until the mixture is rendered semi-fluid by conversion.

1,667,074. CHARGE-FORMING DEVICE. ALBERT BREAKENRIDGE KNIGHT, Fairmont, W. Va. Filed May 7, 1927. Serial No. 189,677. 3 Claims. (Cl. 48—187.)



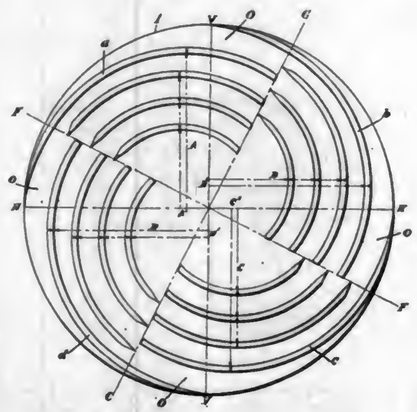
1. A device of the character described comprising a blower casing having an air inlet opening, a centrifugal blower including a plurality of blades mounted in said casing, said blower being provided with a hollow hub having openings therethrough, and a pipe having its outlet end arranged adjacent said hub and adapted to deliver gas to the interior of said hub.

1,667,075. MILK-BOTTLE-DRAINING DEVICE. ADOLPH J. LIPPOLD, Milwaukee, Wis., assignor to Milwaukee Dairy Supply Mfg. Co., Milwaukee, Wis. Filed Jan. 25, 1923. Serial No. 614,790. 5 Claims. (Cl. 221—69.)



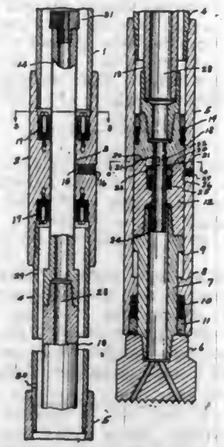
1. A bottle draining device including a pedestal having a tubular shaft, a plug within said shaft, a transverse pin extending through said plug and outwardly through said shaft, a rotor provided with a stub shaft rotatable within said tubular shaft in supported relation to said plug, a supporting casting exterior to said tubular shaft and notched to receive said transverse pin, an annular receptacle mounted upon said casting beneath said rotor, and means carried by said rotor for supporting bottles in an inverted position.

1,667,076. POLISHING WHEEL. DANIEL FREDERICK MCGOVERN, Montpelier, Vt. Filed Oct. 16, 1925. Serial No. 62,868. 2 Claims. (Cl. 51—209.)



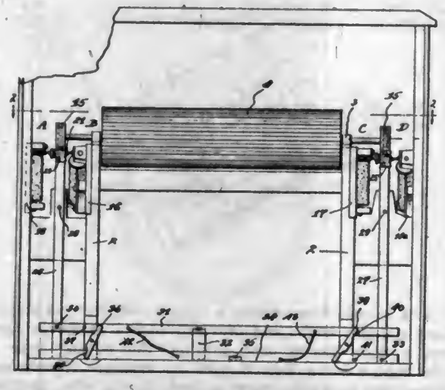
1. A polishing wheel comprising a plate having on its working face a plurality of sets of arcuate flanges disposed in symmetrically arranged groups lying between intersecting diameters of the plate, each flange set being centered on a diameter intersecting that of the preceding flange set, the leading ends of the outermost flanges of a pair of substantially oppositely disposed flange sets starting at substantially the horizontal or vertical median line of the plate and in advance of the tail ends of the flanges of the next preceding flange set.

1,667,077. DRILL. HARVEY MECOM, Liberty, Tex. Filed Aug. 9, 1926. Serial No. 128,175. 8 Claims. (Cl. 255—61.)



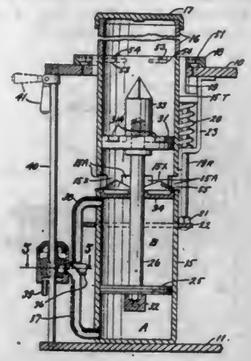
1. A drill including a rotatable stem, a coupling attached to the lower end of the stem and having a polygonal opening therethrough, a barrel connected to the lower end of said coupling, a tubular drill collar connected to the lower end of the barrel, a drilling tool embodying a bit and a separabe tubuar shank which extends up into said collar and is rotatable indepedently thereof, said collar and shank having interengaging shoulders to prevent the detachment of the drilling tool from the collar, a head connected to the upper end of said shank and fitting within said collar, a tubular hammer within the barrel whose upper end is polygonal and fits through the opening of said coupling, an enlarged detachable head carried by the lower end of the hammer which fits closely within the drill collar and forms a fluid tight joint therewith, the lower end of the hammer head and the upper end of the shank head having oppositely disposed correspondingly inclined faces which terminate in oppositely arranged abrupt vertically disposed shoulders, a tubing whose upper end is threaded into the lower end of the hammer and whose lower end works through the head of said shank.

1,667,078. TOY PIANO AND METHOD OF OPERATING SAME. GEORGE M. PATTEN, Detroit, Mich. Filed Apr. 19, 1926. Serial No. 102,955. 9 Claims. (Cl. 84—95.)



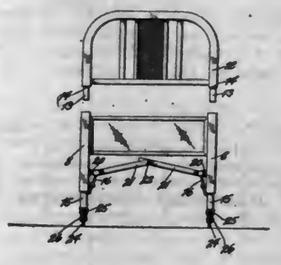
1. A toy piano, comprising in combination, a keyboard, means for transmitting the oscillatory motion of the keys into a rotary motion, a pair of music boxes adapted to be actuated by said rotary movement, a single pinion and gear for actuating both of said music boxes, and means for effecting actuation of either of said music boxes by said single pinion.

1,667,079. CORE-MAKING MACHINE. FRANK PIETRUSIAK, St. Paul, Minn. Filed May 20, 1927. Serial No. 192,844. 1 Claim. (Cl. 22—10.)



A core making machine comprising an upright fixed cylinder member mounted in suitable framework, a piston reciprocable in said cylinder and a piston rod extending downwardly from said piston, a molding cylinder adapted to be removably fixed concentrically on the upper end of said fixed cylinder, said fixed cylinder adapted to be filled with core sand on top of the piston when the latter is in lowered position, said molding cylinder being shorter than the distance from the lowest position of the piston to the top of the fixed cylinder, means for moving said piston upwardly to the top of said fixed cylinder to compress the core sand in the molding cylinder, and a core retaining device mounted at the upper end of the fixed cylinder comprising a series of circularly arranged inwardly directed and curved cam arms, an oscillatable ring about said cylinder, said cams fulcrumed on said ring, said upper end of the fixed cylinder provided with apertures slidably engaged each by one of said cam arms, means for oscillating said movable ring to move said cam arms inwardly to support the lower part of the sand core pressed into the molding cylinder.

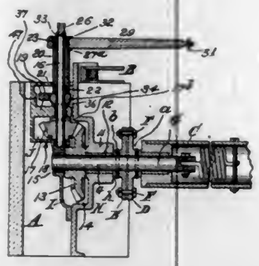
1,667,080. MORTUARY BED. MAXWELL B. RAMSEY, St. Louis, Mo. Filed Feb. 12, 1927. Serial No. 167,646. 3 Claims. (Cl. 5—11.)



1. A bed comprising an approximately horizontal frame, a pair of uprights supporting each end of said frame, an element telescoping in the lower end of each of said

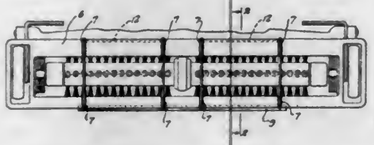
uprights, latches pivoted on said uprights for holding said elements in different adjustments, a rod extending inwardly from each of said uprights adjacent to said latches, springs for actuating said latches into latching engagement with said elements, and a pair of levers having their outer ends supported by said rods and engaging said latches and having their inner ends pivotally connected and being operative to release said levers from said elements.

1,667,081. METALLIC ROLLING SHUTTER. JOSEPH C. RAPER, Covington, Ky. Filed Nov. 4, 1926. Serial No. 146,271. 2 Claims. (Cl. 189—58.)



1. In a device of the character described, the combination with a spring-wound shutter-roller having a longitudinally-aligned central axis or shaft, a release-mechanism box or receptacle in which said shaft is journaled, a transverse auxiliary shaft having miter gear connection with said roller shaft in said receptacle, a ratchet wheel mounted to turn with said auxiliary shaft, in said receptacle, a rock sleeve concentrically mounted on the said auxiliary shaft and extending beyond the said receptacle, a strike-arm at the inner end of said rock sleeve and vertically below the said ratchet wheel, a swinging or gravitating pawl mounted on a shaft that lies parallel to said auxiliary shaft in the receptacle and with said pawl suspended in alignment with said strike-arm, a weighted arm extending from the outer end of said rock-sleeve and adapted to more positively or effectively hold a notched or shouldered part of said pawl in engagement with the respective teeth of said ratchet-wheel as well as to impart striking-heft adapted to cause said strike-arm to impart a quick and decisive blow to said pawl when the release mechanism herein has been brought into action, and a thermostatic frangible chain extending from the outer end of said weighted arm to a roller door or shutter mounting for automatic parting action when dangerous fire heat conditions occur in the opening that is to be closed and protected by said door, substantially as shown and described.

1,667,082. BRUSH GUARD. PATRICK H. ROBINSON, Racine, Wis., assignor to Hamilton Beach Mfg. Co., Racine, Mich., a Corporation of Wisconsin. Filed Sept. 13, 1926. Serial No. 135,120. 2 Claims. (Cl. 15—157.)

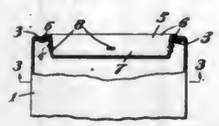


1. The combination with a vacuum cleaner casing provided with a downwardly opening elongated suction nozzle formed with lower front and rear longitudinally extending ribs and with transverse recesses in its front and rear lower edges, of a removble brush guard therefor comprising a rod and a plurality of U-shaped members having their end portions attached thereto, the said guard extending around and engaging the outer front and rear portions of said ribs and extending through said recesses, the recesses being of such depth that the U-shaped members of the brush guard will lie flush with the lower edge surfaces of the suction nozzle.

1,667,083. GELATIN-DYNAMITE EXPLOSIVE. ROSCOE B. SMITH, Kenvil, N. J., and ERNEST M. SYMMES, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 27, 1926. Serial No. 151,243. 1 Claim. (Cl. 52—11.)

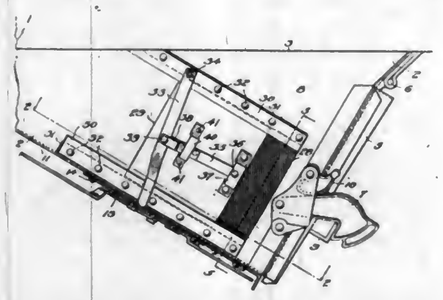
A low strength dynamite explosive comprising the below specified ingredients each within the proportion range specified, namely, nitroglycerin, 17–18 per cent; dinitrotoluol, 2–4 per cent; nitrocotton, .1–.2 per cent; sodium nitrate, 60–65 per cent; sulphur, 9–12 per cent; starch 2–5 per cent; and a small proportion of chalk.

1,667,084. CLOSURE. DAVID STERN, Dorchester, Mass. Filed July 21, 1926. Serial No. 123,874. 4 Claims. (Cl. 220—60.)



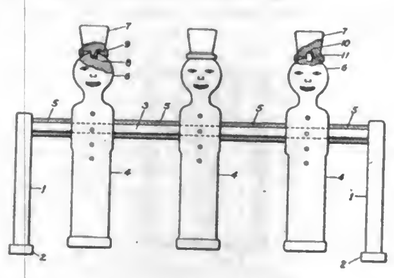
1. In combination with a can having a depending resilient lip outwardly turned at its lower edge within its mouth, a cup shaped closure therefor comprising a bottom portion and a side wall having an outwardly disposed lip engaging portion disposed for engagement with the edge of the lip of the container mouth when the closure is in seated position.

1,667,085. BALLAST CAR. BERNARD W. STRAW, Mount Airy, Md., assignor to Straw Ballast Distributor Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 14, 1927. Serial No. 175,339. 16 Claims. (Cl. 105—249.)



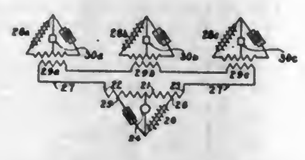
1. A vehicle formed with a hopper comprising a sloping floor and side walls, and provided with a discharge opening, a door closing said opening, the sloping floor of said hopper being formed with an aperture therein and means for gradually opening and closing said aperture while the vehicle is loaded for distributing material therefrom.

1,667,086. GAME TOY. JOHN F. STROMBECK, Moline, Ill. Filed Jan. 21, 1928. Serial No. 248,298. 1 Claim. (Cl. 273—127.)



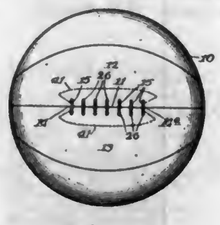
A game toy comprising a pivot rod, supports for the rod, a figure mounted to swing on the rod and having a head, a hat piece fitting on the head, and a dowel and pin connection between the hat piece and head.

1,667,087. SYSTEM OF ELECTRICAL TRANSMISSION AND TRANSFORMATION. PERCY H. THOMAS, Upper Montclair, N. J. Filed Aug. 7, 1925. Serial No. 48,795. 12 Claims. (Cl. 171—97.)



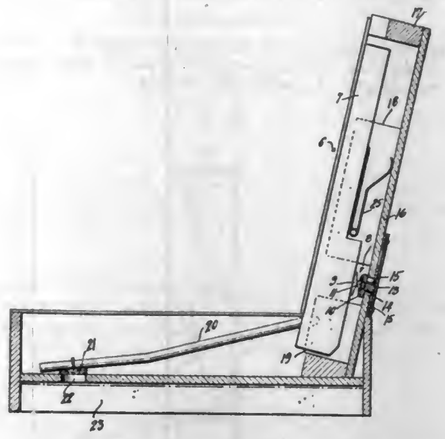
1. A network consisting of a reactance, a condenser and a transformer winding connected in a loop, in combination with a circuit connected across said loop and means for compounding the voltage in said circuit, said means consisting of connections between said circuit and an intermediate point of said winding to one side of the mid-point.

1,667,088. INFLATABLE BALL. ARCHIBALD J. TURNER, Chicago, Ill., assignor to Wilson-Western Sporting Goods Co., Chicago, Ill., a Corporation of Delaware. Filed Mar. 19, 1927. Serial No. 176,604. 16 Claims. (Cl. 273—65.)



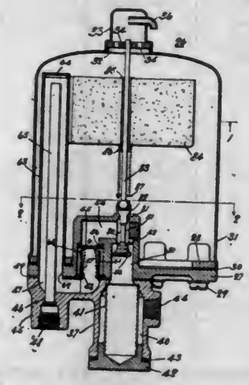
1. A ball comprising an outer casing having an entrance slit, and a lacing for said slit disposed flush with the outer surface of said casing in grooves comprising bends in said casing.

1,667,089. ACCORDION KEYBOARD. FRANK UMBRIACO, New York, N. Y. Filed Mar. 1, 1927. Serial No. 171,786. 6 Claims. (Cl. 84—376.)



5. In an accordion keyboard provided with a casing, a plurality of keys, a member on each of the keys intermediate their ends, a complementary member for each of the first mentioned members forming snap joint fulcrums therebetween, and means for securing the second mentioned members to the casing.

1,667,090. FUEL-SUPPLY DEVICE. HUGH WALLACE, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 3, 1925. Serial No. 47,676. 4 Claims. (Cl. 103—40.)



3. A fuel supply device comprising in combination, a tank having one closed end; a base attached to the open end of said tank and providing a bottom therefor, said base having a housing portion extending into the tank, the housing portion being provided with inlet and outlet passages; check valves in said passages; a tube extending within the tank and having a closed end adjacent the closed end of the tank and an open end communicating with an aperture in the base; a housing member secured to said base, said member having a passage communicating with one of the passages in the base and a second passage providing communication between both passages in the base and the aperture which communi-

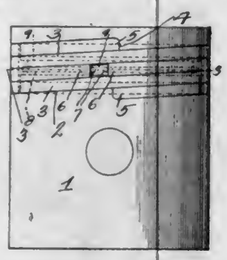
cates with the tube; and a pipe extending through and secured to the housing member, said pipe extending into the tube and terminating adjacent the closed end thereof when the said member is attached to the base.

1,667,091. BULLETIN BOARD. FREDERICK S. WOLSTENHOLME, Richmond, Va. Filed Jan. 3, 1927. Serial No. 158,670. 8 Claims. (Cl. 40—64.)



1. A device of the character described comprising a board having an opening therein, a pair of supports fixed with respect to and having faces inclined downwardly toward said board and arranged adjacent opposite ends of said opening, and a sign plate adapted to be arranged against one face of said board to be visible through said opening, each end of said plate being provided with a projecting lip engaging one of said inclined faces.

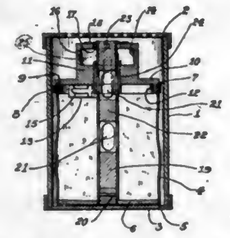
1,667,092. PISTON AND ROD PACKING. JAMES LEO AHERN and LETCHER GILBERT LEDGER, New Orleans, La. Filed Mar. 30, 1927. Serial No. 179,509. 4 Claims. (Cl. 74—109.)



3. The combination with a piston packing comprising helically shaped expansible rings disposed in a piston groove, of an expansible ring in the bottom of the groove, said expansible ring having outwardly extending arms engaging the ends of the inner convolutions of the rings.

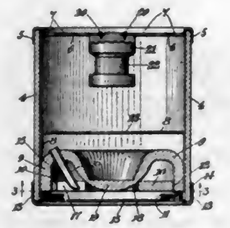
1,667,093. TALKING-TOY MECHANISM. LOUIS V. ARONSON, Newark, N. J., assignor to Voices Incorporated, a Corporation of Delaware. Filed Mar. 22, 1923. Serial No. 626,757. 3 Claims. (Cl. 46—46.)

3. A sound producing device having a bellows, a sound chamber, a reed operated by the bellows and arranged so that the sound from the reed passes into the sound chamber, said sound chamber having a port through which the sound issues therefrom to the outside and a valve member extending through said port to control the issuance of sound therefrom, said valve member comprising a hollow tubular member with a plurality of plugs therein, said plugs being spaced apart to provide a plurality of spaces therebetween and the tubular member being provided with apertures opposite said spaces, said



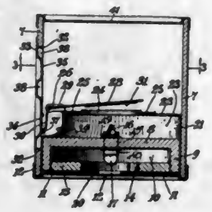
apertures being positioned to register with said sound chamber port when the bellows is operated and each aperture being of a length to permit the sound to pass therethrough and through said port from the sound chamber to the outside when the aperture registers with said port.

1,667,094. SOUND DEVICE. LOUIS V. ARONSON, Newark, N. J., assignor to Voices Incorporated, a Corporation of Delaware. Filed Feb. 7, 1924. Serial No. 691,103. 9 Claims. (Cl. 46—46.)



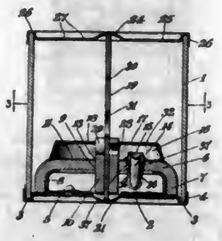
8. A sound device comprising a tubular container closed at one end, a sound chamber slidable back and forth in the container, sounding means operatively associated with the sound chamber to produce sound therein, said sound chamber having an opening in one side thereof, and a control member secured with respect to the opposite end of the container and adapted to slide in and out of said opening, the opposite side of the sound chamber being imperforate to said control member.

1,667,095. SOUND DEVICE. LOUIS V. ARONSON, Newark, N. J., assignor to Voices Incorporated, a Corporation of Delaware. Filed Mar. 6, 1924. Serial No. 697,216. 19 Claims. (Cl. 46—46.)



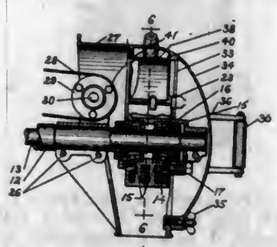
9. A sound device having in combination a tubular casing closed at one end, a plunger adapted to slide back and forth in the casing, a tubular bellows member, one end of which is secured to the plunger and the other end of which is secured to the casing, a reed pipe carried by the plunger, a pivoted flap valve carried by the plunger and adapted to control the sounding of said reed pipe, said flap valve having an arm extending therefrom toward the bellows end of the casing and adjacent the wall of the casing and a cam member on the wall of the casing adapted to engage said arm to operate the valve as the plunger slides in the casing.

1,667,096. SOUND DEVICE. LOUIS V. ARONSON, Newark, N. J., assignor to Voices Incorporated, a Corporation of Delaware. Filed Mar. 31, 1924, Serial No. 703,037, and in Canada Mar. 21, 1924. 7 Claims. (Cl. 46—46.)



7. A sounding device having a collapsible air chamber with a weighty head movable by gravity to collapse said chamber, a guide member for the weighty head and along which the weighty head is adapted to slide, said guide member extending through the weighty head, said weighty head having surfaces of lead where it engages the guide member whereby the weighty head slides easily on the guide member, and sounding means operated by the movement of said weighty head.

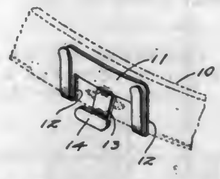
1,667,097. MACHINE FOR FILLING MOLDS. ELMER O. BEARDSLEY and WALTER F. PIPER, Chicago, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1924. Serial No. 695,705. 12 Claims. (Cl. 22—36.)



1. In a projector for filling flasks, the combination of a casing provided with an arcuate, cylindrical portion and a rotor having open sides and a projecting member in coactive relation with said portion, and provided with means rigid therewith at both sides for confining the sand therebetween, said means being substantially spaced from the casing.

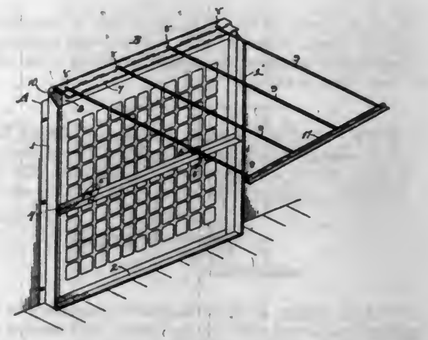
1,667,098. COLLAR BUTTON. OVILA J. BERGERON, Manchester, N. H. Filed Aug. 24, 1927. Serial No. 215,180. 1 Claim. (Cl. 24—101.)

As an article of manufacture, a collar-button comprising a bar having a tongue extending from one of the longer edges of the bar at an angle to the plane of the bar, and elongated tongues extending from the opposite ends of said edge of the bar and being doubled inter-



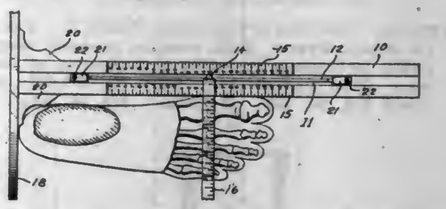
mediate their lengths to extend transversely of the end portions of said bar, the doubled portions of said tongues extending beyond the said edge of the bar.

1,667,099. SIDE-WALL-REGISTER RACK. JAMES M. BREITENBACH, Battle Creek, Mich. Filed July 26, 1927. Serial No. 208,502. 4 Claims. (Cl. 34—26.)



1. In a device of the nature set forth, in combination with a side wall register having an open lattice, a portable frame adapted to lie against said register, adjustably arranged hooks carried by said frame and adapted to engage with the lattice of said register, a rack slidably mounted in a top piece of said frame and capable of being horizontally extended and held in an operative position.

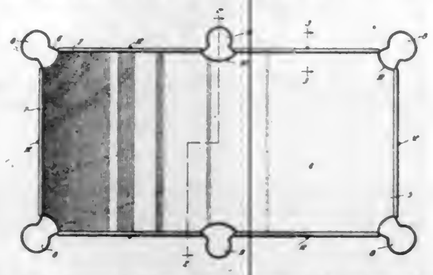
1,667,100. FOOT-MEASURING APPARATUS. CHARLES H. BROWN, Flushing, N. Y. Filed Aug. 3, 1925. Serial No. 47,706. 1 Claim. (Cl. 33—3.)



An apparatus as characterized having a base board laterally extended for engaging the heels of both feet of a customer at the same time; an elongated rule mounted midway thereon in perpendicular disposition thereto, said rule having a longitudinally disposed groove and calibrated edges at the opposite sides of said groove, the calibrations being disposed to assist in locating the position of the structural features of both right and left feet at approximately the same time, and particularly of the joints of the great toes thereof; a slidable index mounted in said groove and having pointing members

for registering with the calibrations on said edges; and a flexible measuring member mounted in said index adapted for measuring the width of the feet at opposite sides of said rule without moving said rule.

1,667,101. AMUSEMENT DEVICE. EDWARD A. CHRISTOPH, Chicago, Ill. Filed Aug. 1, 1927. Serial No. 209,695. 4 Claims. (Cl. 273—12.)



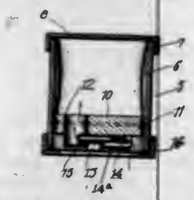
1. In a device of the class described, a one-piece rectangular frame looped at intervals to form pockets, and rubber tubing covering the straight portions of said frame between said pockets.

1,667,102. HINGE. BASIL R. CRAMPTON, Grand Rapids, Mich., assignor to Winters, Stryker & Crampton, Grand Rapids, Mich., a Corporation of Michigan. Filed Feb. 16, 1925. Serial No. 9,436. 2 Claims. (Cl. 16—135.)



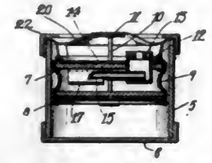
1. In a hinge, a hinge member comprising a plate formed at one end with an outwardly bent section which is turned back upon itself in a second section located a distance outward from the first section and terminating in a pintle receiving roll, a second hinge member formed as a substantially flat plate and having an inturned flange at its sides and one end, said flange at each side and adjacent the opposite end of the plate being widened to form ears adapted to pass one at each end of the roll, and a pintle passing through said ears and roll for pivotally connecting the hinge members together, said plate of the second hinge member at the end thereof where said ears are located being formed with an inturned curved extension located over and covering the outer portion of said roll, substantially as described.

1,667,103. SOUND-REPRODUCING DEVICE. MATTEO DE CESARE, Newark, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed Mar. 21, 1923, Serial No. 626,615. Renewed Feb. 26, 1926. 6 Claims. (Cl. 46—46.)



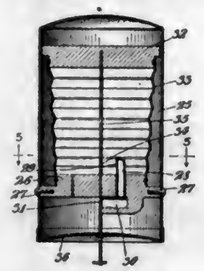
3. A sounding device having in combination a cylindrical casing having two heads therein, one fixed with respect to the casing and the other a weighty head movable back and forth in the casing toward and from the fixed head by gravity, and freely tiltable in all directions in the casing, a tubular bellows connecting said heads whereby the bellows will be compressed when the movable head moves toward the fixed head and distended when the movable head moves away from the fixed head, and a reed pipe carried by one of said heads, said reed pipe being arranged so that it will be operated by air passing into the bellows and will sound when the bellows is expanded.

1,667,104. SOUND-PRODUCING DEVICE. MATTEO DE CESARE, Newark, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,573. 2 Claims. (Cl. 46—46.



1. A sound producing device having a tubular bellows of elastic material, a relatively fixed head closing one end of the bellows, a relatively movable head closing the other end of the bellows, means for expanding the bellows by moving the movable head away from the fixed head and stretching the material of the bellows whereby the bellows will collapse due to the elasticity of the material of the bellows, said means including a manually operated push rod secured to the movable head and extending through the bellows and fixed head for extending the bellows, and a sound reed adapted to be operated by the bellows.

1,667,105. VOICE MECHANISM. FRED EVANS, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed Nov. 23, 1922. Serial No. 602,705. 4 Claims. (Cl. 46—46.)

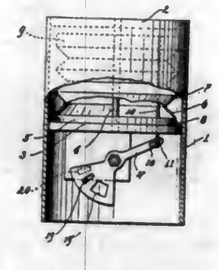


1. A sound device having in combination a cylindrical casing, a head fixed therein, a weighty head movable by gravity therein to form a compressible air chamber between said heads, a reed pipe carried by the fixed head, an opening through which the sound issues from the reed pipe, and a control member secured to said weighty movable head and movable therewith and having a plurality of apertures therethrough adapted to move past said opening to control the issuance of sound from the reed pipe.

1,667,106. TALKING-TOY MECHANISM. FRED EVANS, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed Mar. 21, 1923, Serial No. 626,495. Renewed Apr. 28, 1925. 14 Claims. (Cl. 46—46.)

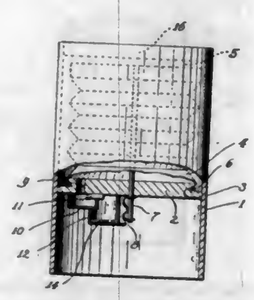
1. In a device of the class described, the combination of a casing provided with a pair of spaced heads, a bellows attached to one of said heads, a weight attached

to said bellows, a rod movable with said weight through the head to which said bellows is attached, a reed chamber in communication with the interior of said bellows, an orifice chamber having an orifice in its wall, a reed in communication with the said reed chamber and the said orifice chamber, and a control arm pivoted



to said reed chamber having one end thereof connected to said rod, the other end being provided with a blank portion having spaced apertures, the said apertures being arranged to be brought successively into registry with said orifice as said weight causes the collapse of said bellows.

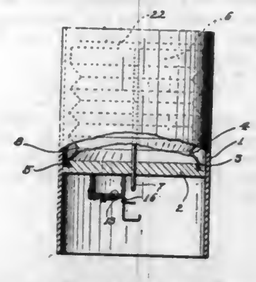
1,667,107. TALKING-TOY MECHANISM. FRED EVANS, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed Mar. 21, 1923. Serial No. 626,501. 9 Claims. (Cl. 46—46.)



5. A device of the class described having in combination a collapsible air chamber, a sound reed operated thereby, means having an orifice through which the sound from the reed may escape, a valve normally closing said orifice and a control member, the control member having a member adapted to engage a member on the valve to open the valve when the air chamber is collapsed, and one of said members being formed of flexible rubber whereby the other member may easily slip by the same on one movement of the control member with respect to valve.

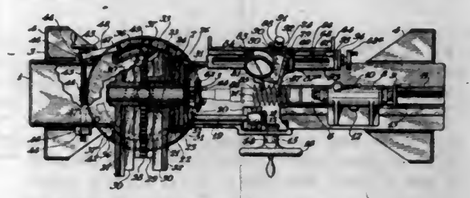
1,667,108. TALKING-TOY MECHANISM. FRED EVANS, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed Mar. 21, 1923. Serial No. 626,502. 10 Claims. (Cl. 46—46.)

7. A sounding device having sound producing means, and means for controlling the same, said last mentioned means including a valve for opening and closing an orifice through which the sound is adapted to issue, and a



trip arm pivotally mounted on and supported by said valve and resiliently held in one position with respect thereto and operable to operate said valve.

1,667,109. LEAD-TESTING MACHINE. PERCE E. GARLENT, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed May 9, 1927. Serial No. 189,889. 24 Claims. (Cl. 73—51.)



1. A machine for testing the lead of screws comprising means for rotating a screw on its axis, means for moving said screw axially during the rotation thereof in a direction opposite to that in which the thread advances and at a rate corresponding to the advance of the thread of the screw having the desired lead, and means engaging the side of the thread of said screw, whereby inaccuracies in the lead of the screw cause movement of said screw engaging means.

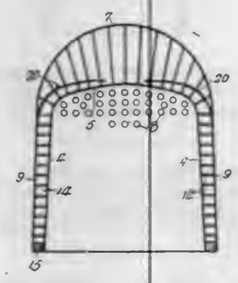
1,667,110. FILM BOX. EMANUEL GOLDBERG and MARTIN NOWICKI, Dresden, Germany, assignors to the Firm: Zeiss-Ikon Aktiengesellschaft, Dresden, Germany. Filed Oct. 7, 1926, Serial No. 140,015, and in Germany Oct. 8, 1925. 1 Claim. (Cl. 242—71.)



In a film magazine of the class described including two boxes one placed within the other with their side walls in spaced relation to form film channels, and

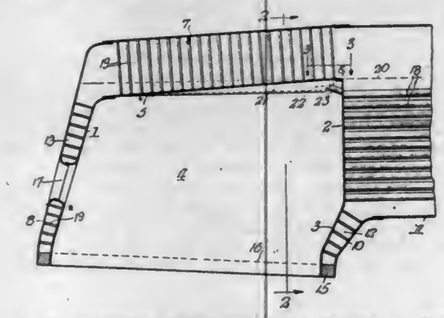
united at their bottom parts, and a common cover for the open top parts of both boxes, an inner projecting central rib on said cover, and outer flanges parallel to said rib to form grooves therewith for the reception of the ends of the side walls of both boxes to brace the same and holding these ends apart.

1,667,111. LOCOMOTIVE BOILER. CHARLES GILBERT HAWLEY, Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 8, 1926. Serial No. 100,480. 2 Claims. (Cl. 122—495.)



1. A locomotive boiler embodying therein, inner and outer stay bolted sheets defining a firebox and side water legs, and deflector plates positioned in said side water legs and operating at a predetermined low water level to deflect a part of the upwardly moving water in the side water legs toward that area of the crown sheet which becomes uncovered and to maintain the said area to one of small dimensions.

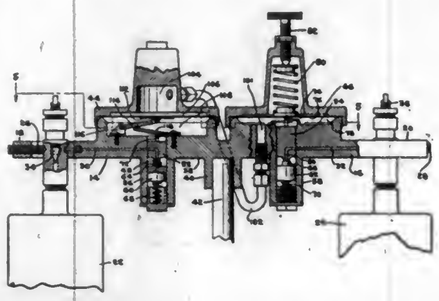
1,667,112. LOCOMOTIVE BOILER. CHARLES GILBERT HAWLEY, Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 8, 1926. Serial No. 100,482. 2 Claims. (Cl. 125—495.)



1. A locomotive boiler embodying therein, a firebox including a crown sheet and a flue sheets, said crown sheet being formed to provide channels therein terminating short of the flue sheet and a conduit opening at one end into the channel and at its other end through the flue sheet.

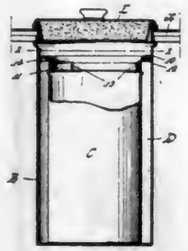
1,667,113. ANÆSTHETIZING APPARATUS. JAY A. HEIDBRINK, Minneapolis, Minn. Filed Feb. 23, 1924. Serial No. 694,485. 2 Claims. (Cl. 128—203.)

1. An anæsthetizing apparatus having a mixing chamber, two independent sources of supply of gases under pressure connected with said mixing chamber, a controlling device in one of said connections, a controlling device in the other of said connections, a diaphragm in said first controlling device constituting one of the walls of a gas chamber which is connected to said mixing chamber, means associated with said diaphragm for varying the supply of gas to said chamber, a diaphragm in said second controlling device constituting a partition between two separated gas chambers, a passageway connecting said first mentioned gas chamber with one of said



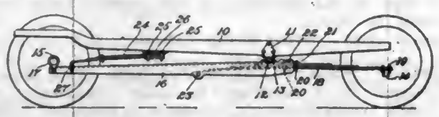
separated gas chambers, the other of said separated gas chambers being in the connection between its source of supply and the mixing chamber, a valve for controlling the supply of gas to said last mentioned chamber and connections between said second diaphragm and said valve for opening the latter to an extent in proportion to the pressure of gas in the first of said separated chambers.

1,667,114. REFRIGERATING CABINET. DUNCAN C. HOOKER, Farmington, Conn. Filed Jan. 27, 1926. Serial No. 84,248. 4 Claims. (Cl. 220—9.)



1. In a refrigerating cabinet, a dry container, a food can within and spaced from the walls of said container, and an outwardly and upwardly tapered flange having a rib removably fitting in the mouth of said food can and a rib on its outer periphery engaging the walls of the dry container at a distance from the top thereof.

1,667,115. SPRING SUSPENSION FOR VEHICLES. HENRY WEBB HYDE, North Cohasset, Mass., assignor to Hyde Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1923. Serial No. 641,932. 5 Claims. (Cl. 280—104.)



1. A spring suspension for vehicles including a pair of longitudinal reaches, each of said reaches comprising a rigid bar having at one end only a spring extension

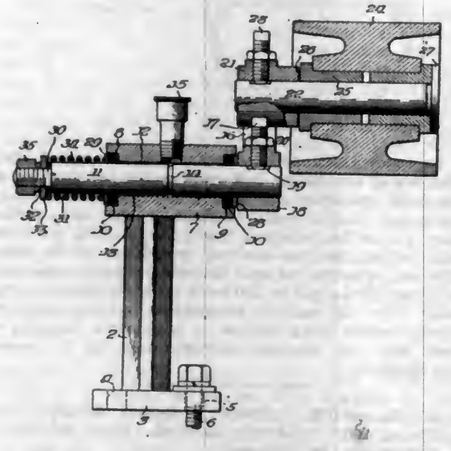
connected at one end to the reach and at its opposite end to the axle, the opposite end of said bar being connected to the other axle, and a connection intermediate said axles between said reaches and the vehicle body about which the latter is free to rock with respect to the former.

1,667,116. SPRING SUSPENSION FOR VEHICLES. HENRY WEBB HYDE, North Cohasset, Mass., assignor to Hyde Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1923. Serial No. 641,934. 12 Claims. (Cl. 280—104.)



1. In a vehicle having a body and axles, a spring suspension including a spring reach connected with each axle at one side of the vehicle, a connection between said reach and the body at one side of the center of gravity thereof upon which the body is free to rock, and a balancing spring at the same side of the center of gravity and connected at opposite ends to the body.

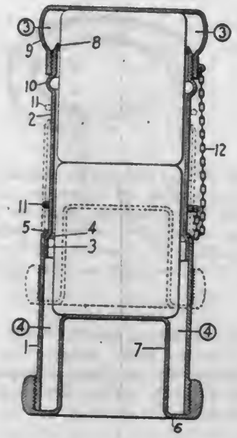
1,667,117. BELT-TIGHTENING-IDLER MOUNT. WARD S. IRELAND, Beloit, Wis., assignor to National Refrigeration Corporation, Beloit, Wis., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,573. 2 Claims. (Cl. 64—5.)



1. An idler pulley mount comprising, a bearing having a recess at one end of the bore thereof, a shaft rotatably mounted in and extending through said bore and beyond the ends thereof, a second shaft, means securing said second shaft to one end of the first said shaft out of alignment therewith ,a pulley rotatably mounted on the second shaft, means at the opposite end of the first said shaft for securing it against displacement, packing material in said recess and about the first said shaft, and resilient means normally compressing said material for imposing resistance to rotation of the first said shaft.

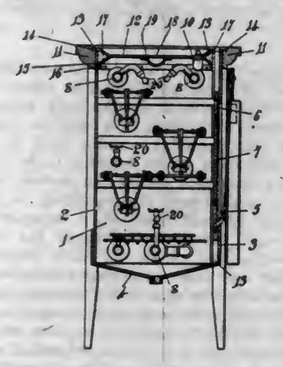
1,667,118. EJECTING HOLDER. GEORGE SHAFFER KECK, Pasadena, Calif. Filed Apr. 18, 1924. Serial No. 707,836. 7 Claims. (Cl. 206—56.)

7. A holder of the character described comprising two cylindrical sections slidably mounted one within the other, a closure for the outer end of one of said sections having a part extending into said section to support the material within said holder, said part being arranged to enter the other section when said sections are moved one



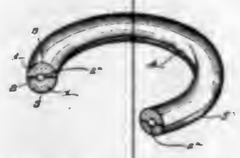
toward the other, and a removable closure for the outer end of said other section having a part arranged in line therewith to limit the movement of material beyond the end of the last mentioned section.

1,667,119. SPLASHPROOF CABINET FOR DISHWASHING AND SIMILAR PURPOSES. JAMES JOSEPH KEHOE, JR., WILLIAM CHARLES TREW MORSON, and ERIC MICHAEL DE SHERBININ, Toronto, Ontario, Canada, assignors, by mesne assignments, to Paragon Dishwasher Syndicate Incorporated, a Corporation of New York. Filed Nov. 10, 1923. Serial No. 674,094. 2 Claims. (Cl. 141—9.)



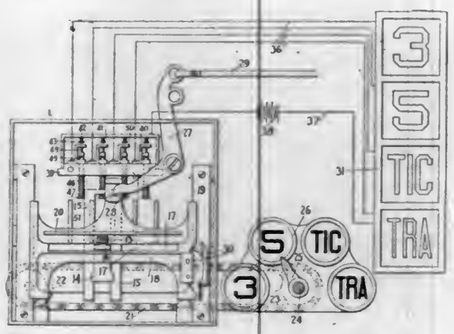
1. In a dishwashing machine a cabinet having vertical side, back and front walls and a bottom, and an opening in the front wall closed by a sliding door, a cabinet top comprising an open frame surrounding the upper ends of the side, back and front walls and extending above and below the top edges thereof, a pan shaped panel connected to the frame, overlying the frame above said walls and extending below their top edges and converging within the cabinet to provide grooves in which the upper ends of the walls are entered, and splash strips secured to the inner surfaces of the walls immediately below the cabinet top for covering the grooves and protecting the joint formed by the top edges of the walls and cabinet top.

1,667,120. FEEDING OR DISPLACING BELT. ARTHUR J. KEISER, Rochester, N. Y., assignor to The Bircher Co., Inc., Rochester, N. Y. Filed Mar. 21, 1925. Serial No. 17,364. 4 Claims. (Cl. 74—66.)



1. An endless belt of the class described, circular in cross section, and having its innermost periphery under compression and its outermost periphery under tension in any position to which it may be turned about the center of said circular cross section, the belt being formed of a plurality of endless and seamless sections.

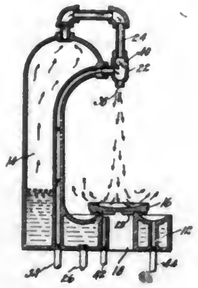
1,667,121. REGISTERING MECHANISM. CHARLES W. KETTEMAN, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed Feb. 26, 1925. Serial No. 11,728. 8 Claims. (Cl. 235—33.)



1. The combination with a registering mechanism having a plurality of counters adapted to register different items, an operating member having both horizontal and vertical movement to select and actuate that one of said counters corresponding to the item to be registered, of an indicating device adapted to be mounted at a point remote from said registering devices and having a plurality of indications corresponding to the items to be registered by said counters, a separate lamp for illuminating each indication, a circuit for each lamp, a circuit breaker and closer for each circuit, and a part connected with said operating member and so arranged with relation to said circuit breakers and closers that the horizontal movement of said operating member will bring said part into operative relation with the circuit breaker and closer of that indication which corresponds with the item to be registered and the vertical movement of said operating member will actuate said circuit breaker and closer to close the circuit through the lamp of that indication.

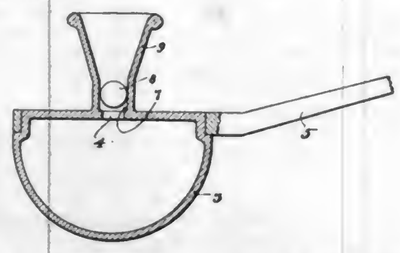
1,667,122. FUEL-OIL BURNER. CARL A. KILGUS, CHESTER A. BURTON, and GEORGE O. BERGMOSER, Detroit, Mich. Filed Feb. 4, 1927. Serial No. 165,782. 9 Claims. (Cl. 158—56.)

1. A fuel oil burner having a target plate, a water boiler having an annular portion spaced below said plate to permit air to flow therethrough and upwardly around the periphery of the plate and provided with an upright portion extending upwardly above said plate at one side thereof and in proximity thereto, a mixing chamber spaced above the plate and in proximity to the upper end of said upright portion of the boiler,



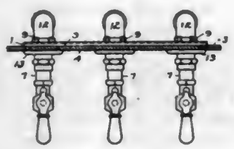
said mixing chamber provided with an outlet to discharge a fuel mixture toward said target plate, a steam passageway leading from the boiler to the mixing chamber and a fuel passageway leading into the mixing chamber.

1,667,123. TOY. KARL KOLLER, Los Angeles, Calif. Filed Mar. 2, 1925. Serial No. 12,599. 1 Claim. (Cl. 273—96.)



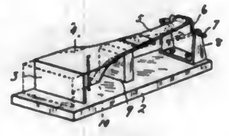
In a toy, a ball, a hollow body made of resilient material having an opening, and an extension-end provided on the body embodying a cylindrical engaging portion larger than and concentrically adjacent to the said opening having a conical receiving mouth portion with the wider end forming the free receiving termination of the extension end whereby the said ball can be held preparatory to being discharged by air force from the hollow of the body when the body is compressed, the said taper receiving mouth being adapted to facilitate a dropping of said ball into engaging position ready for a succeeding discharge.

1,667,124. PIPE SUPPORT. GEORGE LINIGER, Fort Wayne, Ind. Filed Mar. 20, 1926. Serial No. 96,215. 2 Claims. (Cl. 285—30.)



1. A supporting plate for faucets extending through the back wall of a sink and comprising a laterally elongated strip of bendable metal having flanges extending along its upper and lower edges to engage the back wall of a sink, said strip further having openings disposed in spaced alinement between the upper and lower edges of the strip, and tongues extending rearwardly from the strip around said openings for bending engagement over the flange of a pipe fitting.

1,667,125. SOUNDING DEVICE FOR TOY ANIMAL FIGURES. CONSTANTY MAJEWICZ, Detroit, Mich. Filed Dec. 13, 1926. Serial No. 154,461. 2 Claims. (Cl. 46—46.)



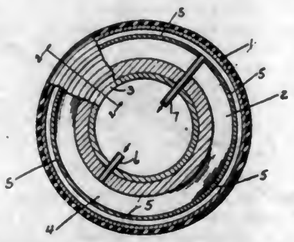
1. A sound producing device comprising a base having a rosin-treated top surface, an arm extending substantially parallel to said base, means carried by the base for reciprocating said arm upon said treated surface in substantial parallelism with the base, a flexible plate carried by said arm and bearing edgewise upon said base and a spring extending between said arm and base maintaining said plate pressed against the base.

1,667,126. COMBINATION LICENSE PLATE AND TAIL LIGHT. THOMAS MARTIN, Piedmont, Calif., assignor of one-half to Christian A. Jorgensen, Piedmont, Calif. Filed Mar. 17, 1926. Serial No. 95,337. 2 Claims. (Cl. 40—133.)



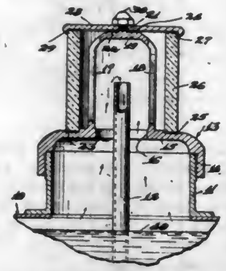
1. A combination license plate and tail light comprising a casing having a rectangular opening therein, the forward lower edge of said casing being offset to provide a transverse ledge and terminating in a rolled edge, the upper edge of said casing being offset to provide a seat and terminating in a rolled edge, a substantially rectangular frame disposed in said rectangular opening and bearing against said seats, said frame having upper and lower transverse rolled forward edges, hinged members connecting said frame to the lower edge of said casing and extending about the rolled lower edge of said casing and of said frame, and fastening elements attached to the upper edge of said frame and of said casing and extending completely about the upper rolled edge of said frame and casing, as and for the purpose specified, and a perforated license plate and glass plate mounted in said frame.

1,667,127. VULCANIZATION OF TIRE CASINGS. GEORGE J. MEAD, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 26, 1926. Serial No. 125,063. 2 Claims. (Cl. 18—45.)



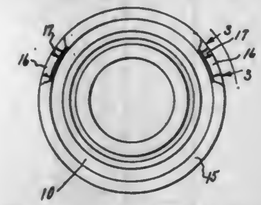
1. A cord tire vulcanizing core of less cross section than the interior cross section of the casing to be vulcanized thereon, an annular cavity within the core, openings from said cavity to the surface of the core, a fluid pressure conduit opening from the inner circumference of the core to said cavity and a second conduit opening from the inner circumference of the core to the outer circumference thereof.

1,667,128. RADIATOR OVERFLOW. LEE B. METTLER, Los Angeles, Calif. Filed Jan. 12, 1925. Serial No. 1,952. 1 Claim. (Cl. 116—117.)



A radiator overflow indicator comprising a cap having an opening therethrough for communication with the radiator and for the extension therethrough of the upper end of the overflow pipe of the radiator, a transparent element surmounting the cap and enclosing the end of the overflow pipe, and a securing device for said element arising from the cap from a point thereon within said closure element, said securing device comprising a pair of upright legs and a bridge connecting the tops of said legs, a screw threaded pintle projecting upwardly from the central portion of said bridge, a head having an aperture through which said pintle projects, and a nut adapted to screw onto said pintle to clamp said head down upon the transparent element for the purpose of holding the latter in place.

1,667,129. MOLD-ALIGNING MEANS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1925. Serial No. 13,100. 2 Claims. (Cl. 18—42.)



1. A centering means for a split tire mold in which a plurality of centralizing units are used, each having but two sets of mating bearing surfaces, one to limit radial movement in but one direction and the other to limit circumferential movement in but one direction, said units being all located to one side of a diametrical plane through the mold.

1,667,130. TRIPPING DEVICE FOR POWER-LIFT PLOWS. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Dec. 5, 1925. Serial No. 73,388. 12 Claims. (Cl. 97—47.)

1. The combination with a tractor and a vehicle drawn thereby embodying mechanism adapted to be tripped into or out of operation, of tripping means mounted on the tractor having a tensioned connection with said mechanism.

5. The combination with a wheeled plow pivotally attached to a tractor and having self contained mechanism

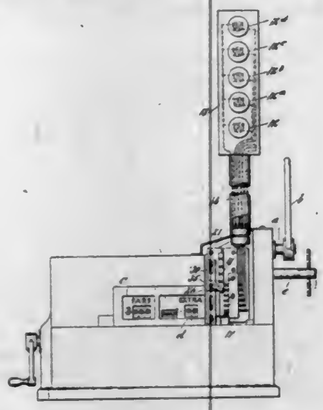
actuable to raise the plow and hold it out of operation, a tripping device, including a lever operative to release the plow to fall to the ground or to cause said mechanism to raise the plow, of means, mounted on the tractor, having a tensioned connection with said lever and operable at will to rock the same and actuate the tripping device.



7. The combination with a wheeled power lift plow having a tripping device and pivotally attached to a tractor, of a rocking mechanism mounted on the tractor, a flexible connection from said mechanism to the tripping device, means operable to rock said mechanism to actuate the tripping device, and means to hold said connection under constant tension.

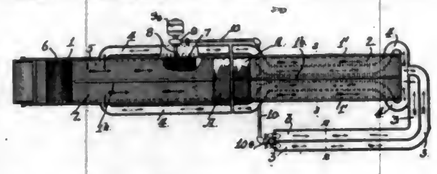
12. The combination with a wheeled power lift plow having a tripping device and pivotally attached to a tractor, a rockable mechanism mounted on the tractor including a vertically disposed crank shaft, a bearing in which the crank shaft is mounted, a support for said bearing secured on the tractor, a toothed sector rigidly secured on the shaft, a pulley on the upper part of said shaft, a cable leading over the pulley having one end secured to the plow and the opposite end attached to the tripping device, and a coiled spring fastened to said support and to the sector, the contractive force of said spring exerted to hold the cable under constant tension.

1,667,131. ANNUNCIATOR FOR TAXIMETERS. FRANK SAWYER, Boston, Mass., assignor to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed Oct. 12, 1923. Serial No. 668,164. 8 Claims. (Cl. 235—30.)



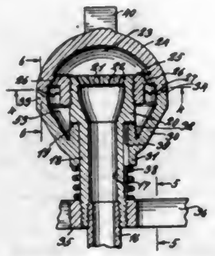
1. In combination, a taximeter which includes a manually movable registering member, operable by a driver to register the number of passengers on board on a given trip; an annunciator including a plurality of normally inactive signals corresponding in number to the number of passenger seats in a vehicle, and means operable by the movements of said registering member to render said signals successively active, the arrangement being such that the number of passengers registered by the driver may be indicated to an inspector outside the vehicle, and compared with the number seen in the vehicle.

1,667,132. HANDLING FRUIT. PAUL A. SCHERER, Medford, Oreg. Filed Apr. 11, 1927. Serial No. 182,921. 14 Claims. (Cl. 146—194.)



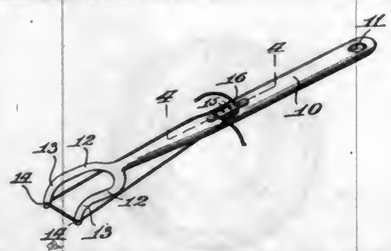
12. A fruit-handling apparatus comprising a frame fitted with a treating element; a conveyer carried by said frame and adapted to advance the fruit through the treating element; a plurality of separate flowing liquid streams to receive the fruit allotted to each, each of said streams reaching and flowing over a separate area of the receiving end of the conveyer and each adapted to deliver its allotment upon its respective area; and means in association with said conveyer to maintain the individuality of each allotment.

1,667,133. GAS BURNER. HAROLD D. SCHRADER, Denver, Colo. Filed Oct. 21, 1926. Serial No. 143,093. 10 Claims. (Cl. 158—99.)



1. A gas burner having a hollow hub member whose outer end is closed by a perforated partition, a hollow tip secured to the outer end of said hub and cooperating with the partition to form an expansion chamber, a frustoconical member secured to said hub portion and cooperating with the hub and with the tip member to form a second expansion chamber, the first mentioned chamber being connected with the interior of the hub and with the second expansion chamber by means of a plurality of openings, the walls of the second chamber having a plurality of openings connecting the second chamber with the atmosphere.

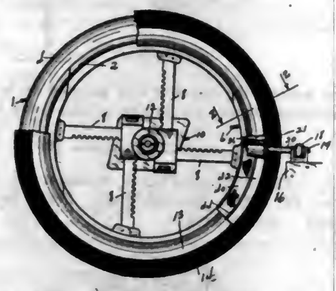
1,667,134. DENTAL FLOSS HOLDER. LESTER L. SHERWOOD, Los Angeles, Calif. Filed June 22, 1927. Serial No. 200,599. 2 Claims. (Cl. 132—91.)



1. A dental floss holder comprising a handle, the forward end of which is bifurcated to provide a pair of spaced arms, the outer portions of which are curved in the same direction, the outer edges of the ends of the curved portions of said arms being provided with notches

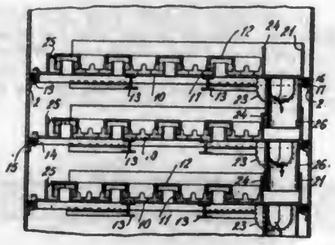
that occupy a plane parallel with the plane occupied by the handle and a plate of thin, resilient material secured on the handle to the rear of the bifurcated forward end thereof, the end portions of which plate are spaced apart from the surface of the handle.

1,667,135. TIRE-BUILDING MACHINE. GEORGE F. WIKLE, Milwaukee, Wis. Filed Mar. 19, 1924. Serial No. 700,395. 10 Claims. (Cl. 154—10.)



1. A device of the character described comprising a rotatable core, a resilient roll, freely rotatable upon a shaft, and adapted to be positioned against the side of a tire carcass supported on said core, and a tension roll and a guiding device supported by said shaft.

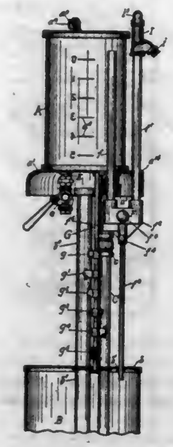
1,667,136. GAS AND LIQUID CONTACT APPARATUS. CLIVE M. ALEXANDER, Tulsa, Okla. Filed Nov. 27, 1926. Serial No. 151,067. 11 Claims. (Cl. 261—114.)



1. An improved bubble tower comprising a vertically arranged container having a series of plates supported therein in spaced relation, said plates being sealed with the walls of the container so as to form a series of compartments intermediate successive plates of the series, means for receiving a liquid at corresponding points in a vertical line on the upper surface of each of said plates and for flowing a stream of the liquid therefrom across each of the plates in the series in the same direction, means for contacting liquid on the surface of said plates with a gas or vapor rising upwardly therethrough, means for returning the liquid in compact streams in free communication with the vapor space of the compartment immediately above each of said plates to a point on said plates near said receiving means and for discharging the liquid therefrom through each of said plates to the receiving means for the next lower plate of the series.

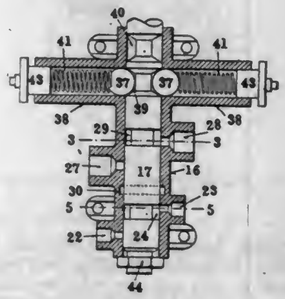
1,667,137. LIQUID MEASURING AND DISPENSING APPARATUS. LINNAEUS E. BAKER and CARROLL L. MERRIMAN, Fort Wayne, Ind., assignors to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed July 24, 1924. Serial No. 727,987. 9 Claims. (Cl. 221—100.)

1. In combination with a liquid measuring and dispensing apparatus having an elevated container from which liquid is dispensed, a U-tube slidably adjustable in a vertical plane and having branches of substantially the same height and having the inlet branch open at the



top, a stuffing box in the bottom of said container through which said inlet branch passes, said inlet branch terminating within said container, the outlet branch of said U-tube being formed for use in serving customers.

1,667,138. VALVE MECHANISM. FRANK S. BARES, St. Louis, Mo. Filed Apr. 6, 1925. Serial No. 20,941. 3 Claims. (Cl. 103—227.)

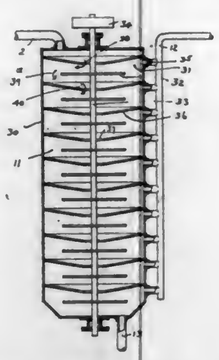


1. In a device of the class described, the combination with a valve casing provided with ports, of a valve for controlling said ports, and provided with a stem, a spring carried by said stem, means engaging said spring to move the stem, and restraining means for the valve comprising a pair of oppositely disposed spring pressed balls free to rotate and engaging with a recess in the valve.

1,667,139. GAS SEPARATOR. JOHN F. BORDEN, Alameda, Calif., assignor to Oliver Continuous Filter Company, Oakland, Calif., a Corporation of California. Filed Mar. 20, 1924. Serial No. 700,494. 1 Claim. (Cl. 183—3.)

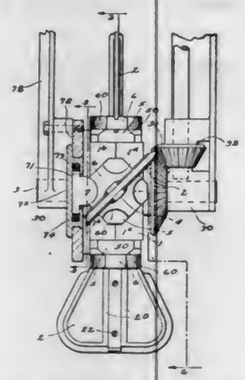
Apparatus of the character described comprising a vertically arranged cylinder with means at its upper end for controlling the admission of fluid thereto, a series of spaced shelf partitions within the cylinder each slanted downwardly and with an opening through the lowest por-

tion, a spreader disk positioned between each pair of shelves adapted to spread material passing through the opening of one shelf to the outer portion of the next shelf,



means for rotating the spreader disks, and means for applying a suction just below the highest portion of each shelf.

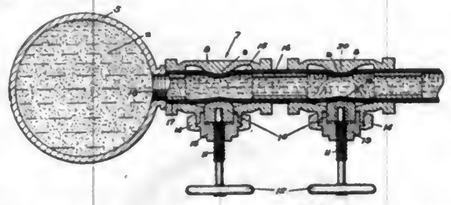
1,667,140. FEATHERING PADDLE WHEEL. EPHRAIM JAMES CLARK, Seattle, Wash. Filed Nov. 15, 1926. Serial No. 148,461. 7 Claims. (Cl. 170—110.)



1. A feathering paddle wheel comprising a rotative hub, a plurality of paddles radiating from said hub and each journaled in said hub for rotation about an axis extending radially of the hub, a quadrangular cam secured to and rotative with each paddle, and having a notch entering each corner, a fixed cam engageable with a notch of each of said rotative cams in turn, as the paddles corresponding to the respective rotative cams reach the end of their power stroke, to turn said paddles through a quarter revolution into feathering position, and a second fixed cam also engageable in turn with a succeeding notch in the said rotative cams, as the corresponding feathering paddles reach a position corresponding to the start of a power stroke, to turn said paddles in the same direction as the first fixed cam, and through a quarter revolution, into working position.

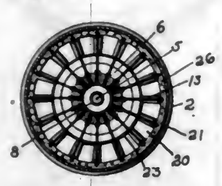
1,667,141. VALVE. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 22, 1925. Serial No. 38,637. 3 Claims. (Cl. 251—5.)

1. A valve of the character described comprising a housing, a compressible member running through said housing, means for compressing said member, and bushings arranged within the housing at opposite ends thereof for securing said member in place, one of said bushings



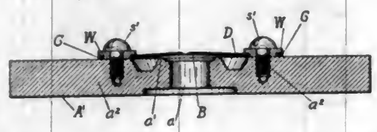
extending beyond the housing and adapted to be engaged with a suitable support for retaining said valve in desired position.

1,667,142. THERMOCOUPLE. WILLIAM A. DARRAH, Chicago, Ill. Filed Feb. 24, 1925. Serial No. 11,261. 5 Claims. (Cl. 136—4.)



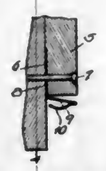
1. A thermo electric couple consisting of two metals of granular form interlocked with an insulating support.

1,667,143. DISCHARGE VALVE FOR ICE-MACHINE COMPRESSORS. EDWARD R. DE LUIZ and HARRY L. MITCHELL, Fort Wayne, Ind., assignors to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed July 11, 1927. Serial No. 204,780. 8 Claims. (Cl. 251—119.)



1. In a relief valve mechanism a resilient plate valve whose mid-portion covers the port, superimposed means adapted to progressively conform to the shape of said valve as flexed for limiting the flex of said valve and means for holding said valve down at both ends but without clamping it so as to permit said valve to make sliding adjustment longitudinally at the ends when said valve is flexed.

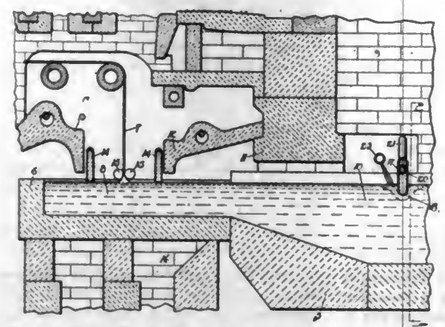
1,667,144. WEATHER STRIP. WILLIAM J. DENNIS, Chicago, Ill. Filed Apr. 11, 1924. Serial No. 705,834. 1 Claim. (Cl. 20—69.)



A weather strip comprising an integral metal strip having a longitudinal base portion, an intermediate portion extending from said base and forming a sharp angle

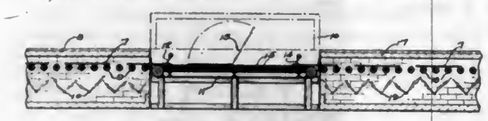
therewith, the free end of said intermediate portion bent sharply upon itself outwardly and backwardly forming a narrow portion of double thickness, and an arcuately formed outer portion extending from said portion of double thickness, the free end of said outer arcuate portion stopping short adjacent said sharp angle of said base and intermediate portions.

1,667,145. DRAWING SHEET GLASS. HUGO N. DIEDERICHS, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 5, 1924. Serial No. 710,991. 6 Claims. (Cl. 49—17.)



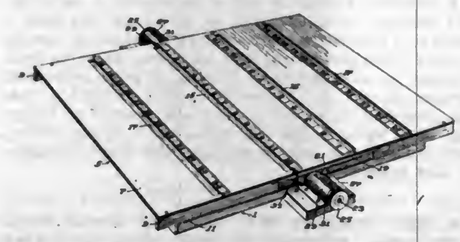
2. Means for providing a deeper flow of conditioned glass from a producing tank to a sheet drawing means, comprising a metallic heat-absorbing body positioned in the path of flow of the surface strata of the molten glass, in combination with means for reheating the surface glass after passing under the heat-absorbing body.

1,667,146. SHEET OF GLASS AND PROCESS OF PRODUCING THE SAME. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 27, 1926. Serial No. 97,000. 13 Claims. (Cl. 49—79.)



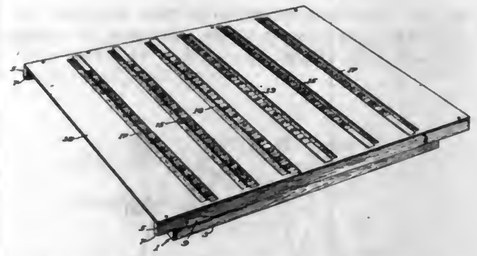
11. The process of producing polished sheet glass, consisting in grinding both surfaces of a sheet of glass, passing the ground sheet through a heating chamber, fire-polishing one side of the sheet, then turning the sheet over and fire-polishing the second side, and then cooling said sheet.

1,667,147. GAME. SYDNEY TEMPLETON FARRELL, Newton, Mass. Filed Jan. 23, 1925. Serial No. 4,222. 12 Claims. (Cl. 273—93.)



1. In a game, a chart having numerous plays described thereon, an adjustable slide over the chart having elongated apertures and numbers along and adjacent to said apertures, said slide being adjustable in response to each new play condition to disclose through said apertures only plays on the chart which are possible while such play condition exists.

1,667,148. FOOTBALL GAME. SYDNEY TEMPLETON FARRELL, Newton, Mass. Filed Jan. 23, 1925. Serial No. 4,221. 10 Claims. (Cl. 273—94.)



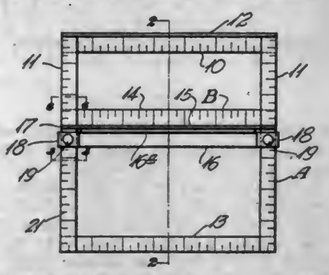
1. In a football game, the combination of a chart having arranged thereon groups of descriptions of football plays corresponding to a number of different game conditions, the plays of each group being suitable for a particular game condition, means cooperating with said chart for selecting any one of said groups of plays; a dial separate from said chart having characters thereon corresponding to the number of plays in any one of said groups, and a pointer adapted to be spun and come to rest at any one of said characters to indicate which play of the selected group is to be made.

1,667,149. ACOUSTIC DEVICE. ERWIN GERLACH, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Nov. 5, 1926, Serial No. 146,333, and in Germany Aug. 11, 1925. 18 Claims. (Cl. 179—116.)



4. In a device of the character described, a diaphragm consisting of two curved portions, a U-shaped rib into which extend the adjacent edges of said diaphragm portions, said rib being free to vibrate in a direction transverse to its length, and electrical means associated with said rib.

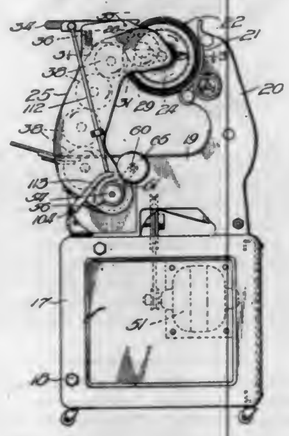
1,667,150. DRESSMAKER'S GAUGE AND CREASER. MINNIE GRIFFITH, Almira, Wash. Filed May 7, 1927. Serial No. 189,472. 3 Claims. (Cl. 33—80.)



1. A dressmaker's gauger and creaser, comprising a rectangular frame having a ruling edge fixed at one end thereof, an upstanding cross member adjustably and slid-

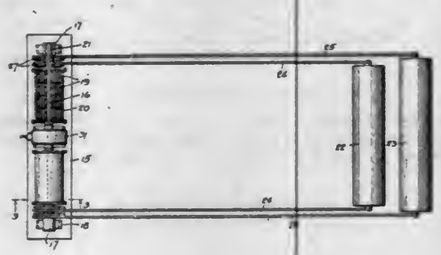
ably mounted on said frame parallel relative to said ruling edge, a straight edge dependent from said cross member, said straight edge extending towards said ruling edge and also being spaced from and beneath said frame, and an upstanding creaser edge mounted on said frame parallel to and adjacent to said ruling edge.

1,667,151. DRIVING MECHANISM FOR IRONING MACHINES. CHRISTOPHER GROEN, Algonquin, Ill. Filed Aug. 25, 1924. Serial No. 733,930. 19 Claims. (Cl. 68—9.



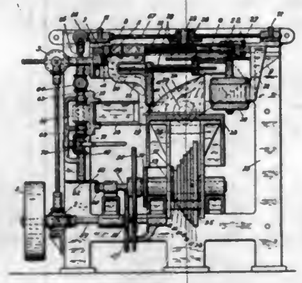
1. In an ironing mechanism, a shoe and a rotatable roll, a movable feed board adjacent to the roll, mechanism for effecting relative bodily movements between the shoe and the roll, mechanism for rotating the roll, and means controlled by movements of said feed board for setting said mechanisms into operation.

1,667,152. WAVE MOTOR. MARTIN HEGGE, Los Angeles, Calif. Filed May 19, 1926. Serial No. 110,227. 2 Claims. (Cl. 185—30.)



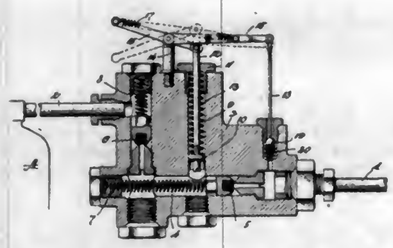
1. In a wave motor, a spring motor unit including a shaft, a drum comprising an open ended cylinder and heads closing the ends of the cylinder and rotatably mounted on the shaft, one of the heads having an axial extension to provide an elongated hub on the shaft, a plurality of coil springs in the drum having their outer ends fixed to the cylinder and their inner ends fixed to the shaft, pinions fixed to the hub, ratchet rings rotatably mounted on the hub and formed internally with teeth to provide gears, planetary pinions meshing with said gears and pinions, arms fulcrumed on the hub and adapted to be oscillated by floats, and pawls carried by the arms and engaging the ratchet rings, whereby oscillation of the arms will operate the pawls and thereby effect unidirectional rotation of the drums to wind the springs.

1,667,153. MACHINE FOR PRODUCING IRREGULAR SURFACES. BRUNO HEYMANN, San Francisco, Calif. Filed Aug. 14, 1924. Serial No. 732,475. 32 Claims. (Cl. 90—15.)



1. Apparatus for generating quadric surfaces comprising a stationary frame, a cutting tool and independent motor means for operating said tool, a chuck and driving connections therefor compelling the movement of said tool, a carriage slidably mounted in said frame and adapted to support raw material positioned before said tool, means constructed and adapted to move said tool and other means constructed and adapted to move said material relative to said tool whereby the material is cut in a plurality of complete horizontal ellipses whose major and minor axes are progressively changed on second degree curves.

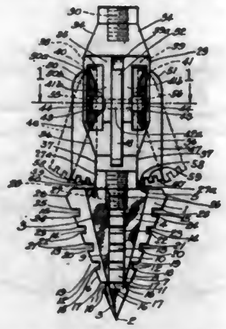
1,667,154. SAFETY VALVE. CHARLES F. HEYWOOD, Detroit, Mich. Filed Apr. 28, 1926. Serial No. 105,338. 9 Claims. (Cl. 230—27.)



1. Pressure regulating means comprising a valve device adapted for arrangement in a pressure line from a pump to a receiver, said device having a chamber therein, a relief valve permitting when open free discharge from a pump to eliminate load thereon, a pressure-movable member exposed to the pressure in said chamber, a linkage extending from said member and adapted to engage said relief valve to open the same, and a spring backing said member and adapted to resist the normal pressure in said chamber.

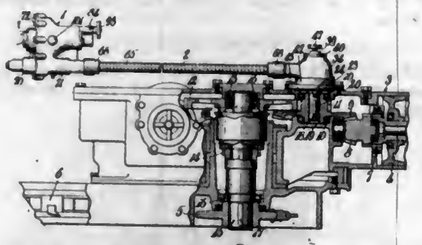
1,667,155. DRILLING BIT. ZALMON B. HODON, Ponca City, Okla. Filed Mar. 18, 1927. Serial No. 176,396. 5 Claims. (Cl. 255—76.)

5. A drilling bit comprising an initial cutting portion of inverted conical form, and a series of sets of cutting arms of varying lengths pivotally mounted above said initial portion with their pivots in substantially the same horizontal plane, some of said arms being mounted for



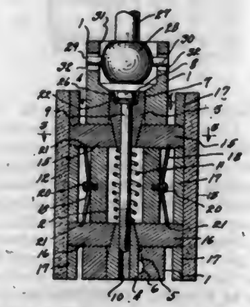
greater outward throw than others, each of said sets being adapted to cut next adjacent the swath cut by the next preceding set.

1,667,156. DRILLING TOOL. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 2, 1925. Serial No. 60,076. 35 Claims. (Cl. 255—47.)



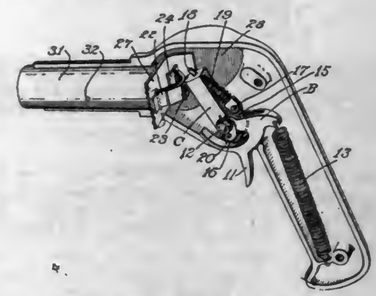
1. In a drilling tool, a power driving element, cooperating gearing driven thereby, a flexible transmisson shaft driven by said gearing, a swivel mounting for said flexible shaft coaxial with one of said gears, and a drilling tool driven by said flexible shaft.

1,667,157. CYLINDER GRINDER. MARSDEN C. HUTTO, Detroit, Mich. Filed July 18, 1925. Serial No. 44,444. 3 Claims. (Cl. 51—206.)



1. On a grinding tool, an apertured body member, a pair of cones therein, a rod on which the cones are mounted in spaced relation, said rod being threaded at one end and provided with a head at the other, one of said cones being threaded to receive the threaded end of the rod, means for preventing rotation of the threaded cone relative to the rod, the other of said cones being free to turn on the rod, said last named cone having a recess in its larger end for the head of the rod, a friction device for preventing the relative turning of the rod and said last named cone consisting of a spring wire extending through an aperture of the said head and having its free ends engaging the side wall of the recess, and a spring between the cones tending to move the free cone to maintain the head and spring in position in the recess therein.

1,667,158. ELECTRIC SWITCH. CLIFFORD E. IVES, Chicago, Ill. Filed Apr. 28, 1924. Serial No. 709,468. 13 Claims. (Cl. 200—157.)



3. An electric switch comprising a finger trigger pivotally mounted at one end, a contact operating yoke pivotally mounted at one end, a lever pivotally mounted and having a free end connected with the yoke by a spring and adapted to swing back and forth to place the spring beyond a neutral point whereby the yoke snaps from a normal to an alternate position and vice versa, and a connection between the trigger and lever to operate the latter whereby when the trigger is pulled the lever and yoke are moved to an alternate position, and a spring acting upon the trigger whereby it remains pulled while pressure is held thereon but automatically restores to restore the yoke when the pressure is removed.

1,667,159. SHOE. GEORGE A. JONES, Lynn, Mass., assignor to Shoe Products, Inc., Lynn, Mass., a Corporation of Massachusetts. Filed Dec. 24, 1926. Serial No. 156,928. 3 Claims. (Cl. 36—37.)

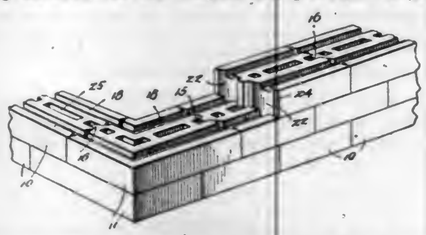


1. In a shoe, the combination of an insole having a hole in the heel portion thereof, and a rubber cushion comprising a thin diaphragm having a collar projecting from the lower face of the diaphragm into said hole and of a depth substantially the same as the thickness of the sole, said diaphragm having a wide margin projecting out beyond the collar and resting upon the portion of the insloe surrounding the hole, said diaphragm being adapted to pulsate over the hole when the wearer of the shoe is walking.

1,667,160. WALL CONSTRUCTION. EDWARD H. KLEINFELDT, New York, N. Y. Filed Mar. 30, 1927. Serial No. 179,574. 6 Claims. (Cl. 72—38.)

3. A wall construction including a plurality of courses of building blocks, each comprising laterally spaced portions joined by integral webs and defining air circulation spaces between the portions, the said blocks each having a vertical tongue at one end and a vertical groove at the opposite end for interengagement with similar elements formed on adjacent blocks, the upper face of each block portion having a longitudinal groove for the reception of

a bonding material and the lower face of each block portion having a longitudinal tongue of lesser depth than the groove to afford a space for accommodating the bonding material, the said tongues and grooves of adjacent



superimposed blocks adapted to interfit, the upper portion of the tongues being of a size to snugly fit the grooves for insuring proper alinement of the outer surfaces of the blocks.

1,667,161. GARMENT. MORRIS KOSOFSKY, New York, N. Y., assignor to Kenilworth Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 17, 1926. Serial No. 129,697. 1 Claim. (Cl. 2—77.)



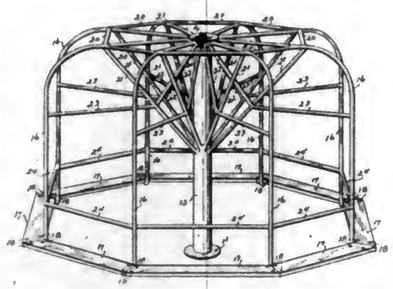
A woman's athletic garment of the middy blouse type comprising a loose body consisting of front and back sections, and a band connecting said sections with each other and consisting of relatively inelastic portions and an elastic knit insert permanently secured to the same, and located in said band so as to normally lie in approximate registry with the base of the spine when the garment is worn, said band being arranged to pass between the legs of the wearer to maintain the body of the garment in position on the wearer and having its opposite edges curved to fit the thighs at the crotch.

1,667,162. SIZE MARKER FOR HATS. JOHN P. KUHNS, Dayton, Ohio, assignor to National Tag Manufacturing Corporation, Dayton, Ohio, a Corporation of New York. Filed May 15, 1926. Serial No. 109,440. 3 Claims. (Cl. 40—5.)



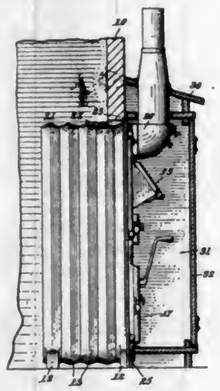
1. A hat marker of the character described comprising a blank having parallel sections each having a size mark at each end of each side thereof, said sections being foldable alternatively to expose the marks on either side of either section.

1,667,163. MERRY-GO-ROUND. RALPH FRANKLIN LAMAR, Garden City, Kans. Filed Feb. 18, 1927. Serial No. 169,222. 5 Claims. (Cl. 272—33.)



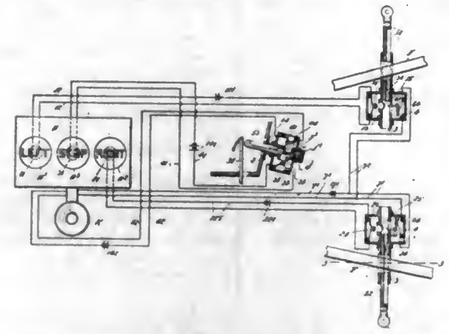
1. In a device of the class described, an axle designed to be held in a vertical position by having one of its ends buried in suitable material, a single hub member rotatably mounted on and embracing the major portion of the length of said axle, radially extending arms from the upper portion of said hub member first outwardly and then downwardly, a platform secured to the free ends of said arms, and braces leading from said supporting arms to a point on the center portion of said hub member that is of a height greater than that of the said platform.

1,667,164. HEATING APPARATUS. ARCHER A. LANDON, Buffalo, N. Y. Filed Mar. 10, 1924. Serial No. 697,995. 5 Claims. (Cl. 126—58.)



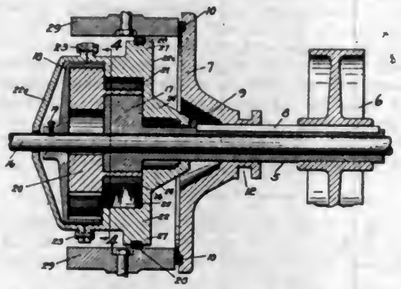
1. The combination of a structure to be heated having an opening in a wall thereof, with a heating apparatus of smaller outline than that of said opening and comprising a plurality of connected sections adapted to confine a heating fluid; the back and intermediate sections thereof extending freely through said opening and into said structure, and a front section extending without said structure and having openings in its exposed portion, a peripheral flange extending entirely around an exposed portion of said heating apparatus for securing said heating apparatus, as a whole, in position partly within and partly without said structure, and for sealing the space between said heating apparatus and the edge of the opening surrounding the same whereby to prevent communication between the interior of said structure and the interior of said heating apparatus by way of said space and the openings in said front section, substantially as specified.

1,667,165. AUTOMOBILE SIGNAL. LETTERIO MARTINO, Everett, Mass. Filed Jan. 24, 1922. Serial No. 531,383. 1 Claim. (Cl. 200—16.)



In a vehicle electric signal system, a switch box containing two normally open switches, one of which comprises a two-armed, spring-pressed lever, and the other of which comprises a ball, combined with a slide rod having a member to engage one arm of said lever, and having also a rounded shoulder part to engage said ball; whereby both of said switches may be closed, to render two signals operative, by a longitudinal movement of said slide rod.

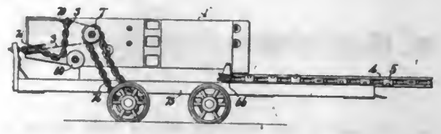
1,667,166. VARIABLE-SPEED TRANSMISSION. FRANCIS L. ORR, Denver, Colo. Filed Nov. 29, 1924. Serial No. 752,978. 18 Claims. (Cl. 74—34.)



1. In variable speed transmission, the combination with a driving element and a driven element, of motion transmitting differential gearing including a rotary control element, an eccentric on the driving element, an internal gear wheel on the driven element and an external gear wheel, means for transmitting motion from the eccentric to the external gear wheel in the circle of the teeth of the internal gear wheel, a motion transmitting member rotating with the driving element, yieldable means for urging the motion transmitting member in one direction, said member and control element having cooperative means for their conjunctive rotation in a determinate position of the member, an adjustment including a rotatable member engaging the motion transmitting member and the controlling element to transmit motion to the latter at a selective speed ratio, and means controlled by said control element for controlling the rotation of the external gear.

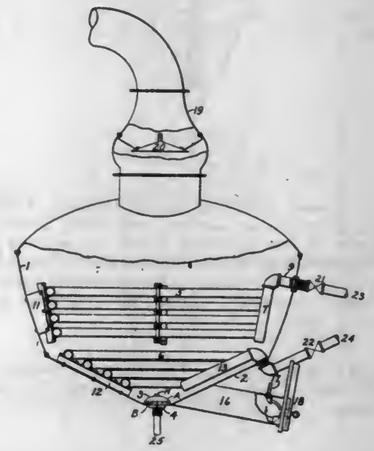
1,667,167. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 18, 1923. Serial No. 646,000. 36 Claims. (Cl. 262—30.)

1. In a mining machine, a frame slidable on its bottom on the mine bottom during cutting and having cutting mechanism projecting from one end thereof, a motor driving said cutting mechanism, variable speed mechanism driven wholly by said motor and having a terminal element rotatable by said motor at different speeds, and feeding means disposed to the rear of said



cutting mechanism and driven by the terminal element of said variable speed mechanism, said feeding means including a plurality of independent planetary gearings and being operable to feed said machine in a direction parallel to the working face during cutting.

1,667,168. STEAM TURPENTINE STILL. JESSE O. REED, Paxinos, Pa., assignor to the Government and the People of the United States of America. Filed July 28, 1927. Serial No. 209,094. (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.) 2 Claims. (Cl. 203—3.)



1. In a turpentine still, a jet for introducing steam into the bottom of said still, said jet comprising a head having a plurality of radial passageways communicating with a vertical central passageway, a valve in said head between said radial passageways and said central passageway, a steam supply pipe communicating with said central passageway, said valve so arranged as to be operable by pressure in the said steam line to permit communication between said central and said radial passageways.

1,667,169. BOILER-TUBE CLEANER. PETER RUCK, Brooklyn, and MICHAEL SCHUTZ, New York, N. Y., assignors to Saul Lewis, New York, N. Y. Refiled for abandoned application Serial No. 548,091, filed Mar. 30, 1922. This application filed June 7, 1927. Serial No. 197,207. 3 Claims. (Cl. 15—104.18.)

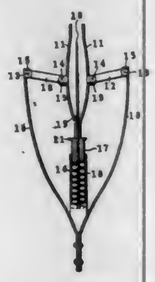
1. As a new article of manufacture a boiler tube cleaner including a body, a head comprising a cylindrical shell, one end of which is attached to the body, the shell being longitudinally slotted from its other end

throughout the major portion of its length to define a plurality of integrally connected spring fingers, the free ends of which are turned inwardly and of general sectoral shape cooperatively defining an annulus having a relatively small central opening therein, arcuate scraper



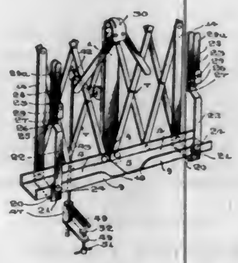
plates attached to the inwardly turned ends of the fingers and including scraping edges extending radially therebeyond, and a spring pressed conical spreader normally urged through the central opening to expand the blade carrying fingers.

1,667,170. TWEEZERS. SAMUEL SEGAL, New York, N. Y. Filed Apr. 15, 1924. Serial No. 706,644. 16 Claims. (Cl. 128—354.)



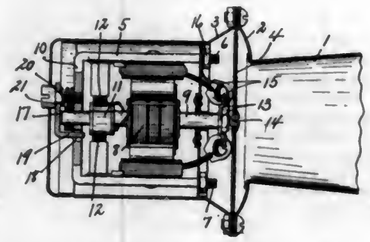
1. A tweezer, including, in combination, a pair of gripping jaws, means mounting said jaws, means forming a part of said mounting means for resisting bodily rearward movement thereof, and means for moving said jaws into gripping position and subsequently forcing the same bodily rearwardly against the resistance of said means.

1,667,171. BOOK REST. FRANK DAVID SHOLIN, Portland, Oreg. Filed Jan. 13, 1927. Serial No. 160,902. 8 Claims. (Cl. 45—58.)



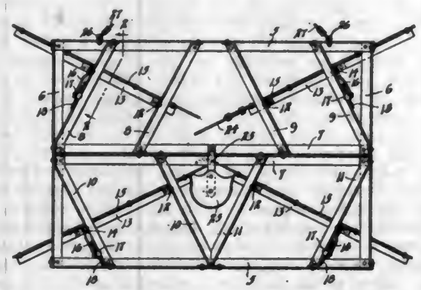
1. A rest of the character described including a holder frame having a back comprising a middle supporting member, a pair of end bars, extensible and contractile means connecting said end bars with said middle member, and a base comprising a pair of sections pivotally connected at their inner ends with the lower part of said middle member on the back so that said base sections may swing vertically substantially from the plane of said middle member to positions to extend substantially at right angles with said middle member, and vice versa, said end bars having forward extensions at their lower ends for supporting the outer end portions of said base sections when said base sections are disposed substantially at right angles with said middle member of the back, said forward extensions having up-turned front end portions, and retaining arms pivotally connected with said up-turned end portions of the forward extensions.

1,667,172. SIGNALING DEVICE. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 27, 1922. Serial No. 609,333. 4 Claims. (Cl. 308—166.)



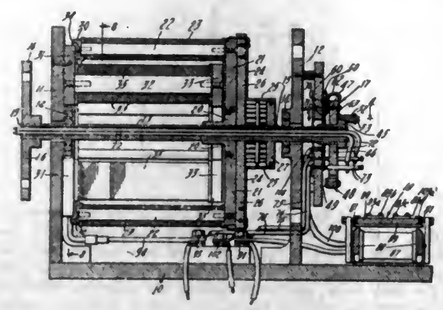
1. An apparatus of the character described comprising a case section, a shaft journaled in said case section, and means for adjusting said shaft comprising an adjusting bar at the rear of said case section and having a portion in contact with the end of said shaft, a flange on said adjusting bar engaged with the case section at one side of said shaft, a rotary adjusting member engaged with the adjusting bar and having a threaded engagement with the case section on the side of said shaft opposite said flange, and a spring interposed between the adjusting bar and the case section.

1,667,173. ROAD SCRAPER. ROY E. STEWART, Brentford, S. Dak. Filed Mar. 27, 1926, Serial No. 97,883. Renewed Mar. 15, 1928. 7 Claims. (Cl. 37—148.)



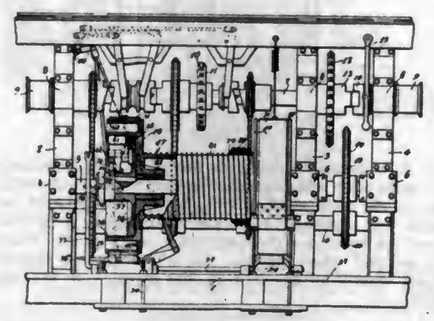
1. A road drag or scraper having in combination, a frame, a pair of blades diverging forwardly toward their outer ends and separated in overlapping relation at their inner ends, means for swinging said blades about horizontal axes and for holding said blades in various positions, a pair of blades diverging rearwardly toward their outer ends in the rear of said first mentioned blade and means for swinging said latter blades about horizontal axes and for holding said blades in various positions.

1,667,174. OSCILLATING SIGNAL. ROBERT R. THOMPSON, Los Angeles, Calif.; Mary W. Thompson executrix of said Robert R. Thompson, deceased. Filed Nov. 22, 1919. Serial No. 339,788. 4 Claims. (Cl. 177—329.)



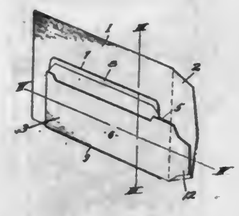
1. In a device of the character described, an oscillatable system balanced in substantially neutral equilibrium and including a signal member, means mounting said system for oscillation, and electro-magnetic means for oscillating said system including a rotary motor having an inner field of small diameter and an armature of large diameter mounted for oscillation around said field, said armature forming a part of said oscillatable system.

1,667,175. CLUTCH FOR THREE-SPEED DRAW WORKS. EDWARD TIMBS, Los Angeles, Calif., assignor to Union Tool Company, Torrance, Calif., a Corporation of California. Original application filed Apr. 21, 1924, Serial No. 707,937. Divided and this application filed Sept. 14, 1925. Serial No. 56,257. 5 Claims. (Cl. 192—77.)



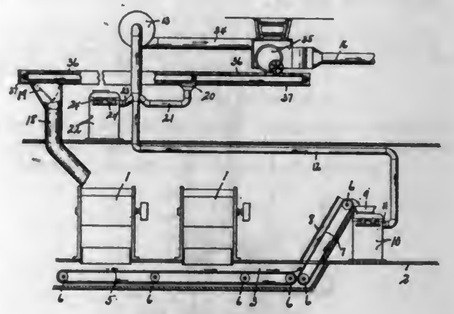
1. In a rotary drawworks, the combination of a frame, a drum-shaft mounted on the frame, means for driving the drum-shaft, a drum loose on the drum-shaft and having a head with a projecting flange, a friction clutch member with a disc rigidly secured to the drum-shaft and having a shoe in the form of a single expansion ring to engage the inner side of the flange, said ring being fixed at one end only on the disc and extending uninterruptedly along substantially the entire circumference of the flange to constitute a friction clutch, a rocker pin mounted on the disc, a rocker on the pin attached to the other end of the expansion ring, means for adjustably guiding the rocker pin on the disc to regulate the pressure of the ring on the flange, and means for actuating the rocker to move the expansion ring to close the clutch.

1,667,176. DUPLEX ENVELOPE. ADAM F. TORRANCE, Kansas City, Mo. Filed May 24, 1926. Serial No. 111,111. 2 Claims. (Cl. 229—72.)



1. The combination of an envelope having a closing flap, of a smaller envelope superimposed upon the face of and fastened to the larger one and provided with top and bottom opening and a sealing flap for each of said openings, the top flap folding over the front face of the small envelope to seal the top opening and the bottom flap folding upon the back of the large envelope to seal the bottom opening.

1,667,177. COTTON-TREATING APPARATUS. HARRY W. TROUT, Syracuse, N. Y., assignor to Cotswold Comfortable Company, Syracuse, N. Y., a Corporation of New York. Filed May 13, 1926. Serial No. 108,793. 4 Claims. (Cl. 19—107.)

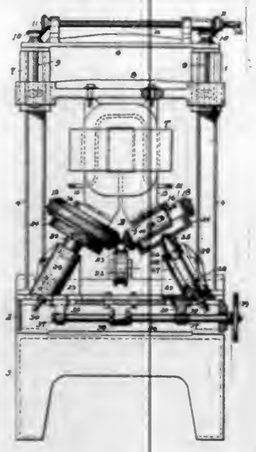


1. An apparatus for recovering from and supplying cotton to Garnett machines comprising in combination with a plurality of Garnett machines, of a continuous channel extending under all of said machines, means in said channel for conveying cotton escaping from the Garnett machines, a separator for receiving the recovered cotton from said conveying means, mechanical means in the separator for breaking up the cotton, a fan connected to the separator for producing a suction therein and for withdrawing the separated cotton from the separator and mechanism for receiving the cotton from the fan and re-supplying it to the Garnett machine.

1,667,178. ELECTRICAL WELDING APPARATUS. ISADORE J. VAN HUFFEL, Warren, Ohio. Original application filed Apr. 14, 1926, Serial No. 101,885. Divided and this application filed Oct. 13, 1926. Serial No. 141,291. 10 Claims. (Cl. 219—6.)

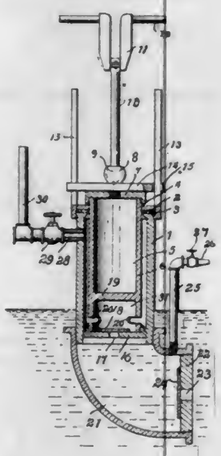
1. An electrical welding apparatus, comprising a transformer having a secondary, provided with depending ter-

minals, an independently rotatable electrode of circular form adjustably mounted opposite each terminal, and



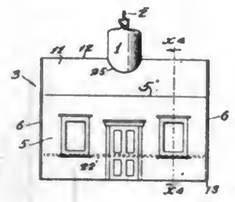
brushes for said electrodes having clamping connection with said terminals adjustable in a direction toward the circular welding portions of said electrodes.

1,667,179. PUMP. MIFFLIN H. WILDE, Martinsburg, W. Va. Filed Oct. 12, 1926. Serial No. 141,153. 2 Claims. (Cl. 103—7.)



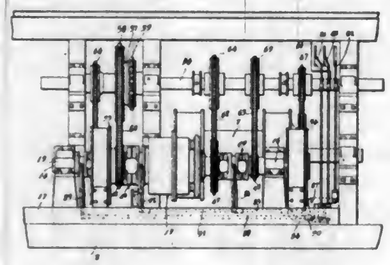
1. A pump comprising a cylinder open at its lower end and having an outlet adjacent its upper end, a head for the upper end of said cylinder, a piston extending through said head into said cylinder and adapted to move fluid into the cylinder through the open lower end thereof and force the fluid through the outlet when the piston is reciprocated, an elbow having one end connected with the lower end of said cylinder, a head removably connected with the other end of said elbow and formed with an inlet opening, an inwardly opening closure for said inlet, a valve controlled air inlet pipe leading from said elbow, and means for reciprocating said piston.

1,667,180. FIREWORKS AND BLANK FOR MAKING THE SAME. WILLIAM HENRY WILLSON, Los Angeles, Calif. Filed Sept. 20, 1926. Serial No. 136,458. 5 Claims. (Cl. 46—46.)



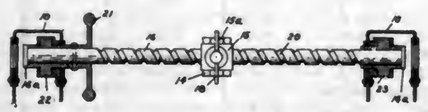
1. A piece of fire works comprising a box-like structure having a chambered base, a peaked roof and walls connecting the base and the roof; said roof having an aperture in the peak, and said base comprising a bottom plate and a floor deck; said deck having an aperture vertically below the aperture in the roof; and an upright powder holding shaft seated on the bottom sheet and extending through both apertures, and said chambered base adapted for the storage of the combustibles to be ignited by fire amanating from said shaft.

1,667,181. DIFFERENTIAL-GEAR MECHANISM. LEWIS E. ZERBE, Moneta, Calif., and MERTON T. ARCHER, Pittsburgh, Pa. Original application filed Apr. 30, 1925, Serial No. 26,880. Divided and this application filed May 11, 1926. Serial No. 108,256. 5 Claims. (Cl. 74—34.)



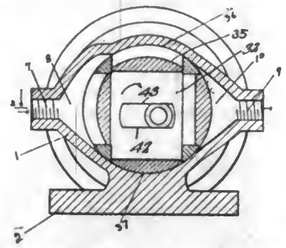
1. In a device of the class described, the combination of a main shaft and bearings therefor, a quill shaft revolvable on the main shaft, differential gearing between said shafts and mounted upon the main shaft, a sprocket wheel revolvable on the quill shaft, a clutch for locking the sprocket wheel thereto, and a plurality of sprocket wheels revolvably mounted on and drivable by the main shaft.

1,667,182. MOUNT FOR GUNS. HARRY C. ZIMMERMAN, Washington, D. C. Filed Oct. 4, 1927. Serial No. 223,923. (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.) 7 Claims. (Cl. 89—41.)



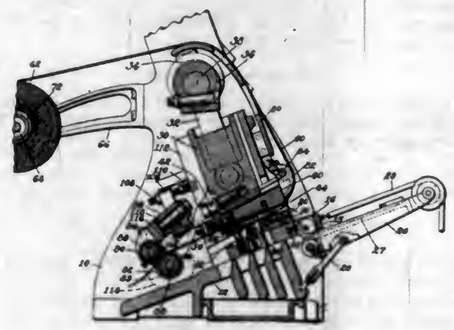
6. In a gun mount, a traversing screw, means for rotating the screw, a pivoted gun-carrying frame movable along the screw and a releasable connection between said frame and screw.

1,667,183. ROTARY PUMP. FRANK ARNOLD and WALTER RANDOLPH, Oakland, Calif. Filed June 1, 1925. Serial No. 33,972. 1 Claim. (Cl. 103—161.)



A rotary pump comprising a casing having an inlet and an outlet, a rotary cage in said casing comprising four frame members arranged so that the outer faces of the same form parts of a cylinder while their inner faces form two diametrical passages arranged transversely to one another, two U shaped elements reciprocable in the passages and arranged so that the legs of either straddle the base of the other and having outer faces complementary to those of the frame members and eccentric means engaging both elements so as to cause the same to reciprocate when the cage is revolved, the latter means comprising a concentric disc mounted with freedom of rotary adjustment and a shaft extending eccentrically therefrom into slots provided in the bases of the U shaped members.

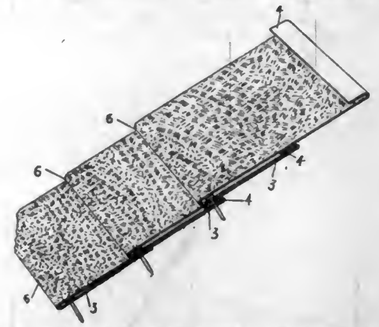
1,667,184. CUTTING MACHINE. MILTON H. BALLARD, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 30, 1925. Serial No. 5,880. 20 Claims. (Cl. 164—89.)



1. In a machine of the character described, a cutting die, a presser member adapted to force the work against the die, said presser member having an adjustable portion with a work-contacting surface, and means co-operating with the adjustable portion of the presser member to prevent overthrow due to changing conditions or a possible looseness of the operating parts, said means being constructed and arranged so that it is unaffected by adjustments of the position of the adjustable portion of the presser member.

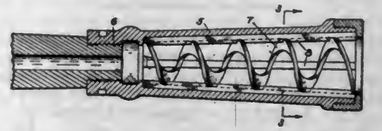
1,667,185. ROOFING SHINGLE. WALTER E. BARTELS, Cincinnati, Ohio. Filed July 26, 1926. Serial No. 124,882. 1 Claim. (Cl. 108—7.4.)

A roofing shingle of flexible type, comprising a body portion, an underturned flange at the lower end of said body portion, said flange being of substantially half the length of said body portion, and a short upturned flange along the upper end of said body portion, said lower flange being adapted to receive a line of nails adjoining the body portion, and said upper and lower flanges being arranged to interlock and being arranged to be so positioned with respect to the next higher shingle when



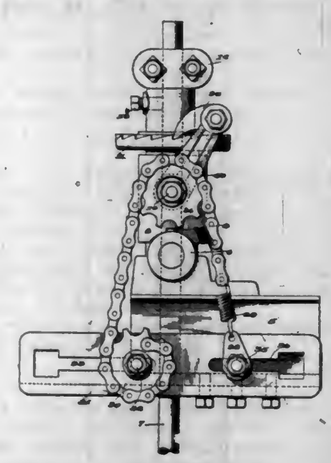
laid, that the line of nails through the lower flange of said higher shingle will engage through the interlocking portions of the lower shingles.

1,667,186. MUZZLE ATTACHMENT FOR GUNS. WILLIAM R. BLUEHDORN, Hartford, Conn. Filed May 31, 1927. Serial No. 195,507. 3 Claims. (Cl. 89—42.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)



3. An attachment for guns embodying a casing and a helical baffle within the casing having an axial bore gradually increasing from rear to front.

1,667,187. POLISHED-ROD ROTATOR. ALEXANDER BOYNTON, San Antonio, Tex. Filed June 29, 1926. Serial No. 119,509. 8 Claims. (Cl. 255—14.)



1. A polished rod rotor comprising a ratchet wheel having a hub provided with means whereby the same may be locked to a polished rod, a crank having a pawl engaged with said ratchet wheel, a sprocket wheel having connection with said crank, and a chain trained about said sprocket wheel for rocking the same.

1,667,188. HAIR CURLER. MAURICE BOXER, San Francisco, Calif. Filed Aug. 31, 1925. Serial No. 53,738. 5 Claims. (Cl. 132—33.)

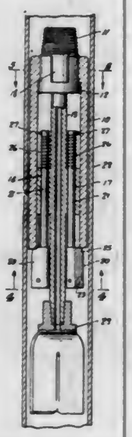


1. A hair curling device comprising a longitudinally split tapered frame on which the hair may be wound, means for resiliently retaining the frame sections together, and means for spreading the frame sections to stretch the hair.

1,667,189. SYNTHETIC RESIN. CHARLES E. BURKE and HORACE H. HOPKINS, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 28, 1927. Serial No. 187,411. 11 Claims. (Cl. 260—2.)

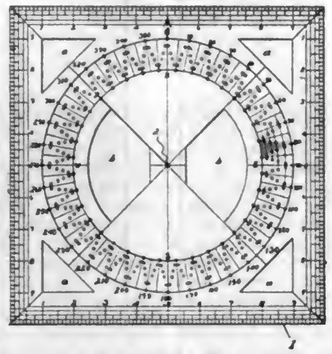
1. The process of producing a synthetic resin which comprises heating to reaction temperature a reaction mass containing pentacrythrite, a polybasic acid and a drying oil acid.

1,667,190. ROTARY UNDERREAMER. STEWART L. CAMPBELL, Berkeley, Calif., assignor to John Grant, Los Angeles, Calif. Filed Feb. 1, 1926, Serial No. 85,126. Renewed Aug. 12, 1927. 23 claims. (Cl. 255—75.)



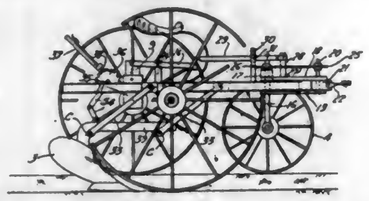
1. A tool of the character described comprising the combination of a body provided with a cutter receiving space, cutters mounted thereon for longitudinal movement and lateral swinging movement about longitudinal axes whereby they may be swung laterally so as to be retracted or so as to be protracted, said body having ways for said cutters whereby the latter are held protracted in a selected longitudinal position, and spring means tending to move said cutters longitudinally into protracted position.

1,667,191. MARINE PROTRACTOR. SAMUEL A. CHAPIN, Seattle, Wash. Filed July 6, 1926. Serial No. 120,850. 1 Claim. (Cl. 33—104.)



A protractor of the class described comprising a square sheet of substantially transparent material having a hole in the center of said sheet, an inner circle marked on said sheet, an outer circle spaced from and concentric with said inner circle, radial lines from one circle to the other indicating the degrees by fives, perforations on said alternate lines at the outer circle, perforations on the remaining lines at the inner circle, and perforations in line from the inner to the outer perforations to indicate divisions of one degree each.

1,667,192. SULKY PLOW. HERBERT J. CLEARY, Topeka, Kans. Filed Nov. 3, 1926. Serial No. 146,034. 2 Claims. (Cl. 97—85.)

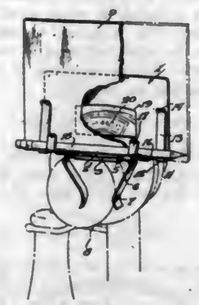


1. In a sulky plow, the combination of a frame mounted on wheels, parallel bars longitudinally and intermediately positioned in the frame, of diagonal bracing between the parallel bars and the sides of the frame, of a plow with its beam centrally positioned relative to the bars, of bars pivoted to the first of said bars and being rearwardly inclined and pivotally connected to the plow beam, and means to raise the plow so that the beam will pass between the first of said bars.

1,667,193. TELEPHONE ATTACHMENT. EDWARD COLEMAN, Oakland, Calif. Filed July 2, 1925. Serial No. 41,221. 1 Claim. (Cl. 45—82.)

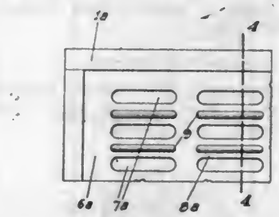
A pencil and memoranda holding attachment for telephones comprising a backing plate, a substantially flat horizontally disposed sleeve member integral with the lower edge of the plate and extending longitudinally

thereof, a resilient clamping member comprising an intermediate portion retained within the sleeve and lateral gripping fingers for embracing the mouthpiece of a tele-



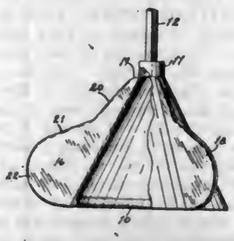
phone transmitter to support the plate in upright position thereon, and pad and pencil holding means upon the plate.

1,667,194. SCREEN FOR SEPARATING ALMONDS AND HULLS. THOMAS JAMES CRAIG and ARTHUR L. SCOFIELD, Merced, Calif. Filed Mar. 3, 1926. Serial No. 91,890. 1 Claim. (Cl. 209—397.)



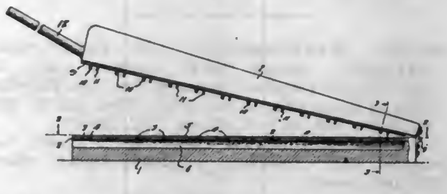
A screen for the purpose noted comprising a thin flat body provided with narrow slits, relatively wide webs between the slits, and upstruck curved ribs on the upper sides of the webs leaving a part of the flat plane of the webs between the edges of the ribs and the edges of the slits.

1,667,195. AGITATOR FOR WASHING MACHINES. HARRY J. CRINER, Clarinda, Iowa, assignor to Clarinda Manufacturing Company, Clarinda, Iowa, a Corporation of Iowa. Filed Mar. 3, 1926. Serial No. 91,934. 2 Claims. (Cl. 259—128.)



1. An agitator for washing machines, comprising a hollow cone-shaped body, a means connected with the upper end of said body for causing a rotary oscillation, and a plurality of independent wings formed on and radiating from said body, the upper portion of each wing being arranged on a substantially straight line diverging outwardly slightly from the body and extending not more than one half the total length of the wing, the lower portion being formed on a relatively large arc to which the base of the cone-shaped body is substantially tangent, whereby currents of liquid are drawn inwardly toward the base of said body when it is rotated and thence upwardly and between said wings.

1,667,196. MACHINE FOR CUTTING OPENINGS FOR FASTENERS IN METAL SHEETS TO BE USED AS FORMS FOR MAKING CONCRETE FENCEPOSTS. JAY DARLING, Williamsport, Ind. Filed Sept. 9, 1927. Serial No. 218,544. 5 Claims. (Cl. 164—91.)



1. In a device for stamping perforations in sheet metal forms for making concrete posts, the combination of a base having a metal strip mounted thereon, said strip having perforations of the required shape to receive the desired type of fasteners, a channel extending longitudinally of the base and directly under the perforated portion of the metal plate, a top hinged to the base at one end, said top having a handle at the other end, and a metal plate affixed to the top, said plate having a series of projections corresponding in shape and position with the perforations in the metal plate carried on the base, the base also being suitably recessed to receive the sheet of metal to be perforated.

1,667,197. WATER-RESISTANT POLYHYDRIC ALCOHOL-CARBOXYLIC-ACID RESIN AND PROCESS OF MAKING SAME. CHARLES R. DOWNS, Cliffside, and LOUIS WEISBERG, Grantwood, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed Dec. 22, 1920. Serial No. 432,408. 46 Claims. (Cl. 260—8.)

3. The process of making a resin which comprises heating a mixture containing a dibasic aliphatic carboxylic acid and a polyhydric alcohol until a water-resistant resin results.

17. A water-resistant polybasic aliphatic carboxylic acid-polyhydric alcohol resin.

1,667,198. WATER-RESISTANT CARBOXYLIC ACID-POLYHYDRIC ALCOHOL RESINS. CHARLES R. DOWNS, Cliffside, and LOUIS WEISBERG, Grantwood, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Original application filed Dec. 22, 1920, Serial No. 432,408. Divided and this application filed Sept. 7, 1921. Serial No. 498,995. 24 Claims. (Cl. 260—8.)

9. A water-resistant tribasic aliphatic carboxylic acid-polyhydric alcohol resin.

1,667,199. WATER-RESISTANT CARBOXYLIC ACID-POLYHYDRIC ALCOHOL RESIN. CHARLES R. DOWNS, Cliffside, and LOUIS WEISBERG, Grantwood, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Original application filed Dec. 22, 1920, Serial No. 432,408. Divided and this application filed Sept. 7, 1921. Serial No. 498,996. 12 Claims. (Cl. 260—8.)

9. A water-resistant resin such as can be obtained from malic acid and a polyhydric alcohol.

1,667,200. WATER-RESISTANT CARBOXYLIC ACID-POLYHYDRIC ALCOHOL RESIN. CHARLES R. DOWNS, Cliffside, and LOUIS WEISBERG, Grantwood, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Original application filed Dec. 22, 1920, Serial No. 432,408. Divided and this application filed Sept. 7, 1921. Serial No. 498,997. 12 Claims. (Cl. 260—8.)

1. A water-resistant succinic acid-glycerol resin.

2. The process of making a resin, which comprises heating succinic acid and a polyhydric alcohol for about 20 hours between 170° and 200° C., then below 135° C. for about 10 hours, then between 170° and 250° C. until a water-resistant resin results.

1,667,201. WEATHERPROOF AND DECAY-PROOF MATERIAL. DOZIER FINLEY, Berkeley, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Aug. 6, 1923, Serial No. 656,125. 11 Claims. (Cl. 91—68.)

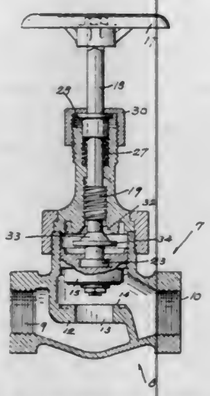
1. A sheathing material comprising a fibrous base saturated with a compound comprising asphalt, stearin pitch and creosote.

1,667,202. METHOD OF MANUFACTURING PISTONS. HENRY FORD, Dearborn, Mich. Filed Apr. 22, 1926. Serial No. 103,952. 4 Claims. (Cl. 29—156.5.)



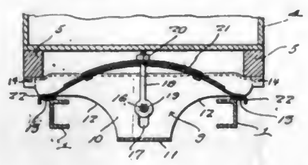
2. The method of manufacturing pistons which consists in forming a head of relatively thick material, said head having an annular flange adjacent to its lower edge, forming a tubular skirt of thinner material, and butt welding the edge of the skirt to the flange, the cross section of the flange and skirt adjacent to the weld being substantially the same.

1,667,203. VALVE. ERNEST C. HARRIS, Denver, Colo. Filed Oct. 4, 1926. Serial No. 139,501. 1 Claim. (Cl. 251—50.)



In a device of the character described, a pipe section having a partition with a diametrical perforation, a radial extension of the pipe arranged coaxially with the perforation, a cap on said extension, means for holding the cap in place, a valve stem threaded into the cap and having a valve revolvable on its lower end adapted to be seated on the rim of the perforation when the stem is threaded inwardly, a tapered annular rib extending from the cap and forming a valve seat, and a second valve fixed on the stem adapted to engage said seat when the stem is threaded outwardly, the second valve comprising a tapered section adapted to recede into the rib and a disc bearing on the rib.

1,667,204. TRUCK-BODY MOUNTING. CHARLES B. HUGHES, Cherrydale, Va. Filed Aug. 23, 1926. Serial No. 130,948. 3 Claims. (Cl. 296—35.)



1. Means for mounting a vehicle body on a vehicle chassis, comprising means securing the body at a pair of spaced points to said chassis, and resilient means connecting the body with the chassis at a third point spaced from the first mentioned pair of points and normally and yieldly retaining said body in engagement with said chassis at points at opposite sides of and spaced from the said third point.

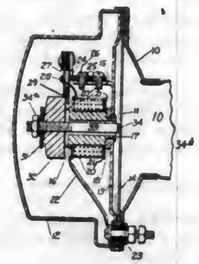
1,667,205. ARTIFICIAL JAWS. GUSTAV FRED INGWERSEN, Denver, Colo. Filed May 29, 1924. Serial No. 716,713. 2 Claims. (Cl. 35—16.)



1. As a new article of manufacture, an artificial mouth structure for taxidermal use, comprising two members simulating the jaws of an animal inclusive of the tissues and the teeth, and a member simulating the tongue of the animal, the members being immovably fixed together in their natural open position.

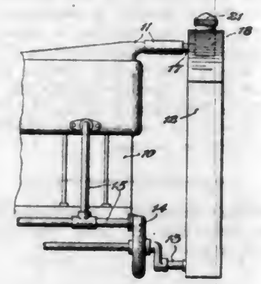
1,667,206. SIGNALING DEVICE. OTTO KERSTEN, Highland Park, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Delaware. Filed Jan. 29, 1923. Serial No. 615,547. 1 Claim. (Cl. 177—7.)

In an electric signaling device, a disc shaped diaphragm, a dished disc attached thereto, said disc having a central opening therein and having a second opening adjacent thereto formed by punching a tongue out of said disc and causing the tongue to extend at an angle to the body of said disc, a U shape yoke member having a central opening therein adapted to register with the opening in said disc, a hollow magnet core member having a sleeve extended therefrom, said sleeve being extended through the openings in the disc and yoke and riveted over to secure said members together, a coil mounted on said core, a spring member extended between the ends of said yoke, a relatively heavy armature member disposed between the coil and spring member, a striker bar adjustably mounted in said armature and extended through the coil and disc to position to actuate the diaphragm, means for securing the striker bar to the spring member, a unitary preassembled make and break structure adjustably mounted on said tongue in position to be



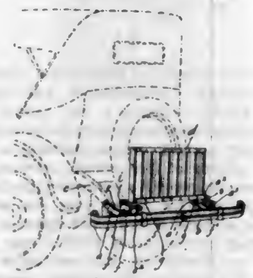
actuated by the armature, and means for including the coil and make and break structure in an electric circuit to actuate the signaling device.

1,667,207. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JAMES A. KINNARD, Detroit, Mich., assignor to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Apr. 14, 1927. Serial No. 183,891. 15 Claims. (Cl. 236—34.)



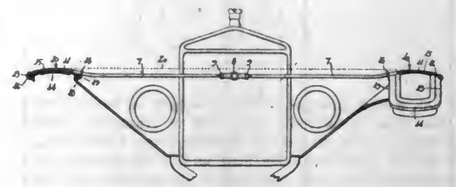
1. In a cooling system for internal combustion engines, in combination with a radiator provided with a filler opening, a thermostatically-operated valve mechanism insertible into the radiator through the filler opening and adapted to determine the circulation of water through the radiator.

1,667,208. PIVOTED LUGGAGE CARRIER. FRANK J. LAHER, Portland, Oreg. Filed Feb. 26, 1925. Serial No. 11,764. 8 Claims. (Cl. 224—29.)



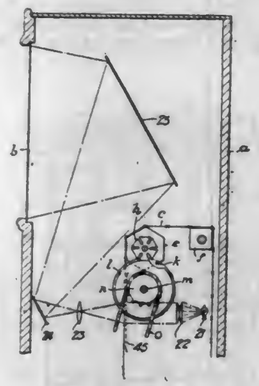
8. A luggage carrier attachment for vehicles provided with longitudinally extended carrying members, comprising a rack and means for supporting the rack on said carrying members, said means including L-shaped brackets having one arm pivotally connected to said supporting means respectively and the other arm secured longitudinally adjustable to the rack adjacent the lateral sides thereof.

1,667,209. TRUSS ROD. JESSE D. LANGDON, Los Angeles, Calif., assignor to Petroleum Machinery Development Corporation, Reno, Nev. Continuation of application Serial No. 672,619, filed Nov. 3, 1923. This application filed Aug. 17, 1925. Serial No. 50,691. 2 Claims. (Cl. 280—152.)



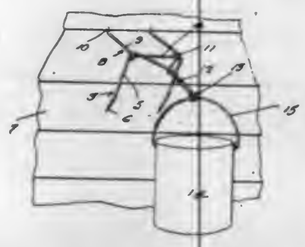
1. A truss rod having curved portions to extend across objects and terminal hooks to engage the outer edges of said objects, said rod having means between said portions for contracting the rod lengthwise so as to tension the rod, and hook members slidable on the rod to engage the inner edges of said objects and so arranged that the straightening out effect of the rod, when tensioned, between said curved portions will draw said members tighely into engagement with said inner edges of the objects.

1,667,210. ADVERTISING DEVICE. KARL OSCAR LEON, Lidkoping, Sweden. Filed Feb. 4, 1925, Serial No. 6,878, and in Great Britain Feb. 8, 1924. 5 Claims. (Cl. 88—28.)



1. An advertising device, comprising a casing, an intermittently moving carrier divided into sections some of which bear advertising matters and other of which are left blank, means for projecting an image of each section of the carrier in turn, a clock unit the time indicating parts of which are normally in an inoperative position in relation to the projecting means, and means for effecting the projection of an image of said time indicating parts only when a blank section of the carrier is in projecting position in relation to the projecting means.

1,667,211. BUCKET HANGER. FLOYD F. LIGHT, Beckley, W. Va. Filed Aug. 22, 1927. Serial No. 214,635. 2 Claims. (Cl. 248—24.)

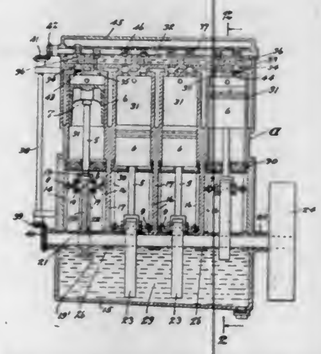


1. As a new product of manufacture, a bucket hanger of the class described comprising a frame-like member including a pair of spaced parallel arms terminating at one end in right-angularly bent anchoring prongs, having intermediate eyes, and provided at its opposite end with a suspension hook, and a substantially U-shaped prop, whose bight portion is extended through said eyes.

1,667,212. ENAMEL FOR COATING CANS. ROGER H. LUECK, Oak Park, Ill., assignor, by mesne assignments, to the Public of the United States of America. Filed Mar. 23, 1926. Serial No. 96,880. 2 Claims. (Cl. 134—39.)

1. An enamel for coating cans which are to contain food products, consisting of a substantially neutral oleoresin varnish substantially free from lead and having incorporated therein an insoluble metallic compound of such metal or metals forming sulphides which are not dark colored, so that said compound is permanently embodied in the enamel and held in place on the inside of the container during processing and subsequent thereto.

1,667,213. INTERNAL-COMBUSTION MOTOR. PAUL MARCHETTI, Stockton, Calif., assignor to Marchetti Motor Patents, Incorporated, a Corporation of Nevada. Filed June 2, 1925. Serial No. 34,374. 2 Claims. (Cl. 74—14.)

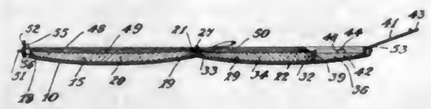


2. In a device of the type described, a piston, a piston rod rigidly secured to said piston, a pair of guide grooves for said piston rod, a rotatable member having a double cam groove therein, ball-bearings disposed in said grooves, adjustable means carried by said rod for moving said ball-ball-bearings into the grooves, ball-bearings disposed in said first named rod guiding grooves, cups for receiving said last named ball-bearings, and being adjustably connected to said piston.

1,667,214. CONDENSATION PRODUCT FROM OLEFINES AND HYDROCARBONS OF THE NAPHTHALENE SERIES AND PROCESS OF MAKING THE SAME. RICHARD MICHEL, Uerdingen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 21, 1927, Serial No. 200,500, and in Germany Feb. 4, 1926. 7 Claims. (Cl. 260—168.)

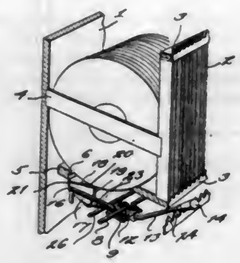
1. Process which comprises reacting with olefines upon hydrocarbons of the naphthalene series, in the presence of a catalytically active metallic halide, under conditions of elevated temperature over 50° C. and superatmospheric pressure.

1,667,215. CONTAINER. ALBERT E. MULLEN, New York, N. Y. Filed Apr. 16, 1927. Serial No. 184,332. 5 Claims. (Cl. 132—83.)



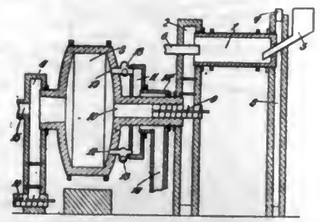
3. In a container, in combination, a bottom member, a removable tray compact holder within the bottom member spaced from one end thereof, a top member hingedly attached to the bottom member, a removable tray compact holder within the top member, a removable tray rouge holder within the top member, spaced from one end thereof, means within the bottom member guiding the top member and bottom member during the closure of the device and a metallic mirror carried by the top and bottom hinge capable of covering the interior of the top member and bottom member.

1,667,216. RECORD CABINET. FERDINAND NIGRA, San Antonio, Tex. Filed Jan. 22, 1926. Serial No. 83,101. 9 Claims. (Cl. 312—19.)



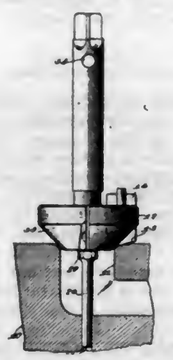
1. The combination with a cabinet for disc records or the like, divided into compartments, and each of said compartments wholly receiving a disc record of the like therein, a pivotally supported spring influenced dog in each compartment serving as an obstruction to prevent the withdrawal of any of the records, latching means for holding the dogs in record obstructing position, means, slidable longitudinally on the cabinet and swingable to engage with a selected record, and likewise engageable with the latching means of the holding dog in the said compartment, to permit of the withdrawal of such record, means for locking the latching means in such position and for sustaining the latching means out of engagement with the dog, whereby the withdrawn record may be reinserted in only its proper compartment, and releasing means for the locked ejecting means, permitting the latter to return to normal position and to release the latching means to allow its reengagement with the dog.

1,667,217. METHOD OF OBTAINING VALUABLE PRODUCTS FROM COMBUSTIBLE MATERIALS. ADAM HELMER PEHRSON, Stockholm, Sweden, assignor to Dunford & Elliott (Sheffield) Limited, Sheffield, England. Filed Aug. 13, 1923, Serial No. 657,242, and in Sweden Aug. 19, 1922. 8 Claims. (Cl. 202—8.)



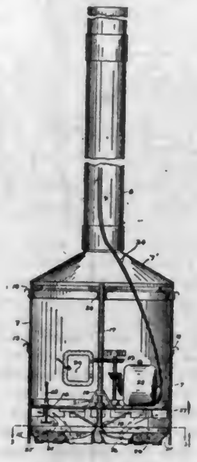
1. In a rotating or oscillating chamber the method of heat treating solid carbonaceous material which consists in continuously introducing the material into the chamber through an opening in one end thereof, tumbling, rolling or agitating the material by the actuation of said chamber, introducing gaseous fluid beneath the surface of the material thereby heating the same, maintaining the depth of the material uniform throughout said chamber and at such a depth that said gaseous fluid is caused to thoroughly permeate said material throughout its mass and removing the residues or product through an opening in the opposite end of said chamber to that at which the material enters.

1,667,218. TOOL FOR PLANING VALVE SEATS. THEODORE S. PURNIS, Aberdeen, S. Dak., assignor to The K. O. Lee & Son Company, Aberdeen, S. Dak., a Corporation of South Dakota. Filed July 1, 1926. Serial No. 119,909. 1 Claim. (Cl. 90—12.5.)



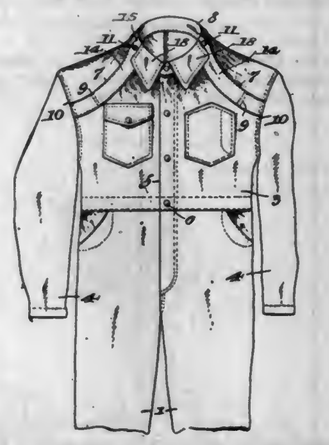
A device of the character described for planing the passage in a cylinder block having a valve seat in the outer end of the passage and comprising a cutter head having a cylindrical upper portion and a conically shaped lower portion, said conically shaped head being provided with vertical slots disposed radially, each slot opening through the outer wall of the head with the inner wall of the slot being located adjacent the center, a cutter blade mounted in each radial slot, said head being provided with a passage slanting into each vertical slot at one side thereof, a pin forced into each slanting passage and provided with an inclined face engaging a cutter blade for forcing the cutter into engagement with the rear wall of the vertical slot, means for rotating the cutter head, one of the cutter blades being adapted to be disposed within the passage in the cylinder block and adapted to plane the wall of the passage simultaneously with the planing of the valve seat by the other cutter blade.

1,667,219. DREDGING APPARATUS. JOHN REAM, Sacramento, Calif. Filed Nov. 29, 1926. Serial No. 151,314. 7 Claims. (Cl. 37—58.)



1. Dredging apparatus comprising a cylindrical watertight casing, a vertical shaft revolvably supported therein and extending through the bottom thereof, a propeller-like fan mounted on the lower end of said shaft, means within the casing for driving said fan and an annular receptacle surrounding the fan adapted to receive material drawn through the fan upon revolving the same.

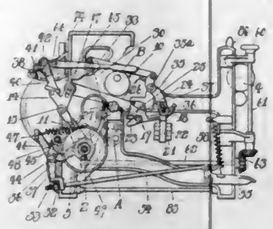
1,667,220. UNION GARMENT. JACOB RIPKIN, Wilkes-Barre, Pa. Filed Aug. 10, 1925. Serial No. 49,308. 1 Claim. (Cl. 2—79.)



A union outer garment or overalls comprising a blouse and leg or pants parts, the blouse having an open front from its neck downwardly and provided with suitable fastening means therefor, and being provided forward of

its shoulder parts below the crests of said shoulder parts with vents extending downwardly in general diagonal arrangement from the neck to the general region of the junction of the sleeves with the blouse below the crests of the shoulder parts, the blouse and the shoulder parts being provided with overlapping parts at the vents, and means for fastening the overlapping parts together.

1,667,221. LET-OFF FOR LOOMS. KYUGORO SAKAMOTO, Hamamatsu, Japan. Filed Mar. 13, 1926, Serial No. 94,463, and in Japan Apr. 18, 1925. 5 Claims. (Cl. 139—108.)

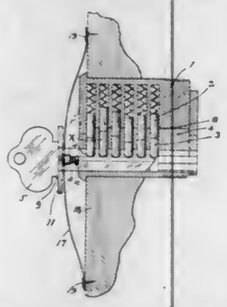


1. A warp tension regulating means for looms comprising the combination of a brake member arranged to restrain the free rotation of the warp beam with a guide roll pivoted on a lever which rocks in accordance to the up-and-down motion of the guide roll due to tension of the warps, a cam lever pivoted on the loom frame having a weight which slides along the lever in connection with the variation in diameter of the warp beam, and a three armed lever each arm of which being respectively connected with the aforesaid three members, that is to say, the brake member, the guide roll, and the cam lever, in such a manner that the motion of the cam lever due to the decrease in the diameter of the warp beam or the motion of the guide roll due to the abnormal tension of the warps, makes the brake member to release its brake effect on the warp beam.

1,667,222. DRESSING. ERNEST J. SCHELLING, Toledo, Ohio. Filed Jan. 12, 1925. Serial No. 1,948. 1 Claim. (Cl. 134—11.)

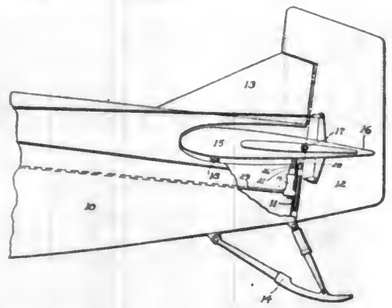
A brake band dressing composed of approximately 95% castor oil and 5% lard oil by volume.

1,667,223. LOCK DEVICE. HIRAM R. SIMPSON, San Francisco, Calif. Filed Sept. 28, 1926. Serial No. 138,141. 10 Claims. (Cl. 70—9.)



1. Apparatus for releasing a pin tumbler lock of the character described which comprises a slug key provided with substantially uniform notches to receive the tumblers and adapted for longitudinal movement into the key slot beyond the seating position of the tumblers in the notches.

1,667,224. AIRPLANE STABILIZER. CHARLES J. SMITH, Dearborn, Mich., assignor to Ford Motor Company, Detroit, Mich. Filed Dec. 27, 1926. Serial No. 157,341. 1 Claim. (Cl. 244—29.)



In a device of the character described, a fuselage having a tail post at the rear end thereof, said fuselage having a horizontal longitudinal slot therethrough adjacent to said tail post, a stabilizer plane extended through said slot and pivotally mounted adjacent to its forward end within said slot, and means secured to said tail post and coacting with said stabilizer plane to adjust that stabilizer plane about its pivot, the pivotal mounting and the adjusting device both being disposed substantially within the lines of the fuselage whereby the said parts may not increase the wind resistance of the stabilizer plane materially.

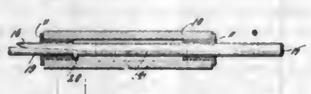
1,667,225. MANUFACTURE OF NEW SULPHONIC DERIVATIVES OF UNSATURATED FATTY ACIDS. ALFRED THAUSS, Cologne-Deutz, GUSTAV MAUTHE, Cologne-Muhlheim, and ALFRED GÜNTHER, Cologne-Riehl, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1926, Serial No. 156,266, and in Germany Dec. 22, 1925. 9 Claims. (Cl. 260—159.

1. A process for making sulphonic acids of unsaturated fatty acids aralkylated on a carbon atom which comprises reacting an aralkyl halogenide with an unsaturated fatty acid and treating the resultant product with a sulphonating agent.

1,667,226. PROCESS FOR THE PREPARATION OF SULPHONIC ACIDS OF ARALKYLATED UNSATURATED FATTY ACIDS. ALFRED THAUSS, Cologne-Deutz, GUSTAV MAUTHE, Cologne-Muhlheim, and ALFRED GÜNTHER, Cologne-Riehl, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 17, 1927, Serial No. 176,300 and in Germany Apr. 24, 1926. 5 Claims. (Cl. 260—108.)

1. Process which comprises reacting an aralkyl halogenide with a glyceride of an unsaturated fatty acid and sulphonating the product.

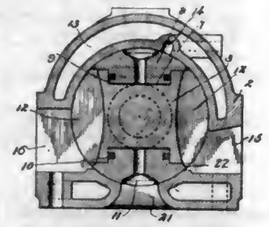
1,667,227. BUSHING REMOVER. ELBERT I. THOMPSON, Osage City, Mo. Filed Dec. 28, 1925. Serial No. 78,010. 1 Claim. (Cl. 29—88.2.)



A bushing remover comprising a driving bar of cylindrical form and uniform diameter for the major portion of its length, the bar at one end being recessed in one

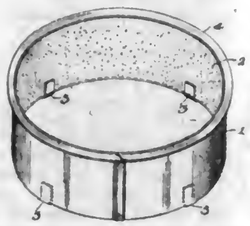
side to provide a flat face inclined with respect to the axis of the bar and a shoulder at the inner end of the face extending substantially at right angles to the axis of the bar, and a key having a transversely arcuate side of the same curvature as the bar and a flat side extending its entire length and inclined with respect to the axis of the bar and to the same degree as the face of the bar, the said key having its inner end transversely flat to engage the shoulder of the bar, and an eccentric outstanding flange at the inner end of the arcuate side of the key to engage the end of a bushing into which the said end of the bar and the key are inserted.

1,667,228. ROTARY VALVE. WILLIAM D. TIPTON, Baltimore, Md. Filed July 25, 1923. Serial No. 653,799. 2 Claims. (Cl. 123—190.)



1. In an internal combustion engine, in combination with the cylinder, a valve chamber having an inlet port, exhaust port and cylinder port, of a rotary valve positioned within said valve chamber, comprising a body portion provided with circular pockets, shoe members slidable radially mounted piston tight in the circular pockets of said body portion, the said shoe members having ports arranged to register with the cylinder port on the compression and expansion stroke of the engine.

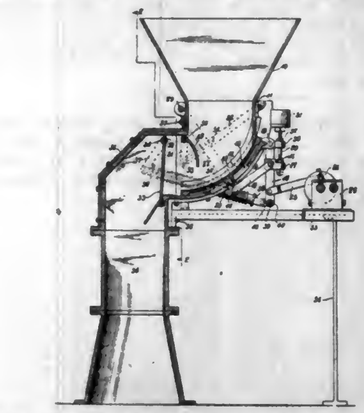
1,667,229. KINDLER HOLDER FOR WICKS. HAROLD EUGENE TREWORGY, Brunswick, Me. Filed Feb. 17, 1927. Serial No. 168,989. 2 Claims. (Cl. 67—69.)



1. The combination with a heating device, of a kindler holder, of a wick held in position by the kindler holder, of means for easily removing the kindler holder and wick from the heating device, consisting of a flange portion extending laterally of the holder, means for maintaining the wick in operative relationship with the holder, consisting of lug portions integrally a part of the holder and bent inwardly and upwardly thereof.

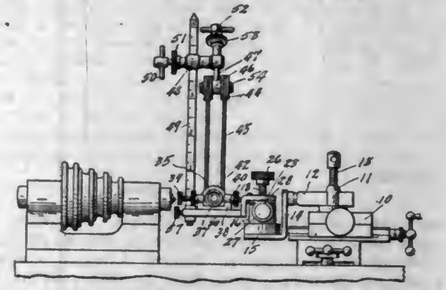
1,667,230. STOKER AND THE LIKE. WILBURT WARD, Forest, Ohio. Filed June 20, 1927. Serial No. 199,933. 11 Claims. (Cl. 198—226.)

1. A stoker comprising in combination, an oscillating feeder, driving means for said feeder comprising a pivoted arm, a block slidable on said arm, a link connected to said feeder and said block, means to preserve the position of said block on said arm during normal operation of the



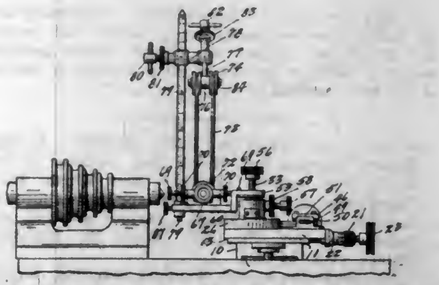
feeder, said last-named means yielding to permit said block to slide when the feeder is stalled during oscillation of the arm and means to oscillate the arm.

1,667,231. ATTACHMENT FOR PIVOT POLISHERS. JAMES P. WOOD, Bastrop, Tex. Filed Sept. 12, 1925. Serial No. 55,983. 3 Claims. (Cl. 51—259.)



1. In a pivot polisher attachment, a post supporting bar, a tubular post fixed thereon, a spindle support having an interiorly threaded shank disposed within the bore of said post, a screw threaded through said shank to vertically adjust the same and retained in said bar against axial movement, a spindle carrying a polishing tool mounted upon the spindle support, and driving means for the spindle carried by said support.

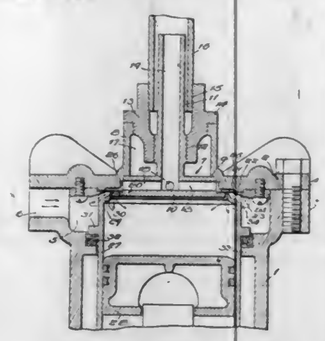
1,667,232. PIVOT POLISHER. JAMES P. WOOD, Bastrop, Tex. Filed Sept. 12, 1925. Serial No. 55,984. 5 Claims. (Cl. 51—259.)



1. In a pivot polisher, a supporting slide, a vertical tubular post having an enlarged base rotatably confined

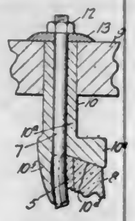
on the slide, the post having an axial bore, a bracket for supporting a pivot polisher and having a cylindrical shank disposed within said axial bore, a vertical adjusting screw threaded into said shank and extending axially of the bore of the post and rotatably confined therein against vertical movement, and means for rotatably adjusting the post.

1,667,233. COMPRESSOR. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 14, 1927. Serial No. 183,652. 21 Claims. (Cl. 230—179.)



1. In a device of the class described, a cylinder having a head therefor, a valve sleeve in said cylinder, a piston in said sleeve, an annular plate secured at its outer margin to said head, a circular plate secured to said head, said plate having a flange extending radially outward beyond the inner edge of the annular plate to form a valve seat engaged by the inner margin of said annular plate, said valve sleeve being adapted to engage the annular plate and form a pneumatic seal in conjunction therewith.

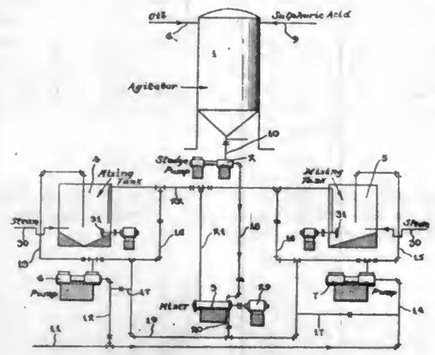
1,667,234. FLUME CONSTRUCTION. RUSSELL E. BARNARD, Denver, Colo., assignor to The R. Hardesty Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Mar. 1, 1927. Serial No. 171,785. 6 Claims. (Cl. 61—15.)



1. As a new article of manufacture, an abutment sleeve for flume structures comprising a tubular body member, and at an end thereof, an integral lateral projection having a wedging surface slanting relative to the axis of the body member.

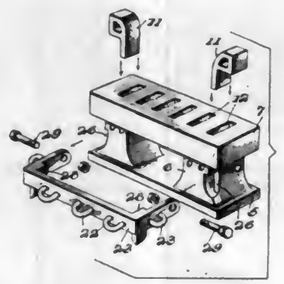
1,667,235. APPARATUS FOR MIXING SLUDGE. ROBERT BEATTIE, Fort Worth, Tex., assignor to Texas Pacific Coal and Oil Company, Fort Worth, Tex., a Corporation of Texas. Original application filed June 6, 1927, Serial No. 196,901. Divided and this application filed Nov. 29, 1927. Serial No. 236,556. 7 Claims. (Cl. 44—2.)

1. An apparatus of the character described, including a sludge tank, a mixing tank, a mixer, a sludge pump and a second pump for forcing a mixture of liquid hydrocarbons and neutralizing agent, and valve pipes connecting said elements in such manner that the second pump may circulate such mixture through the tank without



passing through the mixer, and whereby both pumps may circulate the sludge and mixture through the mixer and mixing tank.

1,667,236. ANVIL FOR BIT-DRESSING HAMMERS. CHARLES H. BERGQUIST, Okmulgee, Okla., assignor of one-half to Emery A. Locke, Okmulgee, Okla. Filed Feb. 23, 1926. Serial No. 90,076. 2 Claims. (Cl. 78—7.)



1. An anvil comprising a body having a head provided with openings extending therethrough, and stop members having shanks received in said openings, the opposed inner sides of the stop members being inclined outwardly to form a vertical gradually restricted entrance opening to the space between the stop members, said stop members being provided with laterally projecting heels on the outer sides thereof to engage the adjacent portion of the anvil to brace the stop members against lateral pressure and to limit the entrance of the shanks into said openings.

1,667,237. PROCESS FOR THE PREPARATION OF ORGANIC ARSENIC COMPOUNDS. ARTHUR BINZ, Berlin, and CURT RÄTH, Rangsdorf, Germany. Filed July 18, 1926, Serial No. 122,265, and in Germany July 22, 1925. 3 Claims. (Cl. 260—15.)

1. Process for the preparation of organic arsenic compounds containing the group —As—As— which comprises condensing an arsine of the formula $R—AsH_2$ with an arsine compound of the general formula $R_1—AsX$ wherein X represents oxygen or two halogens in the presence of a reducing agent, which is capable of reducing arsonic acids to arseno compounds, R and R_1 being similar or dissimilar aliphatic, isocyclic or heterocyclic radicals.

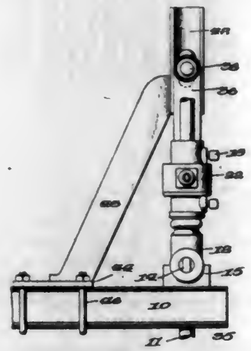
1,667,238. METHOD FOR THE REDUCTION OF ARSONIC ACIDS. ARTHUR BINZ, Berlin, and CURT RÄTH, Rangsdorf, Germany. Filed July 18, 1926, Serial No. 122,267, and in Germany July 22, 1925. 4 Claims. (Cl. 260—15.)

1. Method for the reduction of arsonic acids not condensing with addition products of sulphoxylic acid which comprises treating said acids with addition products of sulphoxylic acid.

1,667,239. ALKYL DERIVATIVES OF DIPHENOLISATINE AND PROCESS FOR MAKING SAME. ANDRÉ BLANKART, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y., a Corporation of New York. Filed July 7, 1927, Serial No. 204,150, and in Switzerland Oct. 9, 1926. 5 Claims. (Cl. 260—47.)

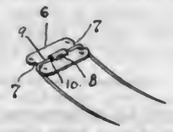
1. As new products the alkyl derivatives of diphenolisatine which may be produced by treating diphenolisatine with an alkylating agent, the new products being crystallizing, neutrally reacting, very constant compounds showing with ferricyanate or potassium and a solution of sodium hydroxide no colour-reaction, and being insoluble in water, alkali and acids, but dissolving easily in the usual organic solvents, alcohol, benzol, concentrated acetic acid and the like.

1,667,240. POLISHED ROD ROTATOR. ALEXANDER BOYNTON, San Antonio, Tex. Filed June 19, 1926. Serial No. 117,193. 5 Claims. (Cl. 255—14.)



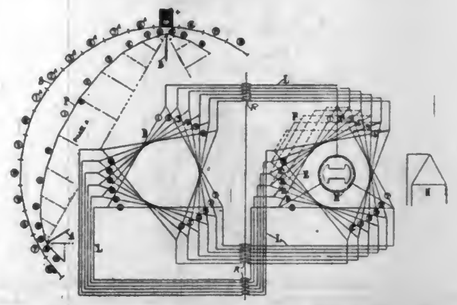
1. A polished rod rotator comprising a body having means whereby the same may be connected to a polished rod, an intermittent turning device associated with the body, an arm connected to the turning device, a member rotatably and slidably connected to the arm, and an actuator to which said member is slidably connected.

1,667,241. PAPER-MARKER FASTENER. MACIEJ BUDNY, Garfield Heights, Ohio. Filed Nov. 23, 1923. Serial No. 676,534. 3 Claims. (Cl. 24—150.)



1. A paper marker fastener comprising a pair of prongs joined at sharp right-angles by an integrally formed straight cross bar of a length less than the length of said prongs, said prongs having elongated points and being bent to uniform curvature upon a long radius.

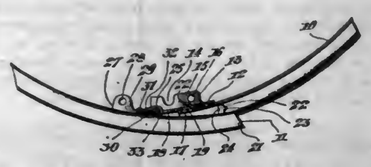
1,667,242. ELECTRIC CONVERTING APPARATUS. JOHN EARNSHAW CALVERLEY, Preston, and WILLIAM EDEN HIGHFIELD, London, England, assignors to The English Electric Company, Limited, London, England. Filed Nov. 12, 1925, Serial No. 68,588, and in Great Britain Dec. 10, 1924. 8 Claims. (Cl. 171—123.)



1. A polyphase transforming arrangement comprising a set of windings forming an electrically symmetrical closed ring and connected to commutating gear, by-pass circuits arranged in connection with the said set of windings and including coils grouped together on transformer cores to form an auxiliary transforming arrangement, the grouping being such that the by-pass circuits offer a relatively low impedance to harmonic currents and a relatively high impedance to currents of fundamental frequency, substantially as and for the purpose set forth.

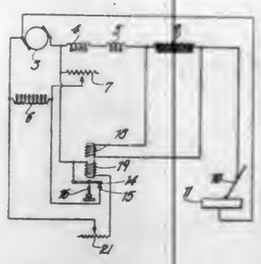
2. A polyphase transforming arrangement comprising a set of windings forming an electrically symmetrical closed ring and connected to commutating gear, an auxiliary transforming arrangement consisting of a polyphase transformer core structure and coils thereon, by-pass circuits arranged in connection with the sections of the said closed ring winding, the said by-pass circuits including coils on the auxiliary transformer the said coils being so formed as regards their respective number of turns and so grouped as regards their respective phases that the total number of ampere turns acting on any one core of the auxiliary transformer due to the by-pass current at any instant is approximately zero, substantially as described.

1,667,243. WHEEL-RIM LOCKING AND CONTRACTING APPLIANCE. ANGUS CAMERON, Summerstown, Ontario, Canada, assignor of fifty-two one-hundredths to William Douglas Knight, Cornwall, Ontario, Canada. Filed June 12, 1926. Serial No. 115,661. 2 Claims. (Cl. 301—30.)



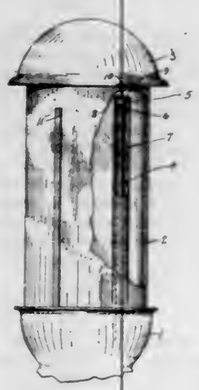
1. The combination with a transversely split tire supporting rim, of a locking plate rigidly secured on one side of the split and extending across the split and having an opening therein, a swingingly mounted hook on the opposite side of the split to the locking plate engaging the opening therein to hold the rim contracted.

1,667,244. ELECTRIC-WELDING APPARATUS. ALEXANDER CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., Hoboken, N. J., a Corporation of New York. Filed Nov. 8, 1926. Serial No. 147,145. 7 Claims. (Cl. 219—8.)



1. In combination with a direct current generator having a shunt field and a rheostat in the circuit thereof, said generator being adapted to supply current to a welding circuit, means responsive to the opening of the welding circuit and to sub-normal open-circuit voltage at the brushes of the generator for short-circuiting said rheostat.

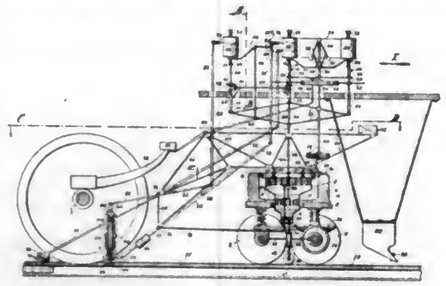
1,667,245. DISPENSING RESERVOIR. EMORY CROUSE, Wichita, Kans. Filed Dec. 27, 1921. Serial No. 524,903. 8 Claims. (Cl. 221—100.)



1. In a liquid dispenser, the combination with a container having an overflow pipe terminating in the upper portion thereof, of a supply pipe extending upwardly into the container, and having its outlet opening at least as high as the top of the overflow pipe, and a housing enclosing said supply pipe, said housing being opened at the bottom and having a vent opening in its top.

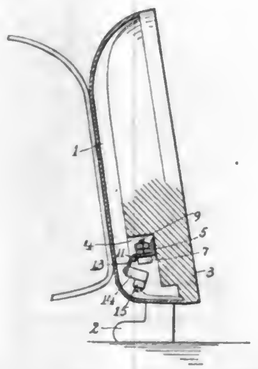
1,667,246. RAILWAY-TRACK INSPECTION APPARATUS. HANS DREYER, Munich-Harlaching, Germany. Filed Mar. 26, 1926, Serial No. 97,805, and in Germany Nov. 17, 1924. 6 Claims. (Cl. 234—1.)

1. In apparatus for recording railway track imperfections, the combination with a suitable carrier vehicle of an auxiliary recorder carriage located intermediate the wheels of said vehicle, recorder supporting means supported by universal joint connections from said recorder carriage, recording tape operating drums supported by said recorder supporting means, recording means cooperating with said tape, means cooperating with the track to be operated by imperfections therein, and operating



connections between such track cooperating means and the recording means, said track cooperating and recorder operating means being supported from said recorder supporting means.

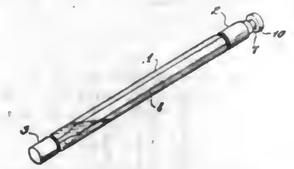
1,667,247. ELECTRIC SWITCH. JOHN J. EGAN, Boston, Mass., assignor to William L. Collins, Boston, Mass. Filed Mar. 25, 1926. Serial No. 97,272. 1 Claim. (Cl. 200—52.)



In a gravity switch for electric flat irons having a heel rest, the combination with the flat iron, of a vertical plate attached to the flat iron, two spaced insulated contacts attached to said plate, a second plate having an angularly disposed flange hinged at its edge to the upper edge of said vertical plate, and a single elongated contact member attached to the second plate to normally rest against said spaced contacts, the latter being terminals in the heater circuit of the flat iron, whereby the center of gravity of the second plate and its contact member is materially beyond a vertical plane through said hinge, and gravity cannot break the circuit until the flat iron is tipped nearly upon its heel rest.

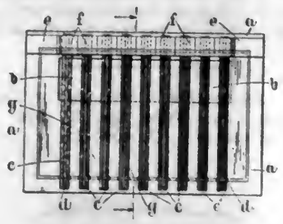
1,667,248. CLINICAL THERMOMETER AND STERILIZING CASE. LOGAN EISELE, Nashville, Tenn. Filed Aug. 31, 1926. Serial No. 132,757. 2 Claims. (Cl. 206—16.5.)

1. A case of the class described, comprising a tubular body of glass, and ends of metal, the ends of the body and the interior of the metal ends shaped to provide a friction fit to hold the ends in place, one of the ends having an axial bore to receive a clinical thermometer,



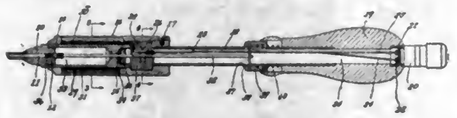
the thermometer having a plug formation shaped to frictionally fit the bore whereby to hold the thermometer in place in the bore.

1,667,249. APPARATUS FOR COMPARING THE COLOR OF LIQUIDS BY REFLECTED AND TRANSMITTED LIGHT. HENRY AUGUSTUS ELLIS, London, England, assignor to The British Drug Houses, Limited, London, England, a Corporation of Great Britain. Filed Feb. 25, 1925, Serial No. 11,451, and in Great Britain Nov. 12, 1924. 7 Claims. (Cl. 88—14.)



1. A device for comparing the colour of translucent objects by reflected and transmitted light simultaneously comprising a base of suitable material having a reflecting surface; an opening formed therein; a translucent object of standard colour secured thereto in a position to allow light reflected from the surface of said base and transmitted through the opening therein to pass through said translucent standard and an object placed next it to be compared therewith substantially as set forth.

1,667,250. ELECTRIC SOLDERING IRON. WALTER ENSDORF, New York, N. Y., and JOHANNES SANDBERG, Elizabeth, N. J. Filed Mar. 23, 1927. Serial No. 177,528. 2 Claims. (Cl 219—27.)



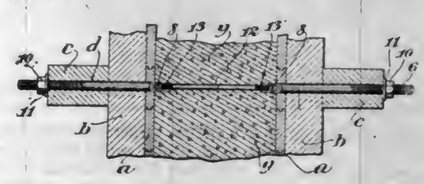
1. A device of the class described comprising a soldering head having a passageway therein, a cylindrical hollow body split into two sections, a semi-circular cover and an additional semi-circular member, a cylindrical removable reservoir in said body having the soldering head engaged therewith, a hollow stem extending from said body, a handle on said stem, removable blocks in said body having terminal posts thereon, a heating unit encircling said reservoir, a plunger in said stem and reservoir slidable therein, a packing in said reservoir, and a sleeve mounted slidably on said stem connected to said plunger for retracting the same.

1,667,251. SOUND-RADIATING DEVICE. RICHARD D. FAY, Cambridge, and ROBERT E. BREWER, Boston, Mass. Original application filed Apr. 17, 1925, Serial No. 23,917. Divided and this application filed Nov. 20, 1925. Serial No. 70,399. 3 Claims. (Cl. 181—31.)



1. In a sound-radiating device, two oppositely-disposed sound-radiating members constructed and arranged for the propagation through the air of relatively intense sound waves of like pressure phase, and means for preventing interference between the sound waves produced by the inner and outer surfaces of said sound-radiating members.

1,667,252. TIE ROD. JOHN B. HAWLEY, Jr., Minneapolis, Minn. Original application filed Sept. 2, 1924, Serial No. 735,247. Divided and this application filed Mar. 13, 1926. Serial No. 94,422. 3 Claims. (Cl. 25—131.)



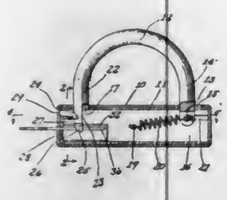
2. A tie rod for insertion through prepared concrete forms, made up of outer end and intermediate rod sections, the outer end sections being of substantially uniform diameter throughout, the inner section having a diameter not greater than the outer end section diameter and having externally threaded ends, the outer ends sections having internally threaded ends to engage the threaded ends of the intermediate rod, and externally threaded ends, and nuts applied to the externally threaded ends of the outer rod sections.

1,667,253. TIE ROD FOR CONCRETE FORMS. JOHN B. HAWLEY, Jr., Minneapolis, Minn. Filed Aug. 10, 1927. Serial No. 212,053. 9 Claims. (Cl. 25—131.)



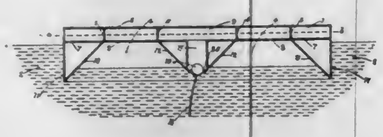
1. An assembly for holding concrete forms comprising two bolts each having a screw socket on one end and a form stop on the other end, a connecting rod threaded into said socket ends and a spring clip fastened to said connecting rod for holding the forms against collapse.

1,667,254. PADLOCK. HERMAN HEDRICH, Brooklyn, N. Y. Filed Apr. 9, 1927. Serial No. 182,201. 4 Claims. (Cl. 70—105.)



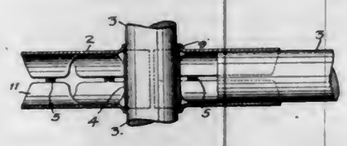
1. In a padlock, a barrel having slots therein, a curved hasp slidably and pivotally mounted in said barrel, a slidable stud pivoting one end of said hasp in said barrel, said stud being slidable in said barrel, and means in said barrel for simultaneously latching and locking said hasp in closed position.

1,667,255. OCEAN STAGE. OSCAR HERMANSON, New York, N. Y. Filed July 24, 1926. Serial No. 124,665. 1 Claim. (Cl. 114—0.5.)



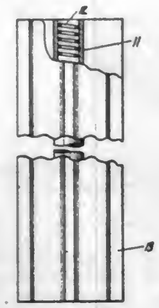
The combination of a maritime structure, comprising a tank with open bottom, with a substantial body of compressed air, filling the tank from top to bottom, so that this body of compressed air and the water underneath can move without obstruction up and down within the tank, in order to serve as a buffer for the purpose of calming the waves around the tank, substantially as described in the foregoing.

1,667,256. TOY CONSTRUCTION SET. WILLIAM HERSCHAFT, New York, N. Y. Filed June 8, 1927. Serial No. 197,290. 7 Claims. (Cl. 46—35.)



1. A toy construction set comprising a number of mating plates having axial openings and corrugated to form split radial sockets, and a number of rods adapted to be inserted in such sockets and to pass through such axial openings, clamping sleeves adapted to be interposed between said plates to grip axial rods by compression, and means for drawing said plates together.

1,667,257. ELECTRIC HEATER. WILLIAM WESLEY HICKS, San Francisco, and ARTHUR J. KERCHER, Berkeley, Calif. Filed Nov. 27, 1926. Serial No. 151,205. 4 Claims. (Cl. 219—34.)



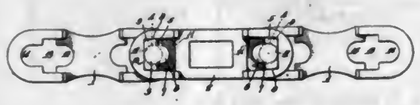
1. In an electric heater, a tube, a heating wire in the tube and in direct thermal conducting relation therewith, and a sheathing disposed over the tube and forming with the external surface of the tube a series of longitudinal spaces.

1,667,258. ENVELOPE. WILLIAM H. HOLLAR, Jr., Drexel Hill, Pa. Filed Apr. 7, 1926. Serial No. 100,330. 3 Claims. (Cl. 206—1.)



3. The combination with an envelope formed of flexible sheet material, including a normally open closure flap; of a key holder including a flexible metallic member extending within the envelope inclosure and adapted to there hold a key; both ends of said metallic member extending exterior to said envelope; and sealing means including a body of frangible material upon the exterior of the envelope, and adherent thereto, and imbedding both ends of said holder; whereby it is necessary to break said seal to release said key from said inclosure.

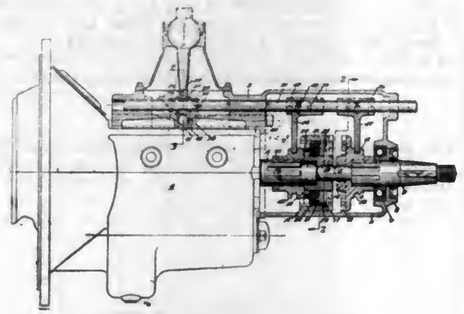
1,667,259. SPROCKET CHAIN. THOMAS J. HUGHES, Pottsville, Pa. Filed June 10, 1926. Serial No. 114,927. 1 Claim. (Cl. 74—32.)



A drive chain having central links, each having a substantially rectangular opening in each end, said openings communicating with a bearing notch on one side and an extension opening on the other; side links, each having a recess at each end in its outer side, the side walls of the recess converging toward the adjacent end of the link, an extension opening and a bearing notch communicating with each said recess; a pintle for connecting a central link with two side links having a

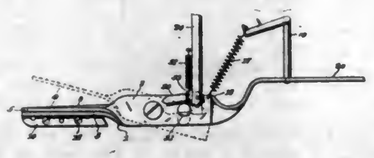
journal part adapted to engage said bearing notches, a head on each end substantially trapezoidal in shape engaging the side walls of each said recess, a projection on said head normally out of line with said extension openings, whereby upon the shifting of said central links toward each other, the head on each side of said pintle is disengaged from said side walls and upon revolving said pintle 180° said projection is brought in alignment with said extension openings, enabling said pintle to be passed through all said links.

1,667,260. TRANSMISSION CLUTCH. ERNEST W. JACKSON, Sausalito, Calif., assignor to Perfecto Gear Differential Co., Oakland, Calif., a Corporation of Washington. Filed Feb. 19, 1924. Serial No. 693,785. 11 Claims. (Cl. 74—58.)



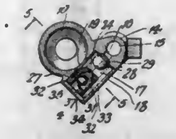
6. The combination with a gear set and a shift lever therefor, of a driving shaft adapted to be driven thru said gear set, a driven shaft, complementary clutch members on said driving and driven shafts, a slidably mounted bar connected to said shift lever, and means for connecting each clutch member to said bar for movement therewith toward or from the other clutch member.

1,667,261. CUTTING MECHANISM FOR AUTOMATIC LOOMS. DAVID LEMIEUX, Lewiston, Me. Filed Jan. 25, 1927. Serial No. 163,456. 6 Claims. (Cl. 139—263.)



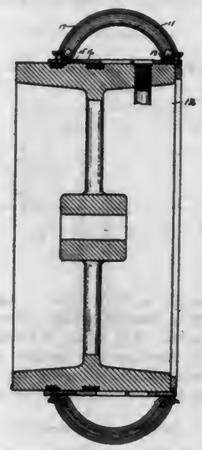
1. A cutter attachment for a loom comprising a pair of relatively pivoted members having coacting jaws and cutters, one of said members having an extension serving as a handle for attaching the device to the loom, jaw tensioning means normally holding the jaws and cutter in closed position, a projecting pin on one of said jaws, an operating rod, a pivoted finger carried by the rod and projecting over the said pin to press down on the latter for opening the jaws and cutters when the said rod is moved downwardly, said finger being free to swing downwardly from the horizontal but restricted from any upward movement above the horizontal, said finger being beveled to allow the pin to slip past after the jaws and cutters have been opened, and a spring for normally retaining the finger in horizontal position.

1,667,262. RELIEF VALVE FOR FIRE-EXTINGUISHER PUMPS. PETER GRAHAM MACGREGOR, Pequannock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J., a Corporation of Delaware. Filed May 5, 1927. Serial No. 188,974. 2 Claims. (Cl. 103—42.)



1. A pump head having an intake passage, a relief vent and a valve chamber, the wall of said valve chamber being provided with an intake valve seat and a plurality of spaced ribs, a valve cage carried within said chamber and provided with an opening and a relief valve seat, said valve cage being formed with a plurality of ribs adapted to cooperate with the first mentioned ribs to anchor said valve cage against turning within said chamber, an intake valve carried within one end of said valve cage and adapted to cooperate with said intake valve seat to open and close said intake passage, and a relief valve located within the opposite end of said valve cage and adapted to cooperate with said relief valve seat to close and open said relief vent as said intake valve is moved to open and closed positions respectively.

1,667,263. TIRE-BUILDING APPARATUS. GEORGE L. MATHER, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 15, 1922. Serial No. 560,892. 10 Claims. (Cl. 154—10.)



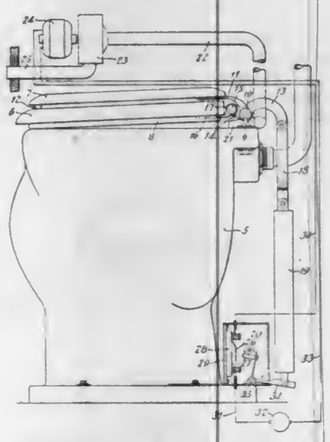
1. A pulley adapted to support a tire carcass and provided with means adapted to seal the edges of the carcass to the pulley.

1,667,264. COMBINATION TIE PRESS AND RACK. HOWARD B. MINNICK, Chicago, Ill. Filed June 29, 1927. Serial No. 202,262. 2 Claims. (Cl. 223—19.)



1. In a device of the character described, a tapered board of flexible material, a fitted cloth cover detachably secured thereto, a wire tie rack which sustains said board by spring pressure, means to secure said rack to the wall, and arms on said rack from which ties may be suspended.

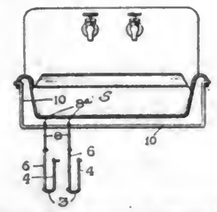
1,667,265. VENTILATING APPARATUS FOR TOILET BOWLS. ENOCH E. NEAL, Malden, Mass. Filed Feb. 18, 1927. Serial No. 169,367. 4 Claims. (Cl. 4—213.)



1. In combination a toilet bowl, a vent pipe communicating therewith, a suction pump connected to said pipe, an electric motor for said pump, a switch for said motor, a seat for said bowl, and a weight rigidly connecting said seat and said switch, whereby the latter is operated by said seat to control the operation of said motor.

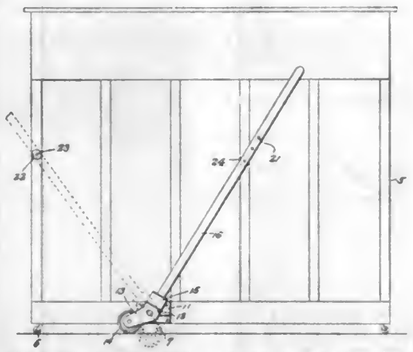
1,667,266. PAN-LID HOLDER. BERTALAN PAPP, Bethlehem, Pa. Filed July 23, 1926. Serial No. 124,477. 2 Claims. (Cl. 211—41.)

1. In a pan lid holder, a skeleton frame comprising a horisontal loop having parallel side rods and connecting end rods, a pair of perpendicular guide rods carried by each side rod intermediate the ends thereof with one pair of guide rods longer than the other pair, a hanger rod swiveled to the upper ends of the longer pair of guide



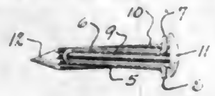
rods, and an outwardly arched cross-head at the upper ends of the shorter pair of guide rods to provide a clearance passage for a lid handle.

1,667,267. COMBINATION PIANO JACK AND TRUCK. ELBRIDGE S. PITCHER, Auburn, Me. Filed Apr. 12, 1926. Serial No. 101,522. 3 Claims. (Cl. 280—44.)



3. In combination with a piano, a shaft journaled in the base of the piano, a roller frame fixed on the shaft at one end of the latter, and a roller frame fixedly mounted on the other end of the shaft, said frame issuing into a handle receiving socket for rotating the shaft, substantially as described.

1,667,268. DRIVESCREW EXPANSION AND METHOD. HENRY W. PLEISTER, Westfield, N. J., assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Filed May 11, 1926. Serial No. 108,230. 4 Claims. (Cl. 85—2.4.)

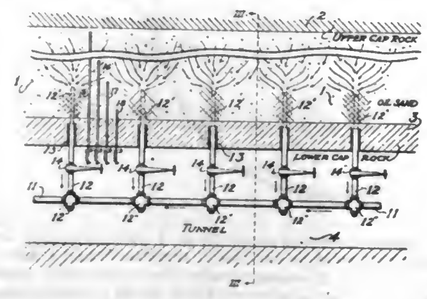


1. The method of manufacturing a wire nail expansion consisting in bending a strand of wire back on itself to form a two strand wire, then bending and twisting the two strand wire on itself to form a four-strand expansible shield, the strands of which are in a position to cooperate with long pitch spiral threads of a drive screw.

1,667,269. OIL-MINING METHOD AND APPARATUS. LEO RANNEY, New York, N. Y., assignor to Standard Oil Development Corporation, a Corporation of Delaware. Filed June 18, 1926. Serial No. 116,857. 7 Claims. (Cl. 262—1.)

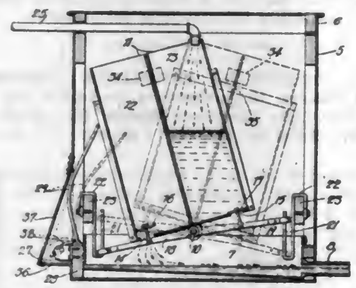
1. In securing hydrocarbons from a hydrocarbon-bearing stratum by means of a collecting system arranged in a mine gallery outside the stratum but adjacent thereto,

the improvement which comprises establishing a plurality of test points within the stratum, each giving substantially immediate indicia of changing conditions there-



in, determining from said indicia the conditions existing in the stratum at such points, and regulating the operation accordingly.

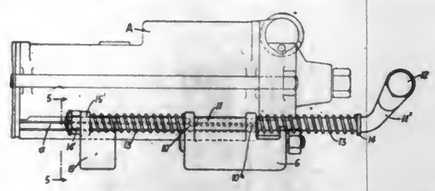
1,667,270. LIQUID METER. HARRY MOYER RYDER and LEON J. BAILEY, Bradford, Pa., assignors to Petroleum Reclamation Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 16, 1927. Serial No. 175,703. 6 Claims. (Cl. 249—34.)



1. A liquid meter comprising a tank unit, including a pair of tanks, each of said tanks having an outlet opening, a shaft supporting said unit for oscillatory movement thereon, a valve for each of said openings, an operating lever for each valve, each of said levers being pivotally connected to said shaft and adapted to move with said unit through a portion of its cycle of operation, and means for alternately obstructing the movement of said levers whereby said valves are alternately opened.

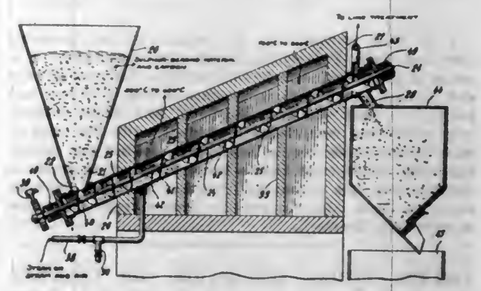
1,667,271. HANDLE ATTACHMENT FOR DRILLS. SAMUEL SEAVER, Haileybury, Ontario, Canada, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed May 16, 1925. Serial No. 30,661. 11 Claims. (Cl. 121—36.)

1. The combination with a drill of the cradle or shell mounted type of a handle device for adapting the drill to manual operation comprising a block secured to the feed nut of the drill, a rod slidably mounted upon said block and carrying a handle at one end, resilient means on said rod on opposite sides of said block yieldingly to limit the movement of said rod, and means on said rod engaging the cradle or shell engaging portions of the drill for preventing angular movement of said rod rela-



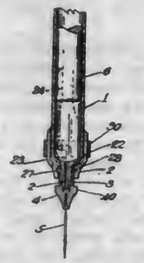
tive to said block, certain of said resilient means being arranged yieldingly to maintain said last named means in spaced relation with said block.

1,667,272. PROCESS FOR THE PRODUCTION OF GAS. HAROLD HARDY SMITH, Johannesburg, South Africa, assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Sept. 14, 1922. Serial No. 588,127. 3 Claims. (Cl. 23—181.)



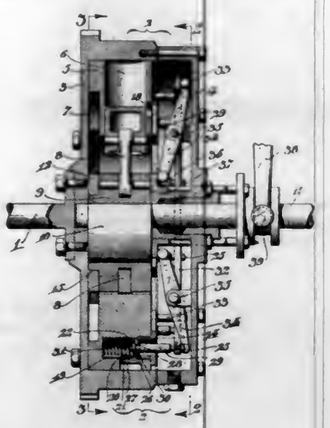
3. A process of producing a gas which consists in passing steam and a restricted amount of air through a mixture including sulphur-bearing material and carbon to produce a gas consisting largely of hydrogen sulphide.

1,667,273. SYRINGE SHIELD. WILLIAM EVERETTE STEWART, Nashville, Tenn., assignor to Eisele & Company, Nashville, Tenn., a Corporation of Delaware. Filed June 22, 1926. Serial No. 117,693. 9 Claims. (Cl. 128—218.)



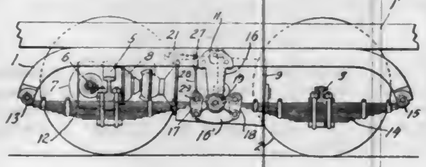
1. A syringe shield comprising a tubular body having a bifurcated lower portion, the furcations normally resiliently held in spaced relation, and means co-operating with the furcations for pressing them together to removably clamp a needle base and the lower portion of a syringe barrel or tube.

1,667,274. FLUID SPEED TRANSMITTING MECHANISM. TIMOTHY WALSH, HARRY S. COOVER, and JOHN V. ABRONSKI, Philadelphia, Pa. Filed Dec. 22, 1925. Serial No. 76,959. 8 Claims. (Cl. 192—60.)



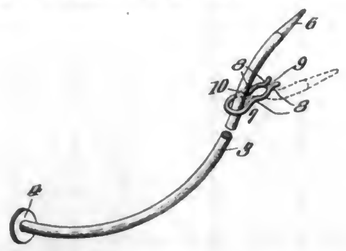
1. In fluid transmitting mechanism of the character described, inlet controlling mechanism consisting of a series of piston cylinders having ports in their peripheries and pistons mounted to reciprocate in the cylinders and adapted to close and open the ports, and outlet controlling mechanism comprising individual units for each of said cylinders, sleeves in said units, means for actuating said sleeves, said means being arranged to function preliminarily for removing resisting pressure without actuating said sleeves and to immediately thereafter actuate said sleeves.

1,667,275. SPRING SUSPENSION FOR VEHICLES. OLIVER F. WARHUS, Albany, N. Y., assignor to Versare Corporation, a Corporation of New York. Filed Aug. 6, 1926. Serial No. 127,504. 5 Claims. (Cl. 280—104.)



1. In a vehicle a body frame, front and rear sets of wheels on which the body frame is supported, at least one of said sets of wheels comprising a group of four wheels, an equalizing spring suspension system for said group of four wheels comprising a set of rear springs each of which at its rear end has a pivot-pin mounting which is fixed with respect to the body frame, a set of front springs each of which at its forward end has a pivot-pin mounting which is fixed with respect to the body frame, each of said springs being associated with one of the wheels of said group, an equalizing bar between each front and rear spring and having a pivotal mounting which is fixed with respect to the body frame, and shackles connecting each equalizer bar with the adjacent ends of the two corresponding springs, said shackles being connected to the springs and equalizer bar by pivot-pin connections, the parts of said equalizing spring suspension system being unconnected with any device having elastic reaction.

1,667,276. SHOE FASTENING. JOSHUA WEINGARTEN, Philadelphia, Pa. Filed Oct. 24, 1927. Serial No. 228,307. 1 Claim. (Cl. 24—143.)

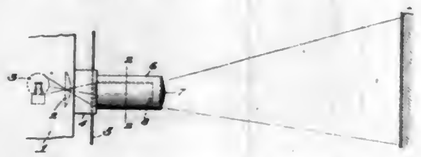


A fastening device comprising a lacing strand, an anchoring element at one end of the strand, and a guard consisting of a U-shaped member having its width alternately expanded and contracted, the lacing strand passing through an expanded portion of the guard in one direction, over a contracted portion, and through a second expanded portion in the opposite direction.

1,667,277. TREATMENT OF FINE COAL. ELTOFT WRAY WILKINSON, Queens Village, N. Y., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Aug. 4, 1926. Serial No. 127,183. 7 Claims. (Cl. 209—166.)
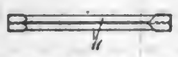
1. The process of treating fine coal which consists in agitating the fine coal in an aqueous pulp with the addition of a fraction of one per cent of an agglomeration improving sulphur-containing organic compound under such conditions that there is obtained an oil-coated floating coal, and separating the coal from excess water.

1,667,278. PROJECTING APPARATUS. ARTHUR W. WOLFE, Chicago, Ill., assignor of one-half to The Diamond Ray Light Company, Chicago, Ill. Filed Mar. 21, 1927. Serial No. 177,063. 2 Claims. (Cl. 88—24.)



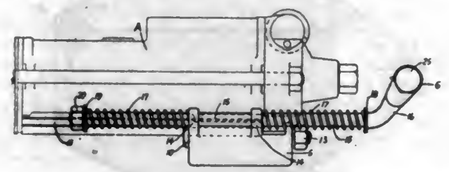
1. In a projection apparatus, a film having a series of irregular designs thereon, a tubular casing in front of the film, a substantially V-shaped support within said casing having its free ends bent inwardly and downwardly to form depending fingers, and a substantially V-shaped member having opposed reflecting surfaces positioned in said casing and having its upper edges disposed beneath said fingers whereby to retain the same against vertical movement in the casing.

1,667,279. PACKING DEVICE. FLOYD P. ALLEN, Cleveland, Ohio, assignor to The Enamel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 29, 1925. Serial No. 53,262. 5 Claims. (Cl. 206—60.)



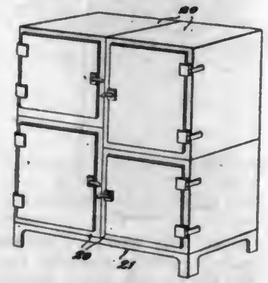
4. As an article of manufacture, means for packing tray-like articles having corners, said means comprising a protective wrapping adapted to wrap about both edges of the corners of two of such articles adjacently placed and have its ends tucked in therebetween.

1,667,280. DETACHABLE HANDLE FOR DRILLS. FORREST H. BLANDINO, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1924. Serial No. 725,315. 15 Claims. (Cl. 121—36.)



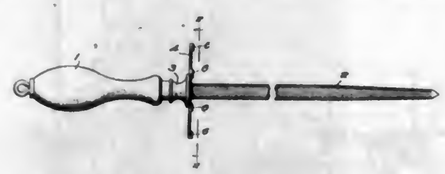
2. The combination of a drill of the cradle or shell mounted type and a handle device detachably secured to the drill comprising a block having grooves receiving the projecting portions of the cradle or shell engaging parts of the drill with a sliding fit, means utilizing the feed nut projection of the drill for securing said block upon the drill, and a handle attached to said block to adapt the drill for use as a manually supported tool.

1,667,281. REFRIGERATOR. SEBASTIAN G. BRINKMAN, Perth Amboy, N. J. Filed Feb. 23, 1927. Serial No. 170,363. 5 Claims. (Cl. 217—7.)



1. A refrigerator including a plurality of molded spaced double walled porcelain refrigerator units, each having spaces for a vacuum between its walls, and integrally formed reinforcing areas built up between the several walls of each unit.

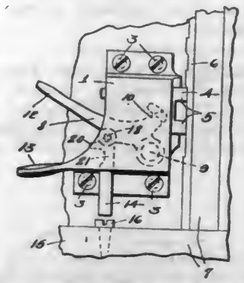
1,667,282. GUARD FOR KNIFE SHARPENING STEELS. PRESTON D. CALLUM, Baltimore, Md. Filed Sept. 9, 1925. Serial No. 55,210. 12 Claims. (Cl. 2—17.)



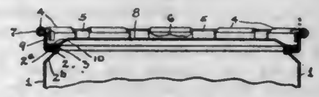
1. In a guard for a knife sharpening steel, a disk and a plurality of members projecting from the plane of the disk.

1,667,283. COMBINED SASH HOLDER AND STARTER. EDWARD F. CHAFFEE, Syracuse, N. Y., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Feb. 3, 1927. Serial No. 165,513. 13 Claims. (Cl. 292—5.)

1. A sash starter and holder comprising a base, sash holding mechanism carried by the base and including a movable operating element, a sash starter member pivotally connected to said element and movable downwardly thereby to pry against the window sill when said element is operated to withdraw the mechanism, and means for shifting the starting member laterally on its pivot at the end of the operating movement of said element, in combination with a raised abutment on the sill against which the starter member thrusts prior to its lateral movement.

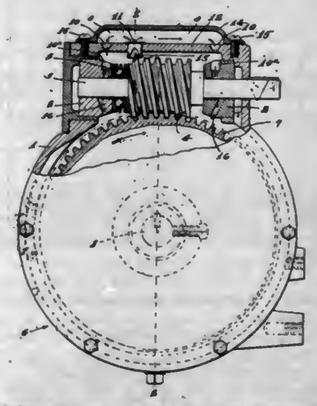


1,667,284. METAL CONTAINER. ALFRED J. CHAMBERLAIN, Lakewood, Ohio. Filed Aug. 9, 1924. Serial No. 731,229. 3 Claims. (Cl. 220—59.)



1. In a metal container, the combination of a body portion provided adjacent its open end with an inwardly directed flange formed by folding the material of said body inwardly, the upper portion of said flange lying at substantially right angles to said body portion to form a seat and the lower portion of said flange lying in close contact with such upper portion for a short distance adjacent its inner edge and then inclining downwardly and outwardly whereby to form an intermediate buttress for the seat, and a cover adapted to fit within such end of the container body and having a complementary seat.

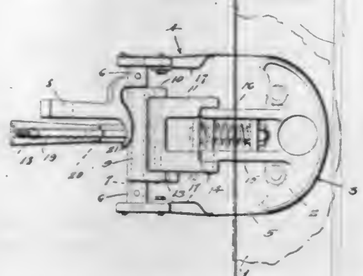
1,667,285. WORM-OILING MEANS. ALBERT B. CLISSON, Geddes, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Nov. 22, 1923. Serial No. 676,442. 6 Claims. (Cl. 184—11.)



1. In a lubricating means for the bearings of worms, the combination of a casing having bearings therein, a shaft journalled in the bearings and having a worm

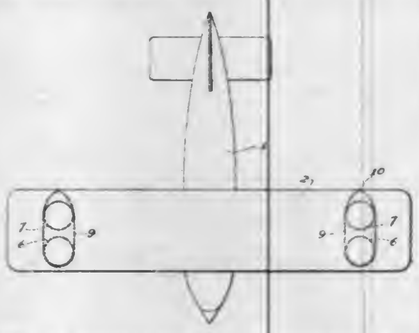
thereon, a worm gear mounted in the casing and meshing with the worm, a portion of the casing enclosed with the worm gear, constituting an oil reservoir, an oil receiver arranged in proximity to the worm, and having an inlet arranged near the worm for receiving oil thrown by the worm, and outlet passages leading from the receiver to the bearings.

1,667,286. NECKBAND CLAMP FOR SHIRT-PRESSING MACHINES. ALBERT B. CLISSON, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Mar. 8, 1926. Serial No. 93,075. 13 Claims. (Cl. 68—1.)



1. A neck band clamp for shirt pressing machines comprising a body having a curved surface against which the front of the neck band is clamped, a clamp in the form of a loop having its opposite end portions pivotally mounted to enable the intermediate portion of the loop to swing into and out of position opposed to said surface and means tending to move the loop on its pivot and means for moving it bodily toward and from said surface.

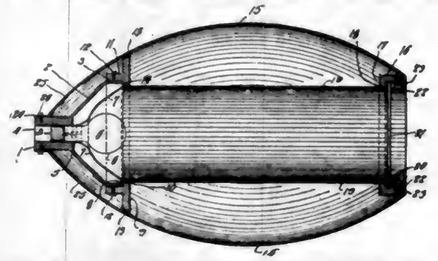
1,667,287. SOUND-PROJECTING HORN ON WING STRUCTURE OF AIRCRAFT. JAMES M. COBURN and BERNARD KNAPP, Kansas City, Mo., assignors to Plane Speaker Corporation, Kansas City, Mo., a Corporation of Delaware. Filed June 2, 1926. Serial No. 113,182. 8 Claims. (Cl. 244—31.)



1. In an aeroplane structure, the combination with the wing structure of sound projecting horns mounted in a manner to constitute an integral supporting structural member thereof.

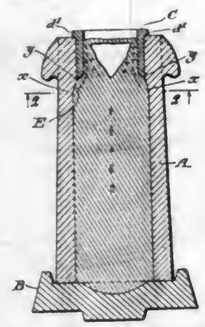
1,667,288. AUTOMOBILE HEADLIGHT. CHARLES BOOTH FAIRCHILD, Chicago, Ill., assignor of one-half to Louise A. Moore Fairchild, Chicago, Ill. Filed Apr. 24, 1926. Serial No. 104,344. 2 Claims. (Cl. 240—41.)

1. An automobile headlight comprising a casing, a support mounted in the casing, the support having a housing integral therewith, a rim upon the housing, a parabolic reflector mounted upon the rim within the housing, a diaphragm mounted upon the rim, the diaphragm clamping the reflector to the housing, a cylindrical member mounted at one end in the diaphragm,



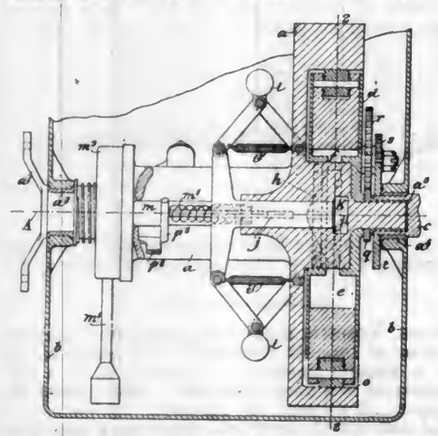
the cylindrical member bearing against the reflector and means for supporting the other end of the cylindrical member within the casing.

1,667,289. INGOT MOLD. EMIL GATHMANN, Baltimore, Md. Filed Aug. 8, 1927. Serial No. 211,431. 8 Claims. (Cl. 22—139.)



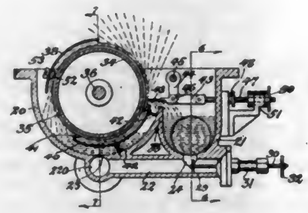
1. A metallic ingot mold having a chamber formed with rounded corners extending upwardly and inwardly from bottom toward the top and having relatively narrow parallel upper wall portions formed with corners which are relatively acute.

1,667,290. VARIABLE POWER-TRANSMISSION MECHANISM. ERNEST CONWAY GAYER, London, England. Filed Dec. 23, 1924, Serial No. 757,637, and in Great Britain Dec. 28, 1923. 2 Claims. (Cl. 74—34.)



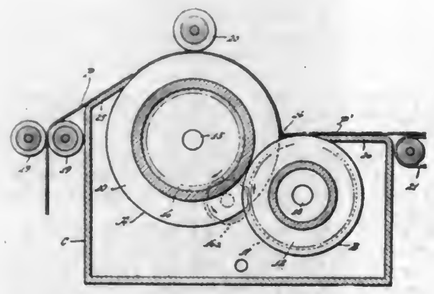
1. In a variable power transmission mechanism, including a driving shaft, a rotary driving unit connected thereto, a rotary driven unit, and a rotary unit intermediate of and co-axial with the said driving and driven units; a torque responsive device connecting said driving shaft and driving unit, comprising a rotatable casing inwardly threaded at one end to receive corresponding threads formed on said driving shaft, a hydraulic cylinder in said casing filled with a suitable fluid, a plunger also formed on the end of said driving shaft, passing through a stuffing box into said cylinder, a second substantially smaller plunger extending from the opposite direction through an oppositely disposed stuffing box, into the other side of said cylinder, its outer end forming a connecting rod leading to a valve arrangement in said driving unit.

1,667,291. APPARATUS FOR SPRAYING AND TREATING LIQUIDS. CHARLES O. LAVETT, Buffalo, N. Y., assignor, by mesne assignments, to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Aug. 11, 1924. Serial No. 731,254. 14 Claims. (Cl. 299—68.)



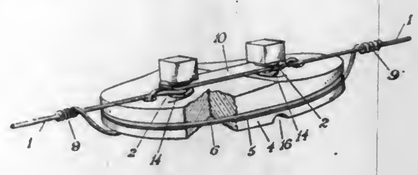
1. An apparatus for spraying liquid comprising a feed trough adapted to contain the liquid to be sprayed, a cylinder rotatably mounted in said trough and provided on its periphery with circumferential ribs, the lower parts of said cylinder and ribs positioned to dip into the liquid and project the same in the form of a spray and means for confining the liquid close to the underside of said cylinder and ribs.

1,667,292. MACHINE FOR MAKING ELASTIC PAPER. WILLIAM A. LORENZ, West Hartford, Conn., assignor to The Otaka Fabric Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 9, 1927. Serial No. 182,303. 7 Claims. (Cl. 92—69.)



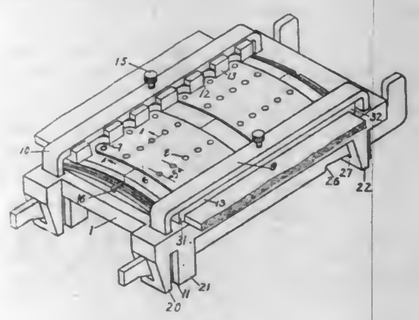
1. In a machine for crinkling paper webs, a cylinder, a rotating doctor intersecting the periphery of said cylinder, and means for driving the doctor in the same direction as but at a slower speed than said cylinder.

1,667,293. ELECTRIC SWITCH. JOHN R. MARSHALL, McKean, Pa. Filed June 5, 1925. Serial No. 35,094. 3 Claims. (Cl. 200—153.)



1. In an electric switch, the combination of an insulating block having perforations therethrough and a surrounding re-enforcing wire; conductors looped through the perforations and insulated from the surrounding wire said conductors supporting the block; and a switch plate detachably connecting said conductors.

1,667,294. BELT FASTENING AND RIVETING APPARATUS. STANLEY D. MYERS, Roseland, N. J. Filed Feb. 12, 1927. Serial No. 167,638. 15 Claims. (Cl. 218—19.)

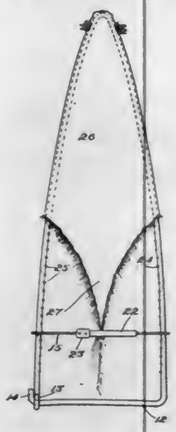


1. An apparatus for fastening and riveting belts utilizing perforated metal grip plates and rivets having split ends comprising; a base member to receive the two ends of the belt, said base member having a series of transverse ridges and grooves, a pair of clamps disposed one on each side of the base member so as to engage a belt end, said clamps being spaced apart to receive said grip plates therebetween, means for drawing the clamps tightly down onto the belt ends, and means associated with at least one of the clamps to position said grip plates so the perforations in the grip plates will be substantially positioned over ridges in the base member whereby when a split rivet is inserted in a perforation and driven through the belt the opposite portions of the rivet will follow the contour of the grooves on opposite sides of a given ridge and be forced by the next adjacent ridge to enter the pulley side of the belt thereby clinching the rivet.

1,667,295. PELT OR HIDE STRETCHER. JOHN J. SMITH, Allston, Mass. Filed Nov. 3, 1925. Serial No. 66,499. 10 Claims. (Cl. 149—21.)

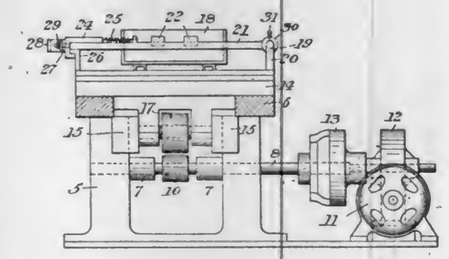
1. A hide stretcher comprising a frame having spaced expansible and contractible springs arms, a spreader bar slidable on said arms and connecting the arms together,

said bar having means for permitting relative movement of said arms longitudinally of the bar and also having



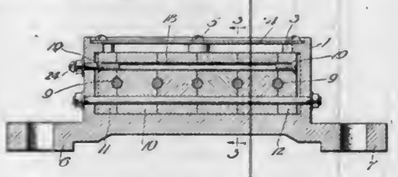
means for permitting movement thereof relatively to the arms in a transverse direction to lock the arms in various adjusted positions.

1,667,296. MOLDING MACHINE. SAMUEL BLAINE STINE, Osceola Mills, Pa. Filed Aug. 11, 1927. Serial No. 212,315. 6 Claims. (Cl. 25—41.)



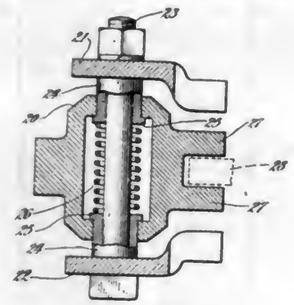
1. Molding apparatus comprising a mold table, means for vibrating the same, hanger bars for holding a mold box upon the table, and means for adjusting said hanger bars in a horizontally transverse direction, for adapting them to mold boxes of various dimensions.

1,667,297. TRAIN-LINE COUPLER. HERBERT E. VAN DORN, Chicago, Ill. Filed May 9, 1921. Serial No. 468,059. 4 Claims. (Cl. 173—332.)



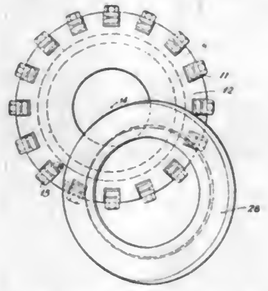
1. In a coupler, a casing open at the front end, a body of insulating material arranged in said casing and adapted to be taken out of and placed in the casing through said open end, contacts projecting from said body of insulating material beyond the front end of the casing, bolts passing transversely through said body and said casing to prevent displacement of said body in the longitudinal direction, and set screws arranged between one wall of the casing and said body for holding said body against movement lengthwise of the bolts.

1,667,298. RAILWAY DRAWBAR. HERBERT E. VAN DORN, Chicago, Ill. Filed Feb. 16, 1927. Serial No. 168,609. 3 Claims. (Cl. 213—12.)



1. In combination, a drawbar having at its front end a housing provided with a longitudinal bore extending through the same, a cylindrical stem fitted in said bore so as to be rotatable therein, means at the front end of the stem for supporting a coupler head, a shoulder on the stem engaged with the front end of the housing, a stud screwed into the rear end of the stem, a pin extending transversely through the stem and stud, and a nut on the stud bearing against the rear end of the housing.

1,667,299. GEAR CUTTER. ERNEST WILDHABER, Brooklyn, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Mar. 16, 1927. Serial No. 175,859. 20 Claims. (Cl. 29—105.)

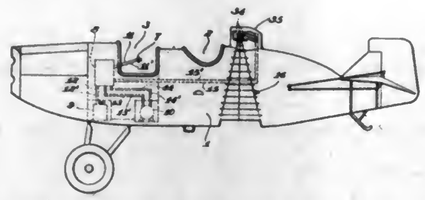


1. A gear cutter blade having a cutting portion provided with front, end, side, and back faces, the front face being concave and forming with the side faces and end face two side and an end cutting edge, said side faces being curved longitudinally from front to back, said side faces and end face being relieved with reference to said cutting edges.

20. A gear cutter comprising a head adapted to be rotated and carrying a plurality of cutting blades, each of said cutting blades having a cutting portion projecting from said head in the general direction of the axis of said head and provided with front, end, side, and back faces, said front face being concave from side to side and inclined rearwardly from the end face toward said head and forming with the side faces and end face a pair of side cutting edges and an end cutting edge, each of said blades being so positioned on the head that a line drawn radially from the axis of the head will contain points on

the opposite side cutting edges, said blades being of equal width in a plane perpendicularly to the axis of the head and corresponding side cutting edges of the blades being equally inclined to said plane.

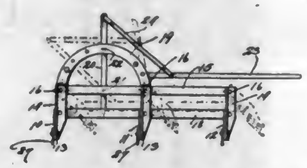
1,667,300. AEROPLANE AMPLIFIER. SAMUEL E. ADAIR, Chicago, Ill., and BERNARD KNAPP, Kansas City, Mo., assignors, by direct and mesne assignments, to Plane-Speaker Corporation, Kansas City, Mo., a Corporation of Delaware. Filed May 12, 1925. Serial No. 29,839. 4 Claims. (Cl. 244—31.)



1. The combination of an aircraft having a body comprising longerons and a sheathing, a sound-projecting horn mounted within said aircraft, said horn being suspended within the said body and resting at its lower discharge end upon spaced apart longerons, the said discharge end of the horn opening through the bottom of said body, and the said sheathing adjacent the discharge end of the horn forming a substantial continuation of the sides thereof.

3. A sound projecting horn comprising four similarly shaped trapezoidal walls secured to each other at their adjacent edges to form a tubular body, partitions disposed within the interior of the body dividing it into a plurality of similar compartments, a cap piece rigidly secured to the smaller end of the body and provided with openings extending therethrough and communicating with each of said compartments, and a sound conveying tube secured in each of said openings.

1,667,301. ADJUSTABLE ROAD DRAG. AARON T. BASS, Eaton, Colo. Filed Feb. 19, 1927. Serial No. 169,594. 2 Claims. (Cl. 37—175.)



2. A leveler or road drag including a plurality of transversely extending blades, upwardly extending angle irons attached to each blade at the middle and ends thereof, upper and lower longitudinally extending bars pivoted at their ends to the upwardly extending angle irons of the forward and rear blades and at their middles to the upwardly extending angle irons of an intermediate blade, a lever pivoted to one of the longitudinally extending bars and pivotally connected to the other bar, an arcuate member attached to certain of said angle irons and over which said lever moves, means for locking said lever in any desired position on the arcuate member, a second lever pivoted to the arcuate member, and a link connecting the second lever to the first lever.

1,667,302. DISPENSING RECEPTACLE. ROBERT A. BERNHARD, Rochester, N. Y. Filed July 17, 1925. Serial No. 44,406. 1 Claim. (Cl. 215—38.)

In combination, a liquid containing and dispensing tube provided with a tapering neck portion having a capillary outlet orifice therein, a flexible ring inserted upon the base of said tapering neck portion and being forced inwardly thereon and expanded thereby with its entire inner peripheral face in gripping engagement with said tapering neck portion, a cap adapted by an inward movement upon the neck of the bottle to surround

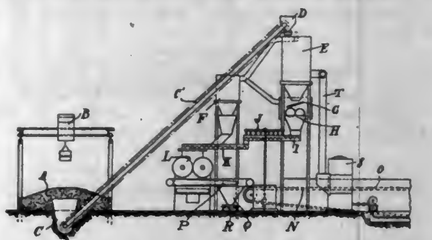


and tightly grip the entire outer peripheral surface of the ring by which it is held in spaced relation to the neck of the bottle and a plastic body disposed within the cap and adapted to be pressed against the end of the neck to close said orifice.

1,667,303. FLEXIBLE METAL WALL AND METHOD OF MAKING SAME. FRED K. BEZZENBERGER, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed July 26, 1924. Serial No. 728,375. 2 Claims. (Cl. 148—4.)

1. In a method of making flexible deeply corrugated tubular metal walls, the steps which consist in forming a tube of soft ductile metal into a deeply corrugated tube, and then alloying with the metal of said tube a substance capable of increasing the elastic limit and tensile strength thereof.

1,667,304. MANUFACTURE OF FUEL BRIQUETTES. ERNEST WINDSOR BOWEN, London, England. Filed Sept. 27, 1927, Serial No. 222,322, and in Great Britain Sept. 30, 1926. 3 Claims. (Cl. 44—16.)

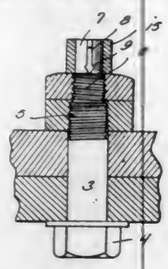


1. A metnod of the kind set forth for the manufacture of fuel briquettes characterized by the separation of the fine dust or flour from the granular portion of the fuel while dry, and the re-introduction of a definite proportion of said dust or flour into the granular material after the latter has been mixed with the binder.

1,667,305. NUT LOCK. GEORGE W. BOWMAN, Seymour, Tex. Filed July 16, 1927. Serial No. 206,275. 2 Claims. (Cl. 151—27.)

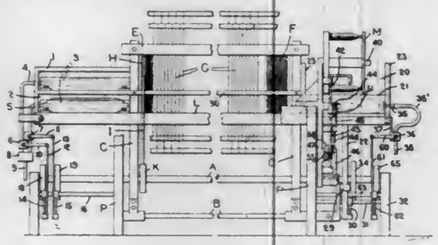
1. The combination in a nut lock, of a bolt having a threaded portion and a terminal portion, the latter with a diametrical kerf extending to its end and enlarged at the inner end of the kerf, a nut on the threaded portion

of the bolt, a key disposed in the kerf of the bolt and having an enlargement or head at its inner end and also having a projection at its outer end, and an annulus re-



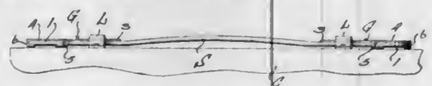
ceiving the terminal portion of the bolt and the key and opposed to the outer side of the nut and having a notch receiving or seating the said projection of the key.

1,667,306. LOOM. JOHN C. BROOKS, Paterson, N. J., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 9, 1925. Serial No. 55,398. 13 Claims. (Cl. 139—20.)



1. In a loom having two warp sheds, a lay, two superposed shuttle boxes on one end of the lay, a single shiftable shuttle box on the other end of the lay, means for throwing a shuttle from one of the two shuttle boxes through one warp shed, means for simultaneously throwing a shuttle from the single shuttle box through the other warp shed, and means to shift the single shuttle box after the shuttle is thrown therefrom into position to receive the shuttle coming from the opposite end of the lay.

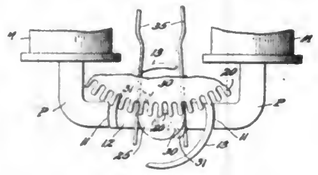
1,667,307. GUARD FOR HAND STRAPS. WILLIAM H. BUCKINGHAM, Mayfield, Pa., assignor of one-half to Samuel Salzburg, Mayfield, Pa. Filed Mar. 12, 1927. Serial No. 174,985. 1 Claim. (Cl. 190—57.)



In combination with a hand strap provided with a cross head at each end, a guard for each end portion of such strap comprising a plate disposed over a portion of a face of the strap and the head, the marginal portions of the plate being provided with flanges clinching the marginal portions of the strap.

1,667,308. SILENT SECONDARY CLOCK. THADDEUS STEPHENS CASNER, Plainfield, N. J., assignor to Radio Electric Clock Corporation, New York, N. Y., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,542. 5 Claims. (Cl. 58—26.)

4. Mechanism for intermittently rotating a shaft or the like including in combination, a toothed wheel mounted on the shaft, a second shaft rotatable about a fixed axis, two spaced pins carried by the second shaft and normally lying in adjacent notches of the toothed wheel, and means for intermittently rotating said second shaft



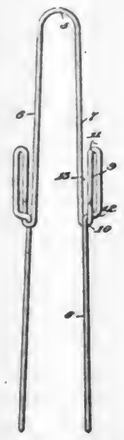
thru a half revolution, said toothed wheel being advanced one tooth by said pins for each half revolution of said second shaft.

1,667,309. METHOD OF ORNAMENTING STONE. ELROY A. CHASE, Northfield, Vt. Filed Apr. 4, 1927. Serial No. 180,799. 4 Claims. (Cl. 41—39.)



1. A method of ornamenting a surface of granite or other similar material, which consists in coating the surface to be ornamented with a layer of sand-resisting compound, stencilling the outline of a desired figure therein, sand-blasting the stencilled outline in the stone to a relatively slight depth, removing the compound from the figure within the sand-blasted outline shaping the exposed surface of the figure to a desired contour, re-surfacing the contoured figure with compound, removing the compound from the background of the design, and sand-blasting the background to a desired depth.

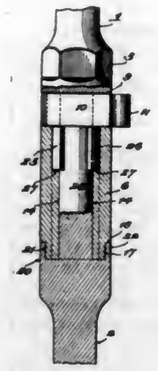
1,667,310. HAIRPIN. SPRY OWEN CLAYTOR, Newark, Ohio. Filed Aug. 5, 1926. Serial No. 127,270. 2 Claims. (Cl. 132—50.)



1. A wire hairpin having a head portion and two legs, each of said legs comprising an upper portion and a lower portion, said portions being integrally joined by a twisted

loop extending from the junction of said portions toward said head and spaced from said upper portions to form slots adapted to receive strands of hair in compressive engagement.

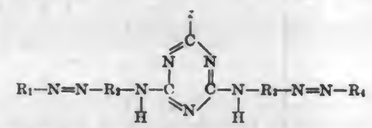
1,667,311. ROD COUPLER. JOHN D. FITZGERALD, San Diego, Calif. Filed Apr. 22, 1926. Serial No. 103,926. 1 Claim. (Cl. 287—103.)



A coupler for rods and the like comprising socket and piston members adapted for telescopic engagement and respectively having cooperating groove and wing elements for interlocking engagement on the turning of one of said members relative to the other whereby said elements are held against longitudinal movement, said socket member having a transverse key-way extending therethrough and a recess formed at one end thereof, a locking face formed on the piston member and adapted to be rotated in alinement with the wall of the key-way, and a key adapted to be inserted in said key-way to engage said locking face and to have its extremity turned into said recess.

1,667,312. AZODYESTUFFS AND PROCESS OF MAKING SAME. HERMANN FRITZSCHE, EDUARD KRUMMENACHER, HANS GUBLER, and OTTO KAISER, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Dec. 21, 1923, Serial No. 682,107, and in France Jan. 9, 1923. 4 Claims. (Cl. 260—27.)

4. As new products the herein described azo dyestuffs which contain the cyanuric nucleus, and which correspond with the general formula—



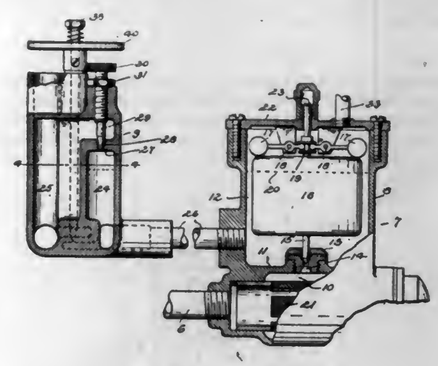
wherein R_1, R_2, R_3 and R_4 represent any aromatic nuclei which may carry any substituents, and wherein ε is one of a group of metalloids comprising O, S, N and Cl and which may be linked to hydrogen or radicals which may take its place, which dyestuffs form powders more or less intensely colored, dissolving in water to solutions of all colors of the spectrum, and of those which are obtained by combination of the said colors, and dyeing the textile fiber similar tints.

1,667,313. FLOOR-LAYING DEVICE. PASQUALE GALASSI, New York, N. Y. Filed May 19, 1927. Serial No. 192,661. 10 Claims. (Cl. 94—18.)



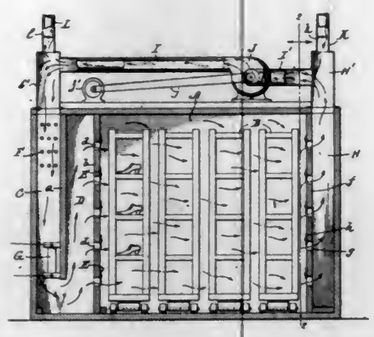
3. A dividing strip for terrazzo and similar floors, comprising a strip member adapted to terminate on a level with and to divide the upper layer of the floor, and a supporting member therefor, comprising a rib member adapted to be inserted into the floor bed, and supporting means laterally extending therefrom, adapted to rest on top of said bed, said rib member being adapted to receive the lower edge of said strip member and being permanently connected thereto, by forcing outwardly portions of the adjoining metal surfaces of said two members at spaced intervals along the length of said strip, said outwardly forced portions forming laterally extending prongs adapted to anchor said strip into said bed.

1,667,314. FLOW REGULATOR FOR OIL BURNERS. JACKSON G. GILMORE and AUGUSTUS J. FRAME, Columbus, Ohio. Filed Sept. 1, 1926. Serial No. 133,056. 2 Claims. (Cl. 158—36.)



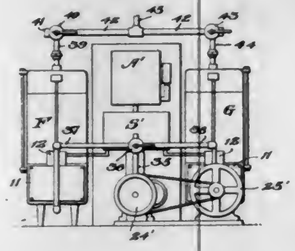
1. A fuel regulator for oil burning systems comprising in combination with a fuel line and a source of air pressure, a casing including a pair of separate chambers, means situated in said fuel line for maintaining a normal liquid fuel level within one of said chambers, a valved regulated port carried by said casing and disposed above said fuel level and serving to establish communication between the two chambers, means for introducing air into said fuel line to cause the liquid to elevate and flow through said port and into the other of said chambers, and a supplemental valve carried by said casing and serving to regulate an orifice located below said fuel level permitting of a constant flow of liquid between said chambers.

1,667,315. METHOD OF CONDITIONING SHOES AND ANALOGOUS PRODUCTS. GORDON D. HARRIS, Freeport, N. Y., assignor to The Industrial Dryer Corporation, Stamford, Conn., a Corporation of Connecticut. Filed Jan. 17, 1925. Serial No. 3,139. 4 Claims. (Cl. 34—19.)



1. In the art of conditioning products the different components of which have varying moisture contents, the process which consists in exposing the products within a chamber to a drying atmosphere the humidity of which corresponds substantially to that component having the lowest moisture content, circulating the atmosphere within a closed circulatory path which includes said chamber for the product, heating the atmosphere to a desired temperature during the repeated cycles of its circulation, and conditioning the drying atmosphere by discharging from its circulatory path a given volume of moist air and feeding to the circulatory path a corresponding volume of fresh atmospheric air.

1,667,316. DEHYDRATOR. HARRY BUXTON HARTMAN and FRANK E. HARTMAN, Scottdale, Pa., assignors to Electric Water Sterilizer and Ozone Company, Scottdale, Pa., a Corporation of Pennsylvania. Filed Sept. 16, 1925. Serial No. 56,736. 8 Claims. (Cl. 34—9.)



1. In a dehydrator, a dehydrating material holder section, an air receiving section, a dry air discharging cap section, an electrical heating element in the air receiving section, means for manually cutting in said electrical heating element to reactivate the dehydrating material at predetermined periods, and means for automatically cutting out said heating element when the reactivating period has ended.

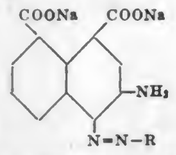
1,667,317. DRY CELL. GEORGE W. HEISE, Bayside, and HARRY H. THOMPSON, Flushing, N. Y., assignors to National Carbon Company, Inc., a Corporation of New York. Filed Nov. 18, 1922. Serial No. 601,882. 6 Claims. (Cl. 136—107.)



1. A dry coil comprising a mix bobbin cathode immersed in electrolyte paste, and an anode in contact with the paste and having a smaller effective area than the corresponding oppositely disposed surface of the mix bobbin.

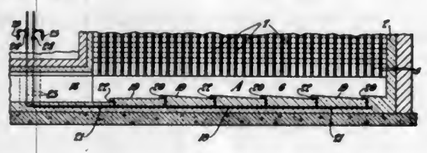
1,667,318. AZODYESTUFFS DERIVED FROM 1:8-NAPHTHALENE DICARBOXYLIC ACID AND PROCESS OF MAKING THE SAME. MAX ISLER and LUCAS VON MECHEL, Basel, Switzerland, assignors to the Firm: Society of Chemical Industry in Basle, Basel, Switzerland. Filed Aug. 3, 1925, Serial No. 48,004, and in Switzerland Aug. 16, 1924. 8 Claims. (Cl. 260—90.)

5. As new products the herein described new azo dyestuffs corresponding in form of their sodium salts with the general formula:



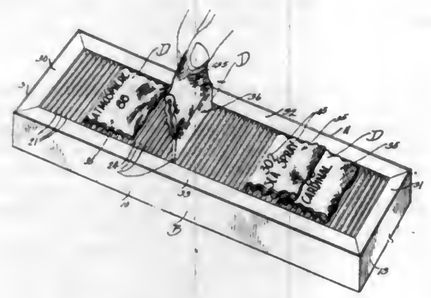
wherein R means an aromatic residue carrying a hydroxyl group in ortho position to the azo-bridge, which products form reddish-brown to black powders, dissolving in water with yellowish brown to red, violet and brown, in sulfuric acid with greenish-yellow to red, violet and reddish-brown coloration, dyeing wool in an acid bath yellowish-olive to red, brown, violet and greenish-brown tints which are converted by afterchroming into yellowish-olive to red-brown, bordeaux and green tints and yielding when printed on cotton with chromium mordants olive to greenish-gray, gray and brown tints.

1,667,319. REGENERATIVE FURNACE. DAVID B. JONES and FRANK C. SWARTZ, Cleveland, Ohio. Filed Apr. 28, 1926. Serial No. 105,240. 2 Claims. (Cl. 263—19.)



1. The combination with the checker-chamber of a regenerative furnace, having checker-work supported above a plurality of distributing flues extending longitudinally along the bottom of said chamber, of a plurality of fluid pressure nozzles permanently mounted at spaced longitudinal points in the bottom wall of each of said flues, and adapted to direct fluid under pressure along the bottom walls of said flues toward the stack end of said chamber to blow deposits of dust and other foreign matter from said flues into the stack, and means for supplying fluid under pressure to said nozzles.

1,667,320. SAMPLE AND SAMPLE CONTAINER. EDWIN MARSHALL KINSEY, Riverside, N. J. Filed Feb. 23, 1927. Serial No. 170,262. 14 Claims. (Cl. 206—82.)



1. A sample device comprising a box consisting of a body and a cover, the box body being of elongated formation including side walls and end walls and a bottom, with transverse closely spaced partition walls defining a plurality of compartments arranged longitudinally of the box, and samples detachably fitted into said compartments having relatively overlapping flexible portions arranged in stepped relation along the box on top of the partition walls.

1,667,321. VEGETABLE-SLICING MACHINE. JULIUS H. KINTZELE, St. Louis, Mo., assignor to Potato Waffles, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 15, 1926. Serial No. 81,502. Renewed Aug. 10, 1927. 19 Claims. (Cl. 146—78.)



1. Apparatus of the character described comprising a pair of angularly arranged endless drive mechanisms, spaced cutting means carried by each of said mechanisms the paths of said cutting means intersecting substantially at a common point, the cutting means of each of said mechanisms being adapted to pass said intersecting point alternately, means for driving said mechanisms, and means for feeding articles to be cut to said intersecting point in the path of travel of said cutting means.

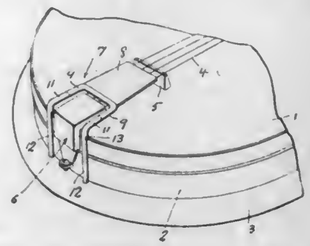
1,667,322. AMMONIA SYNTHESIS PROCESS AND CATALYST. ALFRED T. LARSON, Wilmington, Del., assignor to Lazote, Incorporated, Wilmington, Del., a Corporation of Delaware. Filed July 30, 1925. Serial No. 47,140. 16 Claims. (Cl. 23—237.)

1. A process for producing a catalyst for the synthesis of ammonia which comprises making an intimate admixture of iron oxide, potassium oxide and magnesium oxide, forming the mixture into particles and treating the particles with a hydrogen-containing gas at a temperature of 300°–700° C.

1,667,323. AMMONIA SYNTHESIS PROCESS AND CATALYST. ALFRED T. LARSON, Wilmington, Del., assignor to Lazote, Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Feb. 16, 1926. Serial No. 88,687. 29 Claims. (Cl. 23—237.)

1. A process for producing a catalyst for the synthesis of ammonia which comprises making an intimate mixture of iron oxide, an alkali metal oxide, and an alkaline earth metal oxide, forming the mixture into particles and treating the particles with a hydrogen-containing gas free from permanent catalyst poisons at a temperature of 300–700° C.

1,667,324. BANJO HAND REST. JOHN LATERRA and FRANK JOY, Paterson, N. J. Filed Jan. 13, 1927. Serial No. 160,938. 2 Claims. (Cl. 84—328.)



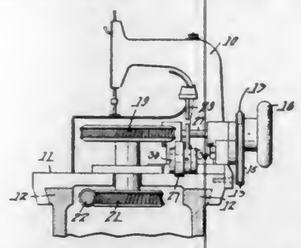
1. A handrest for a stringed musical instrument of the class described in the form of a plate to overlie a predetermined portion of the strings, and attaching means for said plate, said attaching means comprising a U-shaped member to the bight portion of which, one end of said plate is integrally connected, and a pair of retaining bolts for said member.

1,667,325. VETERINARY IMPLEMENT. PETER F. LAUWAGIE and JOHN P. KONINGS, Dell Rapids, S. Dak. Filed June 11, 1925. Serial No. 36,443. 1 Claim. (Cl. 128—350.)



A device of the class described comprising an elongated tubular member formed from a single strand of material, said member being tapered from one end toward the other, the convolutions of the strand and major portion of the length of the member being in close contact, and the convolutions of the strand at the smaller end portion being also in close contact, a portion of said convolutions inwardly of the second named portion being spaced apart to provide entrance openings, said member having its opposite ends open, the smaller end of the device being of a diameter approximately two-fifths of the larger end.

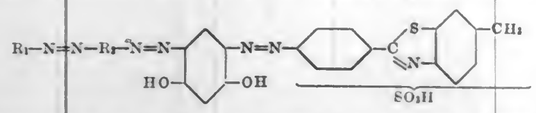
1,667,326. SEWING MACHINE. EDWIN H. MARBLE, Worcester, Mass., assignor to Curtis & Marble Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 29, 1927. Serial No. 222,893. 7 Claims. (Cl. 112—2.)



1. In a sewing machine for the purpose described, the combination with a carriage, a stationary rack, and a worm driving device comprising a worm wheel on the top of the carriage, of a slide on the carriage having a shaft thereon, a worm on the shaft meshing with the worm wheel, means for constantly operating the said shaft in all positions thereof, and means for moving the slide back and forth on the carriage to engage and disengage the worm and worm wheel.

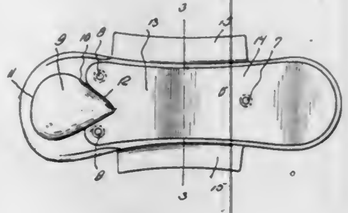
1,667,327. TRISAZO DYES DERIVED FROM DEHYDRO-THIO-P-TOLUIDINE-SULPHONIC ACID AND RESORCINOL AND PROCESS OF MAKING SAME. BERTRAM MAYER, Basel, and JOSEF GRIMMER, Neuewelt, near Basel, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed Feb. 24, 1927, Serial No. 170,736, and in Switzerland Mar. 8, 1926. 12 Claims. (Cl. 260—72.)

5. As new products the new substantive azo-dyestuffs of the probable general formula:



in which R_1 and R_2 are aromatic nuclei free from hydroxy groups, which may be different from each other and of which at least one carries at least one sulphonic group, the said products forming dark brown to black brown powders which, on addition of soda solution, dissolve in water with yellow brown to red brown and violet brown colors, and which dye cotton very even, yellow-brown to orange-brown, red-brown, and violet-brown tints.

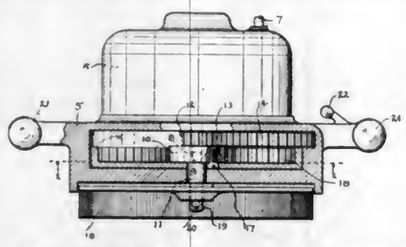
1,667,328. ARCH SUPPORTER. FRANK P. MCCORD, Mexico, Mo. Filed Jan. 25, 1927. Serial No. 163,401. 1 Claim. (Cl. 36—71.)



An arch support of the class described comprising a flexible leather sheet and a superimposed resilient metallic strip secured thereto, the leather sheet extending beyond the forward edge of the metallic strip and having a hump formed on the upper edge thereof provided with a V-shaped rear edge, the forward edge of the metallic strip being provided with a V-shaped notch to receive said V-shaped edge.

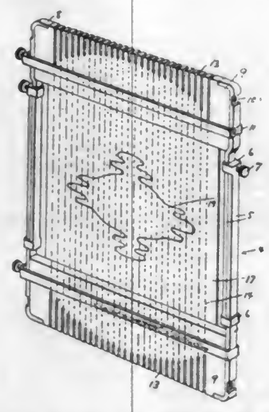
1,667,329. MEAT-BLOCK SCRAPER AND DRESSER. MAX M. MENZEL, Kenosha, Wis. Filed Oct. 12, 1925. Serial No. 62,026. 1 Claim. (Cl. 144—119.)

A device of the class described, comprising a body portion, an electric motor carried thereby and having a drive shaft extending into said body portion, a ring gear having teeth on its inner circumferential side within said body portion, a stud shaft having an enlarged head with a ball-bearing therein keyed to said ring gear and projecting from said body portion, the aforementioned drive shaft having its lower end journaled within the bearing in the head of the stud shaft, a gear wheel on the drive shaft, a larger gear meshing with said gear, a shaft for the larger gear, a smaller gear on the last-mentioned shaft



engaging the teeth of the ring gear, and a circular dressing member removably and revolubly mounted on the outer portion of said stud shaft.

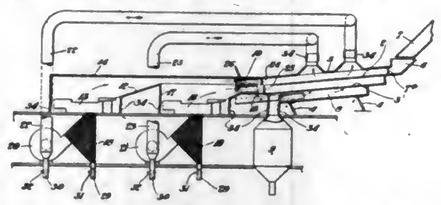
1,667,330. HAND LOOM. SUSAN I. ODLIN, Dayton, Ohio. Filed Aug. 10, 1927. Serial No. 212,097. 2 Claims. (Cl. 28—15.)



1. As a new product of manufacture, a hand loom comprising a frame embodying longitudinally extensible side bars, end members connected with the end portions of

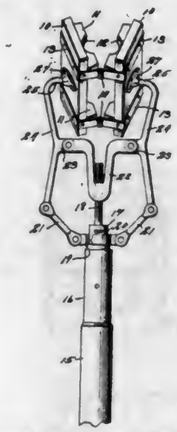
said side bars, said end members being provided on their outer edges with a multiplicity of slots for receptions of warp strands, said slots being graduated in length from the center of the end members toward the ends of the latter, thus permitting arrangement of the strands in substantially arcuate lines for the making of hammocks, together with longitudinally shiftable clamping loops embracing the end portions of the side bars, and said end members.

1,667,331. CLEANING AND SIZING APPARATUS. EDWARD O'TOOLE, Gary, W. Va. Filed Sept. 27, 1927. Serial No. 222,309. 5 Claims. (Cl. 209—44.)



1. A sizing and cleaning apparatus for coal and the like comprising, in combination, a sizing screen and a cleaning table, a wind box connected to the under-side of said table, a fan having its blowing port connected to said box, a hood over said table adapted to receive the air blown upwardly through said table from said wind box, a wind box under said screen, means connecting said hood over said table with said wind box under said screen, a closed passage above said screen and connected to the upper side of said table through which the screened coal is delivered to said table and into which air passing upwardly through said screen is trapped, means for preventing the free passage of air from said table through said closed passage, and a conduit connecting said closed passage to the intake port of said fan whereby a suction is created in said closed passage above said screen and said hood above said table and the air passing upwardly through said screen is returned to said fan.

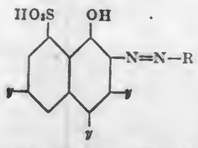
1,667,332. FUSE TONGS. LESTER L. STAHLER, Union City, Ind. Filed Aug. 31, 1926. Serial No. 132,829. 5 Claims. (Cl. 81—3.)



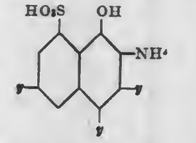
4. A fuse tongs including opposed jaws, hinge members attached to the jaws and pivotally engaged with each other whereby said jaws may be turned into or out of a parallel position, a pole constituting a handle, means for swivelly supporting the jaws upon the pole and permitting the jaws to move toward or from each other, and means for moving the jaws toward or from each other including intorengaging screw-threaded elements, one mounted upon the handle pole and the other operatively connected to the jaws whereby a rotation of the handle pole will act to shift the jaws toward or from each other.

1,667,333. DYESTUFFS AND PROCESS OF MAKING SAME. FRITZ STRAUB, Basel, and HERMANN SCHNEIDER, Riehen, near Basel, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed Mar. 12, 1926, Serial No. 94,317, and in Switzerland Mar. 28, 1925. 16 Claims. (Cl. 260—11.)

1. As a step in the production of complex metal compounds of the dyestuffs corresponding with the general formula:

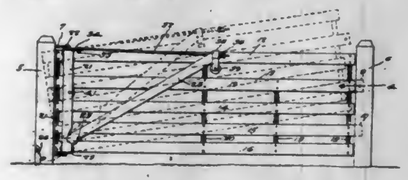


wherein the *y*'s stand for hydrogen atoms which are replaced at least once and at most twice by sulfogroups which latter are not adjacent to each other and of which at least one is in 3 or 4-position, R meaning the residue of a coupling component having at least two nuclei, the herein described process which consists in the coupling of the diazotized aminohydroxynaphthalene disulfonic acids corresponding with the general formula:



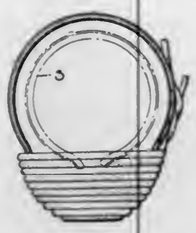
wherein the *y*'s stand for hydrogen atoms which are replaced at least once and at most twice by sulfogroups which latter are not adjacent to each other and of which at least one is in 3 or 4-position, with a coupling component having at least two nuclei in a highly concentrated caustic potash medium.

1,667,334. FARM GATE. HENRY WESLEY THOMPSON, Altamont, Ill. Filed May 7, 1927. Serial No. 189,661. 3 Claims. (Cl. 39—33.)



1. A gate structure of the class described comprising a pair of posts, a pair of brackets projecting from one post, the other post having a pair of recesses, a standard rotatably mounted between the brackets, an arm, means for limitedly hinging one end of the arm to the lower portion of the standard, a plate at the upper end of the standard, a rod loosely engaged with said plate and projecting through an opening in the other end of the arm, an abutment on the rod to limit the downward movement of the arm, a bracket on said other end of the arm, a roller journalled in said bracket, a bracket on said standard, a roller journaled in said second bracket, a gate comprising a plurality of rails connected by a plurality of cross members, one rail of the gate being slidable through the first bracket and on its roller, another rail of the gate being slidable through the second bracket and guide ro[illegible]

1,667,335. PROCESS OF MAKING CANDY BASKETS. ARIS VARKAS, NICK VARKAS, JAMES B. VARKAS, and JAMES PAXON, Boise, Idaho. Filed July 1, 1926. Serial No. 119,965. 3 Claims. (Cl. 107—54.)

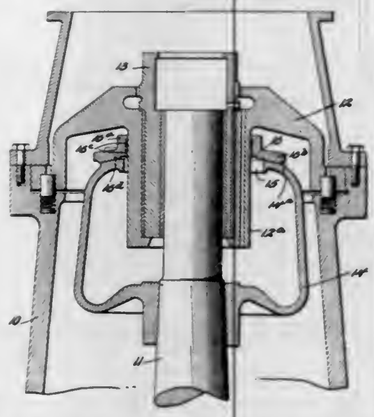


1. The process of making candy baskets which comprises coiling a candy strand, while heated to a degree to render it plastic, initially in the bottom of a concave mold, and disposing the coils in mutually superposed relation against the wall of the mold, and permitting the arranged coils to cool before removal from the mold.

1,667,336. CHLORINATED AMINES FROM CHLORINATED HYDROAROMATIC KETIMINO COMPOUNDS AND PROCESS OF MAKING SAME. THEODORE VOLTZ, Basel, Switzerland, assignor to Durand & Huguenin S. A., Basel, Switzerland. Filed May 21, 1923. Serial No. 640,554, and in Germany June 3, 1922. 5 Claims. (Cl. 260—60.)

1. A process for the manufacture of chlorinated aromatic amines, consisting in treating a hydroaromatic benzene derivative containing nitrogen in the form of a chlorinated ketimino group and having in the same hydroaromatic nucleus most of the hydrogen atoms substituted by chlorine, with a reducing agent at a moderate temperature and so far as possible with exclusion of water and strong acids.

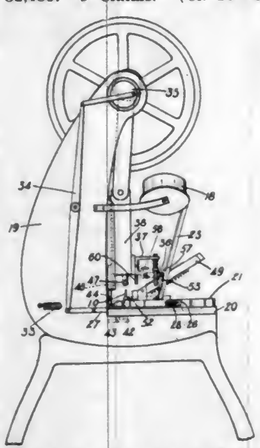
1,667,337. GYRATORY CRUSHER. WILLIAM S. WESTON, Columbia, S. C. Filed Feb. 23, 1926. Serial No. 90,121. 5 Claims. (Cl. 308—121.)



4. In a gyratory crushing machine, the combination with a frame, a bearing mounted in the frame and having a central cylindrical portion surrounding the gyratory shaft, an open mouthed oil receptacle mounted upon the gyratory shaft and movable therewith, and means for preventing escape of oil from the mouth of the receptacle as the shaft gyrates including an annular lid having a cylindrical central portion fitting around the cylindrical portion of the bearing, and a peripheral flange projecting outwardly therefrom, the lower surface of which rests upon the upper edge of the oil receptacle, said lower surface and the inner surface of the cylindrical central portion being concentrically grooved, for the purpose set forth.

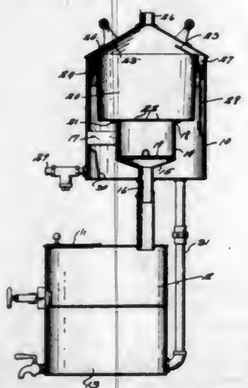
5. The combination set forth in claim 4 in which the lower surface of the peripheral flange of the lid is formed as a spherical surface centered about the axis of gyration of the shaft and the top edge of the oil receptacle comprises a mating spherical surface, a circular groove being formed in the spherical surface of the lid the diameter of which is slightly greater than the diameter of the open mouth of the oil receptacle.

1,667,338. APPARATUS FOR FORMING DOUBLE-HEADED NAILS. NATHANIEL YATES, Jr., Augusta, Ky., assignor to F. A. Neider Company, Augusta, Ky., a Corporation of Kentucky. Filed May 23, 1925. Serial No. 32,459. 9 Claims. (Cl. 10—43.)



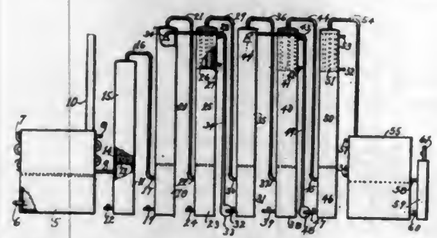
1. In a device of the class described the combination with an intermittently rotatable table having perforations therein, means for inserting circular washers in the perforations in said table, means for inserting a headed nail in the perforation in the washer, a sectional bell mouthed swage adapted to clamp about the nail with the washer in engagement upon the mouth of the swage, and plunger means adapted to drive the washer and nail against the swage whereby the washer material is forced into binding relation upon the nail.

1,667,339. GLUE DISSOLVER AND CONVERTER. FRANCES C. ZIMMERMAN, Cincinnati, Ohio. Filed May 19, 1927. Serial No. 192,666. 4 Claims. (Cl. 126—284.)



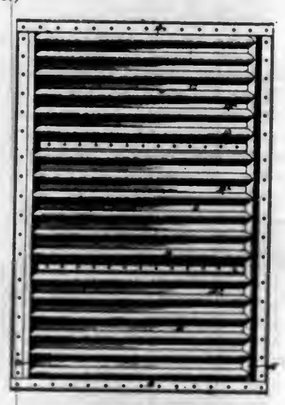
1. A glue converter and dissolver of the character described comprising an outer tank having a removable cover and means for admitting steam thereto, a vertically extended catch basin open at its upper end, having a diameter less than the diameter of the outer tank and having its bottom spaced from the bottom of the outer tank and having a discharge pipe extending through the bottom of the tank, and a vessel for containing dissolving glue having a diameter less than the diameter of the tank and adapted to be inserted therein and having substantially steam-tight engagement with the top of the catch basin but removable therefrom, the central portion of the vessel circumscribed by the wall of the catch basin having perforations.

1,667,340. PROCESS OF FRACTIONATING OILS. CLIVE M. ALEXANDER, Tulsa, Okla. Filed Jan. 12, 1926. Serial No. 80,691. 7 Claims. (Cl. 196—94.)



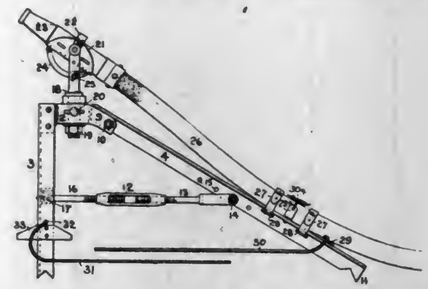
5. The process which comprises distilling oil, contacting vapors therefrom with reflux condensate from said vapors having a lower final boiling point than the highest boiling constituent of said vapors that are being contacted, and subsequently contacting the vapors with a higher boiling condensate.

1,667,341. METALLIC CAR DOOR. ALLAN S. BARROWS, Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 5, 1925. Serial No. 67,177. 2 Claims. (Cl. 189—46.)



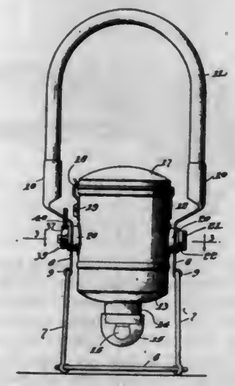
1. In a car door, the combination with a metallic body member; of a re-enforced edge construction for said body member, comprising an integral angular portion of said main body member turned outwardly of the face of the door away from the main plane of said door, said integral portion having an integral extension extending at an angle to the angular portion and outwardly toward the edge of the door; a re-enforcing strip having its inner edge secured to the main body member inwardly of said angular portion and extending toward the edge of said door in spaced relation with reference to said angular portion and extension; and an angular member having an angular portion spaced outwardly of said angular portion of the main body member and extending substantially normal to the main plane of said door, and another angular portion extending substantially at right angles thereto, said angular member being secured to said extension and to said strip and co-operating therewith to provide a hollow tubular formation.

1,667,342. PORTABLE FIRE-NOZZLE SUPPORT. JACOB B. BLAW, Atlantic City, N. J.; Sadie H. Blaw executrix of said Jacob B. Blaw, deceased. Filed Jan. 24, 1924. Serial No. 688,151. 7 Claims. (Cl. 248—29.)



1. A portable fire nozzle and hose support, comprising a head block having a vertical bearing, two widely spread legs united by a cross bar and rigidly connected at their top portions to the head block so that they have a fixed relative position with respect to the vertical bearing of the head block, a rearwardly extending and obliquely arranged leg hinged at its upper end to the rear of the head block, an adjustable tie member connected at one end with the oblique leg and at its other end with the transverse bar of the front frame, an upwardly arranged yoke journaled in the bearing of the head block and having supporting means for a fire hose nozzle, and means for clamping the yoke rigidly to the head block, and in which each of the leg portions are provided with transversely extending parts projecting from the sides thereof at a distance from their lower ends to form supports for them under special conditions, said transversely extending parts arranged to project transversely to a vertical plane through the oblique leg portion.

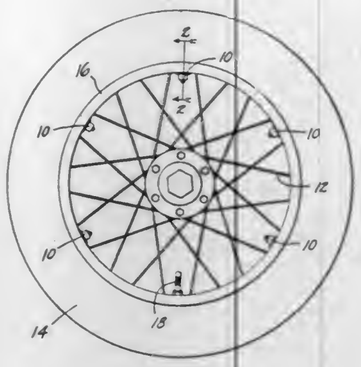
1,667,343. LANTERN. EDMOND B. BRONSON, Blue Island, Ill. Filed Oct. 23, 1922, Serial No. 596,270. Renewed Mar. 15, 1928. 10 Claims. (Cl. 240—10.5.)



1. A lantern comprising a suitable supporting base having a carrying element connected therewith, a battery casing pivotally mounted in said base, a socket on said

casing, a switch upon the exterior of said casing, conductors leading from said socket to adjacent said switch, and means operable by the movement of said body upon its pivot for electrically connecting said switch, and conductors.

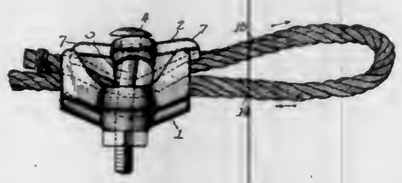
1,667,344. AUTOMOBILE WHEEL. ALLAN B. COUTURE, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 9, 1926. Serial No. 134,416. 9 Claims. (Cl. 301—5.)



1. An automobile wheel comprising a felloe, a valve stem in said felloe, a variable weight diametrically opposite said valve stem secured to the inner periphery of said felloe, and other variable weights secured to the inner periphery of said felloe spaced at equal intervals between said first mentioned weight and said valve stem.

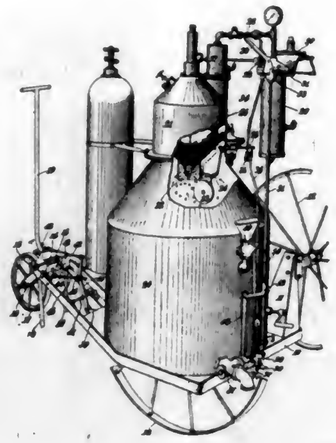
3. In a device of the class described comprising a part to be balanced, a cup shaped member, a plurality of members having varying apertures therein adapted to be received in said cup member, and means for securing said cup member and members on the part to be balanced.

1,667,345. WIRE CLAMP. THOMAS K. CUMMINS, St. Paul, Minn., assignor to Northern Malleable Iron Company, St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 10, 1926. Serial No. 147,597. 15 Claims. (Cl. 24—135.)



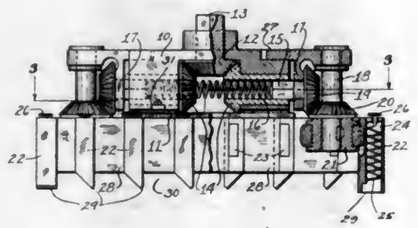
1. A device of the class specified comprising upper and lower gripping members one of which is provided with holding and guiding means between which the ends of the other member may fit and slide longitudinally, said members having wire or cable engaging seats between which the wires or cables may be gripped, said guiding means forming recesses for the ends of the other member at least as wide as the ends of said member to permit free movement of the members toward one another and also having inclined seats adapted to grip the wires of cables more firmly as the result of a relative longitudinal movement of said upper and lower members and bolt members for holding said gripping or clamping members in position and permitting relative longitudinal movement between the same.

1,667,346. ACETYLENE GENERATOR. EARL M. EVLETH, Grand Haven, Mich., assignor to The Bastian-Blessing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1925. Serial No. 48,023. 20 Claims. (Cl. 48—36.)



1. A portable acetylene generator having a generator controlling member, means for locking the same, a truck for supporting the generator, and having running gear, means for locking said running gear, and means for preventing the release of the first mentioned locking means when the running gear is unlocked.

1,667,347. CHAIN SAW. LEE C. FIELD, Cincinnati, Ohio. Filed May 25, 1927. Serial No. 194,063. 10 Claims. (Cl. 144—73.)

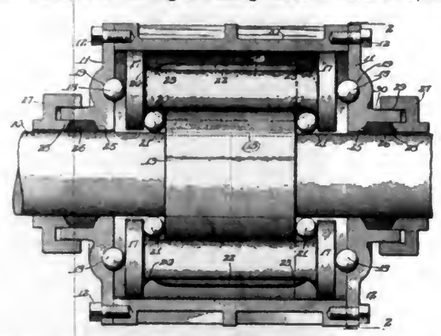


1. An endless flexible saw comprising a series of spaced and vertically extending hollow cutting elements; flexible elements adapted to extend from one of said cutting elements to the other; and means for operating said saw.

1,667,348. ROLLER BEARING. JOHN W. FOLEY, Chicago, Ill. Filed Feb. 9, 1927. Serial No. 166,833. 12 Claims. (Cl. 308—206.)

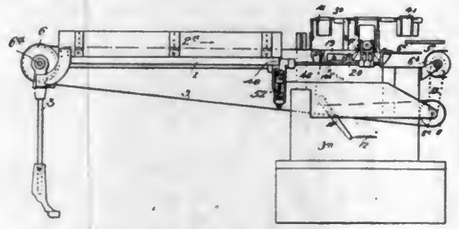
1. A roller bearing embodying a casing, a shaft extending therethrough, a sleeve carried by the shaft, said sleeve being of a diameter considerably less than the diameter

of the casing and of a length to terminate short of the end walls of the casing, rollers between the sleeve and the casing and having a rolling contact with both, ball



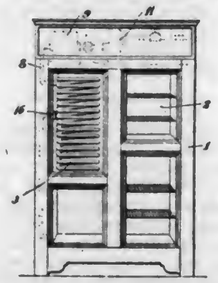
bearings between the casing end walls and the adjacent ends of the respective rollers, and elongated spacing rollers between adjacent first recited rollers.

1,667,349. CONVEYING MECHANISM. CHARLES GUERITEY, Passaic, N. J., assignor to Passaic Metal Ware Co., Passaic, N. J., a Corporation of New Jersey. Original application filed Nov. 27, 1922, Serial No. 603,610. Divided and this application filed Oct. 23, 1923. Serial No. 670,284. 1 Claim. (Cl. 113—115.)



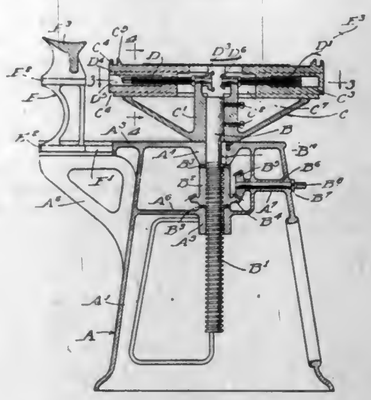
The combination of means to feed containers successively, a transferrer having means to receive said containers, a shaft carrying said transferrer, a gear upon the shaft, a rack to operate the gear, a reciprocative rod to operate the rack, said rod having a plurality of members and interposed resilient means to cushion the thrusts of the rod, means to reciprocate the rod, means to push containers from the transferrer, and seaming mechanism comprising a turret provided with receivers for the containers.

1,667,350. REFRIGERATING APPARATUS. LOUIS HELMER, New York, N. Y. Filed May 27, 1924. Serial No. 716,141. 1 Claim. (Cl. 62—116.)



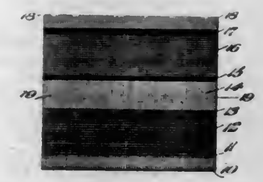
In a refrigerator, a cyclic gas cooling system comprising an expansion coil located in one compartment, a condenser located in the wall of the refrigerator and substantially covering the entire area thereof, a compressor and fluid actuated motor therefor located above the condenser in a compartment of the refrigerator, and means connecting the exhaust of said fluid actuated motor to the condenser whereby the exhaust fluid acts to liquefy the condensed gas.

1,667,351. TIRE REMOVER. SAMUEL L. LEVITT, Chicago, Ill. Filed Mar. 9, 1927. Serial No. 173,807. 8 Claims. (Cl. 157—6.)



1. A tire removing and applying device which includes a base, tire supporting means thereon, a working head, rim or wheel engaging means mounted thereon, means for imparting to said working head a vertical movement in relation to said tire supporting means, and means for forcing the tire valve out of line with the wheel or rim in response to such relative movement of tire and rim or wheel.

1,667,352. STOCKING TOP. HAROLD LICHTEN, Philadelphia, Pa. Filed Feb. 26, 1924. Serial No. 695,208. 1 Claim. (Cl. 66—173.)

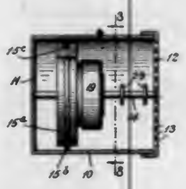


In a stocking construction, a welt, a continuous reinforcing band extending circumferentially in said welt and formed of fabric knitted with more threads than the body of said welt and of a greater thickness than said body, and a pair of spaced bands on opposite sides of said reinforcing band and formed by knitting a yarn of different color from the yarn in said reinforcing band.

1,667,353. TOY. BURT E. LLOYD, Woodcliff, N. J. Filed Oct. 23, 1923, Serial No. 670,261, and in Great Britain Apr. 26, 1923. 5 Claims. (Cl. 46—46.)

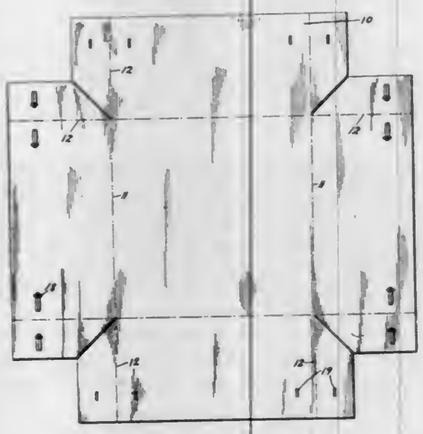
3. A device of the kind described comprising an air chamber, a plunger slidably fitting the interior of said chamber and adapted to force air therefrom, a sound-

producing device carried by said plunger and operated by the air forced from said chamber, a stem extending in the direction of the length of said chamber from one



end thereof, spaced discs located on said stem and a flexible lip carried by said plunger whereby the sound emanating from said device is articulated.

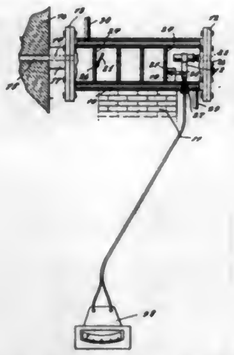
1,667,354. CONTAINER OR BOX. LOUIS A. LUPIEN, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed July 12, 1924. Serial No. 725,581. 3 Claims. (Cl. 229—32.)



1. As an article of manufacture, a container blank adapted to be formed into a box, fastener members formed of sheet metal and provided with an eye opening at one end, said fastener members including prong members extending in a side-by-side relation in the same plane, and anchoring members passing through the blank and the eye openings to hold the fastener member in a flat disposition on a surface of the blank until used to hold the blank in folded container form the anchoring members being visible from the exterior when the blank is in folded form, the prongs being adapted to hold the box in assembled relation by extending through apertures in the blank and by being spread beyond the aperture.

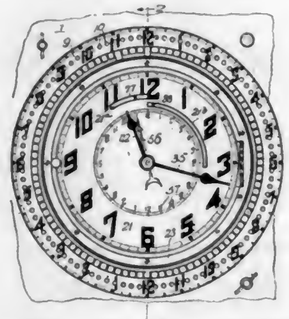
1,667,355. DEVICE FOR HOLDING PYROMETERS. FREDERICK H. NORTON, Newell, W. Va., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 7, 1925. Serial No. 7,514. 7 Claims. (Cl. 73—32.)

1. In a device for holding a radiation pyrometer or the like, a container having a passage therethrough, the rear end of said container being adapted for close association with a sight hole of a combustion kiln or the like, means in said container for holding a thermo-element in a sighting position with reference to said passage and with the sighting end thereof adjacent the



front end of the container, and means for preventing circulation of gases from said kiln through said container.

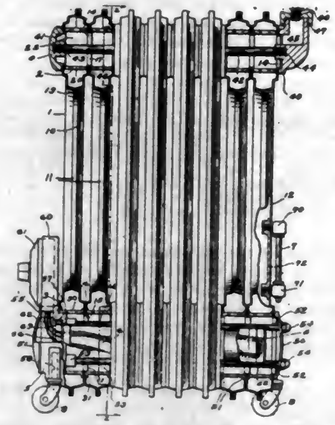
1,667,356. TIME-CONTROLLED APPARATUS. CHARLES M. PEACOCK, Oak Park, Ill. Filed Aug. 29, 1925. Serial No. 53,223. 7 Claims. (Cl. 200—37.)



2. An apparatus of the kind described embodying therein, an escapement wheel, means normally acting to rotate the same, a contact member carried thereby, means providing a plurality of annularly arranged yieldable contact fingers concentric with said wheel, means normally holding said contact fingers in an inoperative position with respect to said contact member, means for releasing desired contact fingers so that they will yield inwardly to an operative position to be engaged by said contact member, an anchor member associated with said escapement wheel to alternately yield to and hold said wheel, a constantly rotating shaft, and means connecting said shaft and anchor to actuate the same.

1,667,357. SHEET-METAL RADIATOR. CLARENCE H. PICKERING and JOHN CAMPBELL, Seattle, Wash., assignors to Swan Heating Company, Seattle, Wash., a Corporation of Washington. Filed Dec. 31, 1925. Serial No. 78,546. 3 Claims. (Cl. 257—140.)

3. In a radiator, in combination with a plurality of units having aligned apertures, a cap closing the outermost aperture at one end of the radiator, a ring closing the aperture at its other end, a plurality of clamping rods extending between said cap and said ring, and arranged about the axis of the aligned apertures, a tube open at one end, and having its open end received within the ring and its closed end supporting by said rods, a flange surrounding the open end of said tube, the ring

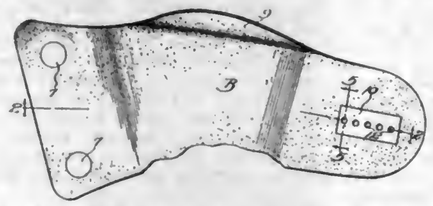


being shouldered to receive said flange, and a clamping ring threaded in said ring and clamping said flange between itself and said shoulder.

1,667,358. FUEL BRIQUETTE AND METHOD OF MAKING SAME. JACOB SHOTWELL ROBESON, Pennington, N. J. Filed Sept. 26, 1924. Serial No. 740,040. 16 Claims. (Cl. 44—24.)

1. A fuel briquette of tubular form, including fine coal, oil and lignone, the surface portions being harder than the inner portions, and containing a lower percentage of volatile matter.

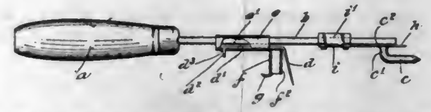
1,667,359. ARCH SUPPORT. EUGENE SESSLER, Chicago, Ill. Filed June 9, 1926. Serial No. 114,600. 3 Claims. (Cl. 36—71.)



1. In an arch support, the combination of an elongated spring plate arched lengthwise and provided at its forward end with diverging arms, the plate being slotted in the region of the arch center whereby to increase its flexibility at that point, a cushion supported by the plate and extending thereover at every point, means fixedly connecting the cushion to the plate at the forward ends of the two arms thereof, and other means adjustably securing the cushion to the plate at a point adjacent the rear end thereof, the curvature of the arch in the plate being variable according to adjustments in the connection between the cushion and plate.

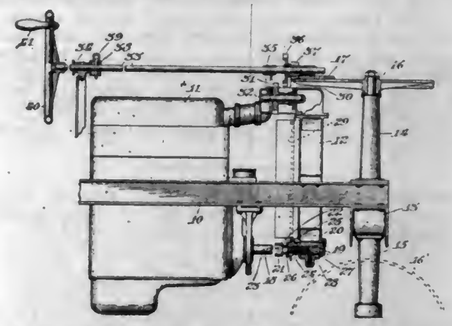
1,667,360. CAN OPENER. JOHN T. SWEENEY, Kingston, N. Y. Filed Aug. 4, 1922. Serial No. 579,586. 6 Claims. (Cl. 30—3.)

1. A can opener embodying therein a shank, a piercing point projecting forwardly of the end of said shank and having a pivot portion whereby said point is spaced away from said shank, and a slide including therein a metal cutting blade, a guide member adjacent thereto and projecting from said shank a distance greater than said piercing point, and laterally of said shank with the opposite sides or wings thereof projected forwardly to form separated bearing points upon opposite sides of said blade, whereby said slide will automatically adjust itself to cans of different diameters, and means carried



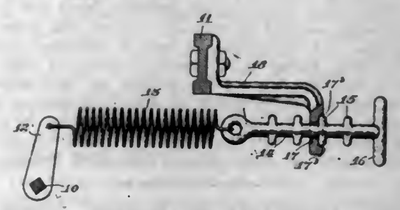
by said slide and having a free sliding fit with said shank, whereby said metal cutting blade may be quickly brought into a desired relation to the top of a can adjacent the edge thereof, and said guide will engage the outside of a can body closely adjacent said cutting blade, said slide being adapted to move freely toward and from said piercing point when removing the top from a can.

1,667,361. CONTROL MECHANISM FOR TRACTORS. JOHN E. ANTHONY, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 26, 1923. Serial No. 677,161. 3 Claims. (Cl. 180—78.)



1. Control mechanism for self-propelled vehicles comprising the combination of an upright steering standard having an arcuate rack fixed thereto, a cranking shaft having drive gearing connected thereto and located adjacent said arcuate rack, and an axially shiftable actuating shaft provided with spur gears positioned between said rack and drive gearing and adapted to be engaged with either, alternatively, by axial movement of said actuating shaft.

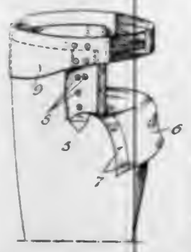
1,667,362. TENSION-ADJUSTING DEVICE. MENNO VAN DER VLIET, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 20, 1923. Serial No. 638,368. 8 Claims. (Cl. 267—73.)



1. A tension adjusting device comprising the combination with a retractile spring and a fixed bracket member provided with a slotted opening and a seat on its outer face, of a rod positioned in said opening and having one end swiveled to the spring, and a series of spaced projections along said rod adapted to pass through the

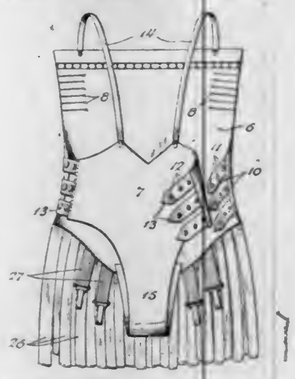
opening in the bracket when the rod is turned to a certain position and to engage said seat under tension of the spring when the rod is turned to another position, the rod being locked against turning when in the last mentioned position.

1,667,363. TROUSERS. MARIA STINGHE WAGNER, New York, N. Y. Filed Mar. 2, 1927. Serial No. 172,021. 2 Claims. (Cl. 2—227.)



2. A pair of trousers comprising a waist section including front and back portions, a waist encircling belt secured to the waist section over the hips and having the front portion thereof simulating a part of a waistcoat, and a plurality of fasteners secured to said front portion and to said belt over the hips, said fasteners being arranged in upwardly diverging rows to either of which may be secured said back portion, and said back portion of the waist section covering the back portion of said belt when the former is secured to said fasteners.

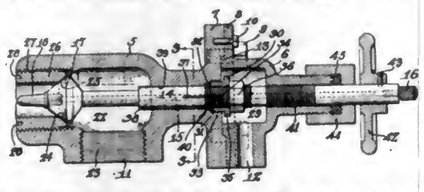
1,667,364. UNDERGARMENT. MARIA STINGHE WAGNER, New York, N. Y. Filed Mar. 2, 1927. Serial No. 172,023. 1 Claim. (Cl. 2—30.)



A combination undergarment including front and back sections each adapted to partially encircle the body of the wearer and cooperating to form a combined corset and brassière, means to adjustably secure said sections together over the hips of the wearer, an intermediate section forming an extension of said back section and attachable to said front section, and a skirt for the undergarment including a plurality of separable strips depending from the lower edge of said front section.

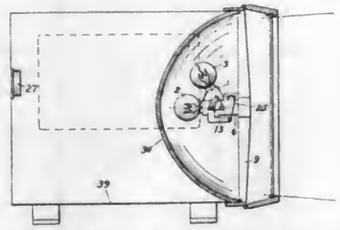
1,667,365. ADJUSTABLE OIL BURNER. ARTHUR C. WARD, Oakmont, Pa., assignor to The Autocar Company, Ardmore, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1923. Serial No. 633,596. 10 Claims. (Cl. 158—76.)

1. In an oil burner, a hollow body, an adjustable valve seat within the body having lateral oil openings, a hollow spindle extending longitudinally of the body, a tapered valve carried by the spindle and engaging the seat, an air inlet to the body supplying air about the valve, a portion of the body being bored to fit the surface of the spindle and in closed positions of the valve to shut off lateral access to oil openings leading into



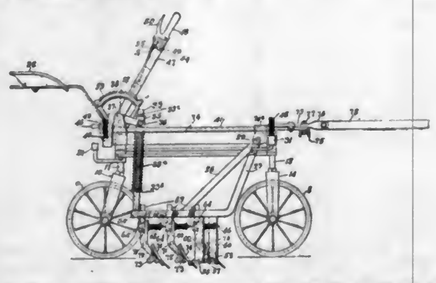
the interior of the spindle, a cut-off valve adjustable in position to expose varying lengths of these openings, an oil inlet permitting flow of oil about the cut-off valve and means for moving the spindle axially to open the air valve and cut-off valve and expose the openings concurrently.

1,667,366. AUTOMATIC SAFETY HEADLIGHT. ALEXANDER W. WEIR, Bronx, JACOB WEINGARTEN, Brooklyn, and WILLIAM G. SWITZER, Menands, N. Y. Filed June 10, 1927. Serial No. 197,950. 17 Claims. (Cl. 240—37.)



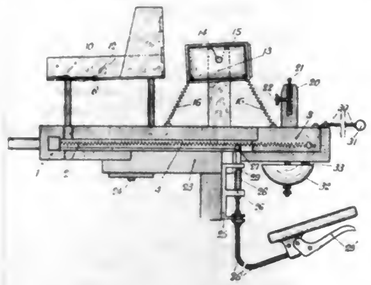
1. In a lamp of the class described, a reflector, a movable support associated with the reflector, a plurality of electric bulbs, carried by the support so one is normally in the focus of the reflector, means for holding the support in said normal position, part of said means adapted to be destroyed either by current flowing therethrough or by breakage, means under the control of the current passing through the bulb normally at the reflector focus, for passing current through said part to be destroyed and means associated with said holding means for initiating movement of said support to carry another of said bulbs into substantially the position first occupied by said first normally positioned bulb, after said part is destroyed.

1,667,367. CULTIVATOR. JOHN F. WILGUS, Casstown, Ohio. Filed Dec. 7, 1921. Serial No. 520,508. 5 Claims. (Cl. 97—242.)



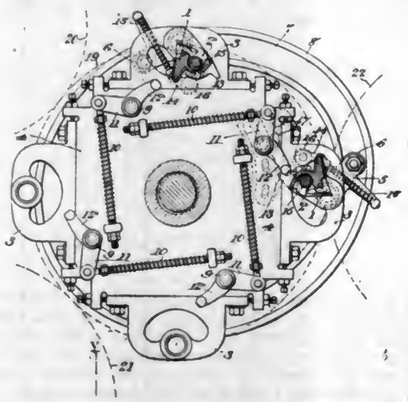
1. In a cultivator, the combination, with a frame and supporting wheels located at the front and rear of the frame, the rear wheel being substantially on the central line of draft and the forward wheels being spaced apart on either side thereof, of two pairs of shovel gangs, one pair at each side of said wheels, and rack and pinion mechanism adapted to adjust the gangs laterally.

1,667,368. APPARATUS FOR AUTOMATICALLY IGNITING FLASH-LIGHT POWDER. PIETER JAN BAKKER, Amsterdam, Netherlands. Filed Oct. 16, 1926, Serial No. 142,124, and in the Netherlands May 5, 1926. 8 Claims. (Cl. 67—33.)



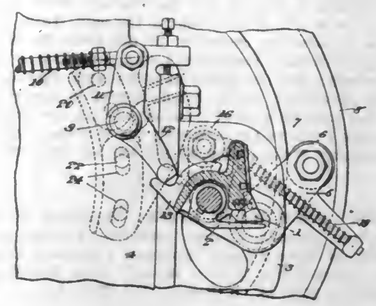
1. In an apparatus for automatically igniting flashlight powder, a first ignition unit for igniting a flashlight powder, a second ignition unit for lighting said first unit, an igniting surface for said second unit, means for automatically shifting said second unit along said ignition surface in order to light said second unit, and means for moving said second unit, while burning, to a position adjacent said first unit to light the latter and thereby ignite the flashlight powder.

1,667,369. SHEET-FOLDING MECHANISM. HOWARD M. BARBER, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed Apr. 2, 1927. Serial No. 180,500. 8 Claims. (Cl. 270—71.)



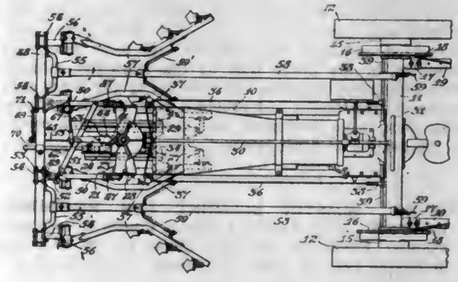
1. In a sheet folding mechanism, floating folding jaws, and means for counteracting their centrifugal force during a predetermined arc of their rotary path.

1,667,370. SHEET-FOLDING MECHANISM. HOWARD M. BARBER, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed Apr. 2, 1927. Serial No. 180,501. 6 Claims. (Cl. 270—71.)



1. In a folding mechanism, a rotary carrier, a pair of folding jaws carried thereby, and means for controlling the opening and closing of the jaws, said means including an extensible and contractible cam.

1,667,371. TRACTOR CULTIVATOR. BERT R. BENJAMIN, Oak Park, and CLEMMA R. RANEY, Chicago, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 5, 1925. Serial No. 48,200. 17 Claims. (Cl. 97—47.)



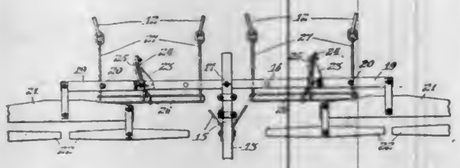
1. In a power propelled cultivator, the combination of a main frame, an implement frame mounted thereon for lateral movement and carrying vertically movable tool beams, means for raising and lowering the beams, dirigible carrying means supporting the front of the main frame and differentially driven traction wheels supporting the rear, individually operable brakes for the traction wheels, steering means connected to the front carrying means and the implement frame for guiding the machine and correspondingly shifting the implement frame laterally, means operable by the steering means for actuating the brakes of the traction wheel at the inner side during a turn, and means for preventing operation of the brakes by the steering means when the beams are down.

8. In a power propelled cultivator, the combination of a frame, cultivating tools mounted thereon for lateral movement, a swiveled steering truck supporting the front of the frame and differentially driven traction wheels supporting the rear, individually operable brakes for the traction wheels, means for steering the truck including an upright rotatable shaft, an arm journaled on said shaft and having a brake applying connection with each brake, a second oppositely extending arm fixed on said shaft and having a lost motion coupling with the first arm, means for connecting said second arm to the tools

to impart lateral movement thereto, and means restricting lateral movement of the tools when so connected to within the range of independent movement of the fixed arm.

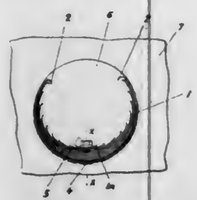
14. In a tractor cultivator for use in fields prepared for row crops, the combination of a narrow tread dirigible truck forming a support for the tractor, earth working tools on each side of and behind the said truck, means actuated by steering movement of the truck for shifting the tools laterally including means providing a range of movement for the tools amplified over that of the steering movement, means complemental to the steering truck for causing a short turn of the tractor, and unitary control means for actuating the steering truck and for obtaining a short turn at the end of the rows.

1,667,372. FOUR-HORSE HITCH. SHERMAN W. CADY, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 4, 1924. Serial No. 753,793. 6 Claims. (Cl. 278—9.)



1. In a device of the class described, the combination of a main horizontally extending equalizer bar having a pivotal support at its center, substantially vertical draft levers pivoted between their ends near the respective ends of said bar, substantially horizontal draft levers also pivoted on said main equalizer bar each lever being link connected to the upper ends of the respective vertical levers, secondary equalizer bars carried by the lower ends of the vertical levers and provided with means for coupling them to an implement, and draft connecting means on the horizontal draft levers.

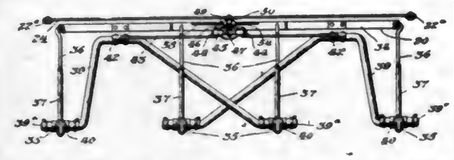
1,667,373. ELASTIC ELEMENT FOR RESILIENT WHEELS. JEAN FRANÇOIS PASCAL COSTE, Billancourt, France. Filed Apr. 29, 1926, Serial No. 105,374, and in France Jan. 16, 1926. 2 Claims. (Cl. 152—28.)



1. An elastic element for a resilient wheel comprising an assemblage of spring plates of progressively decreasing lengths superposed centrally upon each other, secured together at the median lines thereof and curved to the form of a split ring, the shortest plate being nearest the center.

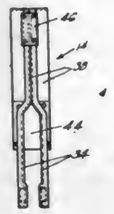
1,667,374. CULTIVATOR. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 12, 1921. Serial No. 514,500. 46 Claims. (Cl. 97—155.)

10. A cultivator comprising a frame, swiveled wheels supporting the frame, a pair of laterally shiftable arches suspended from the frame, the inner arms of said arches being extended and crossed, cultivator beams pivoted to the arms of said arches, guiding mechanism connected to said wheels and arches for shifting them towards either



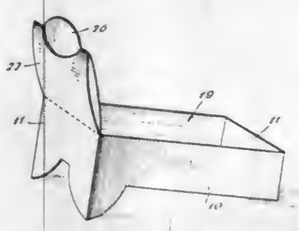
side in unison, and means for moving the arches towards and from each other, thereby correspondingly moving the beams of both pairs simultaneously.

1,667,375. METHOD OF MAKING BRAKE SHOES. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed July 27, 1925. Serial No. 46,242. 4 Claims. (Cl. 29—148.)



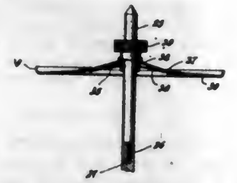
4. That method of making brake shoe sections which comprises the operations of drawing two reversely contoured sheet metal parts each having a curved web and a laterally-extending arcuate flange thereon, assembling the said parts with the webs back to back at one portion of their length and separated at another and with the arcuate flanges in axial alinement to present a widened support for a brake lining, and connecting the abutting portions of the web to form a unitary structure.

1,667,376. DISPLAY CONTAINER. EMIL WILLIAM FEHRENKAMP, Kansas City, Mo., assignor to Burd & Fletcher Company, Kansas City, Mo., a Corporation of Missouri. Filed July 8, 1926. Serial No. 121,073. 1 Claim. (Cl. 206—44.)



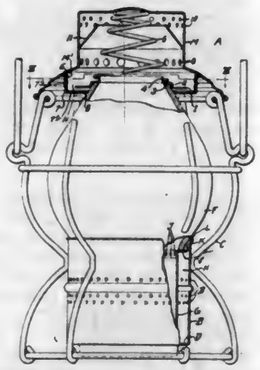
A foldable display container the material of which is scored to provide a body including sides and ends, bottom sections extending from the lower edges of said sides and having cooperating means for interlocking the same, bottom flaps extending from said ends and foldable inwardly into superimposed relation to said bottom sections with one of said flaps cut to provide supporting members depending from one end of the container to support the body in an inclined position, said bottom sections and bottom flaps combining to form the bottom of the container, and side flaps extending from the sides of said body and each having a portion engageable with one of said sides and another portion engageable with the bottom formed by said bottom flaps and sections to reinforce the same, the combined widths of the latter portions of said side flaps being substantially equal to the distance between the sides of said body with the free longitudinal edges of said latter portions in abutting relation to each other whereby said other portions will be disposed in the same plane with each other and in engagement with said bottom flaps.

1,667,377. LOCKING DEVICE. MORRIS M. GRUBER, East Orange, N. J., assignor, by mesne assignments, to Sonora Phonograph Company, Inc., a Corporation of New York. Filed Feb. 21, 1923. Serial No. 620,470. 3 Claims. (Cl. 274—1.)



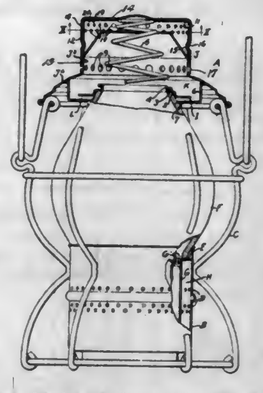
3. In a device of the character described, a record support, a spindle projecting beyond said support and adapted to transfix disk records by their central orifices, a collar slidable upon said spindle, said collar being provided with radially arranged, inwardly projecting, upwardly slanting slits extending through the wall of said collar, spring members each having its inner end positioned in one of said slits and its outer end extending radially from said collar and secured at its extremity to a record securing plate arranged concentrically to said collar and having a central orifice in which said collar is positioned, whereby said collar and said plate may be moved together along said spindle and when said collar is moved along said spindle and relatively to said plate, the ends of said spring members positioned in the slits of said collar will be pressed against said spindle by a movement in one direction of said collar and drawn out of contact with said spindle by the reverse movement of said collar, thus permitting said plate to be locked to said spindle by relative movement of said collar to said plate.

1,667,378. HAND LANTERN. ALEXANDER H. HANDLAN, St. Louis, Mo. Filed Oct. 24, 1925. Serial No. 64,508. 3 Claims. (Cl. 240—38.)



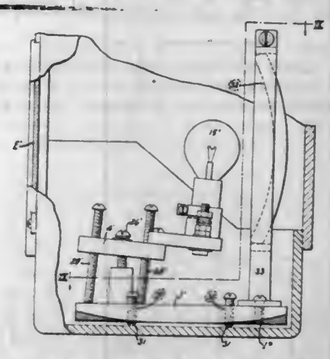
1. A lantern having a dome, a globe, a seat for the bottom face of said globe, a spring-pressed globe holder within said dome, and means whereby said globe holder is retained in position with relation to said dome, the last mentioned means including a cup-shaped member having attaching means whereby said member may be secured in place and a portion which overlaps a portion of said globe holder and limits the downward movement of said globe holder, said member being removable whereby said globe holder may be removed from the lantern.

1,667,379. LANTERN. ALEXANDER H. HANDLAN, St. Louis, Mo. Filed Oct. 29, 1925. Serial No. 65,665. 5 Claims. (Cl. 240—38.)



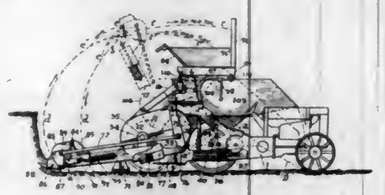
1. A lantern having a dome provided with apertures formed through a wall thereof, an annular rotatable member arranged adjacent to said apertured wall of said dome, and means whereby said rotatable member is rotatably connected to said dome but is prevented from moving longitudinally thereof, said means comprising an annular bead formed on one of said elements and extended into an annular depression in the other of said elements.

1,667,380. LIGHT-SOURCE SUPPORT. ALEXANDER H. HANDLAN, St. Louis, Mo. Filed Feb. 6, 1926. Serial No. 86,470. 3 Claims. (Cl. 240—44.)



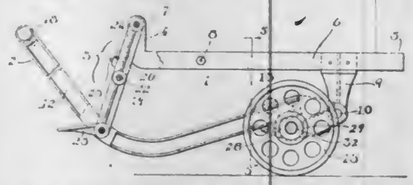
1. A device for focusing a lamp relatively to a reflector, comprising, in combination, a support having apertures therein, adjusting members extending through the apertures, a fibrous supporting plate secured to and offset from the support, a lamp supporting sleeve carried by the fibrous supporting plate, and binder posts mounted on the fibrous supporting plate for connecting the lamp supporting sleeve with electric terminals, the support being operable by means of the adjusting members to impart tilting adjustment in all directions to the lamp supporting sleeve.

1,667,381. EXCAVATING MACHINE. OLAF HETLESATER, Seattle, Wash.; Elisabeth Hetlesater executrix of said Olaf Hetlesater, deceased. Filed Mar. 10, 1926. Serial No. 93,754. 10 Claims. (Cl. 214—78.)



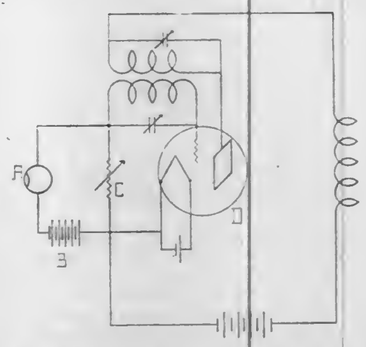
1. The combination of an excavator, a tractor, two side pockets relatively supported on axles having a common center with rear axle of said tractor, a pair of wheels on each of said axles, a supplementary axle on each of said side pockets, a locking device on said tractor, and a balancing wheel on each of said supplementary axles.

1,667,382. LOAD LIFTING AND TRANSPORTING DEVICE. HARRY A. HUNTOON, La Grange, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 21, 1926. Serial No. 117,325. 7 Claims. (Cl. 254—8.)



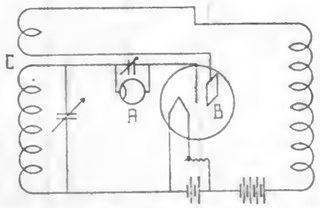
1. In a hand lift truck, a vertically movable horizontal platform adapted to support a load, a lever, supports connecting the lever and the platform at separated points, both of said supports acting as compression members to support the platform with a load thereon when the platform is in load transporting position, and one of said supports acting as a lock constantly pivotally connecting said platform and said lever but releasable to allow the platform and its load to move downwardly.

1,667,383. GRID COUPLED CELL CIRCUIT. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 22, 1924. Serial No. 745,209. 5 Claims. (Cl. 179—171.)



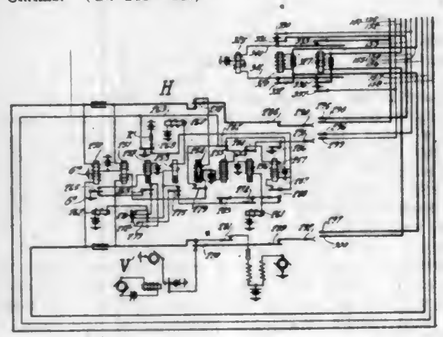
2. In the method of transmitting signals or the like involving the use of radio frequency oscillations, the step which includes interrupting the oscillations in accordance with light transmission from a given source.

1,667,384. GRID-LEAK CELL CIRCUIT. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 22, 1924. Serial No. 745,211. 1 Claim. (Cl. 250—36.)



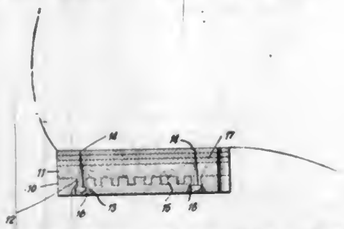
The combination with an electron valve, of a circuit including input and return conductors connected respectively with the grid and filament electrodes of the valve, a variable stopping condenser in series with said input conductor, and a resistance leak in said input conductor shunted about the condenser and comprising a light sensitive cell.

1,667,385. AUTOMATIC TELEPHONE SYSTEM. EDWIN E. JONES, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 9, 1921, Serial No. 443,654. Renewed June 15, 1927. 15 Claims. (Cl. 179—18.)



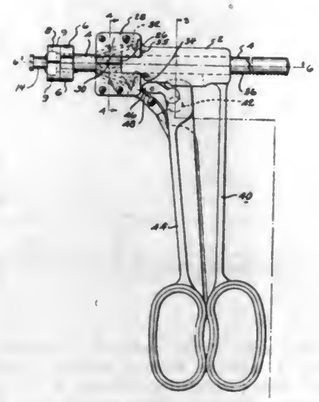
14. In a telephone system, a line, two sets of terminals, the conductors of said line being connected to both sets of terminals, a relay, the connection of said line to one set of terminals including said relay in series, the connection of said line to the other set of terminals excluding said relay, another line, a trunk, means for connecting said other line to said trunk, and means controlled by said relay for extending a talking connection from said trunk to said first line.

1,667,386. COMPOSITE LEATHER HEEL. MILTON B. KETCHAM, Ridgewood, N. J. Filed May 4, 1926. Serial No. 106,646. 1 Claim. (Cl. 36—35.)



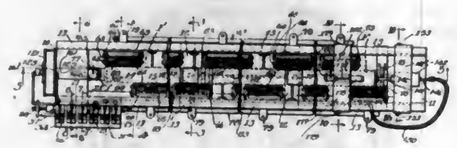
A composite cushion heel comprising a leather top lift having holes therethrough near the edge, said holes being enlarged at their outer parts, and a rubber back or body for the top lift having the rubber extended into and filling the aforesaid holes which are disposed to receive fastening nails.

1,667,387. METAL-DRAWING APPARATUS. DELAMAR C. KINNEAR, Waterbury, Conn., assignor, by mesne assignments, to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 14, 1927. Serial No. 191,522. 10 Claims. (Cl. 205—17.)



1. A drawing apparatus comprising a clamp, an open sided die holder, means for moving said die holder away from said clamp, in combination with a split die the two parts of which have extensions adapted to enter said die holder, a carrier to which said parts are pivoted, and means carried by said die holder along which said carrier is slidable forward and from said die holder.

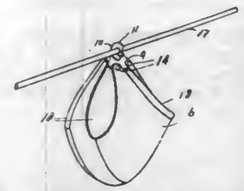
1,667,388. FLUE CLEANING, CUTTING, AND HANDLING MACHINE. JOHN T. MCGRATH, Bloomington, Ill. Filed Aug. 25, 1924. Serial No. 733,877. 26 Claims. (Cl. 29—81.)



1. In a flue cleaning machine, flue supporting elements and rotary driving means, the latter engageable with an end of a flue, a series of lengthwise spaced cleaner elements adapted by gravity for movement from the tube cleaning position, and means to resiliently press the series of cleaner elements against the exterior of the flue.

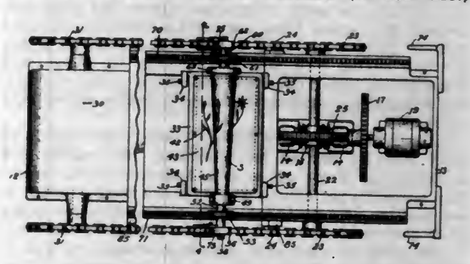
1,667,389. SLIDING CLOTHESPIN BAG. WILLIAM H. ORTH, Philadelphia, Pa. Filed Mar. 24, 1927. Serial No. 177,917. 2 Claims. (Cl. 68—11.)

1. A clothes pin bag comprising a hook including a head and base plate, the latter having a plurality of corners, each having a hole passing therethrough, a piece of flexible fabric of relatively greater dimension than said base plate and having corner portions disposed over the holes in the base plate, buttons, one superimposed on each



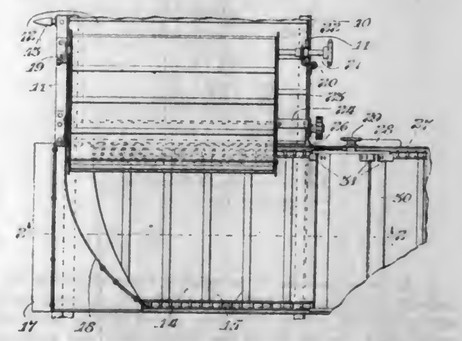
corner of the material and one underlying each hole in the base plate, and threads engaging the buttons and passing through the holes in the base plate and the corners of the material for securing the fabric to the plate.

1,667,390. PRINTING MACHINE. EMIL PEDRAZZO, Guttenberg, and MARIUS TUA, Union City, N. J. Filed Oct. 23, 1925. Serial No. 64,328. 6 Claims. (Cl. 101—115.)



1. In combination, in a printing machine of the character described, a stationary printing unit, a detachable mandrel constructed to securely support the article to be printed, conveying means, means for automatically securing the mandrel to the conveying means, thereby permitting the conveying means to convey the mandrel to and in rolling contact with the printing unit, and means for automatically detaching the mandrel from the conveying means.

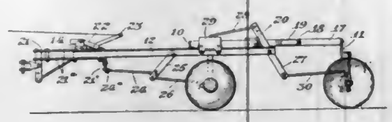
1,667,391. CONVEYING AND FEEDING MECHANISM FOR HARVESTER THRASHERS. CLEMMA R. RANEY, Riverside, and ARNOLD E. W. JOHNSON, Chicago, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 21, 1926. Serial No. 82,092. 8 Claims. (Cl. 198—160.)



1. In a harvester, the combination of a main transversely disposed platform conveyer, a longitudinally disposed feeding conveyer communicating therewith, and an

upper supplemental platform conveyer overhanging the feeding conveyer and being of narrower width than the main platform conveyer.

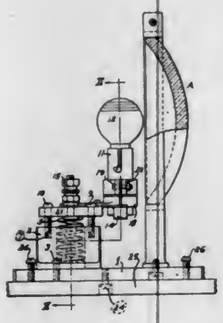
1,667,392. TRACTOR DISK HARROW. CHARLES W. ROBINSON, Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 7, 1922. Serial No. 527,578. 7 Claims. (Cl. 55—83.)



1. In a harrow, front and rear angular frames, couplings between the frames comprising straight rigid members fixed to the outer ends of one frame and projecting towards the second frame, brackets secured to the outer ends of the second frame and provided with projecting portions having fore and aft openings in which said members are loosely received, and means permitting limited longitudinal movement of said members within said openings.

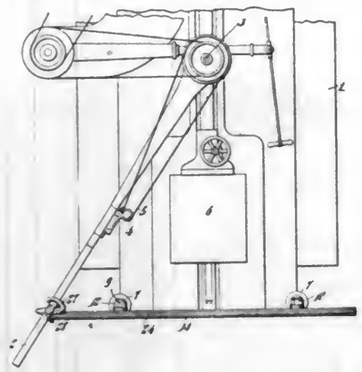
7. In a disk harrow, a harrow frame, disk gangs, and draft governed devices for controlling the angling and straightening of the gangs, said devices including a unitary reversible rod having means formed thereon which in one position of adjustment of the rod enables the gangs to be positively angled by a backward thrust transmitted to the gangs through said unitary reversible rod and in another position of adjustment of the rod provides a lost motion connection which determines the angles which the gangs may be made to assume upon the application of a forwardly directed pull to the harrow.

1,667,393. FOCUSING DEVICE FOR SIGNAL LAMPS. GEORGE H. ROLFES, St. Louis, Mo., assignor to Alexander H. Handlan, St. Louis, Mo. Filed June 19, 1926. Serial No. 117,043. 2 Claims. (Cl. 240—44.)



1. A device for use in focusing a lamp relatively to a reflector comprising a hollow base member, a compression spring located within said base, an adjustable lamp-carrying plate located above the hollow base and normally urged upwardly by means of said compression spring, and a plurality of fastenings spaced about the compression spring and extending from said adjustable plate to the hollow base, said fastenings being independently adjustable to tilt the lamp-carrying plate relatively to the reflector.

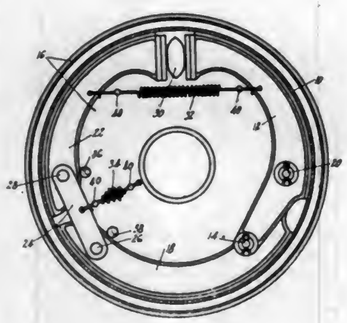
1,667,394. ROUTING MACHINE. VERNON ROYLE, Paterson, N. J. Filed Jan. 11, 1923. Serial No. 612,139. 15 Claims. (Cl. 90—13.2.)



1. In apparatus of the character described, a guide bar having a metallic wearing surface throughout its length and means supporting said bar to allow its rotation to present different bearing surfaces for the support of a sliding tool arm.

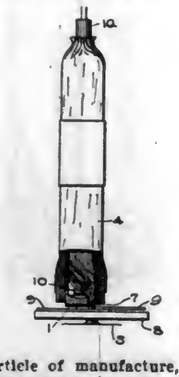
8. In apparatus of the character described, a guide bar, and a combined stop and holder mounted on one end of said guide bar for limiting the lateral movement of the cutter arm of the apparatus while substantially in contact with the guide bar, and also for holding the cutter arm in an inoperative position with respect to the guide bar.

1,667,395. BRAKE. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1925. Serial No. 66,272. 21 Claims. (Cl. 188—78.)



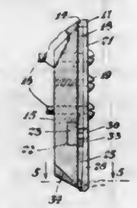
1. A brake comprising, in combination, a drum, shoes engageable with the drum and one of which is pivotally anchored and a rigid floating link pivotally connected at its ends directly to the shoes, the shoes being so arranged that the unanchored shoe turns with the drum and forces the other shoe against the drum through said link.

1,667,396. STEAMING-TUBE PLUG. WILLIAM G. SHELTON, St. Louis, Mo. Filed Dec. 19, 1927. Serial No. 241,107. 7 Claims. (Cl. 132—36.1.)



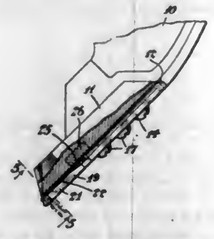
1. As a new article of manufacture, a closure for a hair waving steaming tube comprising a cup-shaped plug with a longitudinally disposed slot in its side adapted to receive a strand of hair.

1,667,397. RIVET-FEEDING MECHANISM. EDWIN B. STIMPSON, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed May 27, 1927. Serial No. 194,628. 5 Claims. (Cl. 218—3.)



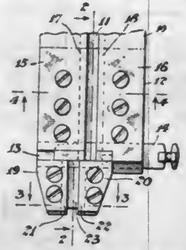
5. Rivet feeding mechanism including a receiving pocket, an inclined feedway in cooperative relation to the pocket, said feedway having a T-shaped feed slot formed therein, a T-shaped delivery slot offset from the feed slot, the lateral arms of the T-shaped delivery slot being of gradually decreasing depth toward the lower end of the feedway, and a reciprocating slide for transferring a rivet from the feed slot to the delivery slot

1,667,398. RIVET-FEEDING MECHANISM. EDWIN B. STIMPSON, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed May 27, 1927. Serial No. 194,629. 4 Claims. (Cl. 218—3.)



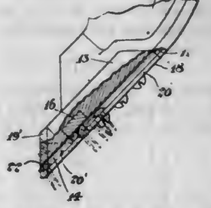
1. A rivet feeding mechanism including an inclined feedway having a T-shaped feed slot formed therein, a T-shaped delivery slot offset from the feed slot, the lateral arms of the T-shaped delivery slot being of a uniform depth throughout a major portion of their length, said depth being less than that of the lateral arms of the feed slot, and means for transferring a rivet from the feed slot to the delivery slot.

1,667,399. RIVET-FEEDING MECHANISM. EDWIN B. STIMPSON, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed May 27, 1927. Serial No. 194,630. 3 Claims. (Cl. 218—3.)



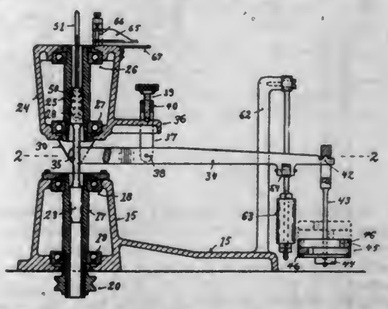
3. Rivet feeding mechanism including an inclined feedway having a T-shaped feed slot formed therein, a T-shaped delivery slot offset from the feed slot, the lateral arms of the delivery slot being of less depth than those of the feed slot and being of uniform depth throughout their length, and a slide for transferring a rivet from the feed slot to the delivery slot, the slide having a T-shaped slot therein, the lateral branches of the slot having their lower walls inclined to guide the rivet heads from the deep feed slot to the shallow delivery slot.

1,667,400. RIVET-FEEDING MECHANISM. EDWIN B. STIMPSON, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed June 9, 1927. Serial No. 197,652. 4 Claims. (Cl. 218—3.)



1. Rivet feeding mechanism including an inclined feedway having a T-shaped feed slot formed therein, a T-shaped delivery slot offset from the feed slot, the lateral arms of the T-shaped delivery slot being of a uniform depth throughout a major portion of their length and being constricted near the lower end of the delivery slot, and means for transferring a rivet from the feed slot to the delivery slot.

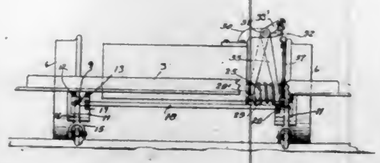
1,667,401. TESTING METHOD AND APPARATUS. FREDERICK W. STOCKMEYER, Cincinnati, Ohio. Filed Sept. 21, 1926, Serial No. 136,859, and in Germany June 11, 1925. 10 Claims. (Cl. 265—13.)



1. A method of testing comprising rotating a test bar in a substantially vertical position with one end of the

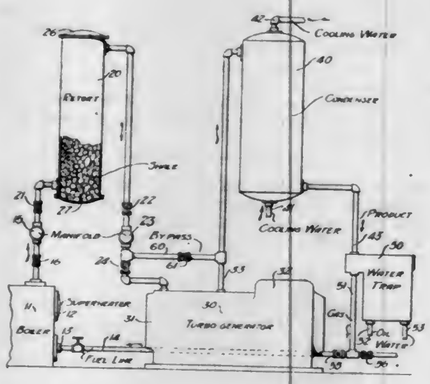
bar upon a fixed axis of rotation and the opposite end of the bar unrestrained, and applying a bending moment to said bar substantially uniform over the whole length of the section under test.

1,667,402. CAR-TRACK-GROOVE CLEANER. EDWARD F. TIPTON, San Francisco, Calif., assignor of one-fourth to Vincent P. King and one-fourth to William W. Bostwick, San Francisco, Calif. Filed Oct. 14, 1926, Serial No. 141,446. Renewed Dec. 19, 1927. 2 Claims. (Cl. 37—36)



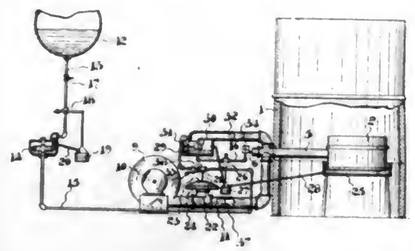
2. In a track groove cleaner for cars, a yoke pivotally mounted upon a car truck, a second yoke at the opposite side of the car truck from the first truck, means connecting them to operate them together to be raised or lowered, a screw thread on the car axle, a lever in contact with said screw thread whereby the yokes are raised when the car is traveling in one direction and lowered when the car is traveling in the opposite direction, and a pin carried by each yoke which is adapted to project into the grooves of each rail when the car is traveling in the proper direction and the yoke lowered.

1,667,403. METHOD OF PRODUCING POWER. MILON J. TRUMBLE, Alhambra, Calif. Filed Oct. 25, 1922. Serial No. 596,725. 3 Claims. (Cl. 60—88.)



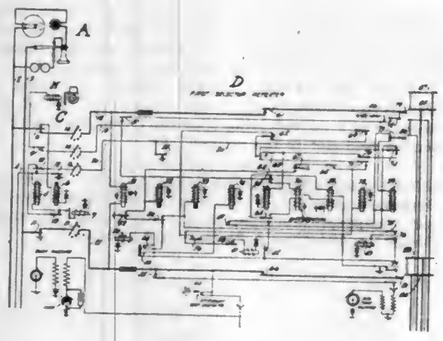
1. A method of utilizing low grade fuel comprising: placing the fuel in an enclosed chamber; blowing steam through said fuel to vaporize the hydrocarbons contained in said fuel; utilizing said steam and hydrocarbon vapors together in a prime mover; and recovering, by condensation, some of the hydrocarbon values from the exhaust of said prime mover.

1,667,404. FUEL-OIL-BURNING APPARATUS. ROBERT C. WHEELER, Toronto, Ontario, Canada, assignor to Superior Engineering Company Limited, Toronto, Canada. Filed Oct. 5, 1926. Serial No. 139,678. 4 Claims. (Cl. 158—42.2.)



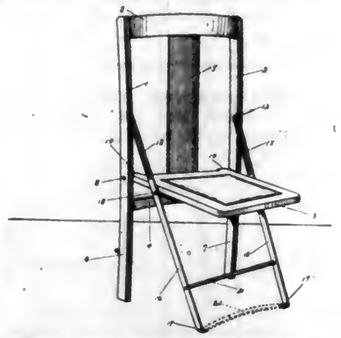
1. In oil burning apparatus, the combination of a burner nozzle; an air supply pipe adapted to supply air to said nozzle; an oil supply pipe adapted to supply oil to said nozzle; a valve in said oil supply pipe; a lever controlling said valve; a diaphragm chamber connected with said air pipe; a diaphragm adapted to be held in a raised position by pressure of air in said chamber; means connecting said lever and diaphragm whereby the lever may be actuated; a second lever adapted to actuate the first mentioned lever; and means for collecting oil from said nozzle adapted when a sufficient weight of oil has accumulated to actuate said second lever to rock the first mentioned lever to close the valve.

1,667,405. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 14, 1923, Serial No. 680,596. Renewed Aug. 26, 1927. 60 Claims. (Cl. 179—27.)



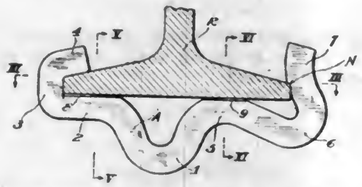
1. In a telephone system, a first directively controlled automatic switch, a second directively controlled automatic switch, means for setting up a connection from a calling to a called subscriber, said connection including said switches in serial relation, a calling bridge in the first switch used during the establishment of the connection to control the second switch, a talking bridge in said first switch used during conversation to supply talking battery to the called line through said second switch, a change-over means in said first switch, and means in the second switch for operating said change-over means to open said calling bridge and to close said talking bridge, the last named means operating whenever the mechanical operation of the second switch is completed.

1,667,406. CHAIR. JOHN J. WILKINSON and MICHAEL A. WILKINSON, Owego, N. Y. Filed Oct. 8, 1927. Serial No. 224,904. 5 Claims. (Cl. 155—141.)



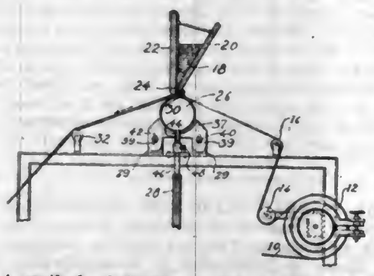
1. A folding chair comprising a frame constituting the rear legs and back, a seat pivoted to said frame, and front legs supporting said seat and having direct pivotal and guided sliding connection with said frame and foldable therewithin.

1,667,407. RAIL ANCHOR. EMANUEL WOODINGS, Oakmont, Pa., assignor to Woodings Forge & Tool Company, Verona, Pa., a Corporation of Pennsylvania. Filed Feb. 18, 1926. Serial No. 89,069. 6 Claims. (Cl. 238—330.)



1. A one-piece rail anchor adapted to extend under a rail and to be retained on the base thereof, having a plurality of faces adapted to engage the underside of the rail at points spaced inward from the edges of the rail and at the forward edges only of the faces, and means to hold the anchor with the edges in engagement with the underside of the rail.

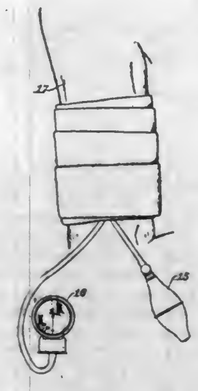
1,667,408. METHOD AND APPARATUS FOR COATING FABRICS. RALPH S. ALLEN, Newark, N. J., assignor to Duratex Corporation, Newark, N. J., a Corporation of New Jersey. Filed Nov. 9, 1921. Serial No. 513,908. 13 Claims. (Cl. 91—68.)



1. A method of forming coated fabrics, which comprises applying a coating composition to the nap of a napped fabric and drawing said composition into said nap by suction applied to the opposite side of said fabric.

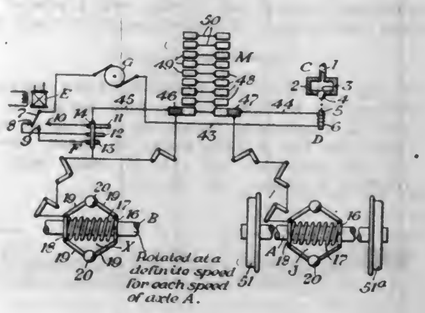
8. An apparatus for coating fabrics which comprises a long suction chamber, a slot in the upper part of said chamber, a composition feeding trough above said slot and a doctor blade adjacent said trough.

1,667,409. ANATOMICAL SLEEVE. DANIEL R. BARR, Grand Rapids, Ohio, assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Sept. 21, 1927. Serial No. 221,102. 3 Claims. (Cl. 128—327.)



1. In a device of the character described, the combination with an elastic air bag, of a binder of a flexible fabric for securing the bag to a limb, comprising at one end a pocket portion for receiving the bag, an intermediate portion defining a continuation of the pocket portion, having the same width as the latter and a length sufficient to substantially overlap the pocket portion in operative position on the limb, and a strap portion at the other end, the strap portion having a width not in excess of one half the width of the other portions and a length sufficient to provide at least three turns about the limb, the strap portion lying on one side of the longitudinal center line of the binder.

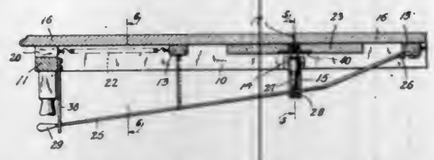
1,667,410. SPEED-RESPONSIVE SYSTEM. CHARLES R. BEALL, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 5, 1923. Serial No. 661,026. 4 Claims. (Cl. 175—355.)



2. In combination, an axle, a first centrifugal device operated by said axle, a shaft operated at a definite speed for each speed of said axle, a second centrifugal

device operated by said shaft, a brush operated by said first centrifugal device, a second brush operated by said second centrifugal device, and means for electrically connecting said first brush with said second brush only when said shaft and said axle are operating at proper relative speeds.

1,667,411. EXTENSION TABLE. JOHN BELLOCCHIO, New York, N. Y. Filed Jan. 4, 1927. Serial No. 158,843. 3 Claims. (Cl. 45—112.)



1. In an extension table, a frame, means to support the frame, a normal table top comprising two parts supported upon the frame and slidable along the same toward and from each other for contraction and extension respectively of the table top, means tending automatically to draw the top members together, an auxiliary leaf nested normally beneath the top aforesaid and located in notched portions of the frame, a plunger rigidly attached to and extending beneath the auxiliary leaf, a lever pivoted to the frame and having sliding connection with the plunger, the free end of the lever extending forward adjacent to one end of the table, and a spring extending between the frame and the lever tending to lift it and the auxiliary leaf automatically bringing it into the plane of the table top when the top members first mentioned are drawn apart.

1,667,412. CONTINUOUS-SHEET-ROLLING APPARATUS. WILLIAM M. BLECKER, Canton, Ohio, assignor to Edward A. Langenbach, Canton, Ohio. Filed Dec. 7, 1925. Serial No. 73,597. 6 Claims. (Cl. 29—17.)



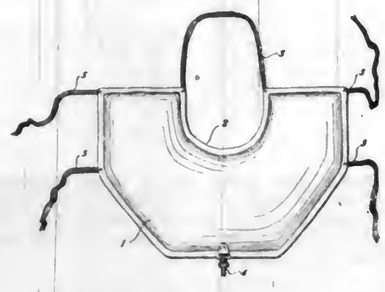
6. An apparatus for the continuous rolling of sheets from bars and the like, including a bar furnace, a series of roughing mills, a matching table, a second series of roughing mills, a second matching table, a series of finishing mills, a doubler, a second series of finishing rolls, loosening and opening mechanism, and means for continuously passing bars through said apparatus and rolling them to sheets of desired gauge in a single pass.

1,667,413. CONTINUOUS-SHEET-ROLLING METHOD. WILLIAM M. BLECKER, Canton, Ohio, assignor to Edward A. Langenbach, Canton, Ohio. Original application filed Dec. 7, 1925, Serial No. 73,597. Divided and this application filed June 30, 1926. Serial No. 119,675. 3 Claims. (Cl. 29—19.)



3. The method of continuous rolling of sheets from bars and the like which consists in passing heated bars successively through a series of roughing mills, matching and reheating the reduced bars, passing them through a second series of roughing mills, again matching and reheating them, passing the matched piles through a series of finishing mills, doubling the piles and passing the doubled packs through a second series of finishing mills and rolling them to sheets of desired gauge all in a single continuous pass.

1,667,414. LIFE PRESERVER. CLYDE W. BRENINGER, Canton, Ohio. Filed Mar. 10, 1927. Serial No. 174,286. 5 Claims. (Cl. 9—17.)



1. A life preserver comprising a pair of substantially semi-circular air bags, and means for supporting one of said bags beneath each arm, so that the ends of the bags are positioned across the back and chest of the wearer.

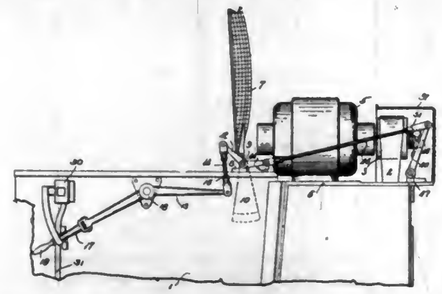
1,667,415. LADY'S HAT. MARGARET DAVIDSON, Philadelphia, Pa. Filed Mar. 15, 1927. Serial No. 175,465. 1 Claim. (Cl. 2—175.)



A lady's hat formed of a crown piece having a depending edge; a foundation element having a central opening and a V-cut with the edges of the V-cut secured together; and a brim section having a central opening and a V-cut with the edges of the V-cut secured together; the edge of the central opening of the foundation element being adapted to be secured to the depending edge of the crown piece, and the edge of the central opening of the brim being adapted to be secured to the outer edge of the foundation element; the outer edges of the foundation element as above formed having a lateral dimension greater than the normal width of the central opening of the brim, whereby the sides of the brim are forced downwardly into drooping position and the front and back of the brim sprung upwardly to prevent drooping of the said front and back, substantially as described.

1,667,416. SAFETY GUARD FOR CENTRIFUGAL MACHINES. CLARENCE H. GARLAND, Boston, Mass., assignor to American Tool and Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1926. Serial No. 98,788. 19 Claims. (Cl. 192—136.)

1. A centrifugal machine of the type having a rotating basket, a casing therefor, a movable cover for the casing, and means for driving the basket, said machine comprising common means for moving the cover and for starting



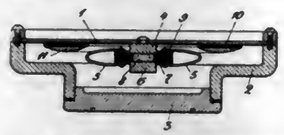
and stopping the basket, said means being so constructed and arranged that the cover cannot be moved from closed to open position as long as the basket is turning.

1,667,417. TOOL AND PROCESS OF MAKING SAME. THOMAS F. GITHENS, Cleveland Heights, Ohio, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 17, 1925. Serial No. 69,602. 4 Claims. (Cl. 76—108.)



1. A tool making process comprising forming an end of a metal shank piece to receive an end of a flute piece in interlocking relation, and in said relation to form with said flute piece end longitudinally extending grooves spaced about the periphery of said end portions, assembling said pieces in said relation, and uniting said pieces by welding along said grooves.

1,667,418. SUBAQUEOUS SOUND-SIGNALING APPARATUS. WALTER HAHNEMANN, Kitzeberg, near Kiel, and ALARD DU BOIS-REYMOND, Plon, near Kiel, Germany, assignors to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Filed Feb. 4, 1921, Serial No. 442,583, and in Germany Nov. 29, 1915. 5 Claims. (Cl. 177—386.)

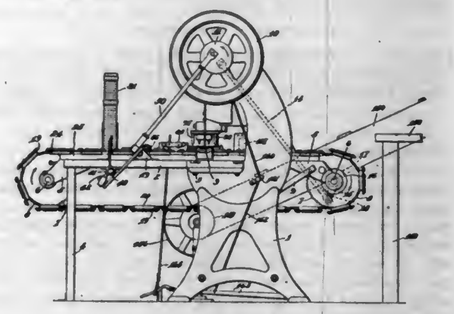


4. In a submarine sound signaling apparatus, a sound radiating diaphragm having a diameter of at least ten centimeters and formed of a material of low specific weight, and energy-converting means connected with said diaphragm, said apparatus having an aggregate damping decrement for the vibratory parts amounting to at least 0.3 whereby the apparatus is substantially prevented from giving an audible sound when it is subjected to the normally occurring undesired extraneous disturbances, the greater portion of said damping being radiation damping developed by said radiating diaphragm.

1,667,419. METHOD OF OXIDIZING MINERAL HYDROCARBONS. JOSEPH HIDY JAMES, Pittsburgh, Pa. Filed Dec. 6, 1921. Serial No. 520,283. 9 Claims. (Cl. 196—142.)

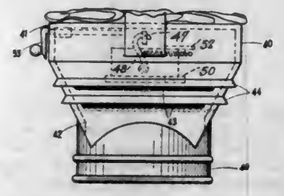
1. In the treatment of a liquid mineral hydrocarbon containing hydrocarbons of different molecular weights, the steps consisting of subjecting the same to heat treatment, at least sufficient to convert a part thereof into vapor or gaseous phase, separating from heavier portions thereof a lighter portion in the vapor or gaseous phase, thereafter mixing a lighter portion while still in vapor or gaseous phase with a gas containing oxygen, passing the vapor-oxygen mixture in contact with a catalyst and partially oxidizing the same within a range of temperature below that of continuous self-sustained combustion and which produces partial oxidation products.

1,667,420. TESTING MACHINE. WILLIAM J. KENT, Brooklyn, N. Y., assignor to The Mechanical Rubber Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 18, 1927. Serial No. 184,500. 11 Claims. (Cl. 209—81.)



1. In a machine for testing the location of electrically conductive inserts in a relatively non-conductive material, means for positioning the material, a contact device comprising a plurality of conductors forming part of an open single electrical circuit, and means for relatively moving said contact device and material to a position where properly located inserts in the material may close the circuit through said conductors.

1,667,421. APPARATUS FOR SAFELY SENDING MAIL BAGS, LUGGAGE, AND SIMILAR OBJECTS FROM AERIAL CRAFTS TO THE GROUND. MARCEL KÜNZER, La Chaux-de-Fonds, Switzerland, assignor to Societe Anonyme pour l'Exploitation des Brevets Künser, Basel, Switzerland. Filed Dec. 11, 1925, Serial No. 74,832, and in Switzerland July 21, 1925. 1 Claim. (Cl. 244—21.)



In an apparatus for safely dropping objects from aerial crafts to the ground and in combination a casing with means for attaching a load thereto, a folded parachute attached to said casing and arranged on the top plate of the same, locking means for containing said parachute, unlocking means and means for facilitating the unfolding of the parachute said means comprising slots and guide planes provided in the side walls of the casing and arranged so as to form a passage way for the air draught created by the falling apparatus and perforations in the top plate adapted to direct said air draught to the under side of the folded parachute.

1,667,422. DEMAGNETIZER. JOHN A. LEWELLYN, Toledo, Ohio, assignor, by mesne assignments, to Robert L. Hinds, Toledo, Ohio. Filed Nov. 13, 1920. Serial No. 423,882. 6 Claims. (Cl. 175—181.)

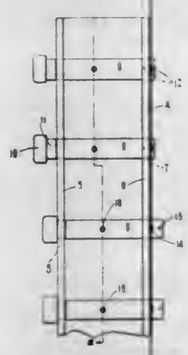


3. A demagnetizer including a section of influence including flux carrying poles to be contacted by the article to be demagnetized, an electromagnet for maintaining said section of influence, said electromagnet embodying simultaneously similar polarity terminal poles, a housing for sustaining the magnetic influence section and enclosing the electromagnet, and a non-conductor non-magnetic filler for the housing.

1,667,423. PROCESS FOR OBTAINING ALKALINE-EARTH-METAL SULPHIDES FROM ALKALINE-EARTH-METAL SULPHATES. THEODOR LICHTENBERGER, Heilbronn, and KONRAD FLOR, Buckeburg, Germany. Filed Mar. 4, 1926, Serial No. 92,334, and in Germany May 8, 1925. 8 Claims. (Cl. 23—137.)

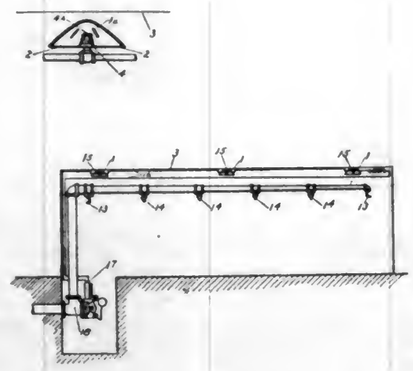
4. Process for obtaining sulphur compounds from alkaline-earth-metal sulphates, comprising dissolving the sulphate in molten alkaline-earth-metal salts which are fusible without water and do not decompose alkaline-earth-metal sulphates when in a molten condition, adding coke to obtain alkaline-earth-metal sulphide, separating the alkaline-earth-metal salts from the alkaline-earth-metal sulphide by sedimentation and drawing off the alkaline-earth-metal salts above.

1,667,424. FENCEPOST. HARRY LINDENSMITH, Walkerton, Ontario, Canada. Filed Mar. 17, 1926. Serial No. 95,439. 1 Claim. (Cl. 256—43.)



A fence post comprising a single member, U-shaped in cross section; spaced square openings in one of the sides of said member; annular openings in the other side of said member, registering opposite said square openings; wire openings in the central portion of said member; tension pins operating in said oppositely registering openings; each of said tension pins provided with a head at one end and a square shoulder adjacent said head, each shoulder being adapted to fit its said square opening; the body portion of said pins being round and adapted to fit its said annular opening, the free end of said pins being provided with transverse openings spaced apart slightly greater than the length of said shoulder and a cotter pin adapted to be fitted into the inner of said openings to retain said shoulder in its said square opening and into the outer of said openings to retain said pin from full disengagement from said member when said pin is partially pulled out.

1,667,425. HEAT-RESPONSIVE APPARATUS. ALBERT J. LOEPSINGER, Providence, R. I., assignor, by mesne assignments, to General Fire Extinguisher Company, Providence, R. I., a Corporation of Delaware. Filed Aug. 27, 1921. Serial No. 496,011. 6 Claims. (Cl. 169—5.)



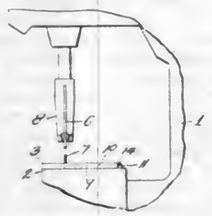
1. Heat responsive apparatus adapted to be controlled by the occurrence of a fire in a predetermined region, comprising means for concentrating heat rays emanating from said region combined with heat responsive means located at the point of concentration.

4. An automatic sprinkler adapted to discharge over a region combined with means adapted to gather heat rays from the said region at the heat responsive part of said sprinkler, said means comprising a reflecting surface having openings therein for permitting passage of fluid beyond the said surface.

1,667,426. GAS-TREATING PROCESS. CORNELIS LOURENS, Amsterdam, Netherlands, assignor to General Norit Company, Limited, Amsterdam, Netherlands, a Corporation of the Netherlands. Filed Nov. 11, 1922, Serial No. 600,483, and in the Netherlands Nov. 14, 1921. 1 Claim. (Cl. 183—4.)

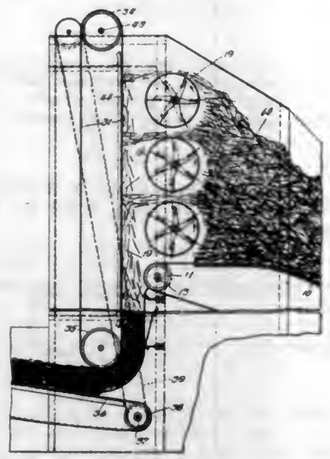
The process of separating gases which comprises passing the gases through a plurality of containers charged with active carbon and cooling said containers so that the last container is cooled more than the first.

1,667,427. SHOE-STITCHER ATTACHMENT. ARNOLD LUTSCHG, Great Bend, Kans. Filed May 18, 1927. Serial No. 192,199. 1 Claim. (Cl. 112—45.)



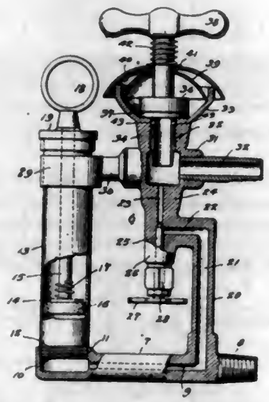
The combination with a stitching machine bed plate, a presser foot above said bed plate, a needle adjacent said presser foot and bed plate, of a channelling device, said device comprising a plate detachably connected to the bed plate, a shaft rotatably mounted in a channel in the underside of the plate, said plate having elongated alined apertures in its outer end in alinement with the needle and through one of which the needle works, a knife carried by the shaft and disposed in the other elongated aperture, the other end of said shaft terminating at the rear side of the plate in a right angularly disposed arm and lugs carried by the rear end of the plate at opposite sides of the shaft and under which the arm is received for holding the knife in operative or inoperative position as desired.

1,667,428. ART OF AGRICULTURE. ARTHUR J. MASON, Homewood, Ill., assignor to Mason Alfalfa Process Company, a Corporation of Delaware. Filed Aug. 18, 1926. Serial No. 129,986. 19 Claims. (Cl. 34—12.)



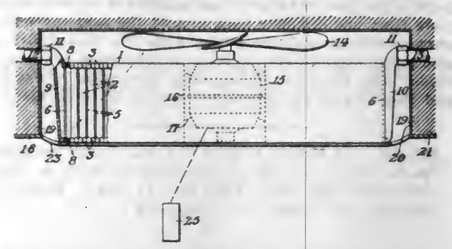
1. In the formation for desiccation of a crop mat of substantially uniform thickness and permeability, the herein described step of loosely depositing the pieces practically individually and promiscuously on a cross sectional surface of the mat.

1,667,429. BLOWTORCH. BRUNO MARTIN, Saginaw, Mich. Filed Oct. 22, 1926. Serial No. 143,360. 9 Claims. (Cl. 158—33.)



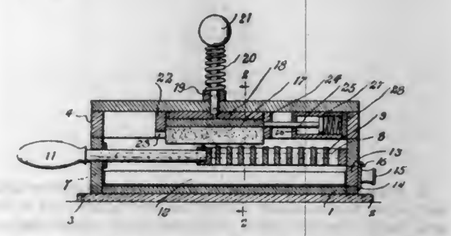
7. In a blow torch, a member having a lateral pipe for connection with a tank, and a filling cup, a closure for the filling cup, a valve controlling the outlet from the filling cup and having a rod passed through said closure, and supplemental closure means within the said closure and within the cup and through which the valve rod loosely passes.

1,667,430. APPARATUS FOR EXCHANGE OF HEAT. VICTOR MAUCK, Merion, Pa. Filed Sept. 13, 1926. Serial No. 134,964. 6 Claims. (Cl. 257—137.)



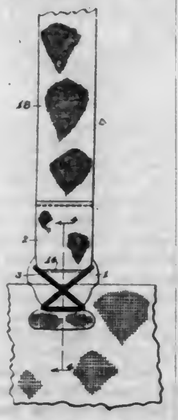
2. In a heating system, a radiator of cellular structure, formed of thin sheet metal walls, forming passageways for air; of a casing exterior to said radiator, in spaced relation therewith; and means arranged to effect the forced circulation of air between said casing and radiator in one direction, and through the radiator in the opposite direction.

1,667,431. ERASER CLEANER. FREDERICK B. MEYERS and HARRY W. DARNEY, Baltimore, Md., assignors of one-half to Reginald Bragonier, Baltimore, Md. Filed July 12, 1927. Serial No. 205,239. 7 Claims. (Cl. 15—142.)



1. An apparatus for the purpose set forth comprising a container constructed to admit an eraser, means for mounting an eraser within the container, a reciprocable scraper fitted within the container to act upon an eraser mounted therein, means for closing the container around the eraser, and means for pressing the eraser against the scraper.

1,667,432. GARMENT SUPPORTER. GEORGE C. MOORE, Westerly, R. I. Filed Feb. 23, 1926. Serial No. 90,028. 2 Claims. (Cl. 24—245.



1. A garment-supporter comprising suspending means, a plate connected above with said suspending means and

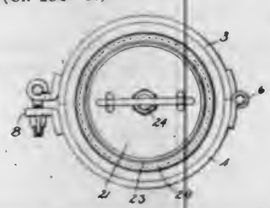
below provided with an anchor-neck adapted to be enveloped by a portion of the garment which is engaged thereby, and a flexible binder connected with one of said parts above the anchor-neck and adapted to be wrapped in more than one complete turn around the said enveloping garment-portion and the anchor-neck, the inflexibility of said plate intermediate the point of connection of the said binder and the said anchor-neck preventing relaxation and loosening of the enwrapped portion of the binder.

1,667,433. OIL-WELL PUMP. WILLIAM DAVID OGLETREE, Mexia, Tex., assignor of one-fourth to John A. Fain, Oklahoma City, Okla. Filed Oct. 11, 1922. Serial No. 593,925. 10 Claims. (Cl. 103—179.)



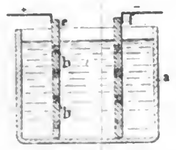
1. A pump of the character described comprising upper and lower heads, means connecting said heads, and a movable head operable upon the connecting means between the first mentioned heads.

1,667,434. METHOD AND APPARATUS FOR MAKING BUILDING UNITS. CHARLES L. NORTON, Boston, Mass. Filed July 15, 1926. Serial No. 122,592. 7 Claims. (Cl. 154—2.)



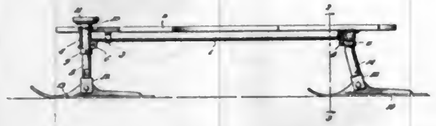
7. A method of manufacturing columnar building units comprising the cutting of a long piece of yieldable fibrous material, coating one of the longitudinal margins of the same with adhesive, overlapping the longitudinal margins and pressing them into adhesive engagement whereby a tubular shell is formed, preparing another similar tubular shell of a smaller diameter, locating one of the shells within the other and placing the shells within a supporting casing having an inner diameter somewhat greater than the outer diameter of the outer shell and pouring cementitious material in the space between the shells while the adhesive in the outer shell remains in a semi-soft state whereby relative movement between the overlapping marginal portions of the shell may take place and it may expand and conform somewhat to the shape imposed by the pressure of the poured material and defined by the internal shape of the casing.

1,667,435. LEAD ACCUMULATOR. RENE OPPENHEIM, Levallois-Perret, France, assignor to Société Anonyme le Carbone, Levallois-Perret, France. Filed Apr. 18, 1925, Serial No. 24,235, and in France June 14, 1924. 7 Claims. (Cl. 136—27.)



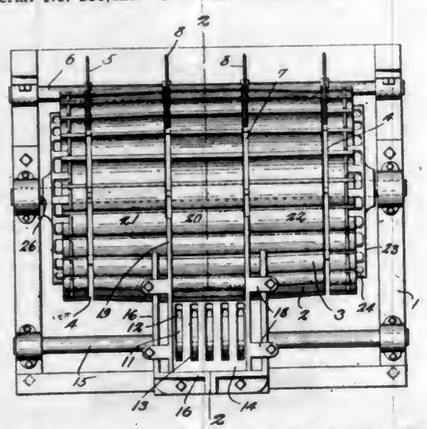
1. An electrode element for lead accumulators comprising an intimate mixture of powdered electrode material and a finely divided porous material rendered impermeable to liquids but having a high absorption power for gases.

1,667,436. SCOOTER SLED. AUSTIN E. RAINEY, Grove City, Pa. Filed Mar. 23, 1927. Serial No. 177,786. 2 Claims. (Cl. 280—16.)



1. A coaster sled comprising a reach bar, a cluster fitting at each end of the reach bar, short bars coupled to the rear fitting and projecting laterally therefrom in opposite directions, a platform secured to the reach bar and engaging the rear cross bars, a steering post mounted in the front fitting, a steering member coupled to the upper end of the steering post, a rear post coupled to the rear fitting, and runners at the lower ends of the steering and rear posts.

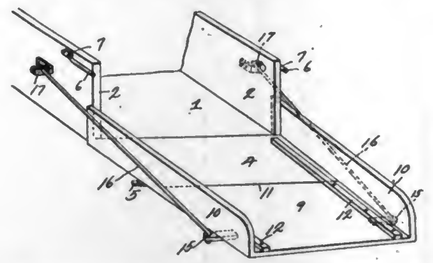
1,667,437. MACHINE FOR CUTTING FISH. ARTHUR R. ROGERS, Jonesport, Me. Filed Sept. 29, 1926. Serial No. 138,423. 5 Claims. (Cl. 17—2.)



1. A machine for cutting fish including a rotary drum tapered toward its ends from its center and having longitudinal channels in its periphery, said channels being inclined from intermediate points toward the ends of the drum, means for centering fish upon the central portion of the drum and within the respective channels, cutters

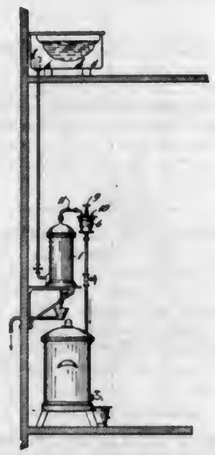
working transversely of the channels while the drum is in motion, and means for washing fish from the center of the drum head first toward the ends of the channels into the path of the cutters.

1,667,438. WAGON-BODY SHOVELING BOARD. ORVILLE SANDS and CHARLES EUSTICE, Cuba, Wis. Filed Mar. 27, 1926. Serial No. 97,882. 1 Claim. (Cl. 296—58.)



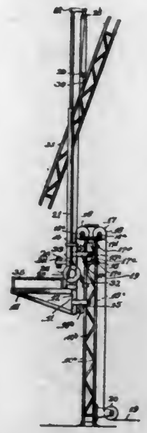
The combination with a wagon end gate, a wagon body, side members carried by the wagon body, said end gate being hingedly connected to the wagon body, of a shovel extension engaging the free end of the end gate in the plane thereof, side members carried by the shovel extension, said side members engaging opposite ends of the end gate and the outer sides of the wagon body sides, cleats carried by the inner side of the shovel extension and spaced from the side members thereof whereby when the end gate is closed said cleats will be received between the side members of the wagon body, cleats carried by the outer side of the shovel extension, all of said cleats engaging opposite sides of the end gate.

1,667,439. APPARATUS FOR PURIFYING AND SIMULTANEOUSLY STERILIZING WATER OR OTHER LIQUIDS OR GASES. JOHAN NICOLAAS ADOLF SAUER, Amsterdam, Netherlands. Filed Aug. 6, 1923, Serial No. 656,056, and in Germany Aug. 18, 1922. 2 Claims. (Cl. 210—132.)



2. An apparatus for purifying fluids comprising a closed container, fluid inlet and outlet means for said container, means in said container for suspending absorbent material in the fluid in said container, a device in said container for separating absorbent material from the fluid and communicating with said fluid outlet means, and a filter chamber communicating with the said fluid outlet means of said container, said chamber containing a filtering body comprising active carbon.

1,667,440. MAST-ERECTING APPARATUS. ALBERT T. SCANNELL, Chicago, Ill. Filed Dec. 31, 1925. Serial No. 78,713. 27 Claims. (Cl. 189—16.)



1. Apparatus of the class described comprising a mast consisting of detachable aligned portions, a frame freely slidable up and down on the erected portions throughout the height thereof, a gin pole carried by said frame, power actuated means for elevating said frame from the ground level together with workmen and another mast portion, and mechanism on said frame adapted to cooperate with said pole for supporting said other portion of said mast in position for attachment to the upper end of said erected portion.

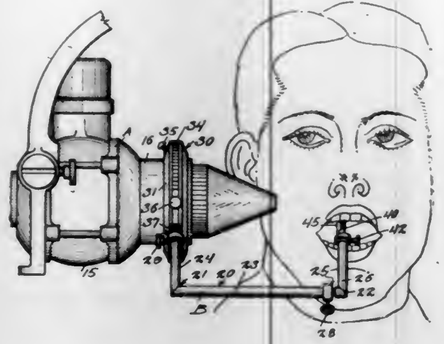
1,667,441. SCRUBBING BOARD. ROBERT L. SHERROD, Brownsville, Tenn., assignor of one-sixth to G. G. Mulherron, one-sixth to Ted Martin, one-sixth to F. W. Whitehurst, one-sixth to T. D. Gooch, and one-sixth to Roy S. Moore, Brownsville, Tenn. Filed Feb. 26, 1927. Serial No. 171,265. 4 Claims. (Cl. 68—29.)



1. A scrubbing board comprising side bars, a sheet arranged between and carried by the side bars, said sheet having its material bent to provide spaced transverse

water receiving pockets, having forward shoulders, and rubbing elements held within the water receiving pockets, each rubbing element being formed of a plurality of tightly twisted strands of wire, the rear sides of each rubbing element being arranged rearwardly of the forward shoulder of the corresponding pocket, the outside diameter of each rubbing element being sufficiently large so that the forward side of the rubbing element projects forwardly beyond the shoulder of the pocket for free engagement with the articles being washed.

1,667,442. DENTAL X-RAY FILM HOLDER. THOMAS E. SIKES, Greensboro, N. C. Filed Apr. 17, 1926. Serial No. 102,751. 3 Claims. (Cl. 250—34.)



1. The combination with an X-ray machine, of a film holder for receiving and maintaining the film in a flat condition against distortion, a ring rotatably mounted upon the X-ray machine, a substantially U-shaped frame connecting the film holder with the rotatable ring, and means for adjusting the frame to conform to the facial characteristics of the patient on which the machine is used.

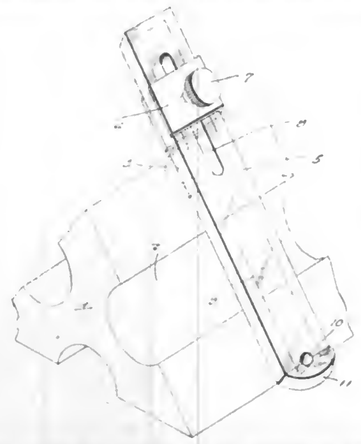
1,667,443. GAS-EXPELLING DEVICE. LORENSE G. SIMONSEN, Benson, Nebr. Filed Aug. 15, 1927. Serial No. 212,985. 1 Claim. (Cl. 128—349.)



A gas relieving device of the character described comprising a flat jaw holding device having a central aperture and recesses in its upper and lower edges, a flexible tubular member adapted to be inserted through said aperture, said tubular member being formed from wire convolutions, the wire convolutions of the tubular member at the forward end of the device being in spaced relation.

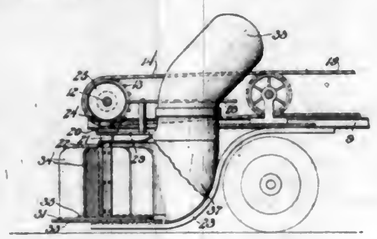
1,667,444. DIMENSION GUIDE DEVICE. EPPENETES W. SMITH, Brooklyn, N. Y. Filed Jan. 13, 1927. Serial No. 160,923. 3 Claims. (Cl. 33—189.)

1. A dimension guide device comprising a transparent member adapted to be arranged at one side of a triangular scale, and having a vertical indicator, and also having at its lower end an angularly disposed foot and in its lower portion an apertrue in alignment with said indicator, a spring arm adapted to exert tension against another side of the triangular scale, and means adjustable



on the transparent member in the direction of the length thereof for adjustably connecting the spring arm to the transparent member.

1,667,445. SNOWPLOW. JAMES N. SMITH, Bonair, Iowa. Filed June 25, 1926. Serial No. 118,552. 4 Claims. (Cl. 37—43.)



1. In a snow plow, the combination of a plurality of vertical shafts, each with a horizontally disposed disk secured to its lower end, cutter sections removably secured to the edge of the disk, fan blades secured radially of each shaft and with their lower edges secured to the disk, means for rotating said shafts, and a casing for receiving the snow and ice from the fans and directing it to the side of the roadway.

1,667,446. PROCESS FOR OBTAINING TRICALCIUM SACCHARATE. CARL STEFFEN, Jr., Vienna, Austria. Filed Apr. 27, 1926, Serial No. 105,012, and in Austria Nov. 17, 1925. 3 Claims. (Cl. 127—47.)

1. In the process of washing a filter cake of impure tricalcium saccharate containing soluble non-sugars, the step which comprises washing the cake under pressure with a tricalcium saccharate suspension substantially free of soluble non-sugars.

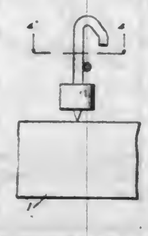
1,667,447. METHOD OF MAKING IMPRESSIONS. HILTON SWAN, Upper Montclair, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 28, 1925. Serial No. 59,209. 4 Claims. (Cl. 41—25.)

1. In a method of making a transformable plastic material adapted for receiving a negative impression from

a positive, the step which comprises spraying a surface layer of metal onto a potentially reactive, heat induratable, resin composition.

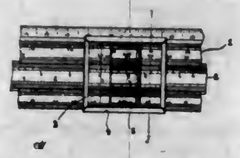
4. A matrix blank comprising a backing sheet of potentially reactive, heat indurtable, resin composition having a firmly united sprayed metal surface thereon.

1,667,448. FURRING UNIT. GEORGE F. VOIGHT, Oakland, Calif., assignor to Economy Products Corporation, a Corporation of California. Filed Sept. 26, 1923. Serial No. 664,897. 4 Claims. (Cl. 72—118.)



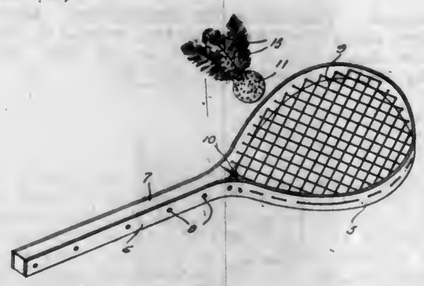
2. A furring unit comprising a driven element and a substantially cylindrical spacing element, said spacing element formed of a strip of paper bound on and around the shank of said driven element, to normally resist removal therefrom.

1,667,449. MAGNIFYING DEVICE FOR SLIDE RULES. FRITZ WÖMPNER, Geroldsgrun, near Nuremberg, Germany, assignor to the Firm: A. W. Faber, Stein, near Nuremberg, Germany. Filed Jan. 26, 1927, Serial No. 163,819, and in Germany Nov. 2, 1926. 2 Claims. (Cl. 88—39.)



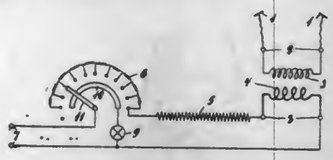
1. The combination with a slide rule of a cursor having members extending in the direction of the slide rule and a magnifying glass slidably mounted on the cursor between said guide members, for the purposes set forth.

1,667,450. GAME. VICTOR ZIMMERMAN, Holyoke, Mass. Filed Nov. 30, 1926. Serial No. 151,776. 1 Claim. (Cl. 273—73.)



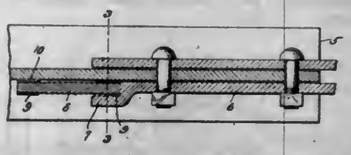
A racket comprising a bowed frame terminating in straight parallel spaced extremities, a filled bar between the extremities, coextensive therewith and fixed thereto, stringing in the bowed frame, and a hook on one end of the bar and extending into the bowed frame to engage portions of the stringing.

1,667,451. APPARATUS FOR THE TREATMENT OF ORGANISMS WITH ELECTRICAL CURRENTS. WILHELM TEODOR ARNBERG, Liljeholmen, Sweden. Filed June 28, 1926, Serial No. 119,148, and in Sweden July 19, 1925. 5 Claims. (Cl. 74—177.)



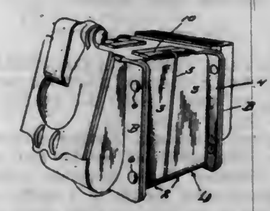
1. An apparatus for the treatment of organisms with electrical current supplied to the organism by means of electrodes, characterized by the electrodes being connected to the secondary circuit of a transformer the primary winding of which is connected through a series resistance to a source of low frequency alternating current the voltage of which is relatively high and adapted to be reduced by the said series resistance to a suitable low primary terminal voltage which in turn is stepped up by the transformer to a secondary terminal voltage sufficient to overcome the initial resistance of the organism; said secondary terminal voltage automatically decreasing, upon the electrodes being applied to the organism, to a value which is safe to the organism with regard to the subsequent decrease of its resistance.

1,667,452. FISHPLATE BOND. GEORGE BARNES, Princeton, Ind., assignor of one-third to Joseph G. Applegath and one-third to George W. Jenkins, Princeton, Ind. Filed July 17, 1926. Serial No. 123,222. 1 Claim. (Cl. 173—262.)



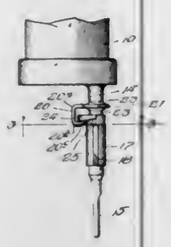
A fish plate for connecting adjacent railway rails including a body portion having lateral offset end portions, the upper and lower edges of the offset end portions lying in parallel relation with the treads and bases of the rails, a wire bond including a length of wire, sleeves connected with the ends of the wire, the sleeve at one end of the wire being positioned between the offset portion of the fish plate and the rail and welded to the offset portion, the sleeve at the opposite end of the wire being welded to a rail with which the fish plate is associated.

1,667,453. ADJUSTABLE PEDESTAL WAY LINER. DONALD S. BARROWS, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed May 9, 1927. Serial No. 189,914. 11 Claims. (Cl. 105—225.)



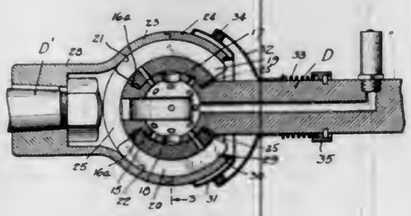
1. In combination with a journal box having pedestalways at the sides thereof, a laterally adjustable liner disposed within each way.

1,667,454. SYRINGE. HAROLD BRIX, Chicago, Ill., assignor to Sharp & Smith, Chicago, Ill., a Corporation of Illinois. Filed Mar. 28, 1925. Serial No. 19,036. 4 Claims. (Cl. 128—221.)



1. A syringe provided with a cylinder; a tapered extesion on the cylinder; a detachable needle having a socket with a tapered bore adapted to fit over the tapered extension; and means for holding said socket in place on said extension, said means comprising a holding finger formed from a flat strip of sheet material having a hole in one end, the tapered extension on the syringe extending through said hole and the finger being attached thereto, and a part on the socket adapted to engage said finger by rotation of said socket on said tapered extension to tighten said socket on said extension.

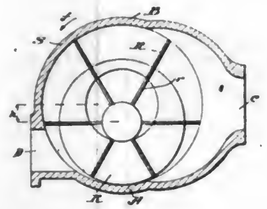
1,667,455. UNIVERSAL JOINT. ELMER G. BURNS, Los Angeles, Calif. Filed Dec. 14, 1925. Serial No. 75,426. 6 Claims. (Cl. 64—91.)



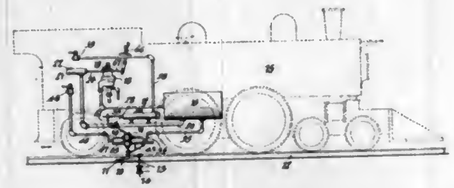
1. A universal joint comprising a ball member, a socket member, a housing for the members, shafts respectively secured to the ball member and housing provided with an opening through which the shaft for the member extends, the wall of said opening being provided with a groove, and a closure for the opening comprising a member having a lip engaging within the groove, and a second member on the ball member shaft having sliding engagement with the lipped member.

1,667,456. ROTARY PUMP AND COMPRESSOR. RENÉ JEAN PAUL EMILE COZETTE, Neuilly-sur-Seine, France. Filed June 15, 1926. Serial No. 116,225. 1 Claim. (Cl. 103—136.)

A rotary pump, comprising, a stator with an inlet and an outlet, a rotor positioned within, and eccentric to, the stator, propeller blades rotatably carried by the rotor and non-movable thereto in a radial direction, a gear at one end of the rotor, a drive shaft, coaxial with the stator, and a gear on the drive shaft in mesh with the rotor gear, the rotor comprising, a plurality of like sectors held in spaced relationship, the blades projecting through the spaces between the sectors and bearing in a fluid tight manner against the inner surface of the stator, an axle journalled at each end in, and concentric with, the stator, separate collars snugly but rotatably carried by the axle, the blades being each fixed to separate ones of the collars.

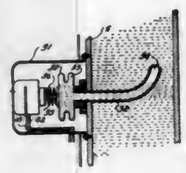


1,667,457. AUTOMATIC TRAIN-STOPPING APPARATUS. DANIEL M. DALEY, Lackawanna, N. Y., assignor of one-half to John H. Shea, Lackawanna, N. Y. Filed June 16, 1925. Serial No. 37,509. 12 Claims. (Cl. 246—183.)



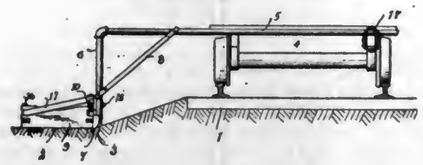
1. In an automatic train stopping apparatus, the combination with a locomotive having an air brake system including a main air reservoir and a brake valve, of pneumatically-operated means for actuating the brake valve communicating with said reservoir, a controlling valve interposed between the reservoir and said brake valve-actuating means, a trip device, and pneumatically-governed means on the locomotive arranged to be tripped by said device for actuating said controlling valve.

1,667,458. TEMPERATURE-REGULATING MEANS FOR LIQUID-COOLED ENGINES. WILLIAM H. DRISCOLL, Jersey City, N. J. Filed June 18, 1927. Serial No. 199,728. 2 Claims. (Cl. 219—38.)



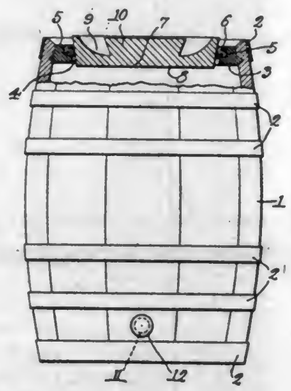
1. In an engine cooling system comprising a radiator, a housing mounted on the shell of the radiator, contact members in said housing, a switch in the housing adapted to bridge said contact members, means in the lower compartment of the radiator and directly responsive to temperature changes of the liquid therein for opening and closing said switch, a heating unit in the lower compartment of the radiator mounted on the radiator shell and means for establishing a circuit through the heating unit, the contact members and a source of electrical energy.

1,667,459. BALLAST TOWLINE MARKER AND SHOULDER CLEANER. WILLIAM C. HOLCOMB, Carrizozo, N. Mex. Filed May 16, 1927. Serial No. 191,827. 2 Claims. (Cl. 37—105.)



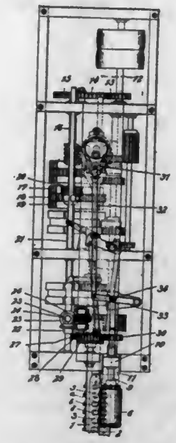
1. A towline marking tool and shoulder cleaner comprising a bar adapted to be connected at one end to a push car and provided at its opposite end with a standard, a marker at the lower end of the standard, a drag, a bar connecting the inner end of the drag with said standard, and a second bar connecting the outer end of the drag with the bar forming connecting means between the standard and drag.

1,667,460. KEG. JAMES W. HUSSEY, Martinsville, Ind. Filed Mar. 9, 1927. Serial No. 173,969. 1 Claim. (Cl. 217—76.)



A device of the class described including a container, a ring seated in one end thereof formed of material expansible by moisture, said ring having a cylindrical inner wall formed with a continuous rabbet in its upper portion, a gasket seated in the rabbet and extending inwardly beyond the inner periphery of the ring, said gasket being formed of a material expansible by moisture, and a closure having an unbroken tapered periphery, said closure being insertable downwardly within the gasket to compress the gasket in the rabbet, that portion of the ring below the gasket constituting a stop for limiting the movement of the closure during the compressing of the gasket.

1,667,461. APPARATUS FOR ARRANGING EDGES OF NET FABRICS IN NET-MAKING MACHINES. SAIBEI KAKUDA, Fukuyama-Shi, Japan, assignor to Saibi Mojiami Kabushiki Kaisha, Fukuyama-Shi, Japan. Filed Mar. 28, 1927, Serial No. 179,103, and in Japan Apr. 5, 1926. 2 Claims. (Cl. 96—4.)



1. An apparatus for arranging edges of net fabric in net-making machines for inter-locked netting, which consists of a take-up roller, means to intermittently rotate and reciprocate laterally said take-up roller two endless belts put over the ends of the said take-up roller and a plurality of catch pins secured to each of said endless belts.

1,667,462. COMBINATION TOOL. GEORGE A. LOGAN, New York, N. Y. Filed May 18, 1925. Serial No. 30,963. 6 Claims. (Cl. 30—10.)



4. The herein described razor blade knife comprising the combination with a handle, a blade holder pivoted in one end of the handle and a blade carried by the holder and adapted to swing therewith into the handle or to be projected from the handle, of a guard for the blade slidable over the holder and blade and carrying means at one end to co-operate with the handle to lock the blade and holder in open position.

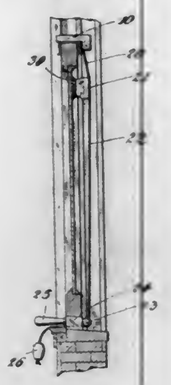
1,667,463. FASTENING DEVICE FOR FENCING, ETC. BENJAMIN K. ROSE, Warren, Ohio, assignor to Frost Steel Products, Inc., Warren, Ohio, a Corporation of Ohio. Filed Feb. 11, 1927. Serial No. 167,521. 1 Claim. (Cl. 256—57.)



The combination with a wire fence and a post therefor of a fastening clip comprising a loop-like strand of wire surrounding one of the fence strands and the post

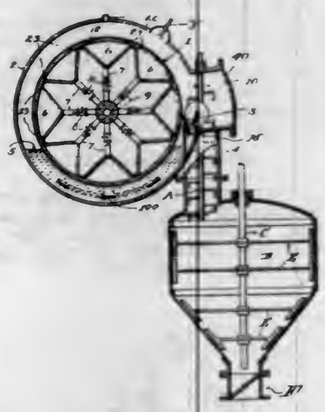
and having its ends formed to constitute opposed helixes that have been given rotative movement as a unit in order to twist the adjacent portions of said fastening clip.

1,667,464. CLEANING DEVICE. GEORG WAGNER, Monsey, N. Y. Filed Apr. 7, 1927. Serial No. 181,633. 3 Claims. (Cl. 15—251.)



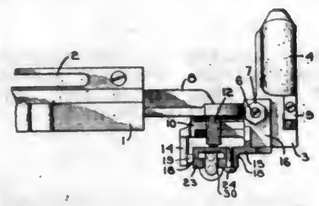
1. A cleaning device comprising a portable frame having perforated ears adjacent the opposite ends of one side providing bearings, a spring roller mounted in said ears, clamping members affixed to the ends of the frame adjacent said ears, a carriage, a flexible member secured at its ends to said carriage and to said roller, a cleaning implement mounted on said carriage, a bracket, a guide roller carried by the bracket, and a flexible member connected to the carriage and passing around the guide roller to be pulled to operate the carriage and cleaning implement.

1,667,465. FILTER AND FILTERING METHOD. JUSTIN F. WAIT, New York, N. Y. Filed Mar. 10, 1925. Serial No. 14,514. 6 Claims. (Cl. 210—201.)



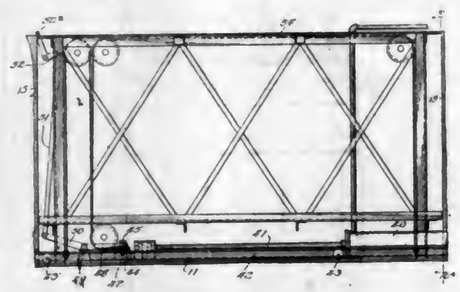
6. In pressure filtration, the method including the formation of a filter cake, removal of a portion thereof, mixing of the remaining portion with the mass of material within the filter and subjecting the same to another step of filtration.

1,667,466. LATCHING MECHANISM FOR INTERMITTENT THREAD-CUTTING TEMPLES. GEORGE H. WILLARD, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 5, 1926. Serial No. 146,392. 4 Claims. (Cl. 139—266.)



1. A self-contained latching mechanism for an intermittent thread cutting temple, the head of which presents a cap and a pod united by a screw, which mechanism comprises a base, a latching mechanism for controlling the operative and inoperative position of the cutting mechanism carried by and mounted on said base, and a projection from the base fitting against the temple head and around said screw, the said screw when in place acting to clamp the projection to the temple head and hold the base in place, whereby the latching mechanism may be attached to an existing temple without alteration thereof.

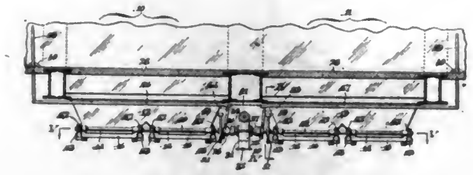
1,667,467. GARAGE. HUGH E. YOUNG, Chicago, Ill., assignor of one-half to Eugene S. Taylor. Filed Feb. 16, 1927. Serial No. 168,620. 5 Claims. (Cl. 214—16.1.)



1. In a storage garage for vehicles, a plurality of cages adapted to lie in a single storage plane and substantially fill a storage space of predetermined area, each cage adapted to contain a vehicle, each cage having a top, said cages being separated by fire walls when in the storage plane, and means for raising each cage out of the storage plane to permit egress of a vehicle therefrom over the tops of adjacent cages.

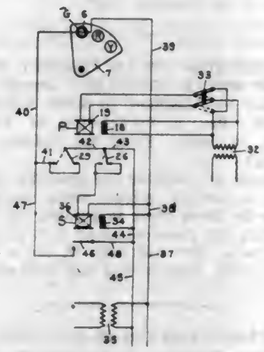
1,667,468. MECHANISM FOR ACTUATING THE GATES OF GRAVITY DISCHARGE HOPPERS. WILLIAM J. BURNETT, Glenside, Pa., assignor to Beaumont Manufacturing Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Dec. 9, 1926. Serial No. 153,533. 3 Claims. (Cl. 221—145.)

1. Mechanism for actuating the gates of a multiplicity of gravity discharge hoppers including an individual shaft for each hopper and equipped with gear pinions in mesh with toothed racks on the associated gates, speed-reduction mechanism interposed between the contiguous shaft ends, an electric motor adapted to drive the speed-



reduction mechanism in opposite directions to open and close the gates, and means whereby the respective shafts may be selectively coupled with said speed-reduction mechanism.

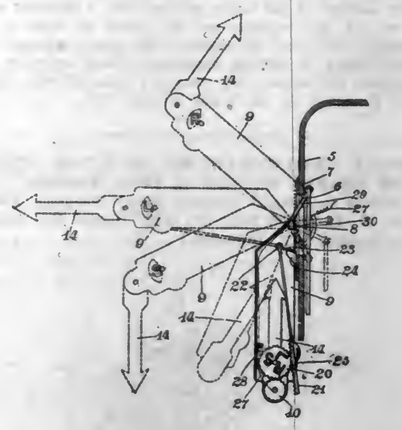
1,667,469. LIGHT SIGNAL. PAUL E. CARTER, Bronxville, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Nov. 9, 1921, Serial No. 514,053. Renewed Sept. 27, 1927. 12 Claims. (Cl. 177—327.)



11. In a light signal, an incandescent lamp and an optical device for projecting light from said lamp, a member comprising a plurality of color screens, means mounting said member for movement to an intermediate and two extreme positions to thereby interpose one of said screens in the path of the light, said member being biased to said intermediate position, an energizing circuit for said lamp, an alternating current relay for operating said member and for opening said energizing circuit when said member is in its intermediate position, a slow-releasing alternating current relay energized and de-energized respectively, as said member assumes either extreme position or its intermediate position, and another energizing circuit for said lamp including a back contact of said slow-releasing relay.

1,667,470. AUTOMOBILE SIGNAL. GEBHARDT A. FRIEDRICH, Columbus, Ohio. Filed Mar. 14, 1927. Serial No. 175,130. 7 Claims. (Cl. 116—52.)

1. A direction indicator mechanism for attachment to a motor vehicle comprising, in combination, a swinging casing or frame having its outer edge closed and its inner edge open, a translucent pointer pivoted therein, means for moving said pointer into said casing and out



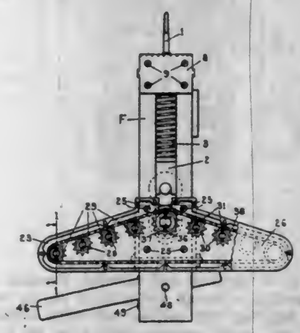
of the open edge of the same into three different indicating positions, and means within the pointer for illuminating the same.

1,667,471. GLOW CATHODE AND ELECTRON TUBE CONTAINING SAME. ERNST FRIEDERICH, Berlin-Charlottenburg, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Nov. 28, 1925. Serial No. 72,044, and in Germany Dec. 1, 1924. 6 Claims. (Cl. 250—27.5.)

1. A glow cathode for electron tubes comprising a metal wire containing a small percentage of carbon and a coating on this wire containing a carbide of a metal capable of high electron emission.

4. The method of forming a cathode which consists in coating a highly refractory filamentary core with a mixture of carbon and a compound of a metal having a high electron emitting capacity and heating the resulting product sufficient to form a carbide of the metal.

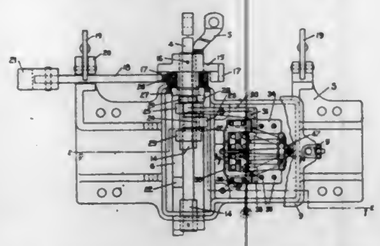
1,667,472. POWER-OPERATED WRINGER. WINTHROP K. HOWE, Rochester, N. Y., assignor, by mesne assignments, to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 21, 1922. Serial No. 506,074. 5 Claims. (Cl. 68—32.)



1. A wringer comprising, a support frame, brackets fastened to the frame, an upper wringer roll, a lower wringer roll, means for forcing said rolls together, a

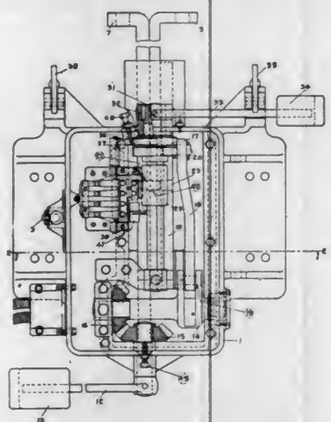
plurality of conveyor rolls mounted in the brackets on one side of the lower wringer roll and having the plane of their top surfaces approximately tangential to the upper surface of the lower wringer roll, a sprocket within one of the brackets on the shaft of each of the conveyor rolls and the shaft of the lower wringer roll, and a chain in driving engagement with each of said sprockets for causing the conveyor rolls to turn in the same direction as the lower wringer roll.

1,667,473. RAILWAY-SWITCH-SELECTOR-OPERATING MEANS. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Dec. 17, 1926. Serial No. 155,484. 12 Claims. (Cl. 246—242.)



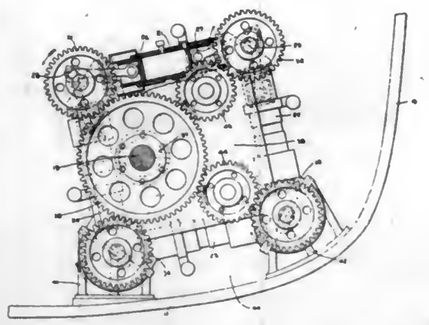
12. In combination, a track switch and operating rod, a power operated switch machine and operating rod, and a hand operated switch stand and operated rod, a casing slidably receiving the three said rods, and means for coupling the operating rod to either of the operated rods at will.

1,667,474. RAILWAY-SWITCH-SELECTOR-OPERATING MEANS. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Jan. 12, 1927. Serial No. 160,679. 5 Claims. (Cl. 246—253.)



3. In a switch operator and selector, a casing, a switch rod in the casing, a second and a third rod in the casing, means for coupling the switch rod with either of the other rods, manually operable means in the casing for operating one of said other rods, a power operated machine for operating the other of said other rods, and means, operated by the operation of said coupling means, for controlling energization of said machine.

1,667,475. MARINE POWER INSTALLATION. ALEXANDER T. KASLEY, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 25, 1927. Serial No. 186,361. 16 Claims. (Cl. 115—38.)



1. In a marine power installation, the combination of a propeller shaft, a polyhedral internal combustion engine unit encompassing the propeller shaft, gearing means transmitting power from the engine unit to the propeller shaft, and means for offsetting the engine unit with respect to the propeller shaft.

1,667,476. METHOD OF INCREASING THE ELASTICITY OF METAL ARTICLES. GEORGE L. KELLEY, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,490. 2 Claims. (Cl. 148—12.)

1. The process of restoring the elasticity in steel locking rings of automobile wheels which consists in first cold working the blank stock to produce the rings, thereafter subjecting the produced rings to a heat lying substantially between 200° and 800° F. for a period varying between thirty minutes and one half minute.

1,667,477. PRODUCING COLOR PICTURES. WILLIAM V. D. KELLEY, Brooklyn, N. Y., assignor, by mesne assignments, to Prizma, Incorporated, a Corporation of New Jersey. Filed Feb. 4, 1920. Serial No. 356,159. 11 Claims. (Cl. 95—2.)

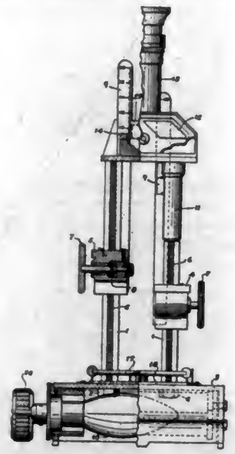


1. Process for making a color picture upon a support having a sensitive coating including strata of different speeds, consisting in first printing, developing and bleaching a color selection print in the fastener stratum, then printing and developing a complementary print in the slower stratum, and fixing both.

1,667,478. COLORIMETER. ROBERT E. KLETT, Teaneck, N. J., assignor to Klett Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 25, 1924. Serial No. 752,163. 15 Claims. (Cl. 88—14.)

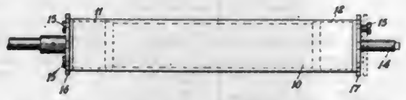
1. In a colorimeter, the combination with color observing means for standard and test solutions, of color

intensity indicating means for each of the solutions, means carried by said colorimeter for indicating the rela-



tion between said intensities of colors, and means adjacent the first mentioned means for observing the last two mentioned means.

1,667,479. CHART DRIVE ROLL FOR STRIP-RECORDING APPARATUS. HERMAN KOESTER, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 2, 1926. Serial No. 152,185. 5 Claims. (Cl. 74—31.)



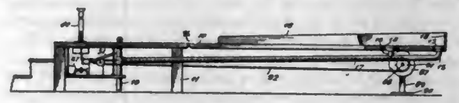
2. A drive roll for the charts of strip recording apparatus, comprising a cylindrical roll member, separated driving sprockets movable therewith, the one sprocket being freely movable axially of said roll to accommodate automatically variations of width in the chart operating over the roll, and means to limit the axial movement of said movable sprocket.

1,667,480. ALKALI FUSION. VAMAN R. KOKATNUR, New York, N. Y. Filed Jan. 22, 1926. Serial No. 83,136. 9 Claims. (Cl. 260—154.)

1. The improvement in substantially anhydrous alkali fusions which consists in reacting upon an aromatic radical of an organic compound with caustic alkali by fusing the compound with the alkali in the presence of an inert hydrocarbon diluent, the amount of alkali introduced into the fusion being less than about twice the amount required by theory for the reaction.

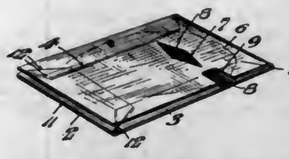
1,667,481. GAME. CARVEL H. LANGE, New York, and EDWIN W. VOLLERT, Brooklyn, N. Y., assignors to Playmor Golf, Inc., a Corporation of New York. Filed Dec. 17, 1926. Serial No. 155,359. 13 Claims. (Cl. 273—35.)

1. A device of the character described, comprising a platform upon which a player is adapted to stand, said platform having associated therewith a positioning member adapted to hold a golf ball in a stationary position to be struck by a golf club in the hands of the player, said platform further including a playing field and a target towards which the ball is adapted to be driven and means to return the ball to the playing position, said means including a feeding member for engaging



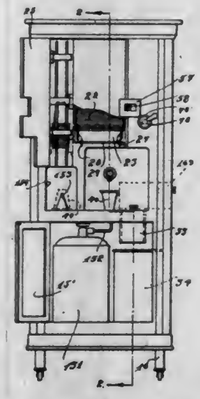
the ball, moving it to a predetermined definite position relatively to said platform and maintaining it in said postion until said ball is propelled therefrom by the player.

1,667,482. CONTAINER AND DISPLAY DEVICE. EDWIN A. LEE, Philadelphia, Pa. Filed Oct. 18, 1926. Serial No. 142,232. 1 Claim. (Cl. 229—87.)



A container of the character stated composed of transparent material and comprising a substantially rectangular base, elongated side flaps integral with the longer opposed edges of said base, a relatively short end flap integral with one of the shorter edges of said base, said side and end flaps being adapted to fold inwardly over said base, and a relatively long end flap integral with the opposite short edge of said base and adapted to be folded inwardly to cover said container, said elongated flap having an unobstructed aperture in its body portion, and being also provided with a recess aligning with a recess in the lower adjacent side flap, both of said recesses being cut inwardly through which the goods in said container may be felt and seen when the container is closed.

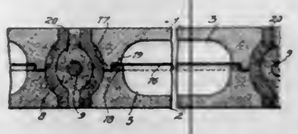
1,667,483. LIQUID DISPENSER. CHARLES LEOF, Detroit, Mich. Filed Jan. 24, 1927. Serial No. 163,157. 7 Claims. (Cl. 225—21.)



5. A liquid dispenser of the class described comprising: a plurality of containers; a plurality of receptacles, each in communication with one of said containers; control means for opening and closing said communication; a conduit; means communicating each of said receptacles with said conduit; control means mounted in said com-

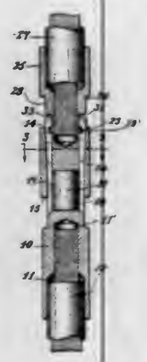
municating means for opening and closing communication of said receptacles with said conduit; a delivery pipe communicating with said conduit; a valve for controlling the flow of liquid to said delivery pipe; a valve in said delivery pipe for controlling flow of liquid therefrom; means for opening said control means controlling the flow of liquid from said receptacles to said conduit; means for selecting the control means to be opened; means for closing communication between said receptacles and said containers upon the opening of said control means; and means simultaneously operable with the closing of said control means for opening the control means controlling communication of said delivery pipe with said conduit; and separate means for, simultaneously with said action, closing the control means controlling the flow of liquid from said delivery pipe; a cup receptacle; and means for feeding said cups therefrom individually upon the opening of said control means; a straw magazine; and means for feeding straws therefrom individually upon the opening of said control means.

1,667,484. TRANSLUCENT WALL, CEILING, AND FLOOR STRUCTURE. PAUL LESSE, Berlin-Tempelhof, Germany. Filed Apr. 1, 1927, Serial No. 180,126, and in Germany Feb. 17, 1925. 4 Claims. (Cl. 72—30.)



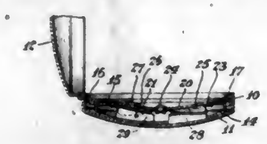
1. As an article of manufacture, a translucent hollow block divided longitudinally into two sections, the adjacent or meeting faces of said sections having portions disposed transversely of the length of the block, and a binding medium at opposite ends of the block for uniting the sections thereof.

1,667,485. CONNECTER. ROB ROY MACDONALD, New York, N. Y., assignor of one-half to Leo O. Smith, Brooklyn, N. Y. Filed Aug. 25, 1927. Serial No. 215,305. 9 Claims. (Cl. 173—308.)



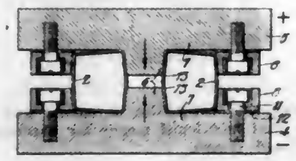
1. In an electric cable connecter, a socket member adapted at one end for connection to a cable and having a plurality of spaced tongues at the other end thereof, a stud member adapted at one end for connection with a cable and having a stem at the other end thereof, and means associated with the tongues for forcing the same into contact with the said stem when the stem is in position between the said tongues.

1,667,486. VANITY CASE. SIMON MORRISON, New York, N. Y. Filed May 20, 1926, Serial No. 110,355. Renewed Mar. 8, 1928. 9 Claims. (Cl. 132—82.)



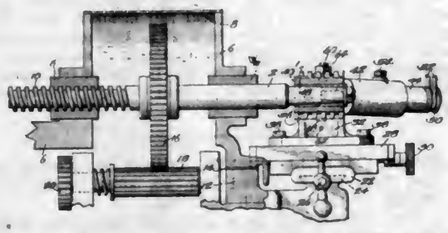
1. In a vanity case, a powder receptacle having a pivoted closure, an opening in the closure, and cooperating means carried by the receptacle and the closure for forcing powder from the opening.

1,667,487. BUTT WELDING. THOMAS E. MURRAY, Jr., Brooklyn, N. Y. Filed July 21, 1926. Serial No. 123,845. 5 Claims. (Cl. 219—4.)



1. An apparatus for the electric resistance butt welding of hollow products from a single piece, including in combination an electrode engaging the work near the joint continuously along the length of the work and a part exerting lateral pressure on the opposite portion of the work and engaging the work only at intervals along its length.

1,667,488. HOB GRINDER. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1926. Serial No. 86,206. 17 Claims. (Cl. 51—52.)

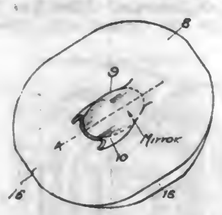


1. A hob grinding machine having a hob spindle, a grinder spindle, a base frame, means for causing relative movement between the base frame and the hob spindle in a direction parallel to the hob spindle, a grinder spindle frame for holding the grinder spindle at an oblique angle to the hob axis, and removable means insertible between the base frame and the grinder spindle frame for holding the latter at an angle with the hob spindle corresponding with the helix angle of the hob.

1,667,489. ANTIGLARE LENS FOR AUTOMOBILE HEADLIGHTS. ROBERT A. OSBURN, Birmingham, Ala., assignor of one-third to John F. Williams, Birmingham, Ala. Filed June 19, 1925. Serial No. 38,871. 2 Claims. (Cl. 240—48.4.)

1. An anti-glare lens for headlights having substantially at and confined to the center zone of its inner surface a

glass bracket shaped to present an upwardly inclined mirror shelf and a mirror surface on said shelf adapted to



reflect the rays of the light striking it upwardly against the headlight reflector, the lens being unobstructed except for said mirror and the bracket support therefor.

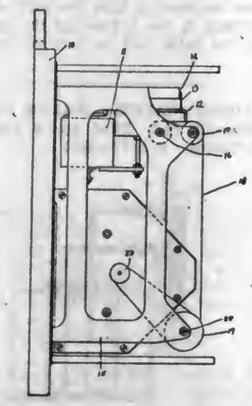
1,667,490. PROCESS FOR MAKING CALCIUM ARSENATE. WILLIAM C. PIVER, Hillside, N. J. Filed Jan. 18, 1924. Serial No. 687,134. 6 Claims. (Cl. 23—53.)

1. A process for making calcium arsenate, which consists in first hydrating calcium oxide only to a sufficient degree to hydrate the same and to produce a dry product, agitating the hydrated calcium oxide and applying arsenic acid of a predetermined specific gravity thereto while being agitated, the acid being applied only in sufficient quantity and at a rate to cause the heat of the resultant reaction to drive off any excess water present, including the water of hydration, to produce the calcium arsenate in a dry powder form.

1,667,491. METHOD OF MAKING COMMERCIAL CALCIUM ARSENATE. WILLIAM C. PIVER, Hillside, N. J. Filed July 5, 1924. Serial No. 724,512. 7 Claims. (Cl. 23—53.)

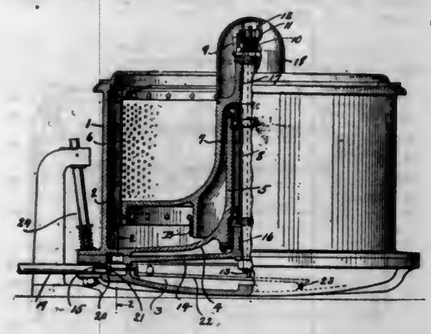
1. The method of manufacturing commercial calcium arsenate in a dry powdered form, comprising first treating commercial calcium oxide with less water than is required for its complete hydration while agitating the material, and then the addition of arsenic acid thereto, the calcium oxide being always sufficiently in excess to remove all of the free water and to produce calcium arsenate in a dry powdered form.

1,667,492. GRAPHIC-METER CHART AND DRIVE. EMMET G. RALSTON, Indianapolis, Ind. Filed May 21, 1926. Serial No. 110,683. 1 Claim. (Cl. 234—1.)



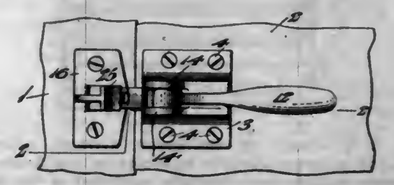
A combination for obtaining a permanent substantially instantaneous and continuous and accurate record comprising a supply roll, a rewind roll, means for continuously and uniformly rotating said rewind roll, a chart strip mounted upon the supply roll and wound upon the rewind roll with an intermediate plane portion, a recording device including a pivoted pen arcuately movable across the chart in a plane parallel to the same and having a portion engaging said chart at the intermediate plane portion thereof for recording variations to which the device is sensitive, said chart strip having a plurality of parallel arcuate time space divisions formed by linear demarkations thereon, said divisions being progressively and uniformly varied as to spacing to compensate for the uniform change in external diameter of the rewind roll and the chart as wound thereon, said time division demarkations having the same radius as the pen travel radius, whereby pen movement is parallel to the time division linear demarkations, whereby the record is substantially instantaneously, continuously and accurately recorded on said chart strip.

1,667,493. CENTRIFUGAL. CARL SCHAUM, Philadelphia, Pa., assignor to Fletcher Works, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 15, 1927. Serial No. 161,391. 2 Claims. (Cl. 210—71.)



1. A centrifugal comprising a stationary tub providing upper and lower non-communicating chambers or compartments, a shaft lying wholly within the confines of said tub, a portion of the shaft lying within the upper and the remainder within the lower of said chambers, a rotatable basket in the upper of said chambers and attached to said shaft, turbine blades in the lower compartment or chamber of the tub carried by said shaft to drive the shaft and thereby to rotate said basket, a stem valve in the lower chamber for controlling the admission of steam to said blades, and a governor in the upper chamber controlling said valve.

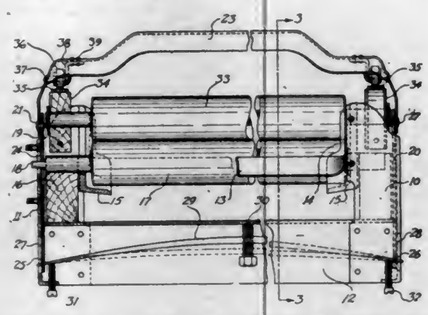
1,667,494. LATCHING DEVICE FOR REFRIGERATOR DOORS. THOMAS O. SCHRADER, Allentown, Pa., assignor to Dent Hardware Co., Fullerton, Pa., a Corporation of Pennsylvania. Filed July 14, 1925. Serial No. 43,475. 1 Claim. (Cl. 292—165.)



In a latching device the combination of a housing and a door arranged in parallelism therewith, a casing having an open back secured directly to said door, said casing

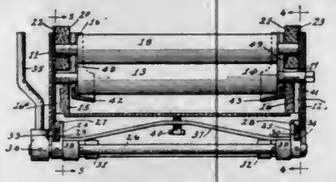
having at one end a squared opening and having mounted for longitudinal movement therethrough, a spring pressed latch-bar, the longitudinal axis thereof being arranged at an inclination with respect to the outer surface of the door, which latch-bar is of rectangular cross-section at its forward end having an opening 6, a bifurcated part 7, the opposite end of said latch-bar being of circular cross-section, that end of said latch-bar adjacent said bifurcated part being notched at 11 for engaging with the squared opening in said casing in retracted position of said latch-bar, a roller mounted in said bifurcated part, a keeper secured to said housing with which keeper the end of said latch-bar carrying said roller is adapted to cooperate, a pair of lugs secured to the outer face of said casing, a longitudinally arranged handle pivoted between said lugs for causing tilting of said latch-bar, said handle having a laterally extended cam portion for engaging within said opening 6 of said latch-bar, and a right angle part arranged between said roller and opening 6 and movable through the part 5 and with which said cam portion contacts in locked position of said latch-bar.

1,667,495. SAFETY WRINGER MECHANISM. SIMON E. SCHROEDER, Newton, Iowa. Filed Jan. 14, 1924. Serial No. 686,120. Renewed Sept. 26, 1927. 5 Claims. (Cl. 68—32.)



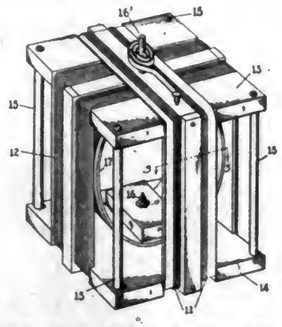
1. In a device of the class described, a main frame having a power roll mounted therein, an auxiliary frame slidably mounted on said main frame, a transversely extending flat spring mounted on said main frame and having its ends connected with the auxiliary frame, an upper wringer roll having bearings mounted in said main frame and a quick release arm pivotally connected with the auxiliary frame on an axis parallel with the axes of the rolls having means engaging the bearings of the upper roll and maintain said roll in pressure relation to the lower roll, said arm being swingable on its axis to engage and disengage said means and bearings.

1,667,496. WRINGER. SIMON E. SCHROEDER, Newton, Iowa. Filed Nov. 28, 1924. Serial No. 752,603. Renewed Sept. 26, 1927. 10 Claims. (Cl. 68—32.)



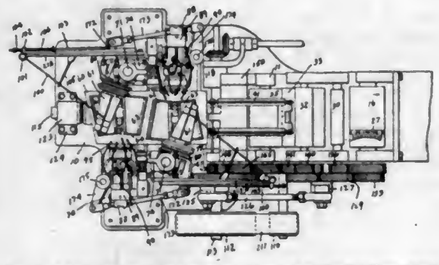
1. In a wringer, in combination, a frame, a wringer roll and a spring member supported in the frame, bar members slidably and removably supported in the frame, a second wringer roll, a connection between the second wringer roll and the bar members and means for releasably locking the bar members to the spring member for applying pressure to the wringer rolls.

1,667,497. PHASE SHIFTER. LAZARUS SHAPIRO, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 27, 1923. Serial No. 659,424. 20 Claims. (Cl. 171—119.)



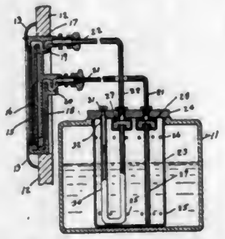
1. A phase shifter having a rotor and a stator, one of which comprises a branched circuit, said branches having unequal resistance and comprising impedances adapted to pass the greater part of the current through the branch having the lesser resistance.

1,667,498. MACHINE FOR MANUFACTURING PAPER CUPS. PAUL R. SIMMONS, Indianapolis, Ind., assignor to Paramount Paper Products Company, Indianapolis, Ind., a Corporation. Filed Dec. 12, 1924. Serial No. 755,409. 33 Claims. (Cl. 93—36.)



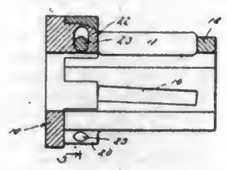
2. A machine for forming paper cups including means for applying glue to the bottom edge and one of the side edges of the paper blank, means for bending the blank cylindrically and causing the lateral edges to overlap and adhere together to form the body of the cup, and means for folding in the bottom of the cup under pressure so that the folds will be secured permanently together.

1,667,499. LIQUID GAUGE. WILLIAM CARLETON STARKEY, Indianapolis, Ind. Filed Apr. 6, 1925. Serial No. 21,112. 3 Claims. (Cl. 73—54.)



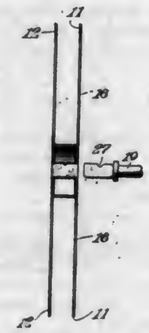
1. The combination with a liquid tank, of a remote liquid indicator comprising a U-tube remotely positioned from said tank and containing an indicating fluid therein, a pressure tube connected with one end of said U-tube and extending into said tank, and means associated wtih said pressure tube for preventing moisture from accumulating therein.

1,667,500. TUBING ROLLER. WILLIAM VAN ES and WILLIAM J. GEIST, Long Beach, Calif. Filed May 31, 1927. Serial No. 195,365. 6 Claims. (Cl. 153—82.)



3. A tubing roller including an annular body, a plurality of lugs on one side of the body, a plurality of carriers having recesses in their inner ends to receive the lugs, means connecting the carriers and lugs, the carriers having sockets extending into them from the recesses, and rollers carried in the sockets.

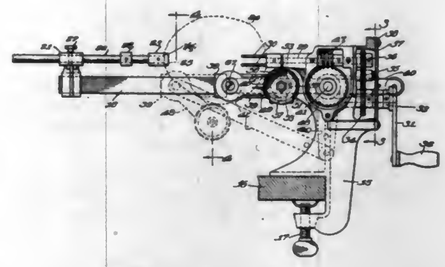
1,667,501. FILM REEL. STERLING W. WARNER, Boundbrook, N. J., assignor to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 26, 1927. Serial No. 186,635. 2 Claims. (Cl. 242—70.)



1. A reel comprising two spaced side discs, a core member between said discs, said core member being composed of a plurality of sides of sheet metal to adapt it for disposition on a multi-sided spindle, and a projection on the interior of the core member adapted to snap into a depression on the spindle when the reel is placed on the spindle.

1,667,502. PARING MACHINE. GEORGE WEISS, Chicago, Ill. Filed Dec. 13, 1924. Serial No. 755,685. 17 Claims. (Cl. 146—43.)

1. A paring machine including means for holding the article, a bodily and freely reciprocable cutter, means common to the said holding means and the said cutter for rotating the article and for reciprocating the cutter while the direction of operation of the said reciprocating means



remains constant, and means for varying the extent of reciprocating movement of the cutter by the second said means.

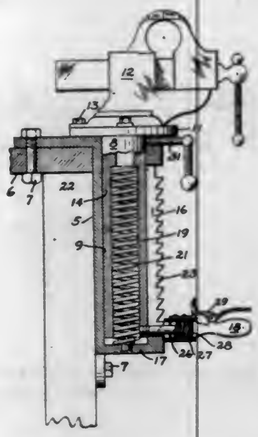
1,667,503. MAIL BOX. WILLIAM F. WEMHOENER, St. Louis, Mo. Filed Apr. 24, 1926. Serial No. 104,350. 8 Claims. (Cl. 232—19.)

1. In combination with a mail box adapted to be built into a wall, a face plate for the exterior wall, a face plate for the interior wall, and means mounted on said box for drawing said face plates towards each other and gripping said walls between them.

1,667,504. ADJUSTABLE MOUNTING FOR BENCH TOOL AND THE LIKE. ABRAHAM N. ZELBEROLWT, Oakland, Calif. Filed May 14, 1924. Serial No. 713,346. 2 Claims. (Cl. 81—41.)

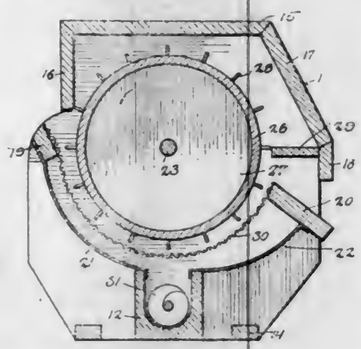
1. An adjustable bench tool mounting comprising a vertically disposed fixed guideway, a unitary tool supporting member slidably engaging in said guideway for movement of the parts thereof in fixed paths, a spring supporting said member for movement between predetermined positions, and means arranged for supporting said member

independently of said spring in said predetermined positions, said means comprising a rack fixed with respect to



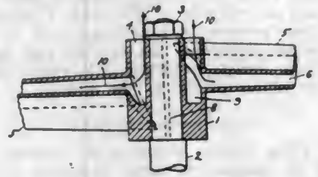
said guide, a pawl fixed to said supporting member for vertical movement therewith arranged to engage said rack, and a handle for moving said member in said guide.

1,667,505. COTTON-CLEANING MACHINE. STEPHEN HARVEY ASSITER, Floydada, Tex. Filed Dec. 22, 1926. Serial No. 156,490. 1 Claim. (Cl. 19—85.)



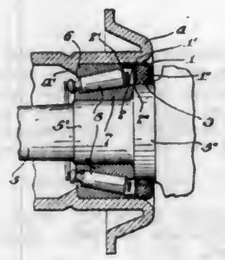
In a cotton cleaning machine, an elongated hollow body comprising a top wall, a relatively shallow front wall depending from the forward side of the top wall, and a downwardly and rearwardly inclined rear wall extending from the rear side of the front wall, a relatively shallow vertical wall section extending longitudinally at the lower edge of the said inclined rear wall, an upwardly and forwardly inclined beam, the body of the cleaner further including end walls, the said beam extending between the end walls in spaced relation to and in a plane below the lower edge of the front wall, a rearwardly and downwardly inclined member extending between the end walls and in a plane below and spaced with respect to the lower edge of the vertical rear wall section, a drum rotatably mounted in the body and having its circumference located relatively close to the lower edge of the front wall and the lower edge of the said beam, the said surface of the drum being located relatively close to the upper forward edge of the member which extends below and in spaced relation to the lower edge of the vertical rear wall section, a baffle extending longitudinally between the end walls of the body and forwardly within the body from substantially the upper edge of the said vertical rear wall section with its forward edge located relatively close to the circumference of the said drum, teeth upon the surface of the drum, a foraminous screen secured at its forward and rear edges respectively to the forward beam which is located below and in spaced relation to the front wall of the body and to the forward and upper edge of the member which is located below and in spaced relation to the vertical rear wall section, the said screen being curved concentric to the said drum, a trough extending longitudinally beneath the drum substantially in the vertical plane of the axis of rotation of the drum, imperforate bottom members extending on curved lines between the said beam at the front of the body and the forward upper side of the trough and between the upper rear side of the trough and the said member which extends below and in spaced relation to the vertical rear wall section, a screw conveyor operating in said trough, and means for imparting rotary motion simultaneously to the said drum and to the said conveyor.

1,667,506. PROPELLER. JOHN S. BANKRAT, Hempstead, N. Y. Filed Feb. 10, 1927. Serial No. 167,233. 1 Claim. (Cl. 170—172.)



In a propeller, the combination with a cylindrical hub, of means to mount said hub on a shaft, an outer cylinder concentric with said hub and attached to said hub in the rear, forming a circular clearance in front of said hub, blades attached to said outer cylinder and provided with hollow passages inside in a communication with said circular clearance, a partition in said clearance between said hub and said outer cylinder separating said clearance for said blades, and spiral guiding surfaces in said partitions extending from the front end of said hub to the inside of said hollow blades and forming smooth passages for air from the front of said hub to the inside of said blades, said blades being provided with a plurality of small apertures in a communication with the inside of said blades and extending through the full length of said blades on one side.

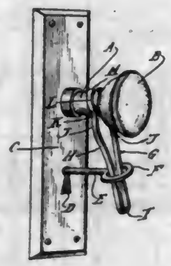
1,667,507. CLOSURE FOR BEARINGS. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 10, 1922. Serial No. 542,616. 4 Claims. (Cl. 308—187.)



1. A device of the character described comprising a plurality of annular members of L-shaped cross section;

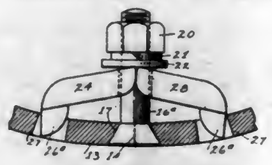
a metal shell containing a circular channel and having a circular laminated flange extending laterally therefrom, the inner lamina of said shell being of less diameter throughout its width than the outer lamina of said shell, in combination with a ring of pliable fibrous material disposed in said channel and projecting beyond the same.

1,667,508. KEY FASTENER. SAMUEL F. BUNKER, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,410. 2 Claims. (Cl. 70—65.)



1. A key fastener in the form of an open ended loop of spring material configured to afford a tapered closed tip end merging into side sections bowed outwardly in opposition to one another and inwardly to afford reduced neck portions, the side sections beyond the neck portions being backwardly flared away from one another to the degree required to embrace the shank of a door knob, substantially as described.

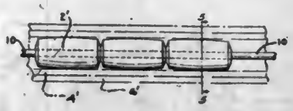
1,667,509. METAL-WHEEL-TIRE EXPANDER. CARL B. CHANDLER, Havana, Ill. Filed Mar. 29, 1923. Serial No. 628,526. 3 Claims. (Cl. 301—16.)



1. A device for expanding the steel felloe of a wheel into a demountable tire rim comprising a split steel felloe having the sections of its opposed end portions adapted to receive the head of a bolt, lever members, the ends of said levers being in abutting relation and curved to provide a rocking engagement with each other, the opposite ends of said lever members having means for engagement with the felloe, and a nut on the bolt to effect the proper spacing of the last mentioned means by engaging the adjacent ends of the levers.

1,667,510. ELECTRIC CONDUCTOR. JAMES ROBERT COE, Watertown, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 30, 1924. Serial No. 728,998. 6 Claims. (Cl. 173—13.)

6. A cable constituting an electrical conductor for high tension transmission lines having, in combination, a core comprising a plurality of members having axial apertures, and a flexible member upon which said mem-



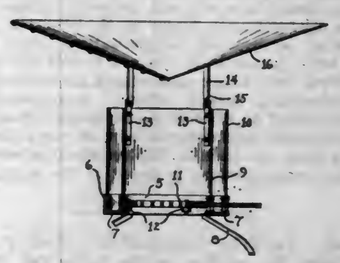
bers are strung, and contacting wires of high electrical conductivity arranged spirally side by side and surrounding said members.

1,667,511. LOOSE-LEAF BINDER. HOLLAND D. COTTRELL, Detroit, Mich. Filed Jan. 15, 1925. Serial No. 2,469. 7 Claims. (Cl. 129—41.)



5. In a loose leaf binder, a pair of cover members formed to provide a channel pocket at the center, one of the cover members being provided with an inturned flap, an inner pair of cover members having a channel pocket seating in the channel pocket of the outer cover member, and straps permanently attached to the flap of the outer cover member and extending across the channel pocket of the inner cover member and permanently attached at the opposite ends to the other outer cover member, the straps intermediate the ends being free from connection with the outer cover member.

1,667,512. DEVICE FOR CURING TOBACCO AND THE LIKE. GEORGE O. CRUIKSHANK, Leipsic, Ohio. Filed May 13, 1927. Serial No. 191,010. 10 Claims. (Cl. 126—58.)

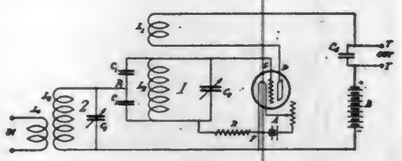


1. The combination with a fire pot having an opening at its upper end and provided with a grate at its lower end, of a deflector supported above and in spaced relation to the upper end of the fire pot, and a drum encircling the fire pot in spaced relation thereto and open at its upper and lower ends, to promote a vertical current of air adjacent the fire pot, which mingles with the hotter gases emitted from the fire pot, to constitute a substantially homogeneous mixture of nearly uniform temperature.

1,667,513. RADIO RECEIVING APPARATUS. CLYDE J. FITCH, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed May 31, 1924. Serial No. 717,116. 5 Claims. (Cl. 250—20.)

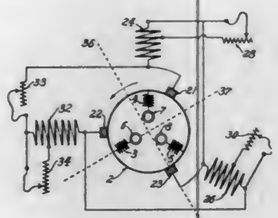
1. The combination of a valve, of a pair of condensers in series, means for impressing a signal wave on the in-

ner sections thereof, a circuit connecting the outer section of one condenser with the grid and a circuit con-
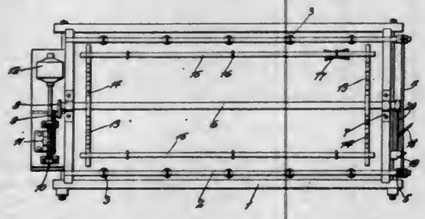


necting the outer section of the other condenser to the filament, said latter circuit including an impedance equal to the input impedance of the tube.

1,667,514. SYNCHRONOUS MOTOR. VALÈRE A. FYNN, St. Louis, Mo. Original application filed Nov. 26, 1923, Serial No. 677,157. Divided and this application filed Aug. 2, 1926. Serial No. 126,686. 6 Claims. (Cl. 172—280.)



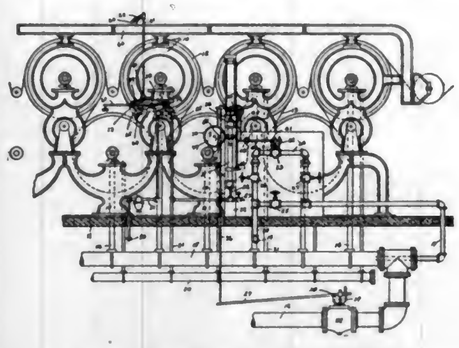
1. A synchronous motor which carries variable load at synchronous speed, having a primary and a secondary member, said primary member being adapted to produce a primary flux which revolves with respect to the primary, a commutator on said primary, brushes located along n displaced axes, means on the secondary adapted to produce n displaced magnetizations, each of said means being connected to brushes located along one of the n brush axes to set up conduced ampereturns in the said magnetizing means, different magnetizing means being connected to brushes located along different axes, and the angular displacements between the n brush axes differing from the angular displacements between the n secondary magnetizations produced by the conduced currents.

1,667,515. PLATING APPARATUS. FRED P. GREEN, St. Louis, Mo., assignor to The Lustre Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 28, 1927. Serial No. 178,927. 4 Claims. (Cl. 204—11.)



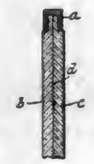
1. In a plating apparatus, a tank for electrolytic solution, means for supporting anodes in the solution in the tank, a rock shaft, a pair of arms attached to said rock shaft above the level of the solution in the tank, rods supported by said arms at opposite sides of said shaft for supporting the work, and means for rocking said shaft and said arms to raise and lower the work in the solution substantially the same distance from the anodes.

1,667,516. RECORDING DEVICE FOR PAPER MACHINES. CHARLES J. GUENTHER, Boston, Mass., assignor to Stickle Steam Specialties Company, Indianapolis, Ind., a Corporation. Filed Nov. 2, 1925. Serial No. 66,300. 3 Claims. (Cl. 234—1.)



1. In a paper making machine having means controlled by the tautness of the sheet of paper for controlling the heat in drying the same as it passes through the machine, and a recording device, a connection between said heat controlling means and recording device for operating the recording device whereby it will record and indicate the tautness of the sheet of paper during its manufacture.

1,667,517. METAL-FRAMED HALF-TONE SCREEN AND METHOD OF FORMING THE METAL FRAME THEREON. FRITZ HERMANN HAUSLEITER, Munich, Germany. Filed Apr. 8, 1926, Serial No. 100,716, and in Germany Dec. 5, 1925. 4 Claims. (Cl. 95—81.)

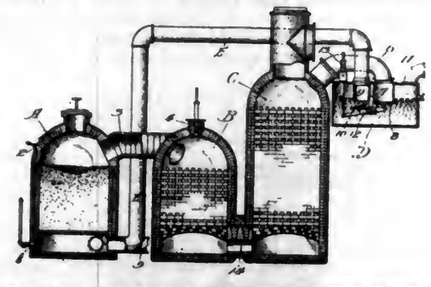


1. In the herein described method of manufacturing half tone screens in which ruled plates are secured in superimposed relation, the step of forming a metal frame directly on the edge of the screen.

1,667,518. PROCESS OF MAKING CARBURETED WATER GAS. FRED B. HAYES, Fort Wayne, Ind., assignor to Western Gas Construction Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Sept. 25, 1924. Serial No. 739,757. 3 Claims. (Cl. 48—208.)

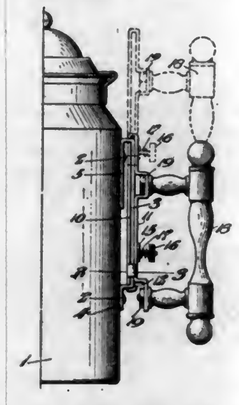
1. The improvement in the process of making carbureted water gas by the alternate up and down steam run method, which consists in passing the up run water gas through a carbureter and simultaneously enriching the same with oil flowed into said carbureter, in by-passing

the down run blue water gas with respect to the carbureter, in making oil gas in the carbureter during the



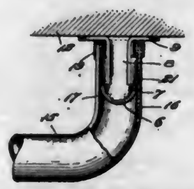
steam down run period, and ultimately commingling the by-pass blue water gas, the carbureted water gas and the oil gas in a holder.

1,667,519. HANDLE FOR COFFEEPOTS OR THE LIKE. FREDERICK W. HECHLER, Darby, Pa. Filed Oct. 15, 1927. Serial No. 226,304. 4 Claims. (Cl. 53—3.)



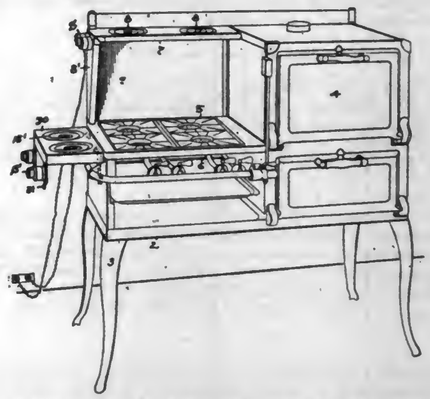
1. A cooking utensil having a vertical guide plate fixed thereto, a handle carrying member having a downturned, hook-like end slidable vertically of said plate, means operative to lock said member with respect to said plate, and a handle detachably fixed at each end to said member which member has detachable relation with respect to said utensil.

1,667,520. CURTAIN SUPPORT. JAMES N. HENRY, Providence, R. I. Filed Nov. 8, 1927. Serial No. 231,810. 1 Claim. (Cl. 156—22.)



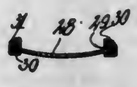
The combination of a hollow yieldable rod provided with an internal projection adjacent its end, attaching lugs, legs upon the lugs within the rod, and a plate upon the end of the legs adapted to contact with the projection to expand the rod during its passage into the rod.

1,667,521. COMBINED GAS AND ELECTRIC COOK-STOVE OR RANGE. FRED C. ALBER, Cleveland, Ohio. Filed Nov. 26, 1924. Serial No. 752,430. 4 Claims. (Cl. 219—35.)



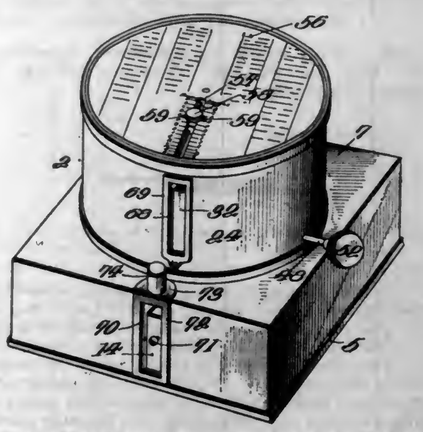
1. A cook shelf for a stove or range having a cooking top, containing a gas burner, said shelf being mounted upon a rear wall of said range and having electric heaters therein, and an electric switch for said heaters mounted at one end of said shelf and offside of said cooking top.

1,667,522. COMBINATION SANITARY BELT AND NAPKIN HOLDER. LUIS AMEZAGA, Forest Hills, N. Y. Filed Mar. 22, 1927. Serial No. 177,437. 1 Claim. (Cl. 128—289.)



A device of the class described, comprising a napkin holder sheet, means for securing a napkin thereto, the sides of the napkin holder sheet being bent upon themselves, and end strips of resilient material with wedge shaped slots forced on the bent sides, so as to stay thereon.

1,667,523. DISPENSING CABINET. FRANK H. BACHELDER, Orange, Mass. Filed May 2, 1924. Serial No 710,586. 8 Claims. (Cl. 312—95.)



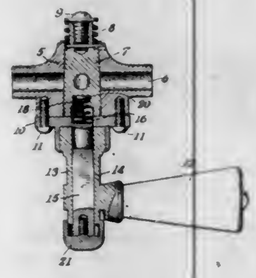
1. A dispensing cabinet comprising a housing, a rotatable member in the housing, supports connected to the

said rotatable member, the said supports having open tops and outer ends, a vertically arranged pocket with an open inner side, said pocket telescoping the said support, the housing having a vertical opening through which the said pocket may be moved outward through said openings to permit access to its contents.

1,667,524. PROCESS FOR DYEING ARTIFICIAL SILK. JAMES BADDILEY, PERCY CHORLEY, and CARLTON BUTLER, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England, a Company of Great Britain and Ireland. Filed Apr. 2, 1927, Serial No. 180,610, and in Great Britain June 4, 1926. 4 Claims. (Cl. 8—5.)

1. The process of dyeing which comprises dyeing regenerated cellulose silks with the secondary diazo dyestuffs which can be made by combining amino-o-hydroxycarboxy acids of the benzene series with the usual middle components, further diazotizing and combining with a sulphonated 1:8-di-substituted naphthalene derivative.

1,667,525. SAFETY VALVE. GABRIEL BASHCONGI, Brooklyn, N. Y. Filed Nov. 3, 1927. Serial No. 230,810. 4 Claims. (Cl. 251—99.)



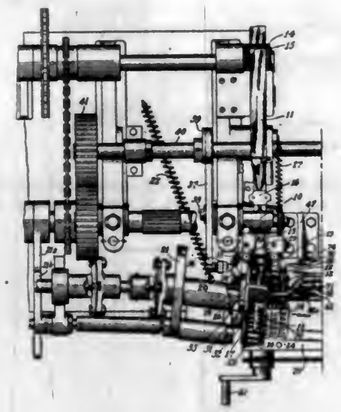
1. A valve comprising a body and cap member, a plug revolvable in the body member, a handle revolvably supported in the cap member and a plunger mounted in the handle and provided with means for interlocking with the cap member or the plug member at will.

1,667,526. VEST. FRANK A. BIEBERSTEIN, Milwaukee, Wis. Filed Apr. 25, 1927. Serial No. 186,376. 4 Claims. (Cl. 2—102.)



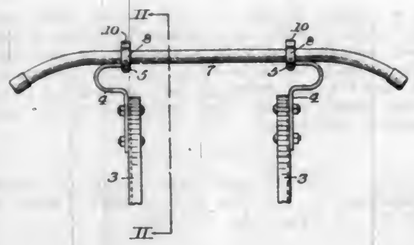
1. In a vest, the combination of front and back portions secured together at their meeting edges to form a flap of several plies extending between the armhole and the lower edge of the vest, one of said plies extending beyond the edges of the remaining plies to form a lip folded to embrace the remaining plies, a line of stitching joining said front and back portions to form an alterable side seam and defining the inner edge of said flap, and stitching extending across said flap at its ends to retain said flap against said back portion.

1,667,527. METHOD AND APPARATUS FOR MANIPULATING FASTENERS AND TABS THEREFOR. VIRGIL H. BODLE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1926. Serial No. 140,043. 17 Claims. (Cl. 12—1.)



1. Apparatus of the character described comprising means for associating articles with adhesive tabs and presenting them in succession in a determinate position and conveying means for so moving the successive articles as to cause their tabs to overlap each other in a chain of units.

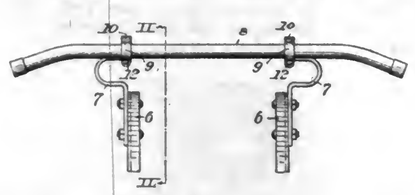
1,667,528. AUTOMOBILE BUMPER. FREDERICK G. BREMER, Pittsburgh, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 20, 1927. Serial No. 207,178. 11 Claims. (Cl. 293—55.)



1. Bumper structure comprising a bumper bar, two curved buffer springs connected at their outer ends to said bar, and means for pivotally connecting the inner ends of said springs to a vehicle frame, on vertical axes.

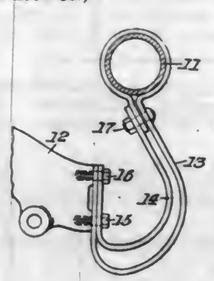
1,667,529. AUTOMOBILE BUMPER. FREDERICK G. BREMER, Pittsburgh, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 26, 1927. Serial No. 208,498. 8 Claims. (Cl. 293—55.)

1. Bumper structure comprising a bumper bar, a curved buffer spring pivotally connected at its outer end to said bar, a brace connected to said buffer spring at a point adjacent to its inner end, and means for connecting the



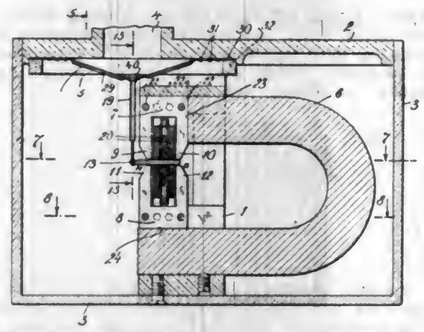
inner ends of said spring and brace to a vehicle frame, on an axis transverse to the axis of the first-named pivotal connection.

1,667,530. BUMPER STRUCTURE. FREDERICK G. BREMER, Pittsburgh, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 6, 1927. Serial No. 238,060. 11 Claims. (Cl. 293—55.)



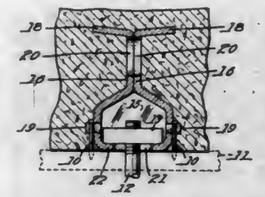
1. A buffer spring comprising a yieldable member having its outer portion bent to substantially annular form, a supplementary yieldable member, and means for holding said portion in clamping engagement with an impact bar, and for connecting the said supplementary member thereto, the inner ends of said members being arranged for attachment to a supporting member.

1,667,531. SOUND-REPRODUCING APPARATUS. BEN E. BROWN, Mountain Lakes, N. J., assignor to B. B. Laboratories, Inc., East Orange, N. J., a Corporation of New Jersey. Filed Oct. 1, 1926. Serial No. 138,882. 8 Claims. (Cl. 179—119.)



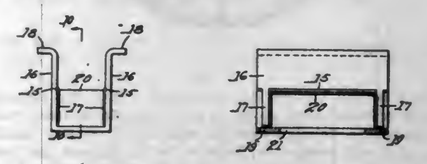
3. Sound reproducing apparatus of the class described which comprises a permanent magnet, pole pieces for said magnet forming between them an air gap, an armature of magnetic material mounted for a limited rotational movement through said air gap in magnetic flux transferring relation with said pole pieces, pole faces provided on said pole pieces at the said air gaps of sufficient flux conducting capacity to carry without saturation the maximum quantity of magnetic flux normally required for a satisfactory energy output, the said pole faces and the said armature being of comparable flux carrying capacity, and a sloped portion on said pole pieces constituting a tapered end for the pole pieces terminating at the said pole face and extending back in one direction from said pole face at a relatively sharp angle to the direction of extent of said pole face to form the full section of the pole piece of at least twice the area of the pole face.

1,667,532. CONCRETE HANGER BLOCK. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 1, 1926. Serial No. 139,000. 1 Claim. (Cl. 72—105.)



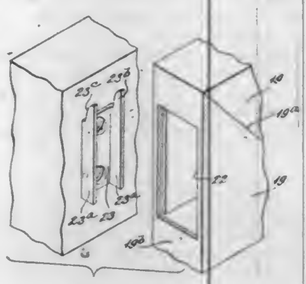
As an article of manufacture, a sheet metal hanger block adapted to be embedded in concrete having a flat bottom having an opening therethrough for a fastening means and provided with a flat surface for a supporting means inside, the bottom having two integral ends each in one piece projecting therefrom in opposite directions and bent upwardly in vertical planes and having vertical edges and tops converging inwardly, the sides of the hanger block being also integral with the bottom and bent upwardly and overlapping the ends throughout their width and contacting with them along the vertical and slanting edges of the center and projecting upwardly therefrom.

1,667,533. CONCRETE HANGER BLOCK. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 10, 1927. Serial No. 167,182. 2 Claims. (Cl. 72—105.)



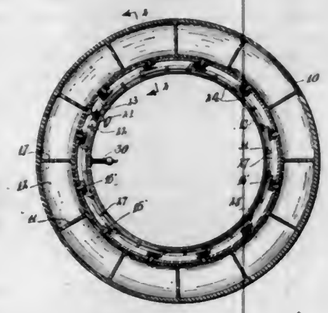
2. As an article of manufacture, a hanger block, adapted to be embedded in concrete, comprising a piece of pressed metal having a flat bottom with an opening therethrough for a fastening device, and a second sheet metal member bent into a U-shape with its end edges resting on said bottom to close the space in the block, the two sides integral with the bottom projecting upwardly and encompassing the second member and provided with integral vertical ribs near the ends to hold the second member in place and projecting upwardly from the top of said second member at opposite inclinations and provided with inclined diverging flanges to anchor the block in the concrete.

1,667,534. PARTITION STRUCTURE. ROBERT F. CARPENTER and THOMAS F. ANDERSON, Cleveland, Ohio, assignors to The Sanymetal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 7, 1924. Serial No. 711,589. 5 Claims. (Cl. 189—34.)



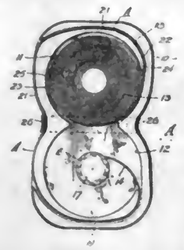
1. In building structures, an adjustable partition structure including an upright channel member having a substantially horizontally extending bottom supporting flange provided with a slot, and a partition engaging within said channel member and seated upon the bottom flange thereof, said partition being provided with a set screw cooperating with said flange slot so as to enable said channel member and said partition to be secured together in any adjusted position.

1,667,535. SECTION TIRE FOR VEHICLES. WILLIAM E. CELESTIN, New York, N. Y. Filed Aug. 24, 1926. Serial No. 131,140. 1 Claim. (Cl. 152—22.)



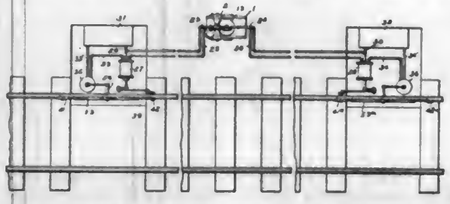
In a section tire of the class described a tire member proper provided with walls, so as to provide separate compartments, a tubular member adapted to engage inside the said tire member proper, so as to depress the said tire member proper, air valve chambers adapted to contain air valves proper, said air valve chambers attached to the said tubular member and to the said tire member proper, said tire valves proper normally held in a closed position by a spring, a manually operable means of opening the said tire valves proper comprising, a rod rotatively mounted in the said tubular member, a knob attached to the extended extremity of the said rod, a spool attached to the said rod, a flexible member attached to and wound in the said spool, said flexible member attached to an operating rod slidably mounted in the said tubular member, said operating rod attached to the said tire valves proper, so as to allow the said valves to open without the movement of the said operating rod.

1,667,536. MEANS FOR PREVENTING PREMATURE UNCOILING OF FILM BOBBINS. GASTON L. CHANIER, Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 4, 1927. Serial No. 165,817. 8 Claims. (Cl. 206—52.)



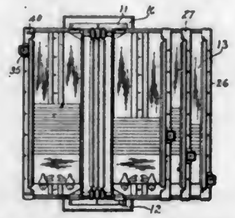
1. The combination with a film holder having an inner space for the reception of a roll of film and a guide passage for the film out of the holder, of means unattached to and surrounding the roll and passing with the film through said passage out of the holder, to prevent premature uncoiling of the bobbin in said space.

1,667,537. AUTOMATIC RAILWAY-CROSSING GATE. THOMAS N. COFFELDER, Pittsburgh, Pa. Filed Nov. 27, 1926. Serial No. 151,119. 10 Claims. (Cl. 246—272.)



1. An automatic railway-crossing gate comprising a vertically swinging gate arm, operating mechanism for said arm, a fluid pressure cylinder having a piston for actuating said operating mechanism, a fluid pressure pump communicating with said gate operating cylinder, a storage tank for maintaining a supply of the operating medium, a valve communicating with said cylinder, pump, and tank to regulate the flow of the operating medium from the pump to the operating cylinder and from the latter to the tank and track instruments operating said pump and regulating said valve, said track instruments, pump and valves being remote from the gate.

1,667,538. INDEX OR FILE LEAF. WILLIAM H. DAY, East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y., a Corporation of Delaware. Filed Jan. 11, 1924. Serial No. 685,574. 24 Claims. (Cl. 129—16.)

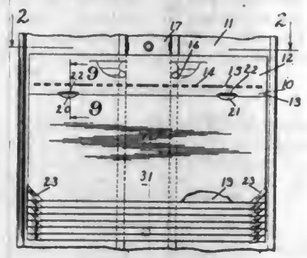


1. In an index or file, a substantially rectangular support for cards or the like, comprising a relatively thin plate, one side edge and both end edges thereof being reenforced by a one-piece structure, and means straddling the other side edge and extending the entire length thereof to reenforce the same.

12. In an index or file, a leaf provided with means to retain reference member thereon, an edge covering for the outer edge of said leaf adapted to overlie the edges of said reference members, means to connect the edge covering to the edge of said leaf whereby spaced raised portions are presented along said edge, and a tab adapted to hold an index slip detachably secured upon the edge of said leaf by engagement with the raised portion of said connecting means.

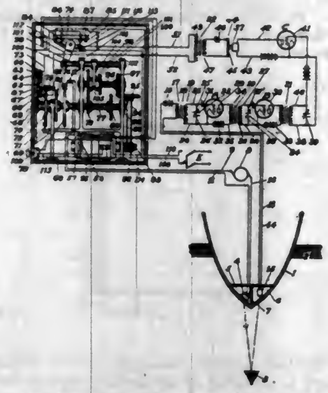
20. In an index or file, a support for cards or the like, an edge-covering straddling an edge of said support, said edge-covering terminating at each end thereof in knobs whereby spacing members are formed to space one support from another.

1,667,539. INDEX OR FILE. WILLIAM H. DAY, East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y., a Corporation of Delaware. Filed Apr. 21, 1925. Serial No. 24,765. 9 Claims. (Cl. 129—16.7.)



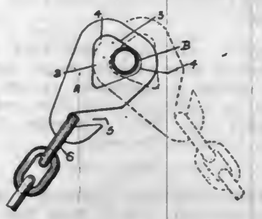
1. In an index or file, a pair of reference members in superimposed relation with the side edges and a marginal edge of one coinciding with the corresponding edges of the other, and means secured to one adapted to detachably retain the other thereon, said means comprising a preformed ribbon-like member.

1,667,540. METHOD AND APPARATUS FOR MEASURING DISTANCE. HERBERT GROVE DORSEY, Gloucester, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Dec. 22, 1923. Serial No. 682,243. 33 Claims. (Cl. 177—386.)



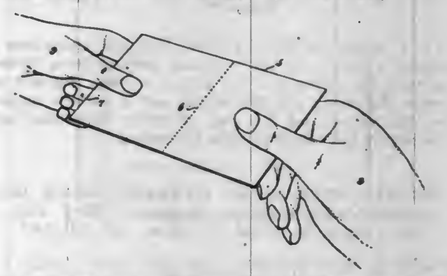
29. In an apparatus for measuring distance and depths, means for receiving a compressional wave signal, a scale and means for indicating the reception of the compressional wave with reference to the scale including a gaseous lamp constantly moving with reference to the scale, a relay having its winding connected to said receiver and a transformer having its primary winding normally closed by the armature of said relay and having its secondary connected to said gaseous lamp to produce upon the operation of said relay by a momentary local illumination of said lamp a momentary illumination of said scale indicating the desired measurement.

1,667,541. COUPLING MEMBER OR LINK. TOD S. EDEBURN, Cleveland, Ohio, assignor to Alfred N. Edeburn, Cleveland, Ohio. Filed Mar. 31, 1927. Serial No. 179,788. 4 Claims. (Cl. 24—230.5.)



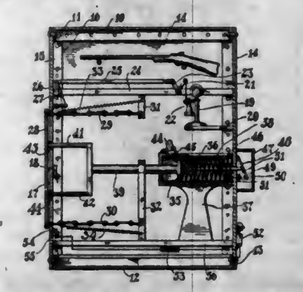
1. A coupling member or link for hammocks, swings and the like, having one end thereof formed with a straight bearing portion extending at right angles to the longitudinal median line of said link and terminating in downwardly-extended rounded portons, which are spaced so as to limit the rocking movements of the link equal distances on opposite sides of the said median line, and the opposite end of said link being constructed to suspend a connecting part therefrom on the same median line.

1,667,542. IDENTIFICATION BLOTTER. JAMES L. FLANAGAN, Sacramento, Calif. Filed June 25, 1925. Serial No. 39,524. 4 Claims. (Cl. 120—24.)



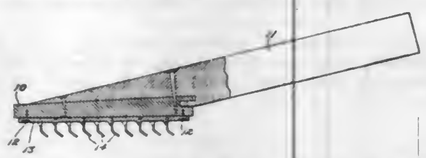
1. As a new article of stationery, a sheet of ink blotting material treated to provide a surface adapted to readily receive finger print impressions when the sheet is handled under normal conditions of use.

1,667,543. SAFETY CLOSET. FRANK FÓNAGY, Flagtown, N. J. Filed Aug. 23, 1927. Serial No. 214,841. 6 Claims. (Cl. 89—36.)



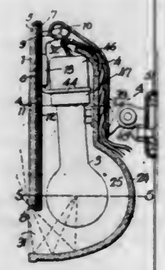
1. A safety closet of the class described comprising a pivotally mounted door, and a bumper thereon adapted to be projected forwardly.

1,667,544. WATERPROOF CATTLE CARD. WHITNEY M. FRYE, Wilton, N. H. Filed Sept. 25, 1924. Serial No. 739,839. 2 Claims. (Cl. 119—98.)



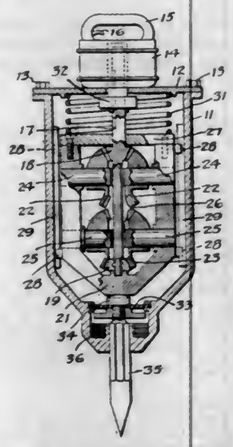
1. A waterproof cattle card comprising a sheet of fibre stock having holes therein, metal teeth in said holes, and a coating of waterproof varnish containing rosin covering the surfaces of said sheet and filling the interstices about said teeth, said rosin impregnating the fibre sheet to harden the same.

1,667,545. ILLUMINATING MIRROR. WILFRED B. GODDARD, Burlingame, Calif. Filed Nov. 15, 1926. Serial No. 148,535. 18 Claims. (Cl. 240—2.)



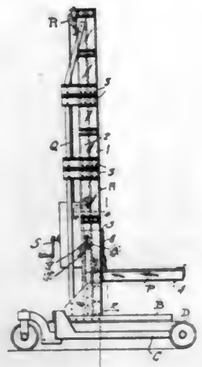
1. A device of the character described comprising a casing, a mirror, a light emission opening being formed between the casing and the mirror, a lamp disposed between the casing and the mirror, and a unitary support for the mirror and the lamp pivotally connecting both the mirror and the lamp with the casing.

1,667,546. MECHANICAL HAMMER. RUDOLF GOLDSCHMIDT, Charlottenburg, Germany. Filed July 9, 1925. Serial No. 42,353. 1 Claim. (Cl. 74—14.)



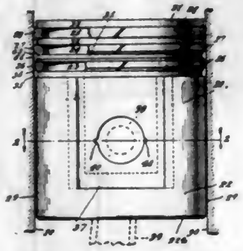
In a mechanical hammer the combination with an enclosing casing and a motor, of a tup within said casing comprising a frame, a pair of shafts extending transversely of said frame, four weights mounted on said shafts so as to cause the reciprocation of said tup due to the centrifugal action of said weights, gears adapted to rotate said weights, pinions meshing with said gears, a vertical shaft on which said pinions are mounted, said vertical shaft extending through said transverse shafts and connected to said motor.

1,667,547. PORTABLE ELEVATOR. HAROLD GREEN, Yonkers, N. Y., assignor to Henry S. Germond, jr., Bayonne, N. J. Filed Mar. 12, 1926. Serial No. 94,179. 7 Claims. (Cl. 187—9.)



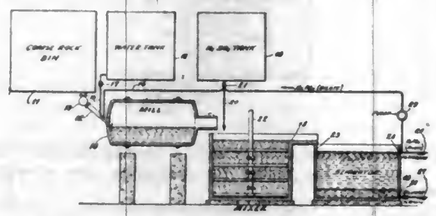
5. The combination of a load carrying member having a supporting portion and a load carrying portion offset from said supporting portion, said member having a pair of rollers at each of opposite sides thereof, the rollers of each pair being spaced longitudinally and offset laterally of said supporting portion, and a pair of spaced and parallel guides one arranged at each side of said member and each including a pair of channel bars each having one flange abutting one flange of the other and each of said channel bars having one of the corresponding pair of rollers arranged therein to roll on the said flange thereof abutting the adjacent channel bar.

1,667,548. PISTON. CHARLES C. HANCH, Indianapolis, Ind. Filed Jan. 5, 1924. Serial No. 684,639. 8 Claims. (Cl. 74—109.)



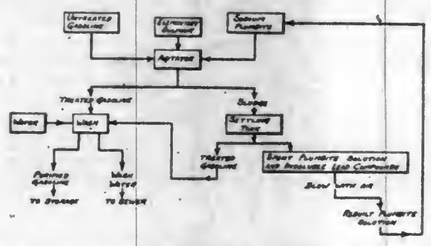
1. An internal-combustion-engine piston having near its head-end a plurality of piston-ring grooves with rigid lands between said grooves and between the piston-end and the adjacent groove, said lands being directly exposed to the outside of the complete piston, and the piston-ring-engaging walls of said grooves being substantially perpendicular to the piston axis, a land nearer the piston-end being of larger diameter than a land farther from the piston-end.

1,667,549. ART OF PHOSPHORIC ACID MANUFACTURE. INGENUIN HECHENBLEIKNER, Charlotte, N. C., assignor to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed Apr. 1, 1924. Serial No. 703,460. 2 Claims. (Cl. 23—165.)



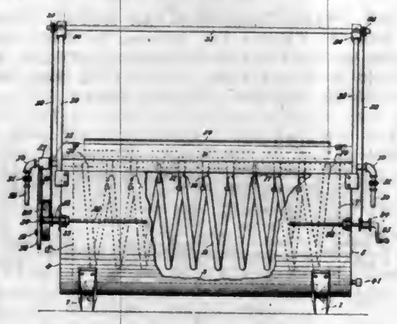
1. The herein described continuous method of producing phosphoric acid from phosphate rock which consists in grinding the rock in phosphoric acid with additions of dilute phosphoric acid sufficient to provide a substantially continuous overflow of acid and the fluent product of the grinding, and reacting the overflow with sulphuric acid.

1,667,550. CONVERSION OF LEAD SLUDGE. JOSEPH BENNETT HILL, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 16, 1927. Serial No. 206,253. 4 Claims. (Cl. 23—51.)



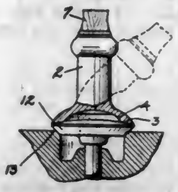
1. A method of recovering lead compounds from lead sludge, which comprises treating the lead sludge with a solution of an alkali metal hydroxide in the presence of an oxygen-containing gas.

1,667,551. ANTIFRICTION AGITATOR. JOHN BENJAMIN HINSHAW, Topeka, Kans. Filed Sept. 24, 1924. Serial No. 739,598. 2 Claims. (Cl. 257—78.)



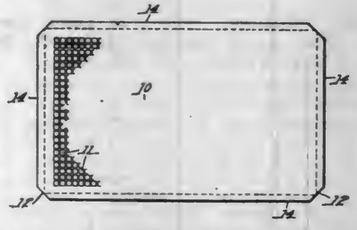
2. In combination, an open-top vat, a heat exchange agitating coil suspended within and supported by the ends of the vat for oscillation about a horizontal axis and freely removable from the vat upon elevation of the same, oscillating means for the coil including actuating elements freely separable when the coil is elevated, said coil including end pintle members having rigid depending knife edge bearing elements, and said ends of the vat having open-top sockets provided with V-shaped bottom portions in the crotches of which said bearing elements seat.

1,667,552. VALVE-GRINDING TOOL. DENNIS T. IGOU, Springfield, Ohio. Filed Dec. 22, 1924. Serial No. 757,354. 4 Claims. (Cl. 57—29.)



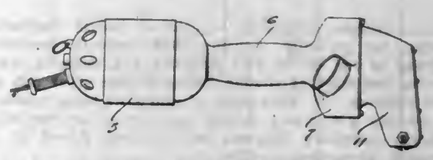
1. In a valve grinding tool, a vacuum cup having an outer flat inclined annular seat and an inner flat inclined annular seat, the inner seat being formed at a greater inclination than the outer seat, said inner seat being adapted to engage a valve of the smaller size and said outer seat being adapted to engage a valve of the larger size.

1,667,553. FISH FLAKE. GEORGE M. JOHNSTON, Clinton, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 19, 1926. Serial No. 142,727. 2 Claims. (Cl. 34—17.)



1. A fish flake comprising a single piece of perforated non-corrosive sheet metal having the integral edge portions thereof folded over against the body portion thereof and in close engagement therewith, and corrugated lengthwise to stiffen said flake.

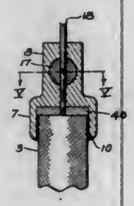
1,667,554. ELECTRIC CLOTHESBRUSH. RICA KRUG, Gardner, Ill. Filed Dec. 30, 1925. Serial No. 78,378. 1 Claim. (Cl. 15—7.)



A clothes brush consisting essentially of a motor casing, a motor therein, a fan casing spaced in front of the motor casing, a rotary fan in the fan casing, a brush casing in front of and communicating with the fan casing and extending forwardly and downwardly from the fan casing and gradually increased in width as it recedes from the fan casing and having a lower portion spaced below the plane of the fan casing and an opening in said lower portion, a transverse rotary brush in the brush

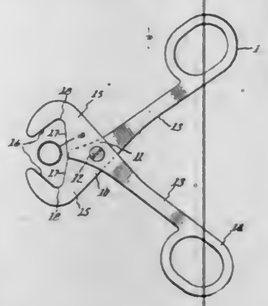
casing and protruding through said opening, a tubular portion of reduced cross section at right angles to said brush and joining the motor and fan casings; said tubular portion and the contiguous portions of the motor and fan casings shaped to form a handle, a shaft operable by the motor and extending through said tubular portion and the fan and brush casings and carrying the fan, and a driving connection in the brush casing and between said shaft and brush.

1,667,555. PARKWAY-CABLE TERMINAL. WILLIAM H. B. LAVARACK, Pinebush, N. Y., and DANIEL W. RICHARDS, Roanoke, Va. Filed Sept. 28, 1926. Serial No. 138,162. 3 Claims. (Cl. 173—353.)



2. In a cable connector, in combination: a metallic body formed with a cavity for receiving a cable, an orifice for receiving a conductor of a cable and an orifice for receiving a conductor for electrical connection with the conductor of the cable and an orifice connecting the last two named orifices for receiving a soldering metal.

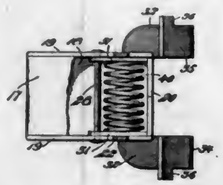
1,667,556. CRIMPER. WILBUR S. LEWIS, Cleveland, Ohio. Filed Aug. 17, 1925, Serial No. 50,818. Renewed Aug. 1, 1927. 5 Claims. (Cl. 132—32.)



1. A crimper comprising a pair of crossed elements, means for pivotally securing said elements together, handles at one end of said elements, and crimping jaws having jaw faces of similar outline at the other end of said elements, the inner edges of said jaws being opposed to provide a crimping surface and having substantially straight angularly disposed end portions joined by a rounded intermediate portion.

1,667,557. COUPLER. HANS LUEY, Providence, R. I. Filed Oct. 28, 1927. Serial No. 229,318. 5 Claims. (Cl. 24—201.)

1. In a coupler of the type set forth, a casing provided with a slot in its end and sides, a rod fixed in the sides of the casing, spaced attaching members comprising flat arms provided with perforations to loosely receive the rod, broad laterally extended forwardly projecting hooks



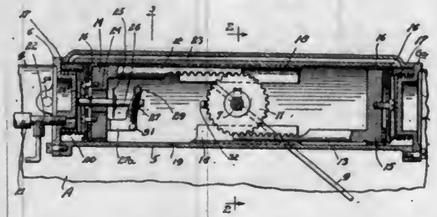
integral with the arms extending through the slots, and a spring in the casing for distending the attaching members.

1,667,558. CROSS-ARM CLAMP. ADOLPH W. MALONE, Fillmore, Utah, assignor of one-third to Albert H. Vestal, Anderson, Ind., and one-third to Alvin M. Lockwood, San Antonio, Tex. Filed Feb. 14, 1928. Serial No. 254,308. 7 Claims. (Cl. 189—33.)



1. The combination with an upright pole and a transverse cross arm, of means for attaching the cross arm upon the pole comprising a pair of opposed clamping members, and means for drawing the clamping members toward each other about a pole independently of the engagement with the cross arm, one of said clamping members having its ends extended and formed to embrace the cross arm, substantially as set forth.

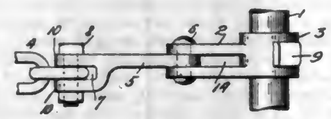
1,667,559. WINDSHIELD-CLEANER MOTOR. ALBERT G. MCCALEB, Chicago, Ill., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed July 11, 1924. Serial No. 725,345. 9 Claims. (Cl. 121—164.)



1. An automatic windshield cleaner motor comprising a cylinder element; a piston element therein; one of the aforesaid elements being movable relative to the other;

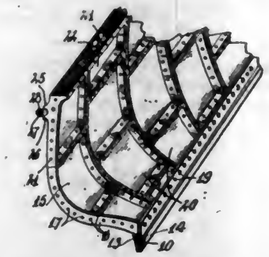
a suction passage for establishing continuous and uninterrupted communication between the interior of the cylinder at one side of the piston and a source of suction, when the motor is operating, for effecting movement of the movable one of said first two named elements in one direction, the interior of the cylinder at the opposite side of the piston being opened to the atmosphere; means for moving said movable element in the opposite direction when the pressures on the opposite sides of the piston are substantially equalized; and valve means including a snap action carried by the piston and operable by and during movement of said movable element for substantially equalizing the pressures on the opposite sides of the piston and without interrupting the continuous communication through the suction passage.

1,667,560. DEVICE FOR TAKING UP BRAKE CHAIN SLACK. JOHN MCMULLEN, Buffalo, N. Y. Filed July 13, 1926. Serial No. 122,056. 1 Claim. (Cl. 74—110.)



In a brake device, the combination with a chain for transmitting motion to the brake shoes, of means for taking up the slack consisting of a lengthened connecting slotted link to which the chain is pivoted and a slotted elongated lever arm pivoted to said link, said lever arm having a hub, and a post on which the said hub is secured, and means for rotating the post, in order that the lever and link may take up the slack in the chain quickly and the balance of the chain gradually so as to exert a strong braking effect.

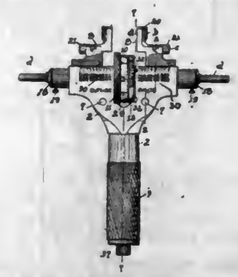
1,667,561. DIE-CAST-BOAT CONSTRUCTION. LEOPOLDO MEDIAVILLA, New York, N. Y. Filed Apr. 18, 1927. Serial No. 184,457. 1 Claim. (Cl. 114—79.)



In a ship of the class described, a keel comprising an inner section and arcuately arranged series of side plates comprising flanges for joining the adjacent plates together and to said keel disposed adjacent each other throughout the entire length of said keel, each alternate series comprising an arrangement of individual plates joined together at substantially the same distance above said keel and at a different elevation from the joint of those series therebetween for providing irregular seams.

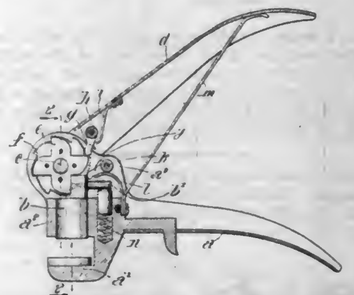
1,667,562. MICROMETER. FERDINAND NEUBAUER, Brooklyn, Ohio. Filed Dec. 21, 1926. Serial No. 156,199. 9 Claims. (Cl. 33—164.)

1. A micrometer, comprising a pair of movable jaw members having stepped contact places for inside and outside measuring purposes, means for shifting said members, and measuring means for the movement of said jaw members, including a zero marking element shiftable in limits in respect to said measuring means and adapt-



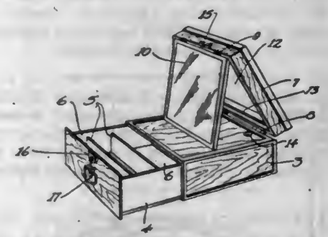
ed to compensate for lost motion in said parts and promote accurate readings for both inside and outside measurements.

1,667,563. SEALING DEVICE. FRANCIS PERRIN, Paris, France. Filed May 20, 1927, Serial No. 192,943, and in Belgium May 31, 1926. 2 Claims. (Cl. 81—9.1.)



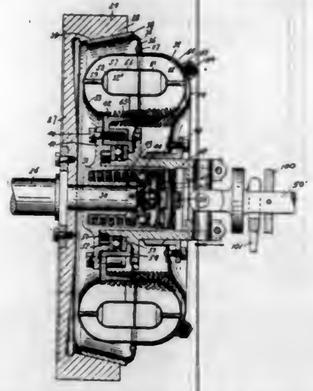
1. A device of the class described comprising in combination a supporting element, a pressure element, an assembly including a bossed cam and a toothed ratchet, said ratchet having a plurality of large teeth to a number equal to some whole multiple of the number of bosses on the cam, said large teeth having smaller teeth formed thereon, a detent formed to engage with the small teeth of said ratchet, a second detent formed to engage only with the large teeth of said ratchet, and means for transmitting pressure to said second detent.

1,667,564. TOILET-CABINET. OLAF S. PEARSON, Kansas City, Kans. Filed July 18, 1927. Serial No. 206,635. 2 Claims. (Cl. 132—79.)



1. A toilet cabinet comprising a box member having a top table surface, a drawer member slidably mounted within one side of said box member, a cover member hinged to the opposite side of said box member, and a mirror hingedly carried by the free side of the cover member, said mirror being movable independently of said drawer member and adapted by resting the free edge of said mirror upon said table surface to support the cover member in open position.

1,667,565. HYDRAULIC POWER-TRANSMITTING APPARATUS FOR MOTOR VEHICLES. CARLTON R. RADCLIFFE, New York, N. Y.; Cressida C. Radcliffe executrix of said Carlton R. Radcliffe, deceased. Filed Apr. 24, 1917. Serial No. 164,256. 4 Claims. (Cl. 60—54.)



2. In a motor vehicle, the combination with the engine fly wheel and the change speed gear of the vehicle, of a hydraulic power transmitting apparatus interposed between said elements and including a casing, and means on said fly wheel and said casing for engaging or disengaging, at will, said last named two elements.

1,667,566. DROWNING RING FOR ANIMAL TRAPS. GEORGE C. RUPERT, Decatur, Ill. Filed Feb. 23, 1927. Serial No. 170,079. 3 Claims. (Cl. 43—96.)



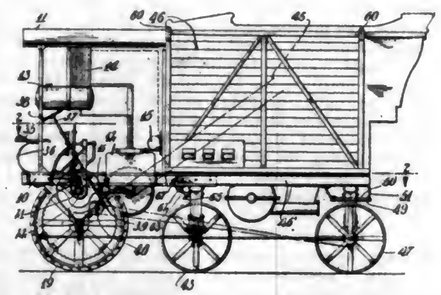
1. A drowning ring for animal traps comprising a main ring, a loop connected with said ring, disposed substantially in the same plane thereof for attaching a trap thereto, and a loop on said ring opposite from said first mentioned loop formed substantially at right angles to the plane of said ring comprising side portions converged substantially adjacent each other at their base, said converging side portions being adapted to clamp a flexible cord threaded through said last mentioned loop when said ring is moved in a predetermined direction.

1,667,567. HANDLE FOR TRAVELING BAGS, SUITCASES, ETC. MAURICE B. SHWAYDER, Denver, Colo., assignor to Shwayder Trunk Manufacturing Co., Denver, Colo., a Corporation of Colorado. Filed Sept. 27, 1926. Serial No. 137,946. 1 Claim. (Cl. 190—57.)



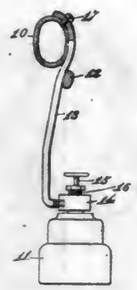
A handle for suitcases and the like comprising a metallic tie strip terminating in loops; a unitary rubber casing molded around said strip; and links molded within said casing so as to pass through said loops for attaching said handle to said suitcase.

1,667,568. INTERCHANGEABLE AGRICULTURAL MACHINE. FERENC SOMOGYI, Paris, France. Filed Oct. 28, 1926. Serial No. 144,891. 2 Claims. (Cl. 296—35.)



2. In an interchangeable agriculture device of the class described, a chassis frame having spaced openings therein, a shaft rigidly mounted on said chassis frame, a plurality of operatively connected pawl members rotatively mounted on said shaft, teeth on one of the said pawl members, a shaft rotatively mounted on said chassis, a worm on said shaft meshed with the teeth of said pawl member, a body member having openings therein adapted to register with the openings in said chassis frame, blocks on said body member having grooves therein, and extension on said pawl members adapted to engage in said grooves and to be forced therein by rotation of said worm for bringing said body member to a predetermined position on said chassis frame to render the openings therein in registration with the openings of chassis frame.

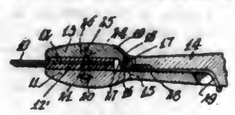
1,667,569. THERMOSTATIC CONTROLLING DEVICE FOR CARBURETORS. EINAR N. SORENSEN, Fernandina, Fla., assignor to Auto-Carburetor Corporation, Fernandina, Fla., a Corporation of Florida. Filed Mar. 20, 1925. Serial No. 17,088. 2 Claims. (Cl. 297—11.)



1. A fuel feed control for carburetors comprising a solid metal bar, means for attaching the bar directly to an engine manifold, a head on the lower end of said bar, a needle valve adjustably mounted in said head and a clamp bushing threaded in said head for locking said needle valve, substantially as described.

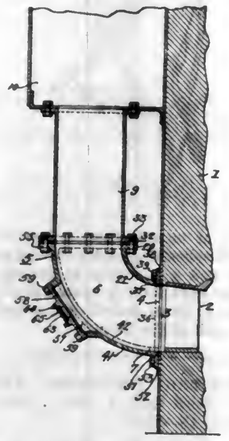
1,667,570. MANICURING IMPLEMENT. CESS THELANDER, New York, N. Y. Filed Mar. 24, 1927. Serial No. 177,041. 8 Claims. (Cl. 132—73.)

6. The combination with a glass nail scraper of arcuate curvature for manicuring, of a pair of pivotally connected jaw members, a pad on one of said jaw members having a convex surface adapted to conform to the curvature of one side of said scraper, a pad on the other jaw member having a concave surface adapted to conform to the curvature of the other side of said scraper, and



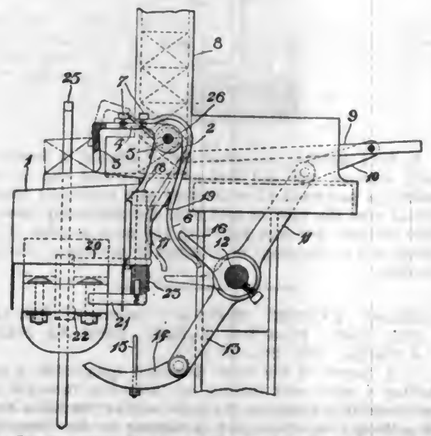
means on said jaw member for resiliently urging one pad thereof in the direction of the other pad for firmly gripping said scraper therebetween.

1,667,571. TUYÈRE WINDBOX. HARRY W. TITCOMB, Philadelphia, Pa. Filed Feb. 12, 1926. Serial No. 87,880. 9 Claims. (Cl. 266—30.)



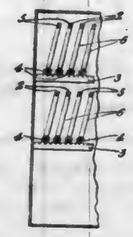
1. A cupola having an air opening, and a wind-box therefor having a discharge end in operative relation to said air opening, said wind-box having a removable plate extending from said air opening, the inner surface of said plate being curved.

1,667,572. SHUTTLE-CHANGING APPARATUS FOR AUTOMATIC LOOMS. KICHIRO TOYODA, Nagoya, Japan. Filed Aug. 23, 1926. Serial No. 130,907. 2 Claims. (Cl. 139—225.)



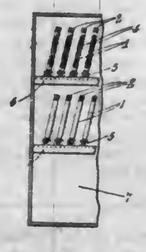
1. In an automatic loom, the combination of the slay, the shuttle magazine, a shuttle-box having a movable front-wall, a shuttle ejecting means, a picker, a check therefor, a pivoted arm carrying said movable front-wall, a spring-controlled extension secured to said arm, a horizontal rock-shaft, means carried thereby for simultaneously operating said shuttle ejecting means and said pivoted arm, a vertical rock-shaft adapted to be rocked by said extension, means on said vertical rock-shaft for releasing said picker, and means on said vertical rock-shaft for moving said picker out of the path of the fresh shuttle.

1,667,573. FISH-SMOKING APPARATUS. JAMES R. TURNER, Jersey City, N. J. Filed Apr. 2, 1927. Serial No. 180,598. 5 Claims. (Cl. 99—2.)



1. An apparatus for smoking fish, comprising a smoking chamber and a plurality of racks having openwork backs adapted to support fish to be smoked, together with means for detachably supporting said racks in slightly spaced positions within said chamber and at such inclination that the backs support the fish pieces without slippage and permit them to drain, and the fumes pass upwardly between adjacent racks to act substantially uniformly on both sides of the fish pieces.

1,667,574. ART OF SMOKING FISH FILLETS. JAMES R. TURNER, Jersey City, N. J. Filed Oct. 29, 1927. Serial No. 229,544. 2 Claims. (Cl. 99—9.)

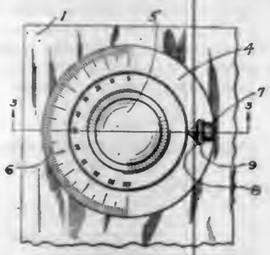


1. The process of producing smoked fish fillets, which comprises placing fresh fillets upon a screen and 'setting' them thereon while the screen is in substantially horizontal position, then tilting the screen to a steeply inclined position and passing smoke fumes upwardly past both sides of the screen.

1,667,575. GEARING FOR INSTRUMENT DIALS. MELVIN E. VANSICKLE, Newark, N. J., assignor, by mesne assignments, to Brandes Laboratories Inc., Newark, N. J., a Corporation of New Jersey. Filed Feb. 2, 1924. Serial No. 690,162. 1 Claim. (Cl. 74—7.)

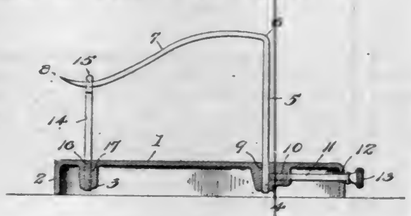
A dial for revolving an instrument shaft arranged to project through a stationary panel comprising a rotatable member having a central knob thereon, a substantially flat circular portion extending from said knob, a shaft member projecting through the peripheral edge of said circular portion in a radial direction and screw threaded into

said circular portion, a roller journaled on said shaft member and projecting through said flat circular portion for frictionally engaging the surface of said stationary panel,



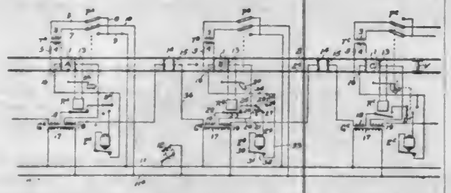
said flat circular portion being beveled around its peripheral edge on opposite sides of said shaft member for receiving indicia thereon.

1,667,576. FILING DEVICE. GEORGE HANSON VAN VALKENBURGH, Nashville, Tenn. Filed Oct. 19, 1925. Serial No. 63,383. 1 Claim. (Cl. 129—23.)



A filing device of the character described, consisting of a flanged base, a threaded boss depending from said base near one end thereof, a post having a lower threaded end engaging said threaded boss and having a hook at its upper end, a boss at the other end of said base and depending therefrom and having a vertical smooth opening and also having a horizontal threaded opening at right angles to said smooth opening and communicating therewith, a file holder having a vertical arm fitting in said smooth openings and formed with an arm to engage said hook of the post, and a screw having at one end a handle and having its other end threaded to engage said horizontal threaded opening and file holder to retain the file holder in place and mounted intermediate of its length in the flange of the base.

1,667,577. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HERBERT A. WALLACE, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 25, 1923. Serial No. 641,387. 22 Claims. (Cl. 246—37.)



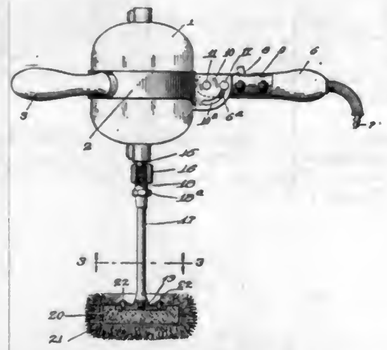
1. Railway traffic controlling apparatus comprising track rails, means for applying an alternating difference of potential across said rails and another alternating difference of potential along said rails, means for at times intermittently interrupting the supply of one of said potential differences to the rails, train carried governing means controlled jointly by the currents in the track rails due to said potential differences but not affected by said intermittent interruption of the one difference of potential, and other train carried governing means responsive to said intermittent interruption of said one difference of potential.

1,667,578. COW-TAIL HOLDER. ROBERT WYLLIE, South Franklin, Mass. Filed Jan. 27, 1927. Serial No. 164,078. 1 Claim. (Cl. 119—127.)



As an article of manufacture, a cow tail holder comprising a pair of opposite uprights having grooves in their outer surfaces, and a plurality of springs spaced apart and having their ends located in said grooves and riveted to the uprights at those points, and constituting a cage for holding the tail of the animal.

1,667,579. ELECTRIC POLISHER. HARRY A. ZWEIG, Chicago, Ill. Filed Sept. 4, 1926. Serial No. 133,520. 8 Claims. (Cl. 15—97.)

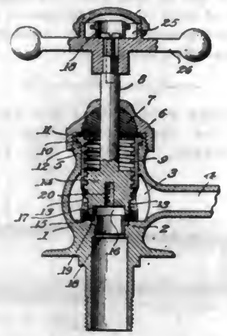


3. In a polisher, a motor driven spindle, a relatively soft, circular, felt pad secured to the free end of said spindle, a polygonal piece of sheep skin having its corners folded over the back of said pad, and means for securing said corners over said pad with the main portion of the sheep skin at the front of said pad to provide a polishing surface.

1,667,580. FAUCET. WILLIAM F. ALBRECHT, Salt Lake City, Utah. Filed July 2, 1927. Serial No. 203,152. 4 Claims. (Cl. 251—27.)

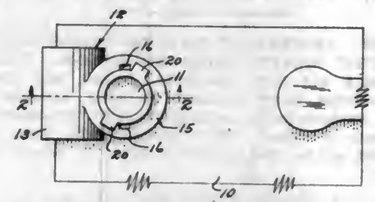
1. A faucet of the class described comprising a body having a valve seat therein, an internally threaded barrel removably fitting in the body and having holes therein adjacent its lower end, a washer in the lower end of the barrel engaging the seat, a valve head threaded to engage the threads in the barrel and having a recess

in its lower end which forms an annular projection for engaging the washer, a stem connected with the head, a handle on the stem, a cap encircling the stem and re-



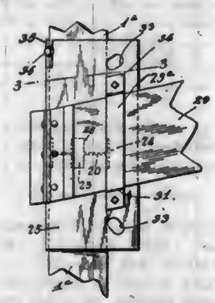
movably connected with a part of the body and a sleeve having a part extending into the hole in the washer for preventing spreading of the same.

1,667,581. BATTERY-TERMINAL CLIP. ERNEST M. BAILEY, Woodsdale, N. C. Filed Mar. 5, 1926. Serial No. 92,580. 3 Claims. (Cl. 173—259.)



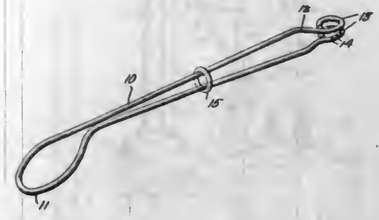
1. A battery terminal clip of the character described comprising a tubular portion having a tapered bore extending longitudinally thereof for anchoring a cable end therein, a circular portion carried by the tubular portion to receive a battery post therein and provided with oppositely disposed bayonet slots within its inner sides, and a sleeve having oppositely disposed lugs adjacent its lower periphery adapted for registration with the bayonet slots in the circular portion to lock the sleeve within the circular portion and against the battery post.

1,667,582. DERRICK. NOAH BENJIMAN BIGGS, Wichita, Kans., assignor to Fred J. Anthony, Wichita, Kans. Filed July 28, 1925. Serial No. 46,666. 5 Claims. (Cl. 20—0.5.)



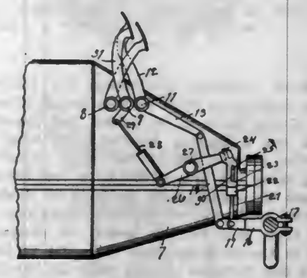
1. An element of a derrick construction comprising means for securing the abutting ends of corner posts and girders in locked relation and comprising an angle iron having a pair of side walls disposed at right angles to each other, stops secured to the outer faces of the walls, a bracket secured to each wall adapted to receive the end of a girder with the end of the girder abutting the stops, and a key plate received between the walls of the angle iron and having sockets at its opposite faces to receive the abutting ends of the corner posts, and complementary means included in the angle iron and key plate for maintaining the relative position of the plate and angle iron.

1,667,583. SLEEVE HOLDER. AUSTIN L. BLACK, Colorado Springs, Colo. Filed Nov. 20, 1926. Serial No. 149,717. 1 Claim. (Cl. 24—15.)



A sleeve holder comprising a member bent upon itself to provide an elongated loop adapted to receive a finger or thumb, arms outwardly flared from the loop, said arms being inwardly offset adjacent the extremities thereof, rings projected in parallelism from the offsets, the adjacent faces of the ring being radially notched to provide gripping surfaces, and a ring slidably mounted upon the arms being adapted to contract the rings for active use when shifted in juxtaposition thereto.

1,667,584. LOCKING DEVICE FOR AUTOMOBILES. MANLEY J. CHAPLIN, Berkeley, Calif. Filed Mar. 11, 1927. Serial No. 174,599. 4 Claims. (Cl. 70—128.)

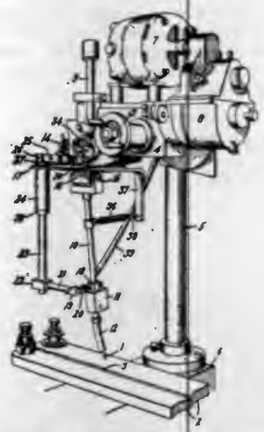


1. In a motor vehicle, a rocker bar adapted to actuate the brakes of a motor vehicle, a lever secured to said rocker bar, means for connecting said lever to the brake pedal of said motor vehicle, a ratchet positioned on said rocker bar and means for locking said ratchet against retrograde movement.

1,667,585. AUTOMATIC ARC WELDING. VERNI J. CHAPMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 22, 1926. Serial No. 111,048. 8 Claims. (Cl. 219—8.)

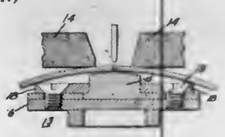
1. The method of fusion welding wherein the source of heat is oscillated across the works which comprises moving the heat source relatively slowly across the center of the line of the weld and relatively rapidly at points

distant from the center of the line of the weld as compared to the rates of movements with a sinusoidal oscillation of the end of the electrode.



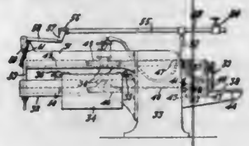
8. A fusion seam welding machine comprising a pivoted member for directing a source of heat along a seam to be welded, means for oscillating said member, and a connecting means between said oscillating means and said member adjustable to different distances from the pivot point of said member to adjust the amplitude of oscillation.

1,667,586. APPARATUS FOR FUSION WELDING. VERNI J. CHAPMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 2, 1926. Serial No. 126,709. 7 Claims. (Cl. 219—17.)



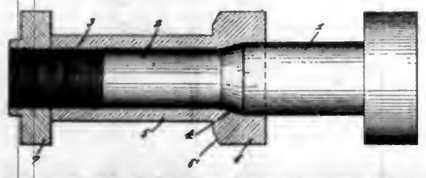
1. A work clamping mechanism for fusion welding apparatus comprising work holding means arranged along the line of the seam to be welded and spaced laterally therefrom and a backing member comprising a backing strip having a relatively narrow work engaging portion extending along the line of the seam and being provided with means for engaging the parts to be welded on each side of the seam spaced laterally therefrom a greater distance than said holding means to produce bending moments in the work to force the edges of the parts to be welded into intimate contact with the backing strip.

1,667,587. WELDING MACHINE. VERNI J. CHAPMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1926. Serial No. 132,379. 6 Claims. (Cl. 219—8.)



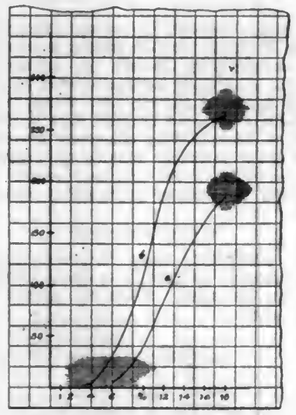
1. Apparatus comprising a pressure member, means for actuating said pressure member, a supporting arm for said actuating means, a second arm against which said pressure member acts, means for supporting said arms in spaced relationship with one end of one of said arms free of external support, removable means for reinforcing the free end of said arm, and means operated by the movement of said reinforcing means to prevent the actuation of said pressure member until said reinforcing means is in operative position.

1,667,588. WRIST PIN. OSCAR COX and ORVIS CARRY WILLIS, Cotton Valley, La. Filed July 18, 1927. Serial No. 206,639. 2 Claims. (Cl. 74—38.)



1. A wrist pin of the class described comprising a pin having a reduced part threaded at its outer end, a bevelled shoulder connecting the reduced part to the other part, a sleeve fitting over the reduced part and having a bevelled wall engaging the shoulder and a nut threaded on the pin for holding the sleeve against the shoulder.

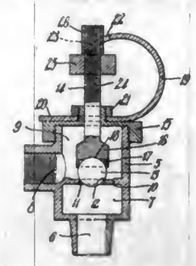
1,667,589. PROCESS OF MANUFACTURING PHOTOGRAPHIC SILVER HALID EMULSIONS. WALTER DIETERLE and OTTO MATTHIES, Dessau, and JOSEF REITSTÖTTER, Berlin-Friedenau, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed July 12, 1926, Serial No. 122,038, and in Germany Oct. 7, 1925. 3 Claims. (Cl. 95—7.)



1. A process of making photographic silver halid emulsions which comprises adding during emulsion making substances extractable from proteins by electro-dialysis.

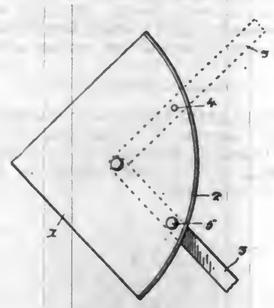
1,667,590. RELIEF VALVE. EDWARD F. DONNELLY, Malden, Mass. Filed June 11, 1926. Serial No. 115,375. 2 Claims. (Cl. 251—121.)

1. A relief valve having, in combination, a casing provided with an inlet passage, an outlet passage and with a valve seat intermediate said passages, a spherical valve member engaging said valve seat, a stem for said valve member extending loosely through said casing, a stop fused at the upper end of said valve stem, a spring secured at one end thereof to said casing, the other end of said spring being curved and terminating adjacent to said stop, and a nut adjustably mounted upon said



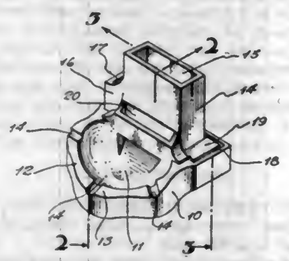
valve stem and engaging the under side of the upper portion of said spring, said stop limiting the movement of said nut toward said spring.

1,667,591. SNOW SHOVEL. EDWARD H. EDEN, St. Louis, Mo. Filed May 20, 1927. Serial No. 193,020. 1 Claim. (Cl. 294—49.)



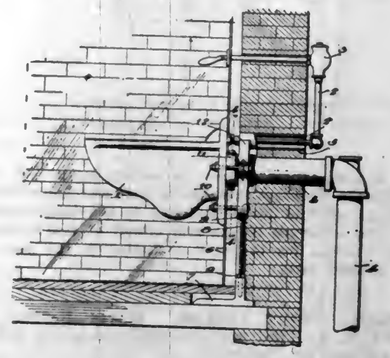
A snow shovel comprising a flat segmental blade whose rounded edge is flanged upwardly, a handle on the upper face of the blade pivoted thereto centrally with respect to the flange and to the apex of the blade, said blade at points equidistant from the pivot, and adjacent to the flange having openings therethrough, and a holding means designed to be passed through said openings and through the handle for holding the handle in a line with either of the angle edges of the blade.

1,667,592. COMBINATION HOLDER AND CIGARETTE-EXTINGUISHING ASH TRAY. HENRY EVENS, Duluth, Minn. Filed Aug. 27, 1926. Serial No. 131,980. 2 Claims. (Cl. 131—51.)



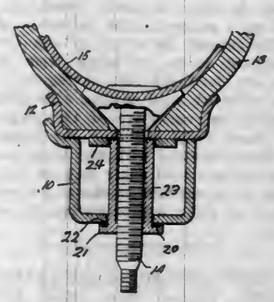
1. An article of the class described including a body providing a depressed portion serving as an ash receptacle, and a second body upstanding from the first mentioned body and providing a plurality of compartments and providing a groove forwardly of its front wall for the reception of the lighted end portion of cigarettes, said groove having longitudinal wall portions tapering inwardly and downwardly toward each other and having a lower end portion opening into said ash receptacle.

1,667,593. WATER-CLOSET SUPPORT. RICHARD T. FREY, Newburgh, N. Y. Filed Feb. 4, 1927. Serial No. 165,923. 7 Claims. (Cl. 4—252.)



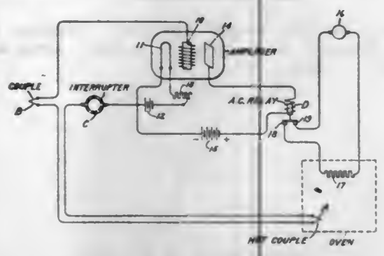
1. In combination with a bowl of a water closet or the like, a wall plate, adjustable supporting means for said bowl and said wall plate and means adjustable to angular irregularities comprising ball and socket joints, for bringing said bowl and said wall plate together, an exit pipe through said wall plate from said bowl and a water supply therefor.

1,667,594. VALVE-STEM ATTACHMENT. FORREST H. GIBBONS, Russell, N. Y. Filed Apr. 3, 1926. Serial No. 99,648. 2 Claims. (Cl. 152—12.)



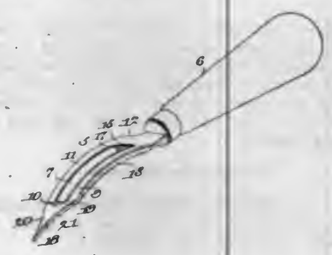
1. An attachment for use upon and in conjunction with pneumatic tire valves comprising a sleeve provided with an outwardly extending annular flange upon one end and periphery thereof, said flange having an annular groove upon its under side to seat a resilient washer adapted for frictional engagement with the outer side of a wheel felly and for encircling the valve stem opening therein, the flange being adapted for threaded engagement with the valve stem, and means carried upon the inner side of the rim adapted for engagement with the inwardly extending end of the sleeve.

1,667,595. TEMPERATURE-CONTROL MEANS. SIMON HALLE, Colorado Springs, Colo., assignor to Edison Electric Appliance Company, Inc., a Corporation of New York. Original application filed Apr. 5, 1921, Serial No. 458,686. Divided and this application filed Mar. 1, 1926. Serial No. 91,821. 8 Claims. (Cl. 219—20.)



6. A temperature control for electric ovens comprising an electron discharge tube having grid and plate circuits, a thermo electric device subjected to the temperature in the oven connected in the grid circuit of said tube, and control means for the oven connected in the plate circuit of said tube.

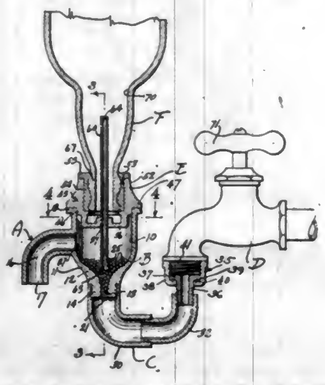
1,667,596. FRUIT PEELER. HYMAN KAPOTA, New York, N. Y. Filed Sept. 11, 1922. Serial No. 587,453. 8 Claims. (Cl. 30—20.)



1. A fruit peeling implement comprising a member curved to form a concavity, the curvature of which conforms to the general curvature of the fruit, a longitudinally curved blade extending from said member downwards and forwards and having its cutting edge within said concavity, said cutting edge being concentric to the longitudinal curvature of the major portion of the blade, guard walls bounding the blade adapted to come in intimate contact with the fruit, so as to cause said blade to maintain an angle and cut the peel or skin of the fruit of a uniform thickness approximating the depth, and of a width approximating the length of the blade.

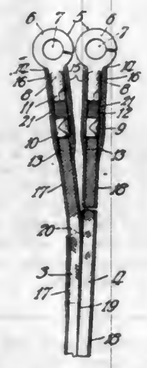
1,667,597. BOTTLE-WASHING APPARATUS. MICHAEL J. KREUTZER, Dayton, Ohio. Filed Nov. 20, 1922. Serial No. 602,191. 1 Claim. (Cl. 15—95.)

A bottle washing apparatus comprising a body having a compartment entirely open at its upper end and having its lower end provided with a relatively small inlet opening diverging into said compartment, said body having a lateral exit opening therein of relatively greater dimension than said inlet opening, a U-shaped connection for attachment in said body at the inlet end thereof, said U-shaped connection being adapted for attachment to a liquid supply source, a cap member upwardly carried by said body including a spider portion depending into said body compartment providing a passageway therethrough, a tube longitudinally disposed within said compartment and adjustable in the passageway of said spider, the lower end of said tube being outwardly flared and enlarged as to its opening for disposal adjacent the inlet opening of said body, shots disposed within the compartment on the surface thereof adjacent said inlet opening, screens



over the inlet and outlet openings of said body, and a resilient bottle receiving bushing disposed within said cap, a bottle when in said bushing being invertedly disposed so that said adjustable tube extends upwardly into the same.

1,667,598. INSULATED TERMINAL. JACOB MAYO LENZ, Chicago, Ill., assignor to Runzel-Lenz Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 3, 1924. Serial No. 703,967. 7 Claims. (Cl. 173—269.)

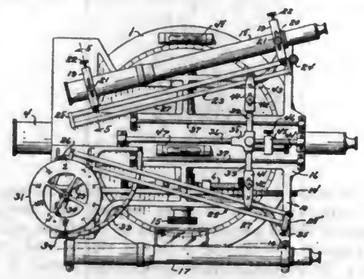


1. In a device of the character described, a pair of conductors each having an insulating covering thereon, a terminal on each of said conductors, said terminals each having a sheath of insulating material and an exposed end portion serving as a contact, said sheaths extending rearwardly from said terminals over said insulating covering, one of said sheaths embracing both said conductors at a point spaced from said terminals and the other of said sheaths terminating on its conductor under said first sheath to bind the free end thereof in position.

1,667,599. SURVEYING INSTRUMENT. TONY MARIOTTI, Lorain, Ohio. Filed Apr. 21, 1926. Serial No. 103,544. 3 Claims. (Cl. 33—66.)

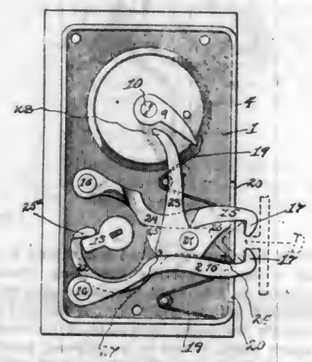
1. An instrument of the class described comprising a supporting frame, a telescope connected with one side of the frame, an elongated frame pivotally supported at its front end to the main frame, a telescope carried by said

elongated frame, a second elongated frame pivotally connected with the main frame at its rear end, indicating mechanism operated by the movement of the second elongated frame, a sliding member supported on the main



frame and movably connected with the elongated frames so that movement of the sliding member will actuate the elongated frames and means for securing fine adjustment of the sliding member after the same has been moved by hand.

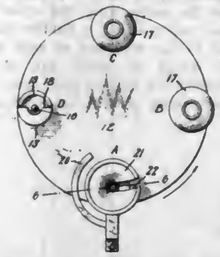
1,667,600. SLIDING-DOOR LOCK. MICHAEL MARTINEK, Lyons, Ill., assignor to Western Wire & Iron Works, Inc., Chicago, Ill., a Corporation of Illinois. Filed Mar. 7, 1927. Serial No. 173,402. 2 Claims. (Cl. 70—31.)



1. A sliding door lock comprising a keeper member and a casing member, the casing having an opening in one edge and provided interiorly with a pair of lever arms having their movable ends adapted for operative locking engagement with the keeper member, means for holding said arms normally in the locked position, a key actuated device secured to one side of the casing and a knob actuated device secured to the other side of the casing, a pivot in the casing between the lever arms, two lever devices mounted movably in superposed relation upon said pivot, and each adapted to engage and spread apart both lever arms, a wing member connected with the knob actuated device to contact with and actuate one of said pivoted lever devices independently of the other pivoted actuating device.

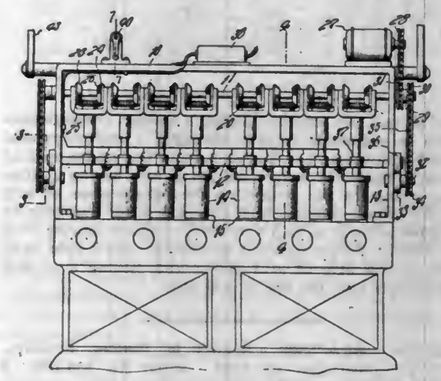
1,667,601. EXHAUST-TUBE REMOVER. LOUIS A. MAUERER, Irvington, N. J., assignor to General Electric Company, a Corporation of New York. Filed Feb. 14, 1923. Serial No. 619,028. 4 Claims. (Cl. 176—2.)

1. In a machine of the character described, the combination of a holder having a recess with elastic walls for gripping an article, an ejector mounted adjacent said holder, and means for producing relative movement between said holder and said ejector to cause said holder to pass adjacent said ejector and to bring said ejector



into contact with an article in said holder, and thereby distort said elastic walls sufficiently to release the article.

1,667,602. VALVE-GRINDING MACHINE. EDWARD PAUL O'DONNELL, Kiefer, Okla. Filed Sept. 9, 1927. Serial No. 218,567. 1 Claim. (Cl. 51—29.)

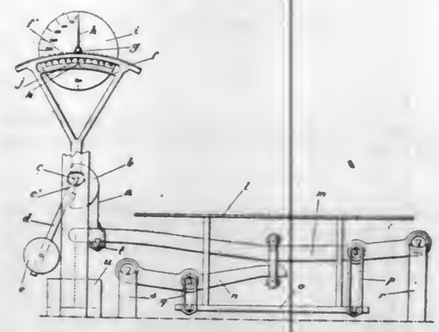


A means for grinding valves in an engine block, comprising a substantially U-shaped frame which is removably bolted on the block, valve engaging tools designed to each engage with a valve, a rod associated with each tool having an upper squared end, beveled gears having hub portions journaled on the frame having squared bores to receive the squared ends of the rods therein, oppositely disposed mutilated gears engaging each of the beveled gears, a shaft for the last mentioned gears, means for revolving the shaft whereby to cause the last mentioned gears to impart reverse motion to the first mentioned gears and to the rods associated therewith, guide means for the rods, comprising a reciprocating member mounted on the frame, rollers on the ends of said member, cams on the stub shafts mounted adjacent to and engageable with the first mentioned rollers, means for revolving the cams to elevate the guide means, means supporting the rods on the guide means for causing the same to be raised with the guide means and solenoids surrounding each rod and the tool engaging element thereon, and means for energizing the solenoids to attract the valves to raise the same from their seats.

1,667,603. AUTOMATIC BALANCE. CHARLES PECCAUD, Morbier, France. Filed Feb. 4, 1925, Serial No. 6,693, and in France Feb. 6, 1924. 1 Claim. (Cl. 265—62.)

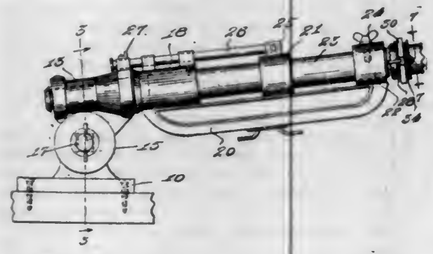
An automatic weighing balance comprising in combination, a traverse, a scale plate supported by said traverse, a main lever, a stationary support on which one end of

said main lever rests, means for suspending one end of said traverse to said main lever, a secondary lever, a stationary support on which one end of said secondary lever rests, means for suspending said secondary lever on said main lever, means for suspending the other end of said traverse to said secondary lever, a flexible metal band attached at one end to the free end of said main lever, a rectifying cam to which the other end of said flexible metal band is attached, an axle of said cam, an arm fixed on said axle, a balancing weight on said arm, a sector



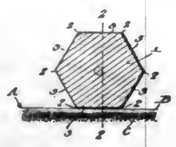
fixed on said cam axle and having a toothed circumference which is concentric to said cam axle, a stationary dial behind said sector and having a scale the graduations of which indicate the weight units and also having graduations along its rim indicating the sub-divisions of said weight units, a pointer rigid with said sector and adapted to move in front of said unit scale, a pinion gearing with the toothed circumference of said sector, and a light hand fixed on the axle of said pinion and moving over said graduations near the rim of said dial.

1,667,604. BRACKET. ROBERT B. PETERS, Brooklyn, N. Y. Filed Apr. 12, 1927. Serial No. 183,129. 2 Claims. (Cl. 248—37.)



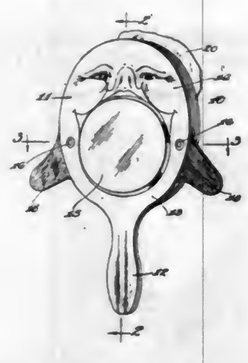
2. A device for use upon poles comprising a bracket, supporting means for the bracket affording angular-adjustment thereto, a socket member rotatably mounted within the bracket, an arm carried by the socket member, sleeve members mounted upon the arm having the bores thereof disposed in alignment with the opening within the socket member to receive the pole therein, ears carried upon one of the sleeve members socket member and bracket, and an operating lever pivotally mounted between a pair of the ears for rotating the socket member within the bracket and adapted for locking engagement between the remaining ears upon the socket and bracket members respectively.

1,667,605. RUG OR CARPET BEATER. DANIEL PARKS RANSOM, Woodstock, Vt. Filed Mar. 7, 1925. Serial No. 13,870. 1 Claim. (Cl. 15—92.)



A rug or carpet beater comprising a rotary beating element of polygonal form in cross section and having a continuous unbroken periphery made up of ridges and flat beating surfaces alternating with the ridges, and means for rolling the beating element across the carpet or rug.

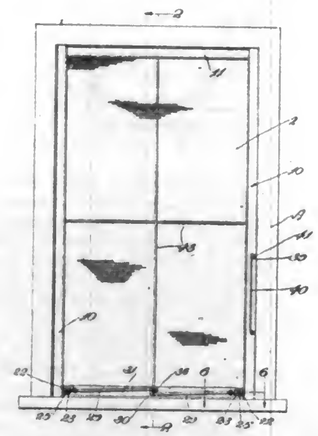
1,667,606. TOY NOVELTY. JOHN ROMANO, Brooklyn, N. Y. Filed May 23, 1927. Serial No. 193,604. 1 Claim. (Cl. 46—53.)



An article of the class described comprising a body portion having a handle portion extending therefrom, a grotesque picture on said body portion, a pair of sections pivotally mounted within said body portion and normally concealed therein and being indicative of the ears of said grotesque figure when moved to an exposed position, and manipulating portion extending from said sections beyond the sides of said body portion and movable within said body portion upon actuation of the same to move said sections to an exposed position on opposite sides of said body portions, said manipulating portions co-acting with said picture to form a part thereof.

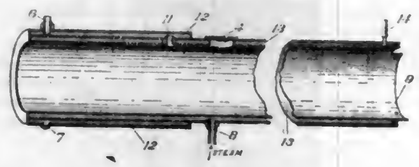
1,667,607. LATCHING MEANS FOR WINDOW SCREENS. PETER SCHNURR, Chicago, Ill. Filed June 29, 1923. Serial No. 648,588. 1 Claim. (Cl. 292—87.)

In combination, latching means for a window screen including substantially channel shaped guiding members extending along corresponding edge portions of a screen member and having openings formed therein, a bracing plate adapted to be attached to the lower edge portion of the screen member, guiding blocks having open ends and adapted to be carried by the bracing plate at opposite end portions thereof, latch bolts slidably associated with the guiding blocks, and having end portions adapted for projection through the openings, spring members operable on the latch bolts for urging the end portion of the latch bolts into projecting position through the openings, said guiding blocks having openings in the face thereof, handle portions on said latch bolts protruding through said openings, and adapted for manipulation to move the ends of said latch bolts from projecting position through the openings, and means for connecting the latch bolts for simultaneous operation permitting the end portions to be moved in unison from projecting position through the openings, said means including a disc rotatably supported



by the bracing plate and having a notch formed in the rim thereof, rod members having end portions eccentrically connected to the disc and opposite end portions connected to the latch bolts, and a member pivotally connected to the bracing plate and having a bill adapted for engagement with the notch, substantially as described.

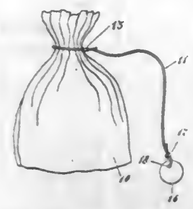
1,667,608. MACHINE FOR STERILIZING COTTONSEED. WILLIAM JOHN STAHMANN, El Paso, Tex. Filed Jan. 11, 1926. Serial No. 80,604. 2 Claims. (Cl. 257—246.)



1. In combination with a cotton seed conveying pipe and its auger, a jacket surrounding the pipe, means for introducing steam into the jacket for heating the pipe and the auger, a second jacket surrounding a part of the first jacket, means for placing the second jacket in communication with the pipe and means for introducing liquid into the second jacket so that it will be vaporized by the heat from the first jacket and the resulting vapor will pass into the pipe.

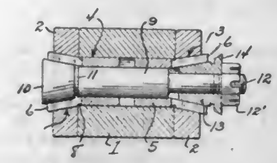
1,667,609. BAG SEAL. JAY TAMASSY, New York, N. Y. Filed Nov. 12, 1926. Serial No. 148,021. 1 Claim. (Cl. 53—8.)

An infusorial container comprising an open mouthed bag made of flexible fabric, having its mouth closed by gathering its folds together to form a neck, a flexible suspension member therefor, having one of its ends formed into a loop encircling said neck, and a metallic clip formed by a relatively short length of flat metallic wire having a body portion abutting against the strands of said loop and having two slanted ends each end being



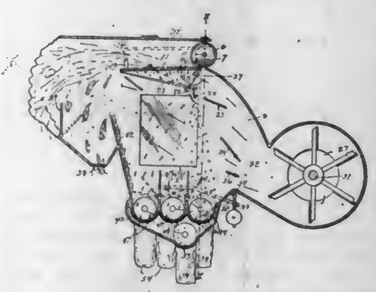
bent and flattened over both said strands, fastening the free end of said loop to the body portion of said suspension member.

1,667,610. WEAR-COMPENSATING PIN. JOHN W. TEWALEY, Waverly, N. Y. Filed Apr. 12, 1927. Serial No. 183,158. 2 Claims. (Cl. 308—64.)



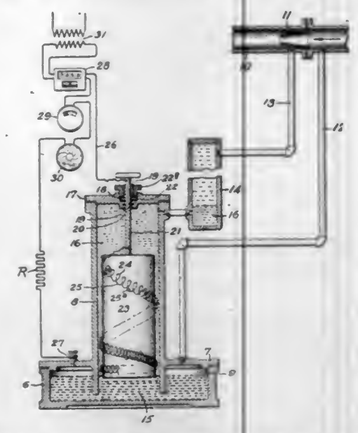
1. In a device for the purpose set forth, a pin having an outwardly tapered head at one end and its opposite end reduced and threaded, a bushing having outwardly tapered ends arranged on the pin and the bore of one end of the bushing receiving the head of the pin thereon, a tapered collar on the pin received in the second end of the bushing and a link screwed on the pin and contacting with the collar.

1,667,611. GRAIN SEPARATOR. ERNEST S. THOMPSON, Porterville, Calif. Filed June 20, 1927. Serial No. 200,247. 2 Claims. (Cl. 209—35.)



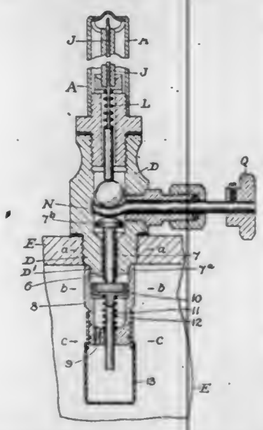
1. In a grain separator of the character described, a shaking screen adapted to have grain placed thereon, an inclined member positioned beneath said screen and adapted to receive the grain passing through said screen, a trap positioned at the lower extremity of said board, said trap comprising a stationary board and a movable plate resiliently held in spaced relation to said board, means for producing an air current through said screen and beneath said trap, for the purpose specified.

1,667,612. FLOW METER AND THE LIKE. LOUIS WILLARD THOMPSON, Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company, a Corporation of Delaware. Filed Sept. 22, 1922. Serial No. 589,775. 2 Claims. (Cl. 201—57.)



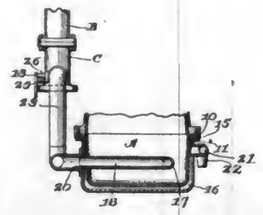
2. In an indicating instrument for flow meters and the like, the combination of a U-tube, a liquid therein which is a conductor of electricity, a supporting member in a leg of the U-tube, and a looped resistance wire spirally wound on said supporting member with the loops flattened against said supporting member and arranged with the lower end of each successive loop located above the lower end of the preceding loop whereby when the liquid rises and falls in such leg of the U-tube it cuts the loops out of and into circuit a loop at a time.

1,667,613. HYDROCARBON-VAPOR BURNER. FREDERICK CHARLES TILLEY, Hendon, London, England. Filed Apr. 23, 1927, Serial No. 186,104, and in Great Britain May 25, 1926. 10 Claims. (Cl. 158—58.)



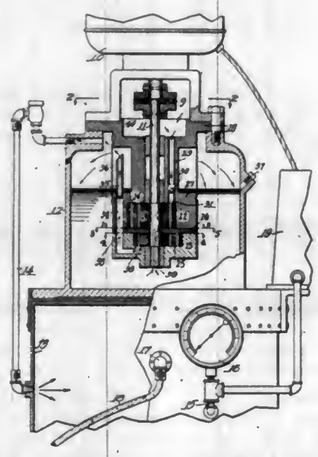
1. The combination with a hydrocarbon fuel supply, of a burner including a vaporizing tube having a jet orifice, a spring-opened jet valve, a spring-closed fuel control valve, manually operated means for closing the jet valve and permitting the fuel valve to close, and means for directing the excess gas pressure in the tube to automatically open the fuel valve so that such excess gas will pass into the fuel supply.

1,667,614. AUTOMOBILE OIL-HEATING DEVICE. GUY TOLLERUD, Austin, Minn. Filed Mar. 15, 1927. Serial No. 175,486. 2 Claims. (Cl. 184—104.)



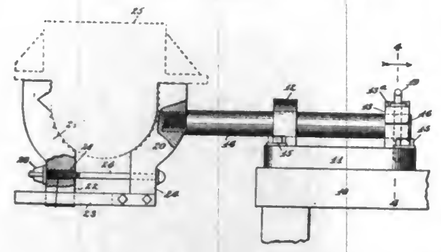
1. An oil heating attachment for motor vehicles comprising a pan adapted to be arranged in spaced relation and to completely surround the oil containing section of a crank case of an internal-combustion engine and providing in connection therewith a heating chamber, a substantially U-shaped conveyor pipe located within said section and having one of its legs extending through one of the walls of said section and opening into said chamber and having the other of its legs extending through such wall, and said chamber and through a wall of said pan, means for conveying exhaust from an engine directly to said last mentioned leg, and means connected to one of the walls of said pan for delivering the exhaust from said chamber.

1,667,615. ROTARY COMPRESSOR. ALONZO W. WHITCOMB, Worcester, Mass. Filed Nov. 20, 1924. Serial No. 751,137. 2 Claims. (Cl. 230—158.)



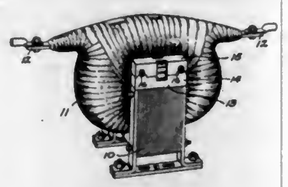
1. In a rotary compressor, the combination with a casing and a vertical central driving shaft, of a gear-shaped rotary member fixed thereto, a ring outside said rotary member and having the same thickness and provided with teeth on the inner surface meshing with the teeth on the gear at one side, a crescent shaped member located in fixed position to fill the space between the two toothed members, and means for discharging compressed air or gas from the pump into the casing, said casing being filled with lubricant up to a lower level and the shaft being provided with an exposed passage extending into it at the bottom and communicating with the exterior of the shaft to conduct lubricant up from the bottom under the pressure of the air or gas in the casing and distribute it around said gears.

1,667,616. TRANSMISSION STAND. HARRY J. WRIGHT and GEORGE SHIRK, Waynesburg, Pa. Filed Feb. 24, 1927. Serial No. 170,592. 2 Claims. (Cl. 29—89.)



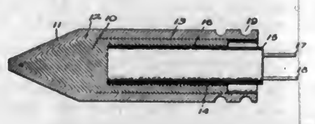
1. A transmission stand including a pair of relatively adjustable upwardly and outwardly curved jaws cooperatively forming a cradle, a horizontally disposed rotatably adjustable supporting shaft connected to one of the jaws near the upper end of the latter and projecting laterally therefrom, whereby the cradle is rotatably adjustable about a horizontal axis coincident with the axis of the supporting shaft.

1,667,617. TERMINAL BLOCK FOR CURRENT TRANSFORMERS. ELMER J. ZELT, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Aug. 29, 1927. Serial No. 216,030. 3 Claims. (Cl. 175—358.)



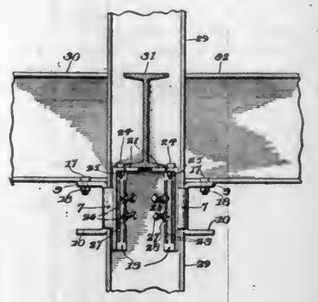
1. A current transformer terminal block comprising a base, secondary terminals and a device for short circuiting said terminals mounted on said base, and a cover formed to fit said base in either of two positions, said short circuiting device being arranged when in short circuiting position to prevent application of said cover to the base in one of its said two positions.

1,667,618. SOLDERING IRON. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Jan. 8, 1924. Serial No. 685,067. 2 Claims. (Cl. 113—105.)



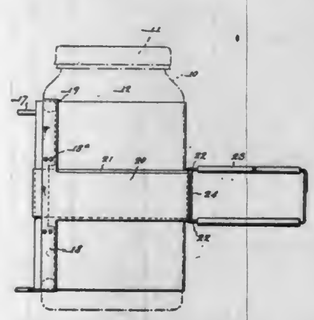
1. A soldering iron comprising a mass of copper, a protecting sheath for said mass provided with a working surface, and a soldered joint between said sheath and said mass in the vicinity of said working surface, said sheath fitting loosely over the remaining portion of said mass so as to provide an air space to obstruct the transfer of heat therefrom.

1,667,619. SEAT FOR GIRDERS AND BEAMS. RICHARD BOLDT, San Francisco, Calif. Filed May 18, 1927. Serial No. 192,310. 16 Claims. (Cl. 113—99.)



1. An adjustable, removable seat structure for supporting structural irons comprising a combined supporting and coupling element including a seat for a structural iron, a supporting section including a seat for a structural iron, and means common to said element and section for detachably clamping them together and for detachably clamping said element in position whereby said element and section are removably secured in supporting position for the structural iron.

1,667,620. JAR-HANDLING TOOL. CHARLES EDWARD BONGE, Creighton, Nebr., assignor of one-third to Everett A. Houston and one-third to Everett T. Houston, Niobrara, Nebr. Filed Mar. 22, 1927. Serial No. 177,888. 3 Claims. (Cl. 81—3.2.)

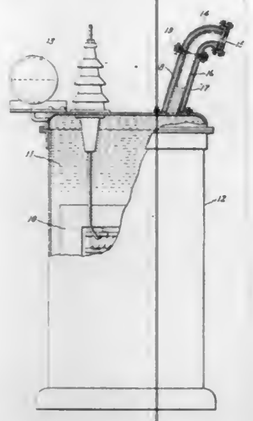


1. A tool of the class described including a strip of spring metal bent into substantially circular form with its ends overlapping, handle means for contracting or expanding the strip, and means slidably connecting the overlapping ends to guide the expansive or contractile movement of the strip, said means including pairs of ears carried by each end of the strip and guiding the opposite end.

1,667,621. PRESSURE-RELIEF PIPE FOR ELECTRICAL-APPARATUS CASINGS. LOCKE H. BURNHAM, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 4, 1927. Serial No. 180,981. 1 Claim. (Cl. 220—85.)

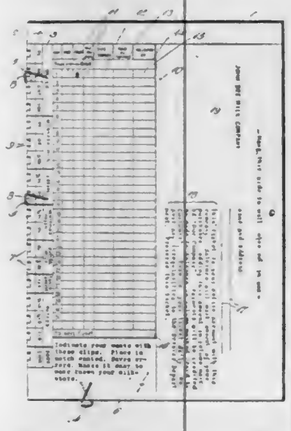
The combination with a casing for oil immersed electrical apparatus, of a pressure relief pipe communicating

with said casing and extending above the oil level, and a yieldable member normally closing the outer end of



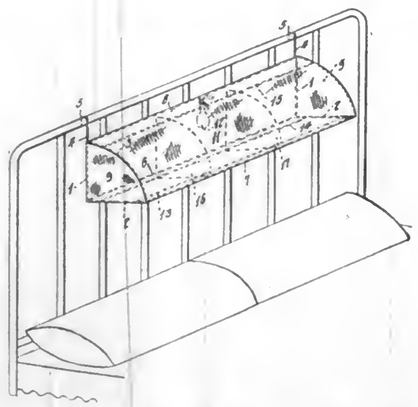
said pipe, said pipe comprising two concentric sections with an intervening heat insulating space to prevent rapid dissipaton of heat from said inner pipe section.

1,667,622. ORDER BLANK. WILLIAM LYON CALDWELL, Indianapolis, Ind. Filed Feb. 21, 1927. Serial No. 170,009. 1 Claim. (Cl. 116—130.)



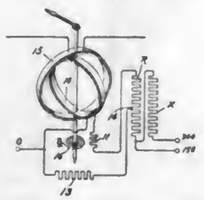
An order blank for products intended to be placed at a point accessible to a deliveryman; said blank comprising a card having printed matter spaced along an edge denoting various products and quantities thereof, said edge having notches at the quantity designations, and clips adapted to frictionally straddle said edge of card at designations showing the product and quantity wanted, said clips having portions for reception in said notches, whereby the clips are held against accidental sliding out of place, said notches having their opposed edges disposed in inwardly diverging relation to more effectively hold the clips against accidental slippage and also permitting the deliveryman to read the order by touch if delivering in darkness.

1,667,623. LAMP SHADE FOR READING LIGHTS. ARTHUR G. CAREY, Bluefield, W. Va. Filed Sept. 1, 1927. Serial No. 216,948. 3 Claims. (Cl. 240—108.)



1. A lamp shade, comprising a casing, a lamp in said casing, said casing having an opening for the emission of light rays from said lamp, and partitions slidably carried by said casing and adapted to be adjusted to direct the light rays through said opening.

1,667,624. ELECTRICAL MEASURING INSTRUMENT. ALMON J. CORSON and STEPHEN C. HOARE, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed Oct. 17, 1924. Serial No. 744,268. 3 Claims. (Cl. 171—95.)

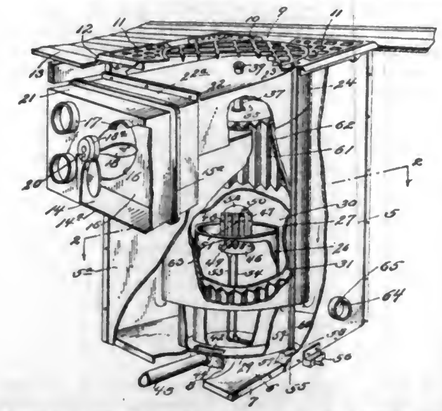


1. In an alternating current electrical measuring instrument, a moving coil armature, a control spring for opposing the torque of the armature, a temperature compensating resistance connected in series with the armature, a permanently connected resistance element having several times the resistance of the above mentioned series circuit connected in series therewith, and a resistor shunting the armature, compensating resistance and a substantial portion of the high resistance element, the parallel branches thus formed having sufficiently low and similar time constants to prevent appreciable frequency errors.

1,667,625. GAS FLOOR FURNACE. HARRY E. DICKINSON, Houston, Tex. Filed Dec. 29, 1926. Serial No. 157,782. 10 Claims. (Cl. 126—116.)

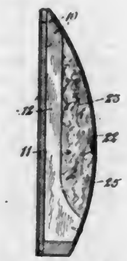
1. A gas floor furnace of the class specified, having enclosing means and an inner vent chamber with burners therein including a pilot light and combustion and heating chambers surrounding the said burner chamber, the lower part of the furnace having means for supplying air to and carrying off the products of combustion therefrom and also means for admitting cold air, an upper supplemental casing with a top closure plate

and an outer distributing chamber with which the burners and combustion and heating chambers cooperate as heating means, a register over the top of the closure plate having removable members, and a tube extending



upwardly from an interior part of the furnace and through the said closure and having a removable cap with a transparent covering for igniting a part of the burners and for observing the operation of the latter through the top of the furnace.

1,667,626. SPINE SUPPORT. MAX EPSTEIN, New York, N. Y. Filed Mar. 24, 1927. Serial No. 178,064. 3 Claims. (Cl. 155—188.)

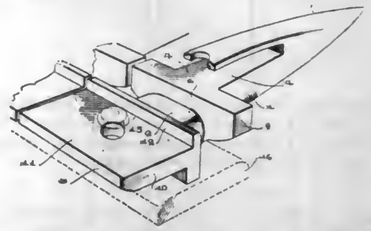


1. A spine support, comprising a back, a plurality of bracing members connected with the back, each of said bracing members having a beveled upper end and a projecting lower end, said projecting lower end having an inclined section, a flat spring for each of said bracing members, said flat springs at their ends fitting flatwise against the beveled sections at the top and bottom, means for adjusting each of said springs independently for varying the degree of permanent bowing of the spring, and covering means for covering said springs, back and bracing members

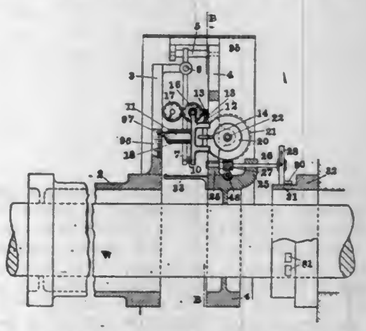
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1,667,627. GUARD FINGER FOR MOWING MACHINES. EUGENE S. FISHER and ELDON R. MENDROP, Hollandale, Miss. Filed Dec. 15, 1926. Serial No. 154,965. 1 Claim. (Cl. 56—310.)

As a new article of manufacture, a guard finger for mowing machines comprising a forward end portion, an intermediate portion, and an attaching rear end portion, said forward end portion being slotted longitudinally in a forward direction from its rearward end for part of its length and having a pair of oppositely extending lateral lugs at its rearward end, said intermediate portion having its upper face terminating below the level of the bottom of the slot in the forward end portion, and the top edge of a rear side wall extending parallel to the said laterally extending lugs at the rear side of the intermediate portion thus defining a transverse channel having substantially vertical forwardly and rearwardly disposed parallel side walls, said rear end portion having its upper face disposed in a plane below the top edge of the rearward side wall of said intermediate portion, said rear end portion being apertured for the reception of a fastening element and having a transversely extending rearwardly facing shoulder at the forward edge of its lower side and depending for a distance sufficient to shield and protect the lower end portion of a fastening element positioned in the said aperture the transverse width of the rear end portion being slightly greater than that of the rear end of the forward end portion of the guard in the plane of the laterally extending lugs thereof, the intermediate portion being of a less width than the rear attaching portion and substantially equal to that of the rear end portion of the tapered forward end portion and immediately forward of the lugs.



1,667,628. DIRECT-READING TORSION METER. HERMANN FÖTTINGER, Zoppot, near Danzig, Germany. Filed June 21, 1923, Serial No. 646,963, and in Germany June 26, 1922. 9 Claims. (Cl. 265—25.)

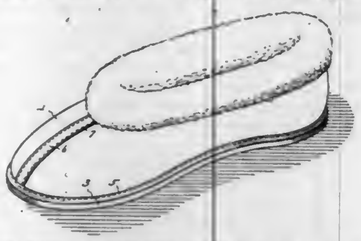


1. A rotating torsion meter for direct indication of torsional displacement of a shaft or the like, comprising opposed elements relatively movable in response to torsional displacement of the shaft, mechanism for multiplying the movement of said elements, and means for indicating the extent of the multiplied movement, said indicating means being fixed with relation to said shaft and disposed in a plane perpendicular to the plane of rotation and parallel to and substantially adjacent to a plane passing through the shaft axis of rotation.

1,667,629. SLIPPER. HENRY FRIEDMAN, Brooklyn, N. Y. Filed Apr. 1, 1927. Serial No. 180,228. 1 Claim. (Cl. 36—16.)

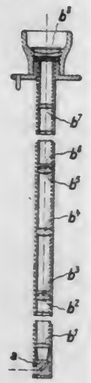
A slipper, comprising an upper having an outwardly extending margin, a sole formed of a size and shape to extend to the outer edge of said margin, a seam formed by an over-and-over stitch connecting the outer portion of the sole with said margin, said stitching and margin extending entirely around the sole, a protecting strip

substantially U-shaped in cross section straddling said margin and the outer edge of said sole, and a second line of stitching extending directly through both legs of said



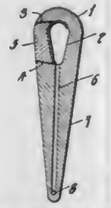
protecting strip, through said margin and the outer part of said sole for securing the protecting strip in place, and presenting additional securing means for connecting the margin of the upper and sole together.

1,667,630. OPTICAL TUBE FOR CYSTOSCOPES, GASTROSCOPES, AND THE LIKE. GÜNTHER LOECK, Berlin, Germany, assignor to the Firm: Georg Wolf G. m. b. H., Berlin, Germany. Filed Mar. 17, 1927, Serial No. 176,250, and in Germany Mar. 20, 1926. 2 Claims. (Cl. 128—6.)



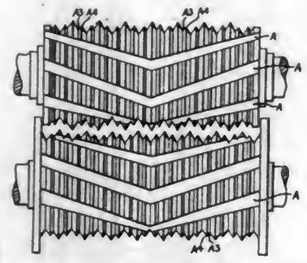
1. Optical tube for cystoscopes, gastroscopes and the like, containing optical parts adapted to present to the observer an image of the part of the body to be examined, which optical parts comprise lens systems composed of a plurality of lenses, the single members of these systems consisting of different kinds of glass in order to achieve chromatic correction and not being cemented with each other, and means adapted to secure the optical parts in the tube in their position.

1,667,631. FOUNTAIN COMB. FRANK C. MACH, Dillonvale, Ohio. Filed Oct. 20, 1927. Serial No. 227,524. 3 Claims. (Cl. 132—13.)



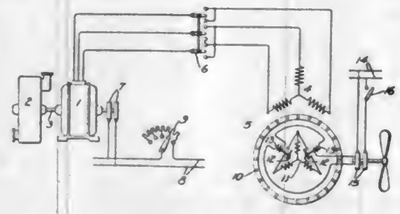
1. A fountain comb, comprising a back having a recess therein, extending laterally of the back and to the outer surface thereof teeth carried by said back, and having conduits therethrough communicating with said recess, and a presser plate fitting snugly in said recess to feed the contents of said recess through said conduits and adapted to be actuated by the fingers of the operator.

1,667,632. ROLL FOR SUGAR-CANE AND LIKE MILLS. WILLIAM MACKIE, Glasgow, Scotland. Filed Jan. 25, 1924, Serial No. 688,535, and in Great Britain Oct. 18, 1923. 1 Claim. (Cl. 100—47.)



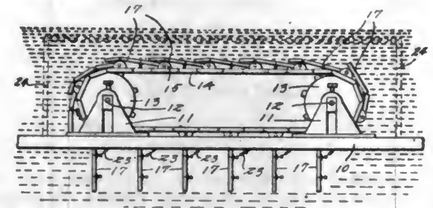
In a mill for breaking, crushing and shredding sugar cane, fed side-on or end-on, co-operating horizontal rolls each having a crushing surface constituted by a series of equi-spaced acute-angled circular wedges each of the full diameter of the roll and each having two flanks equally and oppositely inclined to the plane of rotation and each of the same depth, and intermediate said wedges circular wedges each of less than the full diameter of the roll and each having two flanks equally and oppositely inclined to the plane of rotation, at the same inclination to said plane as the flanks of said first named wedges, adjacent wedges presenting between them V-shaped grooves differently spaced from the axis of the roll, a plane of rotation equi-spaced from the apexes of two adjacent wedges of the full diameter of the roll containing the bottom of the groove between two intermediate wedges, the said apexes and said groove bottom defining acute-angled imaginary wedge-surfaces having equally inclined flanks, the apexes of said intermediate wedges projecting beyond said imaginary surfaces and the bottoms of the grooves between said first named wedge and said intermediate wedges being nearer the axis of the roll than said imaginary surfaces, the apexes of all the wedges of one roll being coplanar with the bottoms of grooves formed in the other roll.

1,667,633. POWER SYSTEM. CAMPBELL MACMILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 26, 1923. Serial No. 654,008. 2 Claims. (Cl. 172—280.)



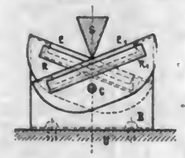
1. The combination of an induction motor comprising a rotor member having a high resistance winding and a low resistance winding arranged to have its terminals interconnected during normal operation, a plurality of contactors mounted within the rotor structure of said motor and arranged so that they will be unaffected by sudden acceleration or deceleration of the rotor structure and by centrifugal forces for interconnecting said terminals, and means external to said motor for controlling the energization of said contactors.

1,667,634. CURRENT MOTOR. JESSE R. MEEKINS, Marshalltown, Iowa. Filed May 10, 1927. Serial No. 190,296. 2 Claims. (Cl. 170—91.)



1. In a current motor and a housing, a frame, supports affixed to the frame, sprockets having shafts journaled in the supports, endless chains passing over the sprockets, feathering blades pivoted to the chains in spaced relation to each other, said blades being composed of two sections hinged together so that they may drop down into the current to propel the chains, and feather upon the chains on their return against the current, the hinge being so formed that the parts, when extended, abut edge to edge and are held rigidly in this position by the hinge, flexible connections for each blade further supporting the blades in a perpendicular position with relation to the rotating chain, said flexible connections being attached at one end to the hinge of the upper-most blade section, and extending in a direction reverse to the direction of movement of the chain, and being attached to the pivot of the next succeeding blade.

1,667,635. KNIFE-EDGE BEARING FOR WEIGHING APPARATUS. FRIEDRICH NAUSS, Vienna, Austria. Filed Apr. 14, 1927, Serial No. 183,859, and in Austria May 11, 1926. 4 Claims. (Cl. 308—2.)



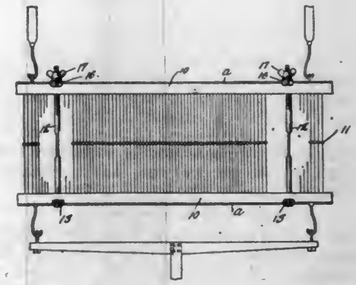
4. A bearing block for a knife edge comprising in combination: a bearing-block, senting members having oppositely inclined surfaces mounted on said bearing block, and means for enabling said bearing members to turn about axes parallel to the oppositely inclined surfaces in such manner as to swing into true lineal contact with the knife edge, substantially as described.

1,667,636. CABLE GRIP. ARVID H. NERO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed June 8, 1923. Serial No. 644,148. 10 Claims. (Cl. 173—322.)



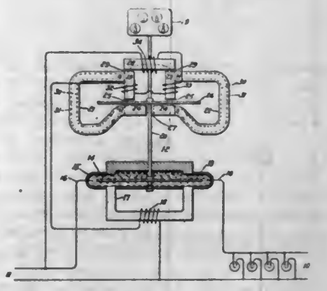
1. A pendent fitting comprising an element apertured to afford a cable entrance, in combination with a one-piece cable grip comprising a base secured to said fitting element and apertured in alignment with the cable entrance, a bushing lining said aperture, and a pair of cable-receiving jaws integral with the base and substantially axially aligned with the cable entrance of said fitting element and in extension thereof, and means for clamping said jaws upon an inserted cable.

1,667,637. LOOM ATTACHMENT. EDWARD A. PENNOYER, Greenville, S. C. Filed Aug. 29, 1924. Serial No. 734,086. 2 Claims. (Cl. 139—91.)



1. In combination with the heddle frame of a loom, rods extending transversely of the frame, hooks extending laterally from the rod for engagement over bars of the frame, means to connect one of the hooks with the rod to permit of longitudinal sliding adjustment of the hook upon the rod to adjust the hooks relative to one another and means to hold the slidable hook against independent outward movement.

1,667,638. ADJUSTABLE MAGNET DEVICE. HAROLD B. REX, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 29, 1927. Serial No. 209,375. 12 Claims. (Cl. 171—84.)

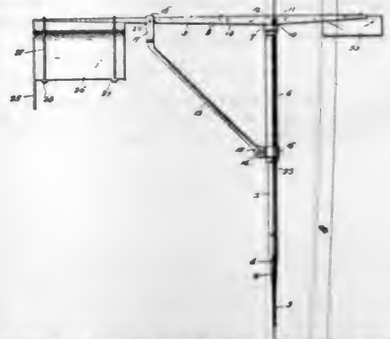


12. An integrating electric meter, a source of supply with which said meter is associated, a permanent magnet damping system for said motor, and electromagnetic means responsive to a variable condition of said source of supply for varying the damping effect of said permanent magnetic damping system.

1,667,639. COMBINED MAIL BOX AND SIGNPOST. ROBERT B. SMITH, Sargent, Nebr., assignor of one-half to George E. Steinhoff, Sargent, Nebr. Filed Apr. 9, 1927. Serial No. 182,466. 8 Claims. (Cl. 232—40.)

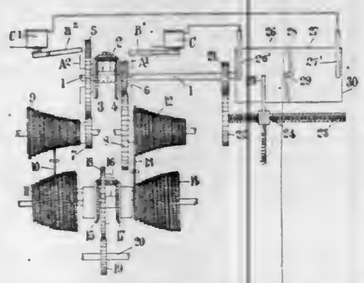
5. A device of the class described including a post, a sleeve fitted on the post for rotary adjustment, a service arm having narrow longitudinal side flanges pivoted to

the sleeve, a collar encircling the lower portion of the sleeve and having extended terminals, an inclined brace pivoted at its lower end between the ends of the collar



and having a forked upper portion adjustably secured to the flanges of the service arm, and a counterbalance weight secured between the said side flanges.

1,667,640. APPARATUS FOR THE CONVERSION OF MOTION ACCORDING TO ONE LAW INTO MOTION ACCORDING TO ANOTHER LAW. WILLIAM STROUD, Glasgow, Scotland, assignor to Barr and Stroud, Limited, Glasgow, Scotland. Filed Feb. 1, 1924, Serial No. 689,885, and in Great Britain Feb. 2, 1923. 5 Claims. (Cl. 74—34.)

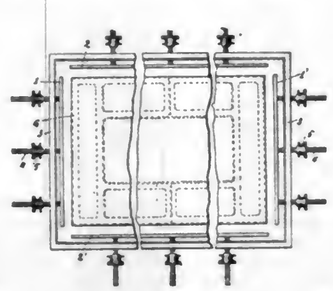


1. Apparatus for the conversion, within the limits of a prescribed extent of movement, of motion according to one law into motion according to another law, comprising conversion mechanism of the rotary member type, operable for converting motion according to one law into motion according to another law, each such conversion mechanism being operable for conversion of a separate portion and one and the same portion only, of the prescribed extent of movement, the sum of the separate portions constituting the prescribed extent of movement, a driving element rotatable according to the prescribed extent of movement to be converted, means for transmitting from the driving element motion according to the portions of movement to be converted, each to its apportioned conversion mechanism respectively, separately and in succession, a driven element rotatable according to the prescribed extent of movement converted, and means for transmitting to the driven element motion according to the portions of movement converted, each from its apportioned conversion mechanism respectively, separately and in succession.

1,667,641. BEARING ALLOY. IRVING R. VALENTINE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Sept. 25, 1925. Serial No. 58,502. 3 Claims. (Cl. 75—1.)

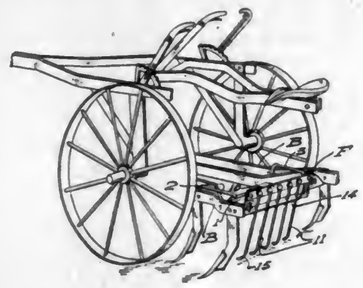
1. A bearing alloy comprising about 70 parts copper, a hardening metal, about 25 parts lead, and a fractional part of arsenic.

1,667,642. METHOD FOR PREVENTION OF CRACKING OF CASTINGS. CARLO VANZETTI, Milan, Italy. Filed Sept. 22, 1925, Serial No. 57,961, and in Italy Sept. 23, 1924. 5 Claims. (Cl. 22—96.)



2. A mold for large castings, comprising a frame; a plurality of plates provided in said frame; and means in said frame for actuating said plates in order to exert a pressure on the molding sand in the frame to thus force the sand to contract and move with the cooling of the casting.

1,667,643. CULTIVATOR ATTACHMENT. HERBERT W. WALDMANN, Concord, Wis. Filed Oct. 16, 1926. Serial No. 142,054. 2 Claims. (Cl. 97—179.)



1. A cultivator attachment comprising a head member, arms connected with the head member and adapted to be attached to the beams of the cultivator, bolts carried by the head member and having end portions disposed beyond the side thereof, link members having slots which receive the bolts, nuts screwed upon the bolts and adapted to clamp the link members against the head member, upper and lower cross bars pivoted to the ends of the link members and bridging the space between them, the lower cross bar having an intermediate portion disposed in a plane at a right angle to the plane in which the intermediate portion of the upper cross bar lies, and teeth pivoted to the upper cross bar and loosely received in the intermediate portion of the lower cross bar.

1,667,644. FASTENER. HARRY ALPHONSE WIDMER, London, England, assignor of one-half to A. Lewis (Finsbury) Limited, London, England, a Company of Great Britain. Filed Oct. 9, 1926, Serial No. 140,659, and in Great Britain Sept. 24, 1926. 1 Claim. (Cl. 24—265.)

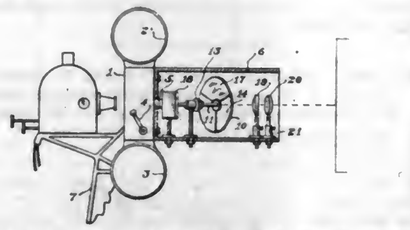
In a fastening for straps, shoes and the like, a loop in one member thereof, a strap end adapted to be adjusted passing through said loop and then bent back and passing

in and out of a series of transverse slits in the body of the strap wider than the bent back portion of the strap end so that flat surfaces of the strap the full width of



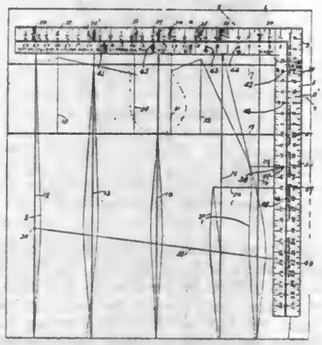
the strap end lie in contact with said end which is retained in position by friction when the strap is in use on the member on which it is fastened.

1,667,645. MOTION-PICTURE PROJECTOR. THEODORE F. YAGLE, Philadelphia, Pa. Filed Aug. 8, 1924. Serial No. 730,945. 3 Claims. (Cl. 88—16.6.)



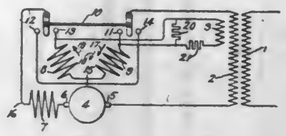
1. An appliance for attachment to a motion picture machine which includes a direct picture projecting means, a casing for detachable connection to the frame of said machine, a shutter operable upon an axis at an acute angle to the axis of the lens tube of the direct picture projecting means, a projecting lens and color filter with its axis in direct alignment with the axis of the direct picture projecting means, said shutter being divided into three portions, an open section, a closed or covered section and a mirror or reflecting section, a complementary plano color filter in the casing to one side of the axis of the direct picture projecting means, and an adjustable mirror for receiving the reflection from the mirrored or reflecting section of the shutter and reflecting the picture through the plano color filter.

1,667,646. SQUARE FOR DESIGNING GARMENT PATTERNS. ANTOINETTE ZINGALI, New York, N. Y. Filed Oct. 29, 1925. Serial No. 65,551. 2 Claims. (Cl. 33—16.)



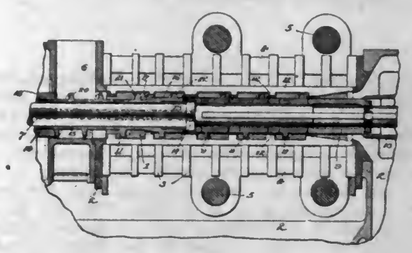
1. A square for designing garment patterns, comprising a right angled body having each of its members provided with a central division line and graduated in inches on each side of said line throughout its length, one member having along its outer edge two sets of differently colored marks, one set of marks being between the other set and spaced different distances from the edge and the other member having on its outer edge two sets of differently colored marks, one set of marks being beyond the first set and spaced a less distance apart than the first set, whereby vertical and horizontal construction lines of a garment may be produced, each member of the square being provided on its inner edge with colored marks and one member being provided with two marks of a different color and located between two of the first named marks, whereby the vertical and horizontal construction lines of a sleeve may be produced.

1,667,647. ELECTRIC MOTOR. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 11, 1925. Serial No. 14,822. 7 Claims. (Cl. 172—276.)



1. An electric motor comprising an armature winding provided with a commutator and a field winding characterized by the fact that said field winding includes a group of parallel connected coils arranged to be connected in series with said armature winding for producing the compensating field of said motor, a second group of coils arranged to be connected in series with said armature and compensating windings to produce an exciting field for driving said motor in one direction, and a third group of coils angularly displaced from said second group of coils and arranged to be connected in series, with said armature and compensating windings to produce an exciting field for driving said motor in the opposite direction all of said coils having uniform end connections.

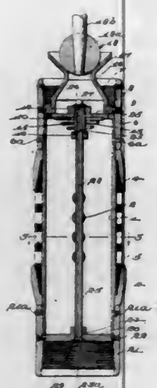
1,667,648. PRESS. RAYMOND T. ANDERSON, Cleveland, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 28, 1926. Serial No. 119,184. 2 Claims. (Cl. 100—48.)



2. In a press of the character specified, the combination of a shell; a feed hopper located at one end thereof; a shaft extending through the hopper and the shell; a series of spaced pressing worms mounted upon the shaft adjacent the discharge end of the press and rotatable therewith; a quill encircling the shaft adjacent the intake end of the press, said quill at its inner end being enlarged in external diameter and connected to the forward portion by an inclined face; a feed worm formed upon the exterior of the quill adjacent the intake end of the press; a combined feeding and pressing worm located

between the last named flight or worm and the inclined face, aforesaid; and a pressing worm mounted upon the quill at its inner end where its external diameter is enlarged, said feeding flight, feeding and pressing flight, and pressing worm being likewise spaced apart.

1,667,649. DEVICE FOR CEMENTING WELLS. ALEXANDER BOYNTON, San Antonio, Tex. Filed Dec. 4, 1925. Serial No. 73,189. 3 Claims. (Cl. 166—1.)



1. A device for cementing wells including a combined back pressure valve seat and seat for a differential float and valve comprising a flange, and a double conical member connected with the flange.

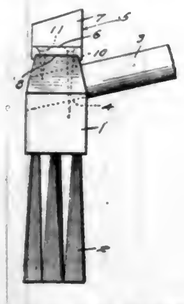
1,667,650. THEFT SIGNAL SWITCH. JAMES P. BRADLEY and OMRI A. PROUGH, Weed, Calif. Filed Apr. 29, 1925, Serial No. 26,798. Renewed Feb. 6, 1928. 1 Claim. (Cl. 200—52.)



A theft alarm for a motor vehicle comprising an alarm circuit, a casing connected with one part of the circuit and having a longitudinal slot, a plunger in the casing formed of non-conducting material, a groove in the plunger adapted to register with the slot, a headed pin carried by the plunger in the groove and movable in the slot, said headed pin being connected with the other part of the circuit, a lip at one end of the slot turned into the groove for engaging one end thereof to limit the movement of the plunger in one direction, and a spring in the cylinder for engaging the plunger to retain the head of the pin in contact with a part of the cylinder when the plunger is in projected position and means for normally holding the plunger in retracted position.

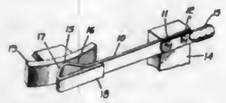
1,667,651. HAMMER ATTACHMENT FOR PAINT-BRUSHES. WILLIAM A. BRADY, Ohiopyle, Pa. Filed Nov. 26, 1926. Serial No. 150,952. 4 Claims. (Cl. 145—29.)

1. A device of the character set forth, comprising a mount provided with an eye, a handle having one end positioned in the eye, a head having an elongated base and a poll projecting from the base, the head being positioned on the mount with its base in contact there-



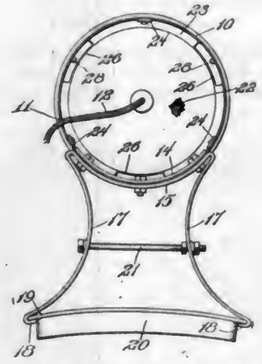
with and with the face of its poll in substantially parallel relation to the eye, and attaching means engaging the base and mount.

1,667,652. CONTACT FINGER. FRANK E. CASE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 22, 1925. Serial No. 25,151. 3 Claims. (Cl. 200—166.)



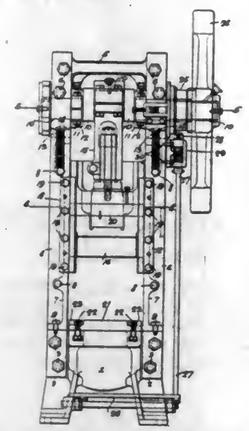
1. A contact finger comprising a metal strip having a free end bent to form an intermediate offset contact portion with diverging sides and provided with means for maintaining the said diverging sides of the offset portion in operative relation when the contact portion wears through.

1,667,653. SIGNALING DEVICE FOR VEHICLES. ROBERT CIZEK, Francis Creek, Wis. Filed Mar. 26, 1925. Serial No. 18,578. 1 Claim. (Cl. 248—20.)



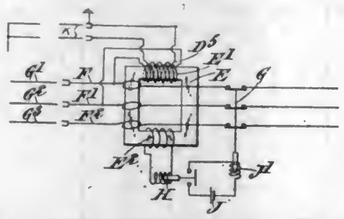
In a support for attaching signal lights to the fenders of vehicles, a single strip of resilient material having its central portion shaped to conform to the shaping of the wall of the signal light means for securing the strip to a signal light, the ends of the strip standing downwardly and diverging from one another and having opposed hooks formed upon their lower ends and means engaging the legs intermediate the ends thereof for constructing the legs to draw the hooks to one another to engage with the opposite side edges of the fender.

1,667,654. TRIMMING PRESS. EUGENE C. CLARKE, Chambersburg, Pa., assignor to Chambersburg Engineering Company, Chambersburg, Pa., a Corporation of Pennsylvania. Filed June 30, 1925. Serial No. 40,708. 4 Claims. (Cl. 164—23.)



1. A frame comprising a base, a yoke, tie bars secured both to the frame and the yoke and maintaining the yoke vertically spaced with respect to the base, reinforcing separators secured between the respective pairs of tie bars, journal elements operatively associated with the yoke, and jacks adjustably supported by the separators and engaging the under sides of said journal elements.

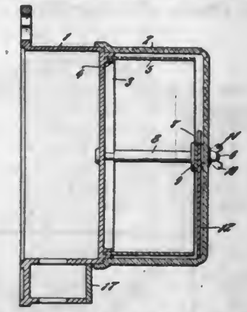
1,667,655. CONTROLLING OR TRIPPING APPARATUS FOR ALTERNATING-CURRENT ELECTRIC CIRCUITS. HENRY WILLIAM CLOTHIER, Wallsend-on-Tyne, and WILLIAM ANTHONY AMBROSE BURGESS, Monkseaton, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Sept. 17, 1925, Serial No. 57,014, and in Great Britain Oct. 3, 1924. 2 Claims. (Cl. 175—294.)



2. In an electric protective arrangement for a three-phase trailing cable between an electromagnetically-controlled switch and electrical apparatus, the combination with the earthed pilot circuit of the cable, of an electromagnetic tripping device for the switch including an earth-leakage or core-balance transformer through which the three phase conductors pass from the switch, said transformer being provided with three windings, a primary winding connected between two of the phases, a secondary winding, and an auxiliary winding normally short-circuited by the earthed pilot circuit and acting in conjunction with the secondary winding to control the switch.

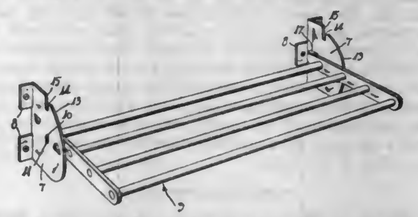
1,667,656. ANTITHEFT ATTACHMENT FOR METERS. WALTER A. DILZELL, New Orleans, La. Filed Aug. 16, 1926. Serial No. 129,627. 2 Claims. (Cl. 171—84.)

1. In combination with the base and cover of a meter, the base having an annular groove therein adjacent its point of junction with the cover, a cylinder within the cover and having one end entering the groove, the other end of the cylinder being spaced a short distance from



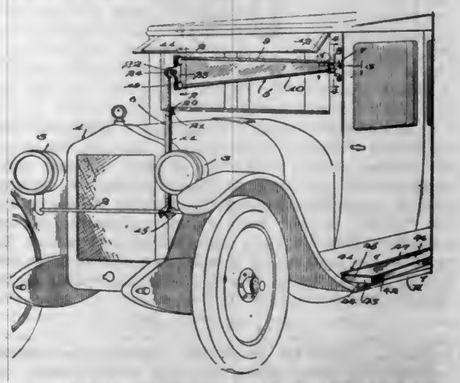
the closed end of the cover, bolts for connecting the cover with the base and means on the cylinder engaged by the bolts for holding the cylinder in place.

1,667,657. WALL TABLE, SHELF, OR RACK. FRANK C. DOBERT, Rutherford, N. J., assignor to Amelia Kretzmer, Clifton, N. J. Filed Apr. 29, 1926. Serial No. 105,579. 3 Claims. (Cl. 211—96.)



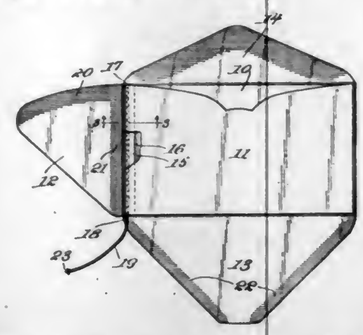
1. A device of the character described comprising a pair of brackets each having a vertical slot and a notch above the slot, and a member between the brackets having portions in said slots for hingedly mounting said member, and having other portions to move downwardly into said notches when said member is swung to an upwardly extending position, said brackets having portions for the contact of said member when it is swung downwardly to substantially horizontal position for supporting said member in such position.

1,667,658. GLARE SHIELD. HARRY GODFREY EGLEY, Morris Plains, N. J. Filed Apr. 6, 1925. Serial No. 21,028. 7 Claims. (Cl. 296—97.)



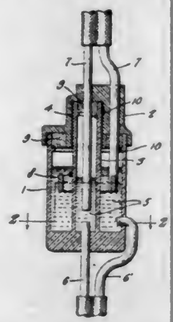
1. In a glare shield for vehicles, a tapering shield body, means for securing the smaller end of the body to the vehicle body, and means for securing the larger end of the shield body to the vehicle in front of the body thereof.

1,667,659. ENVELOPE OPENER. LEWIS WM. ENDER, Fountain City, Wis. Filed Oct. 24, 1925. Serial No. 64,640. 2 Claims. (Cl. 229—86.)



1. An envelope comprising a body, an end flap of substantially the same size as the body and folded over upon the rear face of the latter, an attaching flap extending along the outer edge of the end flap and folded inward and secured to the adjacent end of the body, a relatively small end flap extending from the end of the body opposite the first mentioned flap and folded upon the latter, a flexible member looped over the first mentioned flap and extending downward between the flaps below the envelope, said relatively small flap being sealed along its top and inner edge, a bottom flap sealed upon the end flaps and enclosing the ends of the flexible member with the extremities of the latter extending outward to provide a gripping portion and a closure flap extending from one edge of the body.

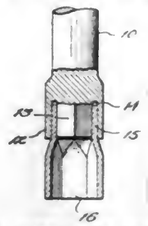
1,667,660. LIQUID CONTACT CONNECTER. EUGENE H. GEHM, Stockton, Calif. Filed Jan. 27, 1927. Serial No. 164,048. 2 Claims. (Cl. 173—324.)



1. An electric connecter comprising a stationary casing having a central tubular portion, both the casing and the tubular portion containing mercury and said parts being formed of non-conducting material, a movable cover of non-conducting material covering the casing and the tubular portion and rotatably mounted thereon, conductors extending into the tubular portion and the casing at the bottom thereof and a pair of conductors carried by the cover and extending into the mercury in the tubular portion and in the casing.

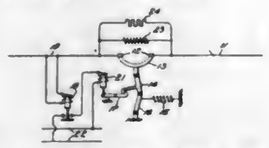
1,667,661. SOCKET WRENCH. JACOB F. GRASLEY, Zanesville, Ohio. Filed Apr. 18, 1925. Serial No. 24,199. 1 Claim. (Cl. 81—121.)

A tool comprising a bar provided with a rectangular tool engaging portion upon one end, a sleeve of enlarged dimensions being carried upon the opposed end of the bar, and a lug projected from the bar and within the sleeve being adapted to provide a recess therebetween within which may be received the attaching portion of



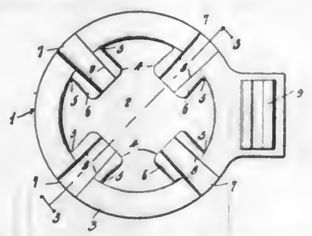
a socket wrench to preserve the corners thereof and to prevent bulging which frequently results in loose fitting connections.

1,667,662. PROTECTIVE ARRANGEMENT. HENRY S. HOLBROOK, Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1926, Serial No. 87,724, and in Great Britain Feb. 14, 1925. 2 Claims. (Cl. 175—294.)



1. In combination, a circuit, a current limiting inductive reactance therein, a switch permanently connected across the reactance and arranged when closed to shunt the same, means responsive to a predetermined overload on the circuit for tripping open the switch, and a resistance connected in shunt with said reactance.

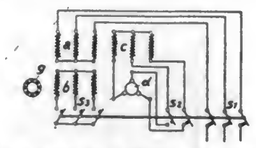
1,667,663. ASH TRAY. BERNARD J. HOOS, Baltimore, Md. Filed Apr. 24, 1926. Serial No. 104,420. 1 Claim. (Cl. 131—51.)



An ash tray comprising a hollow dish having a relatively thick marginal side wall, projections extending inwardly from said wall, grooves provided through said wall and projections, said grooves decreasing in width inwardly, and the inner portions of the projections being cut away downwardly and inwardly.

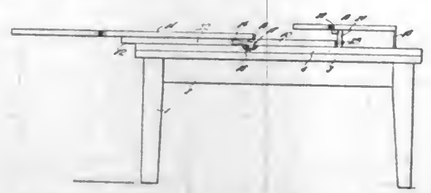
1,667,664. COMPENSATED INDUCTION MOTOR FOR SINGLE OR POLYPHASE ALTERNATING CURRENT. FRIEDRICH KADE, Kiel, Germany, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany, a Corporation of Germany. Filed June 20, 1925, Serial No. 38,578, and in Germany June 25, 1924. 2 Claims. (Cl. 172—274.)

1. A compensated induction motor, having a main stator winding adapted to be connected with the mains, a polyphase auxiliary stator winding, a commutator, brushes on the commutator adapted to be connected with said auxiliary stator winding, a polyphase commutator winding, said commutator winding and said auxiliary stator winding forming the exciting circuit of the motor, a working winding on the rotor provided with short-



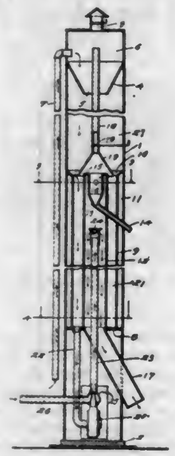
circuiting contacts, an auxiliary squirrel cage starting winding, and controlling means adapted to successively connect the several phases of the said exciting circuit.

1,667,665. COMBINED IRONING BOARD AND TABLE. HARVEY W. KLINGENSMITH, Reynoldsville, Pa. Filed Feb. 12, 1926. Serial No. 87,896. 1 Claim. (Cl. 68—10.)



A table having its top made up of sections, one of said sections being hingedly connected to one of the sections and adapted to be swung over said section when in operative position, a rail having beveled edges centrally fixed on the under face of the hinged section, an ironing board arranged over the rail, a pair of spaced cleats on the under face of the ironing board having their inner edges beveled to slidably engage with the beveled edges of the rail to hold the board on the swingable top section to permit of longitudinal movement of said board on said top section, and latching means for limiting the outward sliding of the board on the said table top section.

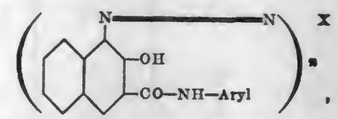
1,667,666. PROCESS AND APPARATUS FOR DRYING HAY, GRAIN, AND THE LIKE. ARTHUR W. KOON, Schriever, La. Filed Mar. 30, 1926. Serial No. 98,538. 12 Claims. (Cl. 34—34.)



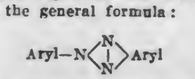
1. A drying apparatus having inner and outer chambers, a blower, a pipe communicating with one of the chambers and with the discharge port of the blower, a second pipe communicating with the other chamber and with the intake port of the blower, means for feeding material to said last named chamber, and a pipe for conducting a heating medium into said first pipe.

1,667,667. AZODYESTUFFS AND PROCESS OF MAKING SAME. AUGUST LEOPOLD LASKA and ARTHUR ZITSCHER, Offenbach-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Filed Sept. 10, 1925, Serial No. 55,628, and in Germany Oct. 3, 1924. 3 Claims. (Cl. 260—95.)

1. As new compounds azodyestuffs, having probably the general formula:

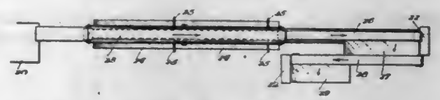


in which formula X represents the residue of a pseudoazimino body of the general formula:



and n is either 1 or 2, which dyestuffs are when dry scarlet red to black violet powders, soluble in sulfuric acid to a red, violet to blue solution, yielding on reduction with stannous chloride an aminopsendoazimino body and an arylid of 1-amino-2-hydroxy-3-naphthoic acid, which dyestuffs are adapted for the production of valuable color lakes, when mixed with the usual substrata, and dye when produced on the fiber, the vegetable fiber in scarlet red to dark violet shades of an excellent fastness, especially to kier boiling.

1,667,668. APPARATUS FOR MANUFACTURING MATCHED FLOORING. CLARKE R. MCLAUGHLIN, Longville, La. Filed July 16, 1926. Serial No. 122,988. 2 Claims. (Cl. 143—92.)

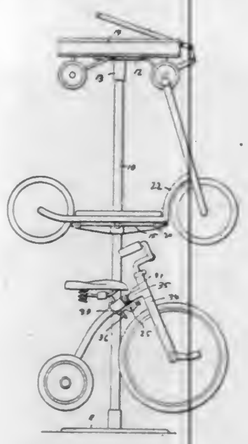


1. In an apparatus for the manufacture of matched flooring of the type described, including side and end matchers between which the flooring strips are conveyed and saw tables between the side and end matchers having saws for the removal of knots and imperfections, a conveyor for receiving flooring strips from the side matcher and extending above the saw tables, and a second conveyor leading to the end matchers and having a portion thereof arranged beneath the saw tables and vertically spaced below the first mentioned conveyor.

1,667,669. DISPLAY STAND. JOSEPH W. MEGEE, Tulsa, Okla. Filed Sept. 14, 1925. Serial No. 56,308. 1 Claim. (Cl. 211—24.)

A bracket adapted to be used with a vertical support comprising a sleeve adapted to be mounted for vertical and rotatable adjustment on the support and having a radial arm, said arm having at its end a terminal sleeve horizontally disposed, a second arm mounted in the horizontally disposed sleeve and being angular and capable for positioning with one of its its steme extending downwardly or upwardly or horizontally in a general radial direction from the standard, means carried by the second sleeve for holding the second arm in any one of its aforesaid positions, a threaded sleeve on the

stem of the second arm and having a yoke to straddle a bar of a velocipede, means for holding the third sleeve in

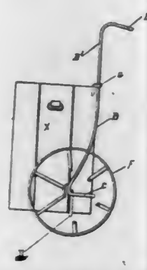


different positions on the stem, the third sleeve having an extension with an opening to receive a saddle post of the velocipede, thereby holding the latter on display.

1,667,670. BOILER COMPOUND. WILLIAM M. NEELEY, Amarillo, Tex., assignor to Neeley Chemical Company, Amarillo, Tex., a Corporation of Nevada. Filed Dec. 9, 1926. Serial No. 153,732. 1 Claim. (Cl. 87—27.)

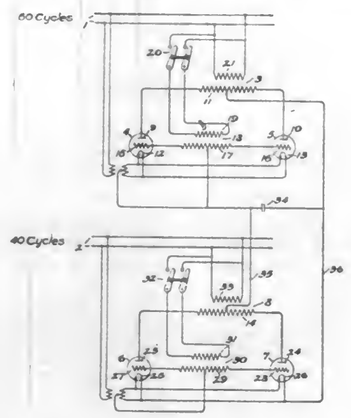
A boiler compound consisting of one gallon of water glass, one and one-half gallons of caustic soda, one gallon of tannic acid, three gallons of soda ash, and a quantity of water sufficient to make a batch of fifty gallons.

1,667,671. TRUCK. FREDERICK R. NIES, Lynn, Mass. Filed May 25, 1926. Serial No. 111,655. 5 Claims. (Cl. 280—53.)



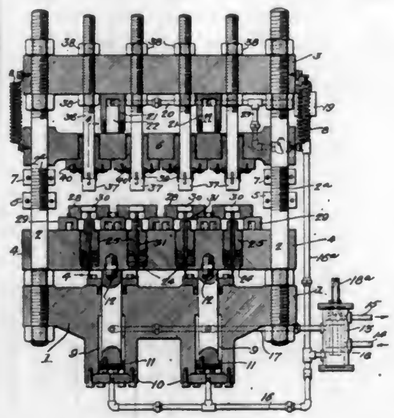
1. A hand truck comprising a pair of wheels and an axle therefor formed with an intermediate bent portion for supporting a load, a frame for the truck bent to provide spaced side bars and a transverse supporting bar, said frame having portions thereof above the side bars lying together to provide a shank, and the ends of the frame being bent outwardly to form handles for the truck, said transverse supporting bar being off-set from the lower ends of the side bars, and engaging about and connected with the horizontal bearing portions of the axle, and said supporting bar and the bent portion of the axle cooperating to form a pocketing device for the load.

1,667,672. FREQUENCY CHANGER. SAMUEL P. NIXDORFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 22, 1926. Serial 137,155. 5 Claims. (Cl. 172—281.)



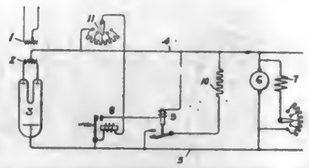
1. The combination of a plurality of circuits operated at different frequencies, space discharge apparatus provided with a plurality of cathodes and anodes connected between said circuits, and electrostatic control means operable to change the direction of power transmission between said circuits.

1,667,673. MOLDING MACHINE. CHARLES H. PEIRSON and WILLIAM A. BOHNE, Philadelphia, Pa., assignors to E. F. Houghton & Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 12, 1926. Serial No. 128,828. 6 Claims. (Cl. 69—8.)



1. The combination in a machine for molding cups of leather and like material, of a fixed die; a movable die for forming a cup around the fixed die; a second movable die cylindrical in form and arranged to press the edge of the cup to size; a stop to limit the movement of the first movable die; fluid pressure mechanisms for said movable dies; a valve for controlling the flow of an actuating fluid to said mechanisms; and a pressure valve in the line leading to the fluid pressure mechanism of said second movable die adapted to be operated automatically by increased pressure when the cup-forming movement of the first movable die is interrupted by the stop, whereby the second movable die will be actuated to compress the edges of the cup to size.

1,667,674. SYSTEM OF DISTRIBUTION. OTHMAR POLLOK, Berlin-Halensee, Germany, assignor to General Electric Company, a Corporation of New York. Filed May 9, 1925. Serial No. 29,201, and in Germany July 18, 1924. 5 Claims. (Cl. 171—97.)

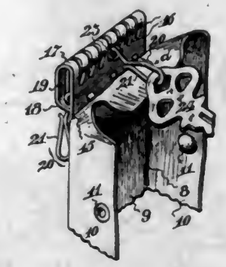


1. In a system of distribution a source of alternating current, a direct current consumption circuit, a rectifier connected therebetween, a resistance element associated with said rectifier, and means operable in response to slight variations in the voltage of said direct current circuit for effecting the connection of said resistance element to said rectifier in shunt to said direct current circuit.

1,667,675. ACCELERATOR FOR HARDENING PHENOL UREA PRODUCTS. HOWARD VINCENT POTTER and JOHN WILLIES CRUMP, Birmingham, England, assignors to The Damard Lacquer Company Limited, London, England, a British Company. Filed Sept. 11, 1926. Serial No. 134,938, and in Great Britain Oct. 23, 1925. 2 Claims. (Cl. 260—4.)

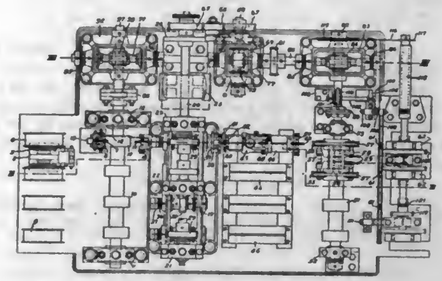
1. In the manufacture of hard synthetic resin bodies by the process according to which an intermediate product is produced by the condensation of a phenol, a urea and an aldehyde in the presence of a substantial proportion of the phenol and by subsequently dehydrating the resulting product, the step of treating said intermediate product in the cold with a hardening agent having an acid reaction.

1,667,676. KEY CASE OR PURSE. CHARLES S. PRICE, Bethlehem, and FRED WEINDEL, Jr., Allentown, Pa., assignors to L. F. Grammes & Sons, Inc., Allentown, Pa., a Corporation of Maryland. Filed July 21, 1924. Serial No. 727,194. 7 Claims. (Cl. 150—40.)



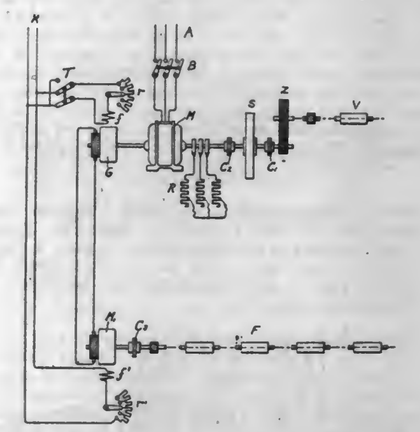
1. In a key case of the type described the combination of a holder member having a portion apertured and retroverted to afford a series of elongated slots having enlarged inner ends, and a complemental series of key-attaching clips having helico-volute heads pivoted in said slots with capacity for individual removal and universal movement over a relatively long range.

1,667,677. WIRE-COILING MACHINE. HEINRICH MARTIN HUBERT REUFEL and HENDRIK DE JONG, Eindhoven, and WILLEM GUSTAAF FREDERIK WENTINK, The Hague, Netherlands, assignors to General Electric Company, a Corporation of New York. Filed Dec. 17, 1924, Serial No. 756,564, and in the Netherlands Jan. 28, 1924. 12 Claims. (Cl. 153—67.)



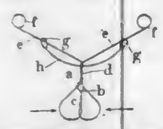
1. In a coiling machine the combination with a winding head of a pair of mandrel wire feed members mounted with said winding head between them and movable to pass the mandrel wire longitudinally through said head and means for positively driving both of said members at such relative speed as to cause both members to move the mandrel wire at the same speed.

1,667,678. ELECTRIC ROLLING-MILL DRIVE WITH LEONARD CONTROL. ERNST RIECKE, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed May 20, 1926, Serial No. 110,558, and in Germany June 30, 1925. 3 Claims. (Cl. 80—31.1.)



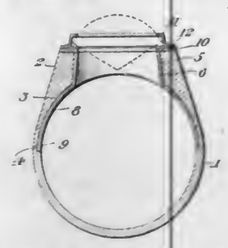
3. In combination in a drive for rolling mills and the like, a substantially constant speed stand, an alternating current motor for driving the same, a flywheel driven by said motor, a connection between said stand and said motor arranged to connect said motor in driving relation with said stand or disconnect the same therefrom, a variable speed stand, and a Leonard drive for said variable speed stand comprising a separately excited generator driven by said motor and a separately excited motor connected to said variable speed stand and supplied with armature current from said generator.

1,667,679. DEVICE FOR SUPPORTING TIES. JEAN ROURA, Nerac, France. Filed Dec. 17, 1926, Serial No. 155,529, and in France Sept. 18, 1926. 6 Claims. (Cl. 24—57.)



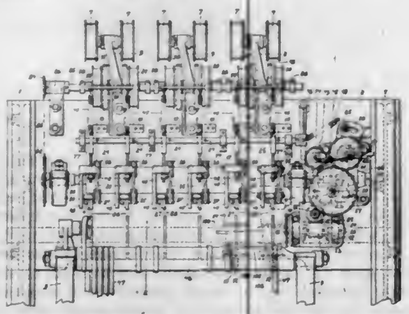
1. A device for supporting ties, made of a metallic spring wire and comprising on said wire, a loop similar to the spring tongs, means to open and close the two branches of the loop, two arms diverging from said means, a distinctive cross piece fitting on said two arms by two terminal slides, on said cross piece, a stop on each arm for said slides.

1,667,680. RING. ACHILLE SAMMARTINO, Providence, R. I. Filed Sept. 24, 1926. Serial No. 137,550. 2 Claims. (Cl. 63—15.)



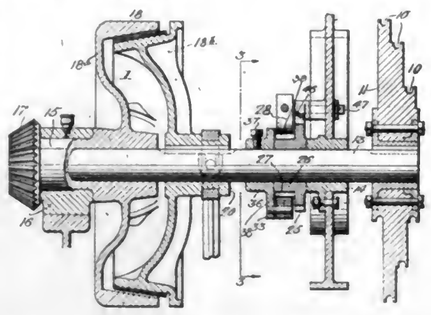
1. A ring having a hollow base which is widened outwardly from the shank of the ring, the shank of the ring from the opposite sides of the base being cutaway and the said shank having depressions that communicate with the said cut-away portions, a lining for the shank, including a box-like portion that is received in the opening in the base, and having an outstanding flange to overlie the base, the opposite sides thereof being arched to be received in the said cut-away sides of the shank and the ends of the said arched portions having tongues to be received in the depressions in the shank, a bezel arranged over the base of the ring and the box-like portion and a box over the bezel and said lining, said bezel being soldered to the base of the ring and to the lining, and said box having a flanged portion which rests on and which is soldered to the bezel.

1,667,681. WIRE-COILING MACHINE. RICHARD SHEPHERD and WALTHER DALHEIMER, Eindhoven, Netherlands, assignors to General Electric Company, a Corporation of New York. Filed Dec. 3, 1924, Serial No. 753,738, and in the Netherlands Jan. 29, 1924. 11 Claims. (Cl. 153—67.)



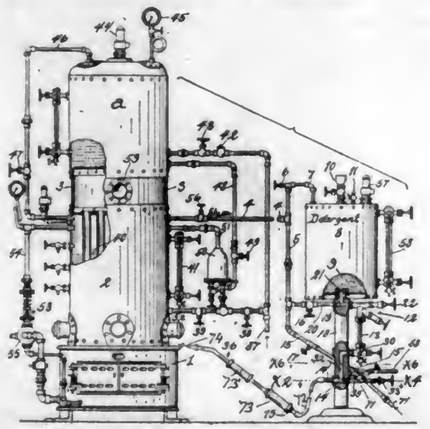
1. In a coiling machine, the combination with a rotary winding head, of means for directing a mandrel wire through said head, and a driving member in positive driving engagement with said unwound mandrel wire as it passes into and with the wound mandrel wire as it leaves said winding head.

1,667,682. BRAKE FOR PILE-WIRE-CONTROLLING MECHANISM FOR LOOMS. WILLIAM E. SMITH, Milltown, N. J., assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Aug. 3, 1926. Serial No. 126,899. 5 Claims. (Cl. 139—42.)



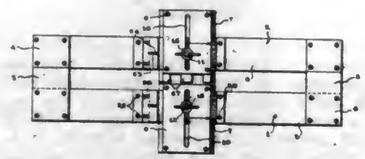
1. In pile wire controlling mechanism for looms having a reciprocating carriage, a rope motion for moving said carriage inward with respect to said loom, and means for moving said carriage outward with respect to said loom, said rope motion including a shaft adapted to be rotated in a direction to move said carriage inward, and to rotate freely in a reverse direction when the carriage moves outward, means operable by the reverse movements of said shaft, adapted to oppose the rotation of said shaft when the carriage is moving outward and to permit rotation of said shaft free of the said opposition when the carriage is moving inward.

1,667,683. APPARATUS FOR CLEANSING AND DISINFECTING. ALFRED H. THOMPSON and RUSSELL F. THOMPSON, Los Angeles, Calif. Filed Dec. 1, 1924. Serial No. 753,392. 3 Claims. (Cl. 299—84.)



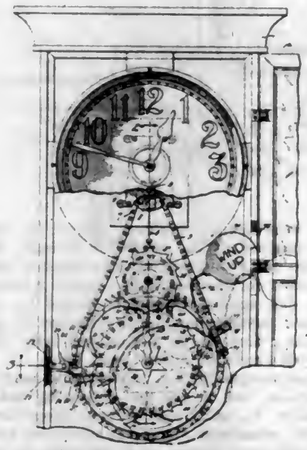
1. A cleansing apparatus comprising a detergent chamber; a mixing chamber; means for delivering detergent from the detergent chamber to the mixing chamber; a steam generator; a source of cold water supply; a manifold connected to the steam generator and to the top of the detergent chamber; a valve in the manifold between the steam pipe and the top of the detergent chamber; a valved pipe between the manifold and the bottom of the detergent chamber; a bottom valved pipe from the manifold below the connection to the bottom of the detergent chamber; a nozzle connecting said bottom valved pipe from the manifold to the mixing chamber; means for supplying a regulated flow of detegent from the detergent chamber to the mixing chamber; means for supplying a regulated flow of cold water from the cold water supply to the mixing chamber; and means for discharging mixture from the mixing chamber.

1,667,684. CAR BODY AND TRUCK GAUGE. WILLIAM ORAN TRIMBLE, Phalanx Station, Ohio, assignor of one-third to Frank Cappellin and one-third to Charles J. Cappellin, Niles, Ohio. Filed Apr. 28, 1926. Serial No. 105,237. 7 Claims. (Cl. 33—180.)



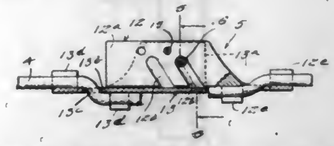
1. A car body and truck bolster gauge consisting of a pair of elements of which one is provided with means for determining the relative planes of the central plate and side bearings of a car body and the other provided with means for determining the relative planes of the central plate and side bearings of a truck bolster, the two elements being engageable with each other after setting to determine the relative planes of the central plates of the body and bolster.

1,667,685. CLOCK ATTACHMENT. WILLIAM B. ATKINSON, Bowling Green, Ky.; Bowling Green Trust Company, executor of said William B. Atkinson, deceased, assignor to A. G. Schwab & Sons, Cincinnati, Ohio, a Partnership composed of Julian G. Schwab, Louis Lange, and Herbert C. Schwab. Filed Nov. 10, 1923. Serial No. 673,958. 5 Claims. (Cl. 58—5.)



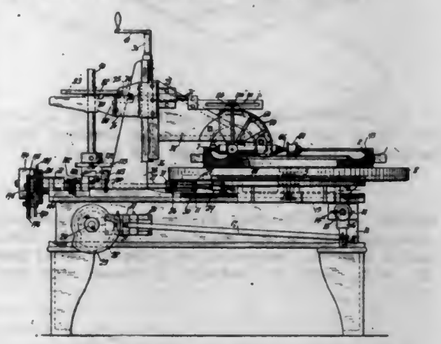
1. A propelling and calendar attachment for a clock including a spring actuated motor having a driving wheel, said wheel having spaced pins thereon, a shaft in the clock movement for propelling the same, means transmittingly connecting said wheel and shaft, a peripheral toothed calendar dial rotatably mounted adjacent said wheel, and dial advancing means intermediate said wheel and dial adapted to be engaged by successive pins, and engageable with successive teeth of said dial, whereby said dial is moved in synchronism with said clock movement.

1,667,686. ANTISKID DEVICE FOR AUTOMOBILE WHEELS. WILLIAM BENIEN and JAMES I. FLAHERTY, Lincoln, Kans. Filed Feb. 4, 1926. Serial No. 85,987. 2 Claims. (Cl. 24—123.)



1. In an anti-skid device, links for connecting the cross members of the device to the side members thereof and consisting of solid bodies provided in their outer ends with recesses for the reception of the terminals of the cross members, pivots connecting the links to the cross members, the links being provided adjacent their inner ends with openings for the reception of the side members and provided with slots extending from the openings to their inner ends to permit the side members to be inserted in the openings, the openings and slots being arranged in parallel relation to the pivots, and bolts passing through the links inwardly beyond the openings for clamping together those portions of the links located inwardly beyond the openings and at opposite sides of the slots.

1,667,687. MOLD-ENGRAVING MACHINE. ANDREW J. FLEITER and THEODORE A. MILLER, Akron, Ohio, assignors to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 30, 1926. Serial No. 98,477. 42 Claims. (Cl. 90—13.7.)

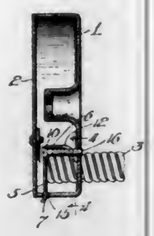


1. In a machine for automatically cutting repetitions of a pattern in a tire mold, a turntable for supporting the mold, a cutter over the turntable, intermittently operative means to reciprocate the cutter and to oscillate the mold simultaneously, turntable rotating mechanism adapted to move the mold for the next pattern, and mechanism to cause the last named mechanism to operate during the pauses in the operation of the first named means.

1,667,688. CLAMP FOR CONNECTION BOXES. WILLIAM GOETZELMAN, Chicago, Ill., assignor to Appleton Electric Company, a Corporation of Illinois. Filed Aug. 30, 1926. Serial No. 132,649. 2 Claims. (Cl. 247—25.)

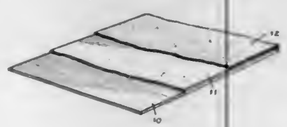
1. The combination with a connection box having a hole in the bottom near a side wall, an angle plate arranged within the box and having one wing parallel and spaced

apart from the bottom wall and the other wing parallel with the side wall and extending from the inner end of said first wing toward said bottom wall, a screw passing through the first wing and the bottom wall, said side wall and the free end of the first wing having cooperating means interlocked with each other to form a rocking con-



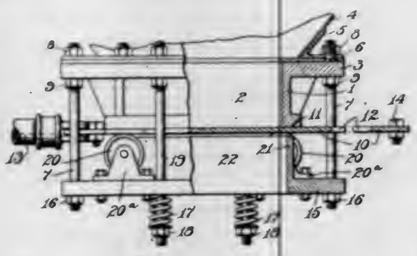
nection, the free edge of the second wing being bent toward the side wall somewhat above said bottom wall to form a lip to engage a conduit extending through said hole, and there being in said first wing a hole in alignment with and of about the same size as said hole in the bottom wall.

1,667,689. TRANSFER MEDIA. WILLIAM F. GRUPE, Lyndhurst, N. J., assignor to Peerless Roll Leaf Co., Inc., New York, N. Y., a Corporation of New York. Filed May 24, 1926. Serial No. 111,170. 7 Claims. (Cl. 41—33.)



1. A transfer medium, the combination of a carrier strip and a layer of metallic powder admixed with a condensation product of aldehyde and phenol.

1,667,690. SAND GATE. ROLLIE HAMM, Indianapolis, Ind., assignor to Indiana Gravel Company, Indianapolis, Ind., a Corporation of Indiana. Filed Sept. 22, 1926. Serial No. 137,069. 5 Claims. (Cl. 221—145.)



1. In a storage bin for wet sand, the combination with a hopper having a discharge throat, of a transversely movable gate slidable across the face of said throat, and resiliently supported rollers bearing on the under side of said gate and holding the same clamped against the face of said throat sufficiently tight to seal the throat against the escape of sand while permitting the escape of water.

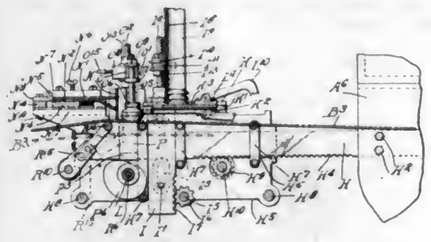
1,667,691. PROOFED PAPER. JAMES REID, Mount Vernon, N. Y., assignor to The Scutan Company, a Corporation of Delaware. Filed Nov. 26, 1926. Serial No. 150,868. 13 Claims. (Cl. 91—70.)



1. A process of proofing close-grained paper of substantial strength and flexibility without destroying such flexibility and strength, which comprises the steps of passing a sheet of such paper through a bath of relatively high melting point proofing material of a bituminous nature heated to a temperature substantially above 250° F., and until the bath is liquid but still viscous, and removing the sheet from the bath before it is saturated with the proofing material.

7. As a new product, a highly flexible sheet of close grained fibrous cellulosic material a surface layer of which is infused with a bituminous proofing material which has a melting point above 250° F. and which has a layer which is non-infused, the infused layer being substantially non-tacky at atmospheric temperatures.

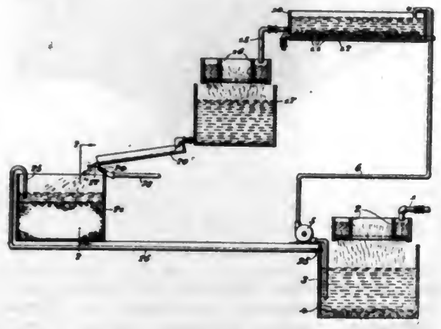
1,667,692. BISCUIT-HANDLING MACHINE. FERDINANDO G. SALERNO, Chicago, Ill. Filed July 18, 1927. Serial No. 206,744. 38 Claims. (Cl. 107—1.)



1. In a sandwiching machine, means for advancing the lower member of the sandwich through such machine, a stop adapted to engage and position said lower member, means for positioning an upper member above said lower and against said stop, means for discharging the upper member and for superposing it upon said lower member, and means for subsequently advancing the completed sandwich beyond said stop.

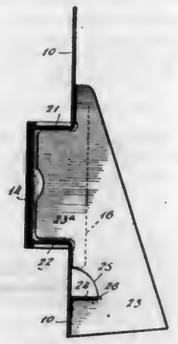
20. In combination with a sandwiching machine having a conveyor and means for delivering lower sandwich members to said conveyor, a supporting frame longitudinally adjustable along said conveyor, stop means positioned on said frame and adapted to halt the lower sandwich members at a predetermined point, a magazine mounted on said frame, means for delivering upper sandwich members from said magazine and for delivering them against said stop means and above the lower sandwich members halted thereagainst, and positive means for thrusting said upper sandwich members downwardly against said lower sandwich members including a plunger and means for imparting generally vertical movement to it and means for adjusting said plunger longitudinally in relation to said frame.

1,667,693. METHOD OF MAKING COPPERAS. HENRY CARLISLE STEWART, Philadelphia, Pa., assignor to The Westmoreland Chemical & Color Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 3, 1923. Serial No. 636,437. 4 Claims. (Cl. 23—126.)



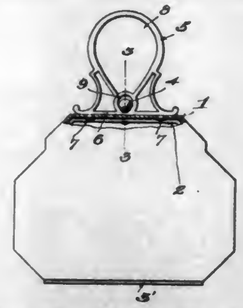
1. The method of producing copperas from a solution of ferrous sulphate of a density of 35° to 40° Baumé, which comprises the discharge of said solution in the form of a stream and projecting a stream of air against and transversely of the said stream of solution to atomize and effect crystallization of the ferrous sulphate therein.

1,667,694. DISPLAY DEVICE. ALBERT W. P. VERGEER, New York, N. Y., assignor to The T. F. Moore Company, Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1925. Serial No. 41,482. 2 Claims. (Cl. 40—126.)



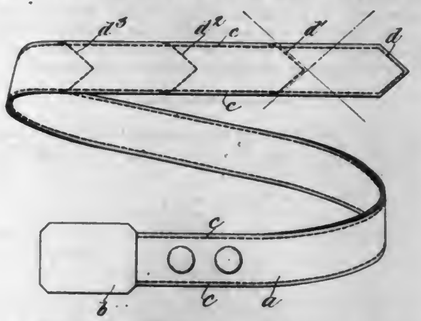
1. A collapsible display device, comprising a display card having an opening therein, a sheet of material adapted to be bent and to protrude through said opening to represent a part of a container, means for holding said sheet in set-up position, flaps extending from opposite edges of said opening and adapted to be turned forward within said bent sheet, and a folding prop hinged to the back of said card and having a part projecting beyond its hinge line adapted to turn said flaps outwardly when the prop is turned to set-up position.

1,667,695. VANITY CASE. CARL M. WENDELSTEIN, North Attleboro, Mass., assignor to Bliss Brothers Company, Attleboro, Mass. Filed Sept. 17, 1927. Serial No. 220,088. 2 Claims. (Cl. 132—83.)



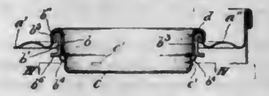
1. In a vanity case, a body, a rigid handle having a finger-receiving opening projecting outwardly from a side of the body, a cover for the body, a mirror on the inside of the cover, and means to hingedly connect the cover to the body at a point opposite to the handle so as to hold the cover when open at an obtuse angle to the plane of the body.

1,667,696. BELT STRAP. HOWARD M. BALLOU, North Attleboro, Mass., assignor to R. Blackinton & Co., North Attleboro, Mass., a Copartnership. Filed Feb. 16, 1927. Serial No. 168,563. 2 Claims. (Cl. 241—8.)



1. A belt strap comprising plural layers of leather secured together by longitudinal rows of stitches extending along the edge portions of the belt from end to end, and interior transverse rows of stitches at substantial intervals intersecting and binding the longitudinal rows of stitches to permit shortening the belt by cutting it across close to and outside of one of the transverse rows of stitches, thereby preventing the side stitches from unraveling and holding the newly formed end edges together.

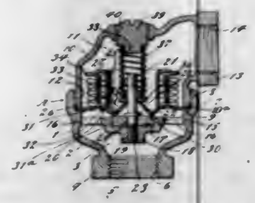
1,667,697. CLOSURE FOR SHEET-METAL CONTAINERS. CHARLES T. DRAPER, Cleveland, Ohio, assignor to The Draper Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 5, 1925. Serial No. 7,076. 1 Claim. (Cl. 220—60.)



In combination with a sheet metal container having a circular inwardly flanged opening, of an annulus engaging said flange interiorly of said container throughout

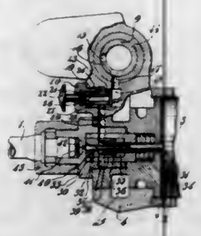
the upper portion of the flange adapted to reinforce it against the expanding action of a closure, said flange being provided with retaining means for holding the annulus in position and with a lower locking rim, and a friction closure member interiorly fitting into and sealing said flanged opening and provided with means coacting with said locking rim, substantially as set forth.

1,667,698. VALVE. LEWIS W. EGGLESTON, Clarence Township, Erie County, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 28, 1926. Serial No. 105,056. 13 Claims. (Cl. 251—144.)



1. A valve of the character described comprising a body having ports, a partition in said body and between said ports, said partition having a valve-engaging surface, and said body having a passage around said partition, a hollow valve member having a passage therethrough and having an end portion adapted to seat on said surface to prevent flow through said valve member, a flexible sealing element connecting said valve member to the body and exposed to pressure within the valve body, said valve member having a wall within said end portion and means oppositing said pressure and engaging said wall to urge the valve member toward its seat on said surface.

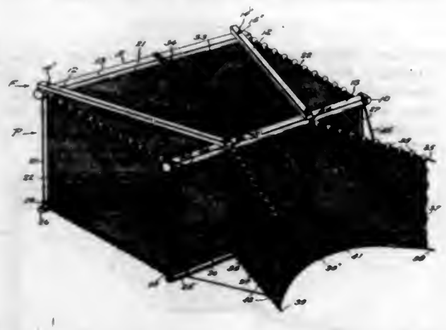
1,667,699. MOTOR. ELMER GEORGE GARTIN, Claremont, N. H. Filed Apr. 23, 1919. Serial No. 292,092. 5 Claims. (Cl. 121—10.)



1. In a rock drill, a stationary means for conducting a flow of cleansing fluid to a drill steel, valvular means operable to vary the flow of cleansing fluid thereto, and means providing a cleansing fluid leak passage always open even when said valve is in its normally closed position thereby to allow flow of cleansing fluid automatically to said steel whenever a source of pressure fluid has communication with said valvular means.

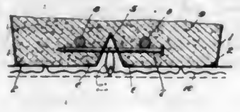
1,667,700. POT SEINE. LOUIS HANKEN, Seattle, Wash. Filed Feb. 23, 1927. Serial No. 170,150. 3 Claims. (Cl. 43—104.)

1. In fishing apparatus of the character described, a pot comprising netting supported by a collapsible buoyant frame, said frame consisting of two transverse members held in parallel spaced apart relation by brace members extending from the central portion of the forward of said members to within close proximity with the ends of the other of said members, towing cables secured to the central portions of said forward member and by branch cables with the outer ends of the same, seine leads depending from the respective towing cables and extending



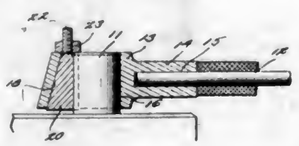
into the pot to constitute side walls of a tunnel, and floor netting connecting the lower edges of the seine leads both inside and outside of the pot.

1,667,701. SUPPORT FOR PLASTER BASES. AUGUST J. LUEDKE, Milwaukee, Wis., assignor to Milwaukee Corrugating Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 7, 1925. Serial No. 28,556. 4 Claims. (Cl. 72—70.)



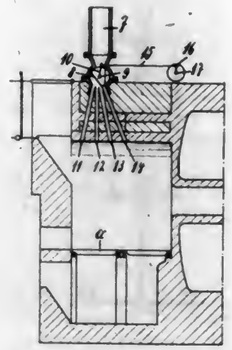
3. A concrete floor construction comprising a plurality of elongated inverted trough-shaped members embedded in the under-side of the floor, the interiors of the trough-shaped members opening to below the floor, a plurality of pins extending transversely through each trough-shaped member and located at spaced points thereon, the pins extending through the trough-shaped members and beyond the sides of the same and having their end portions embedded in the concrete and means carried by the portions of the pins located within the trough shaped members and adapted to support a plaster base, or the like.

1,667,702. CONNECTER. RALPH E. POWELL, Toledo, Ohio. Filed Apr. 23, 1926, Serial No. 104,178. Renewed Feb. 4, 1928. 1 Claim. (Cl. 173—259.)



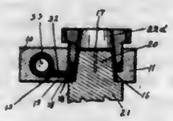
A connecter of the class described, comprising an element including a shank portion and having a socket extending perpendicularly of the main axis of the shank portion, the socket having elliptical edge portions of different area with an intervening flared wall, a tapered element adapted to engage the flared wall and to engage an element received within the socket, said tapered element having an outer convex surface and an outer concave surface and including a threaded extension, and threaded means engaging the extension and the adjacent edge portion of the socket.

1,667,703. APPARATUS FOR CHARGING FIREPLACES WITH HIGHLY-INFLAMMABLE LOOSE FUEL. ERNST SIMON, Werden-on-the-Ruhr, Germany. Filed Mar. 7, 1924, Serial No. 697,510, and in Germany Mar. 10, 1923. 1 Claim. (Cl. 110—118.)



A furnace having a fire box defined by walls including a top wall, a grate of substantial area in the fire box, a distributing valve structure above said top wall, said structure including a casing and a single distributing valve mounted for oscillation therein, the casing having at the top a port of substantial area for admission of fuel in communication with a fuel supply conduit, and the casing also having at the bottom a series of adjacent distinct distribution ports, the valve being of tubular downwardly tapering interior form and designed to afford selective communication between said inlet port and a single one of said distribution ports when selectively positioned, passages extending through said top wall on lines radiating substantially from the center of oscillation of said valve and entering the top of the fire box at spaced points and directed to afford distribution of fuel over substantially the entire grate area, and means external to said valve casing for selectively positioning the valve thus to afford distribution of the fuel through the several passages over the entire grate.

1,667,704. TERMINAL FOR STORAGE BATTERIES. RUDOLPH A. SZEITS, Hawthorne, Calif. Filed Sept. 14, 1926. Serial No. 135,326. 6 Claims. (Cl. 173—259.)



1. A device as described consisting of a base member formed with a bore, a collar, and a channel communicating with said bore and collar, said channel being completely filled with lead, means associated with said collar for clamping in position an electrical terminal, said means having a leaden contact with said lead filling in said channel, and a leaden film in said bore contacting with said leaden filling and adapted to receive and clamp an electrical cord.

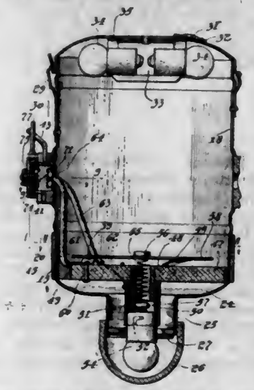
1,667,705. SELF-INDUCTION COIL. KURT VON WYSIECKI, Lausanne, Switzerland. Filed Nov. 28, 1925, Serial No. 71,994, and in Germany Aug. 18, 1924. 5 Claims. (Cl. 175—359.)

1. A loading coil comprising a core of ferromagnetic material having a shape which is elongated and cruciform in cross section, a casing of ferromagnetic material surrounding the core, windings crossing each other at right angles on the ends of the core and passing through opposite sectors formed by the arms of the core and by



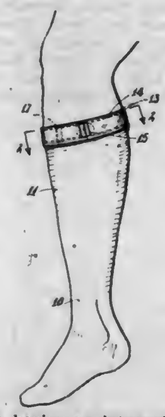
the casing, the magnetic resistances of core and casing being proportional to the power flux produced by the windings at the places of core and casing.

1,667,706. ELECTRIC LANTERN. EDMOND B. BRONSON, Blue Island, Ill. Filed Oct. 23, 1922. Serial No. 596,269. 12 Claims. (Cl. 240—10.5.)



1. In a portable electric lantern a battery receiving casing, trunnions upon opposite sides thereof one of which is hollow, a handle swingingly mounted upon said trunnions, a suitable switch mechanism housed within the hollow trunnion and outside said casing, and means operated by the reciprocation of said handle to open and close said switch.

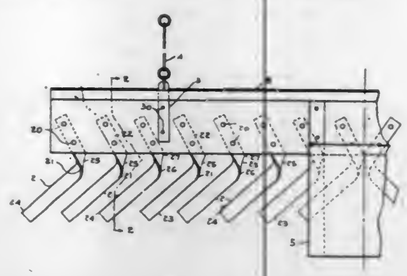
1,667,707. GARTER HOSIERY. NICHOLAS CHERNIAK, Bronx, N. Y. Filed Apr. 13, 1926. Serial No. 101,617. 1 Claim. (Cl. 2—240.)



In hosiery, a hose having an inturned hem, an elastic member disposed in the circumferential pocket formed by said hem, means on the extremities of said member for

detachably securing said extremities together, said hem being provided with an aperture for insertion and removal of said elastic member, a pair of outwardly diverging flaps secured within and extending without the hem at opposite sides of said aperture and fastening means secured to said flaps for attaching the adjacent ends together.

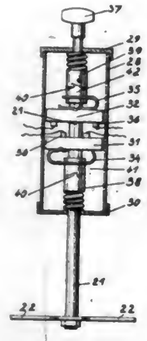
1,667,708. WEEDING MACHINE. JOSEPH ANTON RUZALSKI, Blackie, Alberta, Canada. Filed June 21, 1926. Serial No. 117,375. 1 Claim. (Cl. 55—149.)



In a weeding machine, a plurality of knives, each knife having a comparatively narrow shank broadening into a bend forming the beginning of the blade and in cross section shaped to taper from a thick rounded back to a cutting edge, said bend forming a twist in the metal from which the continuation of the blade extends at an obtuse angle to said shank, said twist transversely curving from the rounded back to the cutting edge, this curve gradually decreasing in sharpness and reversing across the central portion of the bend and forming thereacross and thereunder a recessed surface merging into a flat though tapered extension forming the main cutting portion.

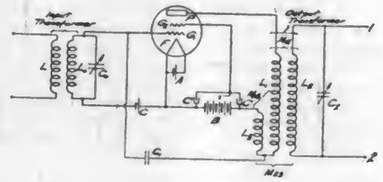
1,667,709. RAILWAY SIGNALING DEVICE. HERMANN SCHIEBING and ARTHUR REINHARDT, Apolda, Germany. Filed July 11, 1927, Serial No. 204,962, and in Germany July 16, 1926. 2 Claims. (Cl. 246—191.)

1. In a railway signaling device, a double switch on the locomotive of a train, one for the signal "line blocked" and the other for the signal "line free," comprising a casing, two insulating discs fixed in said casing, conductively connected metal sectors and terminals on said discs to which terminals electric leads are attached, a common rotary axle passing through said discs and projecting at both ends from said casing, axially movable spring-pressed coupling members on said axle within said casing, oppositely directed gripping faces on said coupling members, sleeves fixed on said axle and engaging with said gripping faces, and contact springs carried by said sleeves and in slidable contact with said metal sectors, and engagement between said sleeves and said oppositely directed gripping faces being such that at a rotation of



said axle in one direction one switch and at a rotation of said axle in the other direction the other switch is operated.

1,667,710. ELECTRICAL AMPLIFIER CIRCUIT. LEWIS M. HULL, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a Corporation of New Jersey. Filed Aug. 24, 1927. Serial No. 215,189. 3 Claims. (Cl. 179—171.)



1. An electrical amplifier circuit comprising, in combination, a vacuum tube device including an anode, a cathode, and a control electrode, an input circuit associated with said cathode and control electrode, a plate coil connected to said anode, a second coil coupled to said plate coil, and connected in series therewith between said cathode and anode, and a balancing condenser connected between said control electrode and the junction of said plate coil and said second coil, whereby said amplifier circuit may be balanced to reduce retroaction.

April 3, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Bakteriologisk Laboratorium "Ratin." (See Bakteriologisk Laboratorium, Neumann & Co. i Aalborg.)
Abendroth Brothers, Port Chester and New York, to Abendroth Brothers, Port Chester, N. Y. Cast-metal soil pipes and fittings. 68,966; renewed May 12, 1928.
Aetna Mills. (See Larabee Flour Mills Company.)
Agasote Millboard Co., The. (See Harvey & Outerbridge, assignor.)
Aguilar, New York, N. Y. Wood cabinets. 240,698; Apr. 3; Serial No. 257,462; published Jan. 24, 1928. Class 32.
American Diamalt Company, The, Cincinnati, Ohio, to The American Diamalt Company, New York, N. Y. Malt extract. 70,236; renewed Aug. 11, 1928.
American Underwear Manufacturing Co. Inc., Allentown, Pa. Underwear. 240,599; Apr. 3; Serial No. 258,013; published Jan. 17, 1928 Class 39.
Anderson, Alexander L., doing business as Anderson Beverage Co., Buffalo, N. Y. Beverages. 240,663; Apr. 3; Serial No. 257,912; published Jan. 24, 1928. Class 45.
Ashton Chemical Company. (See Berger, David A.)
Asphalt Products Company, Chicago, Ill. Paving, roofing, and building asphalt, asphalt filler, etc. 240,604; Apr. 3; Serial No. 250,290; published Jan. 17, 1928. Class 12.
Associated Attleboro Manufacturers, Inc. (See Briggs, D. F., Co., The.)
Bakteriologisk Laboratorium, Neumann & Co. i Aalborg, Gravensgade 1, Aalborg, to A/S Bakteriologisk Laboratorium "Ratin," Frederiksberg, Denmark, successor. Bacteriological preparations for the extermination of rats and mice. 69,723; renewed June 30, 1928.
Barber Asphalt Company, The, Philadelphia, Pa. Bituminous material. 240,637; Apr. 3; Serial No. 256,992; published Jan. 3, 1928. Class 12.
Bassick Company, The, Bridgeport, Conn. Slides and wheels for furniture casters. 240,590; Apr. 3; Serial No. 258,448; published Jan. 24, 1928. Class 13.
Baton Rouge Dental Chemical Co., Baton Rouge, La. Antiseptic mouth wash. 240,624; Apr. 3; Serial No. 258,791; published Jan. 24, 1928. Class 6.
Bauer, Henry, St. Louis, Mo. Hair oil. 240,623; Apr. 3; Serial No. 258,792; published Jan. 24, 1928. Class 6.
Beiersdorf, P., & Co. Inc., New York, N. Y. Medicinal preparation. 240,677; Apr. 3; Serial No. 257,464; published Jan. 24, 1928. Class 6.
Belknap Hardware & Manufacturing Company, Louisville, Ky. Milk and cream cans, buckets, pails, etc. 240,579; Apr. 3; Serial No. 249,259; published Jan. 24, 1928. Class 2.
Belknap Hardware & Manufacturing Company, Louisville, Ky. Incubators, brooders, and egg-turning trays. 240,580; Apr. 3; Serial No. 240,694; published Jan. 10, 1928. Class 50.
Belknap Hardware & Manufacturing Company, Louisville, Ky. Chamois skins. 240,581; Apr. 3; Serial No. 249,695; published Jan. 10, 1928. Class 1.
Berge, Joseph, doing business as Crowner Company, New York, N. Y. Metal covers or heads for fasteners. 240,684; Apr. 3; Serial No. 255,431; published Jan. 24, 1928. Class 13.
Berger, David A., doing business as Ashton Chemical Company, Cleveland, Ohio. Sink-trap-cleaning compound. 240,660; Apr. 3; Serial No. 257,958; published Jan. 24, 1928. Class 6.
Black Hawk Coffee & Spice Company, Waterloo, Iowa. Coffee. 67,561–2; renewed Feb. 11, 1928.
Blue Ribbon Products Co., Kalama, Wash. Wooden shingles. 240,645; Apr. 3; Serial No. 256,711; published Jan. 10, 1928. Class 12.
Blue Ridge Quarries, Inc., Slatington, Pa. Slate. 240,566; Apr. 3; Serial No. 239,571; published Jan. 10, 1928. Class 50.
Borden & Remington Co., Fall River, Mass. Adhesive gums, sizings, pastes, etc. 240,649; Apr. 3; Serial No. 256,392; published Jan. 24, 1928. Class 5.
Bourjois, Inc. (See Wertheimer, E., & Cie., assignor.)
Boye Needle Co., The, Chicago, Ill. Key chains, coiled-wire curtain holders, key hooks, and hasps. 240,727; Apr. 3. Class 13.
Brewer & Company Inc., Worcester, Mass. Lime. 240,636; Apr. 3; Serial No. 256,998; published Jan. 3, 1928. Class 12.
Briggs, D. F., Co., The, to Associated Attleboro Manufacturers, Inc., Attleboro, Mass., successor. Chains for personal adornment. 68,029; renewed Mar. 3, 1928.
Brooks, Thomas E., & Company, Red Lion, Pa. Cigars. 240,689; Apr. 3; Serial No. 255,226; published Jan. 24, 1928. Class 17.
Butler Brothers, New York, N. Y., to Butler Brothers, Chicago, Ill. Certain tools. 70,073; renewed July 28, 1928.
California Canneries Company, San Francisco, Calif. Canned fruits packed in wine sirup, sugar sirup, and in water. 240,700–1; Apr. 3; Serial Nos. 257,400–1; published Jan. 24, 1928. Class 46.
Celanese Corporation of America, New York, N. Y. Compositions in raw or partly-prepared condition. 240,681; Apr. 3; Serial No. 255,961; published Jan. 17, 1928. Class 1.
Chamberlain Metal Weather Strip Company, Detroit, Mich. Weather strips for doors. 240,707–8; Apr. 3; Serial Nos. 257,277–8; published Jan. 10, 1928. Class 12.
Charles Clothes. (See Solomon, Charles.)
Chicago Norfolk Western Coal Company, The, Chicago, Ill. Coal. 240,726; Apr. 3. Class 1.
Cifuentes Pego y Compañía, Habana, Cuba. Cigars, cigarettes, and smoking tobacco. 240,574; Apr. 3; Serial No. 246,594; published Jan. 24, 1928. Class 17.
Cleveland Twist Drill Co., assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Twist drills, reamers, taps, and the like. 31,414; renewed Mar. 8, 1928.
Climax Rubber Company. (See Stein, Jacob.)
Crowner Company. (See Berge, Jacob.)
Daisy, Limited, Leeds, England, assignor to J. E. Ellis Ltd., Horsforth, England. Medicinal powder for cure of headache. 31,160; renewed Jan. 18, 1928.
David & Blum, Inc., New York, N. Y. Gloves. 240,638; Apr. 3; Serial No. 256,915; published Jan. 17, 1928. Class 39.
David & Blum, Inc., New York, N. Y. Leather gloves. 240,653; Apr. 3; Serial No. 256,101; published Jan. 17, 1928. Class 39.
Delhon, Frank G., Brooklyn, N. Y. Shoes. 240,610; Apr. 3; Serial No. 251,721; published Jan. 17, 1928. Class 39.
Denver Fire Clay Company, The, Denver, Colo. Fire brick and fire-clay tile, etc. 240,656; Apr. 3; Serial No. 257,003; published Jan. 3, 1928. Class 12.
Denver Fire Clay Company, The, Denver, Colo. Fire brick and fire-clay tile. 240,711; Apr. 3; Serial No. 257,152; published Jan. 10, 1928. Class 12.
Denver Fire Clay Company, The, Denver, Colo. Fire brick and fire-clay tile. 240,712; Apr. 3; Serial No. 257,151; published Jan. 3, 1928. Class 12.
Detroit Brass & Malleable Works, Detroit, Mich. Brass and malleable-metal faucets and cocks. 240,576; Apr. 3; Serial No. 248,288; published Jan. 24, 1928. Class 13.
Deutsche Sl'-Sl' Werke mit beschränkter Haftung, Hamburg, Germany. Lemonade, Seltzer water, and fruit juices. 69,805; renewed July 7, 1928.
Diamond, Jacob, doing business as Diamond Mercantile Co., Cincinnati, Ohio. Hosiery. 240,575; Apr. 3; Serial No. 246,891; published Jan. 17, 1928. Class 39.
Dixie Manufacturing Co., Inc., Jackson, Miss. Rubber patch for automobile tire tubes, etc. 240,615; Apr. 3; Serial No. 220,451; published Jan. 24, 1928. Class 35.
Donaldson, T. B., Medicine Mfg. Company, The. (See Read, Edward P.)
Droescher, Severin R., Cranford, N. J. and New York, N. Y. Hones, oilstones, and whetstones. 70,032; renewed July 28, 1928.
Dryzer, Harry B., doing business as H. B. Dryzer & Company, Knoxville, Tenn. Coats, hats, suits, etc. 240,614; Apr. 3; Serial No. 252,694; published Jan. 17, 1928. Class 39.
Dudley, B. C., Coal Company, Indianapolis, Ind. Coal. 240,721; Apr. 3. Class 1.
Eastern Finishing Works, Kenyon, R. I. Treated fabrics for protective coverings. 240,644; Apr. 3; Serial No. 256,719; published Jan. 3, 1928. Class 50.
Ellis, J. E., Ltd. (See Daisy, Limited, assignor.)
Ely & Walker Dry Goods Co., St. Louis, Mo. Caps. 240,631; Apr. 3; Serial No. 258,171; published Jan. 17, 1928. Class 39.
Fanning Bread and Butter Pickle Company, Inc., New York, N. Y., and Streator, Ill. Pickles. 240,709; Apr. 3; Serial No. 257,264; published Jan. 24, 1928. Class 46.
Filene's, Wm., Sons Company, Boston, Mass. Men's suits, overcoats, topcoats, and tuxedos. 240,725; Apr. 3. Class 39.
Finzer Brothers Clay Company, The, Sugar Creek, Ohio. Building bricks. 240,697; Apr. 3; Serial No. 253,235; published Jan. 10, 1928. Class 12.
Fit All Cap Co., Inc., New York, N. Y. Men's and boys' caps. 240,635; Apr. 3; Serial No. 258,021; published Jan. 17, 1928. Class 39.
Fletcher Works, Philadelphia, Pa. Hydroextractors for use in laundries and other arts. 240,659; Apr. 3; Serial 257,975; published Jan. 24, 1928. Class 24.
Ford Roofing Products Company, Chicago, Ill. Asphalt shingles. 240,687; Apr. 3; Serial No. 255,376; published Jan. 17, 1928. Class 12.
Ford, Ruth S., doing business as Ford's Service Bureau, New London, Conn. Orange marmalade. 240,632; Apr. 3; Serial No. 258,075; published Jan. 24, 1928. Class 46.

Fort Smith Furniture Manufacturers' Company, Fort Smith, Ark. Furniture. 240,688; Apr. 3; Serial No. 255,239; published Jan. 24, 1928. Class 32.
Frank Tea & Spice Co., The, to The Frank Tea & Spice Company, Cincinnati, Ohio, successor. Foods. 69,275; renewed June 2, 1928.
Freeman, Albert, New York, N. Y. Smoking tobacco, cigars, cigarettes, etc. 240,667–S; Apr. 3; Serial Nos. 257,732–3; published Jan. 24, 1928. Class 17.
Fulton Company, The, assignor to The Fulton Sylphon Company, Knoxville, Tenn. Heat or temperature regulators. 68,046; renewed Mar. 3, 1928.
Gamson & Company, Philadelphia, Pa. Women's and misses' coats and suits. 240,602; Apr. 3; Serial No. 258,411; published Jan. 17, 1928. Class 39.
Genesee Pure Food Co., Le Roy, N. Y., assignor, by mesne assignments, to Postum Company, Incorporated, New York, N. Y. Substitutes for coffee made of grain. 31,172; renewed Jan. 25, 1928.
Gilbert, John O., Chocolate Company, Jackson, Mich. Candy. 240,586; Apr. 3; Serial No. 258,742; published Jan. 24, 1928. Class 46.
Ginsburg, Ben, Co., Inc., New York, N. Y. Coats and dresses. 240,646; Apr. 3; Serial No. 256,669; published Jan. 17, 1928. Class 39.
Globe-Wernicke Company, The, Cincinnati, Ohio, to The Globe-Wernicke Co., Norwood, Ohio. Document files. 69,605; renewed June 23, 1928.
Gonsalves, Manuel F., doing business as Pomery Club Sales Co., New York, N. Y. Ginger ale. 240,650; Apr. 3; Serial No. 256,341; published Jan. 24, 1928. Class 45.
Grand Rapids Plaster Company, Grand Rapids, Mich. Plaster. 240,605; Apr. 3; Serial No. 250,339; published Jan. 17, 1928. Class 12.
Great Valley Anthracite Corporation, East Radford, Va. Coal. 240,676; Apr. 3; Serial No. 257,476; published Jan. 10, 1928. Class 1.
Grey, Herbert J., doing business as The H. J. Grey Company, New York, N. Y. Wrapping paper, tissue paper, etc. 240,657; Apr. 3; Serial No. 258,119; published Jan. 10, 1928. Class 37.
Griner, Hubert B., doing business as International Pe-Can-Dy Company, Albany, Ga. Nut candy bars. 240,658; Apr. 3; Serial No. 257,979; published Jan. 24, 1928. Class 46.
Groobman, Louis, doing business as Whittier, Walnut Packing House Co., Whittier, Calif. Walnuts. 240,710; Apr. 3; Serial No. 257,062; published Jan. 24, 1928. Class 46.
Gruendler Patent Crusher and Pulverizer Company, St. Louis, Mo. Crushers, shredders, breakers, etc. 240,680; Apr. 3; Serial No. 255,986; published Jan. 24, 1928. Class 23.
Hairtite Barber Apron Co., Tampa, Fla. Barber's hair cloth and apron. 240,719; Apr. 3. Class 39.
Hardwick Stove Company, Cleveland, Tenn. Heating stove. 240,674; Apr. 3; Serial No. 257,579; published Jan. 24, 1928. Class 34.
Hartwell Brothers, Hollywood and Memphis, Tenn.; Chicago, Ill.; and New York, N. Y. Clubs, rammer rods, and handles for axes, hatchets, etc. 240,683; Apr. 3; Serial No. 255,849; published Jan. 24, 1928. Class 23.
Harvey & Outerbridge, New York, N. Y., assignor to The Agasote Millboard Co., Ewing Township, N. J. Millboard. 69,252; renewed June 2, 1928.
Hebert Shoe Co., Stoneham, Mass. Boots and shoes. 240,584; Apr. 3; Serial No. 257,981; published Jan. 17, 1928. Class 39.
Heller, George W., Inc., New York, N. Y. Waistcoats. 240,672; Apr. 3; Serial No. 257,626; published Jan. 17, 1928. Class 39.
Henderson Corporation, Seattle, Wash. Mechanical heater. 240,643; Apr. 3; Serial No. 256,724; published Jan. 24, 1928. Class 23.
Humphrey, James L., Jr., New Bedford, Mass. Butter, milk, cheese and cream. 31,852; renewed Aug. 9, 1928.
Husk, Harry M., Company, Newburyport, Mass. Boots and shoes. 240,634; Apr. 3; Serial No. 258,027; published Jan. 17, 1928. Class 39.
International Pe-Can-Dy Company. (See Griner, Hubert B.)
Isaacson, William O., Chicago, Ill. Nails and anchors. 240,567; Apr. 3; Serial No. 239,935; published Jan. 24, 1928. Class 13.
Isabey-Paris-Inc., New York, N. Y. Face powder. 240,620; Apr. 3; Serial No. 256,647; published Jan. 24, 1928. Class 6.
Isabey-Paris-Inc., New York, N. Y. Perfumes and toilet water. 240,647; Apr. 3; Serial No. 256,648; published Jan. 24, 1928. Class 6.
Janette Manufacturing Company, Chicago, Ill. Circulating pumps. 240,664; Apr. 3; Serial No. 257,874; published Jan. 24, 1928. Class 23.
Jewelers Circular Pub. Co., The, to Jewelers Publishing Corporation, New York, N. Y., successor. Periodical. 67,435; renewed Feb. 4, 1928.
Jobbing Association—Farmers Educational and Cooperative Union of America—Kansas Branch, The, Kansas City, Mo. Butter. 240,611; Apr. 3; Serial No. 252,046; published Jan. 24, 1928. Class 46.
Johns-Manville Corporation, New York, N. Y. Plaster weatherproof coating for insulation. 240,713; Apr. 3; Serial No. 257,101; published Jan. 10, 1928. Class 12.
Julius Kayser & Co., New York, N. Y. Knit silk underwear. 70,107; renewed July 28, 1928.
Kansas Milling Company, The, Wichita, Kans. Wheat flour. 70,051; renewed July 28, 1928.
Katz, Jacob F., New York, N. Y. Hairdressing. 240,682; Apr. 3; Serial No. 255,851; published Jan. 24, 1928. Class 6.
Keller-Kohn Company, The, Cleveland, Ohio. Coats. 240,606–7; Apr. 3; Serial Nos. 250,549–50; published Jan. 17, 1928. Class 39.
Kenmoor Sportswear, Inc., New York, N. Y. Misses' and women's coats, suits, and dresses. 240,666; Apr. 3; Serial No. 257,801; published Jan. 17, 1928. Class 39.
Kiddy Kraft Plak Co., Indianapolis, Ind. Plaques formed with figures in relief. 240,582; Apr. 3; Serial No. 249,731; published Jan. 3, 1928. Class 50.
Kilburn Mill, New Bedford, Mass. Combed yarn. 70,372; renewed Aug. 25, 1928.
Klaxon Company, The. (See Lovell-McConnell Manufacturing Company, assignor.)
Klein's Rapid Shoe Repair Co. Inc., New York, N. Y. Leather shoe soles. 240,640; Apr. 3; Serial No. 256,875; published Jan. 17, 1928. Class 39.
Knowlton Danderine Co., The, Chicago, Ill., assignor to Sterling Products (Incorporated), Wheeling, W. Va. Plastic preparation. 69,135; renewed May 19, 1928.
König, Hermann C., Steinhagen, Germany. Corn brandy. 69,705; renewed June 30, 1928.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Malt syrup. 240,720; Mar. 13. Class 46.
L & M System Clothes, Inc., New York, N. Y. Men's suits. 240,716; Apr. 3. Class 39.
Lafayette Manufacturing Co., The, Baltimore, Md. Suits, bloomers, middies, etc. 240,577; Apr. 3; Serial No. 248,412; published Jan. 17, 1928. Class 39.
Larabee Flour Mills Company, doing business as Aetna Mills, Kansas City, Mo., and Wellington, Kans. Wheat flour. 240,585; Apr. 3; Serial No. 258,817; published Jan. 24, 1928. Class 46.
Larson, L. P., Jr., Company, Chicago, Ill. Chewing gum. 240,626; Apr. 3; Serial No. 258,753; published Jan. 24, 1928. Class 46.
Leavitt & Peirce, Incorporated, Cambridge, Mass. Cigars, cigarettes, and smoking tobacco. 69,668; renewed June 30, 1928.
Lederer, Henry, & Bro. Inc., Providence, R. I. Cigar lighters. 240,589; Apr. 3; Serial No. 258,474; published Jan. 24, 1928. Class 34.
Lees Textile Co., Inc., Lowell, Mass. Tinsel ribbons and ribbonzene in the piece or bolt. 240,723; Apr. 3. Class 42.
Logan Clay Products Co., The, Logan, Ohio. Sewer pipe, conduit pipe, etc. 240,696; Apr. 3; Serial No. 253,811; published Jan. 3, 1928. Class 12.
Lovell-McConnell Manufacturing Company, The, assignor, by mesne assignments, to The Klaxon Company, Newark, N. J. Signal horns or alarms. 69,913; renewed July 14, 1928.
MacIntyre-Fishback Mfg. Co., The, Pueblo, Colo. Overalls, jumpers, pants, etc. 240,569; Apr. 3; Serial No. 244,166; published Jan. 17, 1928. Class 39.
Macomb Manufacturing Company, Macomb, Ill. Emergency fuel cans. 240,695; Apr. 3; Serial No. 253,904; published Dec. 6, 1927. Class 2.
MacPherson, Warren, Cambridge, Mass. Vulcanized-rubber latex. 240,652; Apr. 3; Serial No. 256,258; published Jan. 10, 1928. Class 1.
MaGirl P. H., Foundry & Furnace Works, Bloomington, Ill. Heating, ventilating, and circulating systems. 240,642; Apr. 3; Serial No. 256,785; published Jan. 24, 1928. Class 34.
May Hosiery Mills Inc., Burlington, N. C. Hosiery, underwear, dresses, etc. 240,641; Apr. 3; Serial No. 256,827; published Jan. 17, 1928. Class 39.
McAllister, Otis, & Co., San Francisco, Calif. Timber, logs. 240,685; Apr. 3; Serial No. 255,396; published Jan. 3, 1928. Class 1.
McCann & Co., Inc., Pittsburgh, Pa. Oleomargarine. 240,587; Apr. 3; Serial No. 258,642; published Jan. 24, 1928. Class 46.
McCready, Robert H., Plainfield, N. J., and New York, assignor to Silk Publishing Company, New York, N. Y. Monthly trade journal. 70,206; renewed Aug. 11, 1928.
Meyer, Leo, Company, The, Akron, Ohio. Cord patches, reliners, lace-on boots, etc. 240,718; Apr. 3. Class 35.
Miller, I., & Sons, Inc., Long Island City, N. Y. Shoes. 240,678; Apr. 3; Serial No. 256,006; published Jan. 17, 1928. Class 39.
Miller, I., & Sons, Inc., Long Island City, N. Y. Shoes, slippers, etc. 240,679; Apr. 3; Serial No. 256,005; published Jan. 17, 1928. Class 39.
Minard's Liniment Manufacturing Company, Framingham and Boston, Mass., assignor to Minard Company, Framingham, Mass. Liniment. 67,620; renewed Feb. 11, 1928.
Missouri Butterine Co. (See St. Louis Independent Packing Company.)
Monroe Milling Company, Waterloo, Ill. Wheat middlings. 240,622; Apr. 3; Serial No. 258,824; published Jan. 24, 1928. Class 46.
Mount Vernon-Woodberry Cotton Duck Company, assignor to Mt. Vernon Woodberry Mills, Inc., Baltimore, Md. Cotton duck. 68,575; renewed Apr. 14, 1928.

Mueller Brass Co., Port Huron, Mich. Metal pipe, pipe fittings, bolts, nuts, etc. 240,686; Apr. 3; Serial No. 255,393; published Jan. 24, 1928. Class 13.
Munroe Shoe Company, Inc., Auburn, Me. Boots, shoes, and slippers. 240,628; Apr. 3; Serial No. 258,584; published Jan. 17, 1928. Class 39.
National Building Units Corporation, Philadelphia, Pa. Cinder concrete building blocks, bricks, and tiles. 240,690; Apr. 3; Serial No. 255,193; published Jan. 10, 1928. Class 12.
Nechtow, Morris, doing business as Slick-O Mfg. Co., Los Angeles, Calif. Hairdressing. 240,648; Apr. 3; Serial No. 256,635; published Jan. 24, 1928. Class 6.
Nestlé and Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland, and London, England, assignor to Nestle's Food Company, Inc., New York, N. Y. Condensed milk. 69,321–2; renewed June 2, 1928.
Newlin, William E., doing business as Newlin's Chemical Laboratory, Chicago, Ill. Liquid insecticide and cleaner. 240,625; Apr. 3; Serial No. 258,765; published Jan. 24, 1928. Class 6.
Niedner's, Chas., Sons Company, Malden, Mass. Linen hose. 69,287–8; renewed June 2, 1928.
North & Judd Manufacturing Company, New Britain, Conn. Harness parts. 70,139; renewed Aug. 4, 1928.
Oppenheim, Collins & Co., Inc., New York, N. Y., and Cleveland, Ohio. Dresses. 240,598; Apr. 3; Serial No. 258,036; published Jan. 17, 1928. Class 39.
Oradento Chemical Company. (See Quitt, Solomon L.)
Oxnard Citrus Association, Hueneme and Camarillo, Calif. Oranges and lemons. 240,588; Apr. 3; Serial No. 258,538; published Jan. 24, 1928. Class 46.
Pacific Clay Products, Los Angeles, Calif. Brick. 240,671; Apr. 3; Serial No. 257,697; published Jan. 17, 1928. Class 12.
Parker Brothers (Inc). (See Roche, William J.)
Paver, J. M., Company, The, Chicago, Ill. Canned vegetables and berries. 240,578; Apr. 3; Serial No. 248,859; published Jan. 24, 1928. Class 46.
Paver, J. M., Company, The, Chicago, Ill. Canned vegetables, fruits, etc. 240,694; Apr. 3; Serial No. 254,421; published Jan. 17, 1928. Class 46.
Penny, J. C., Company, Wilmington, Del., and New York, N. Y. Trunks, traveling bags, cases, etc. 240,627; Apr. 3; Serial No. 258,590; published Jan. 24, 1928. Class 3.
Pepperell Manufacturing Co., Biddeford, Me., assignor, by mesne assignments, to Pepperell Manufacturing Company, Boston, Mass. Bleached and unbleached cotton piece goods. 68,577–8; renewed Apr. 14, 1928.
Pepperell Manufacturing Co., Biddeford, Me., assignor, by mesne assignments, to Pepperell Manufacturing Company, Boston, Mass. Bleached and unbleached cotton piece goods. 68,700–1; renewed Apr. 21, 1928.
Pfeiffer & Diller G. m. b. H., to Pfeiffer & Diller Gesellschaft mit beschränkter Haftung, Horchheim, Germany, successor. Preparation to improve the color, aroma, and flavor of coffee. 68,656; renewed Apr. 21, 1928.
Phillips, Charles H., Chemical Company, The, Glenbrook, Conn., and New York, N. Y. Preparation of magnesia. 46,225; renewed Sept. 12, 1925.
Place, Charles H., New Rochelle, N. Y. Men's raincoats. 240,710; Apr. 3; Serial No. 257,194; published Jan. 17, 1928. Class 39.
Pleasant Valley Wine Company, The, Rheims, N. Y. Grape juice. 240,568; Apr. 3; Serial No. 242,614; published Jan. 24, 1928. Class 45.
Pomery Club Sales Co. (See Gonsalves, Manuel F.)
Posograph, Inc., Philadelphia, Pa. Photograph apparatus or machines. 240,693; Apr. 3; Serial No. 254,510; published Jan. 24, 1928. Class 26.
Postum Company, Incorporated. (See Genesee Pure Food Co., assignor.)
Pressed Steel Car Company, Pittsburgh, Pa. Car-truck bolsters. 67,604; renewed Feb. 11, 1928.
Prophylactic Tooth Powder, Inc. (See Rhein, Lizzie E. V., assignor.)
Quitt, Solomon L., doing business as Oradento Chemical Company, Greenwich, Conn. Antiseptic mouth wash and dental lotion. 240,630; Apr. 3; Serial No. 258,289; published Jan. 24, 1928. Class 6.
Railway Steel Spring Company, assignor, by mesne assignments, to Railway Steel-Spring Company, New York, N. Y. Railway supplies. 68,223; renewed Mar. 17, 1928.
Ramsden, C. E., doing business as C. E. Ramsden & Company, Fenton, England. Mineral material. 240,612; Apr. 3; Serial No. 252,237; published Jan. 3, 1928. Class 12.
Read, Edward P., doing business as The T. B. Donaldson Medicine Mfg. Company, Philadelphia, Pa. Tonic and system purifier for blood diseases, etc. 240,618; Apr. 3; Serial No. 239,062; published Jan. 24, 1928. Class 6.
Reading Full Fashioned Hosiery Mills, Inc., Reading, Pa. Hosiery. 240,600; Apr. 3; Serial No. 258,290; published Jan. 17, 1928. Class 39.
Reckitt & Sons, Limited, Hull, England. Cleaning and polishing preparations. 240,662; Apr. 3; Serial No. 257,938; published Jan. 17, 1928. Class 16.
Reid, Murdoch & Co., Chicago, Ill. Cereal breakfast foods. 240,591; Apr. 3; Serial No. 258,428; published Jan. 24, 1928. Class 46.
Rhein, Lizzie E. V., assignor, by mesne assignments, to Prophylactic Tooth Powder, Inc., New York, N. Y. Tooth powders and pastes. 69,160; renewed May 19, 1928.
Roche, William J., New Bethlehem, Pa., to Parker Brothers (Inc.), Salem, Mass., successor. Card game. 62,595; renewed May 14, 1927.
Rocky Hill Corporation, Exeter, Calif. Fresh citrus fruits. 240,706; Apr. 3; Serial No. 257,314; published Jan. 24, 1928. Class 46.
Rubin, Alexander, San Francisco, Calif. Hats. 240,572; Apr. 3; Serial No. 246,000; published Jan. 17, 1928. Class 39.
Safety Glass and Xetal Products, Limited, Stapleford, England. India rubber, india-rubber latex, and guttapercha. 240,583; Apr. 3; Serial No. 249,929; published Jan. 17, 1928. Class 1.
St. Louis Independent Packing Company, doing business as Missouri Butterine Co., St. Louis, Mo. Oleomargarine. 240,621; Apr. 3; Serial No. 258,831; published Jan. 24, 1928. Class 46.
Scherti, Paul, Hoboken, N. J. Pockets in clothing. 240,691; Apr. 3; Serial No. 254,727; published Jan. 17, 1928. Class 39.
Schmid, Julius, Inc., New York, N. Y. Flycatchers. 240,704; Apr. 3; Serial No. 257,362; published Jan. 10, 1928. Class 50.
Schmidt, Leo, doing business as Sun-Burst Liquid Gloss Co., Fairfield, Iowa. Cleaner and polish for varnished and lacquered surfaces. 240,655; Apr. 3; Serial No. 257,035; published Jan. 17, 1928. Class 16.
Schulz, M., Co., Chicago, Ill. Pianos and organs. 61,301; renewed Mar. 12, 1927.
Schwabacher Bros. & Co. Incorporated, Seattle, Wash. Canned fish. 67,558; renewed Feb. 11, 1928.
Security Flour Mills Company, The, Abilene, Kans. Wheat flour. 240,670; Apr. 3; Serial No. 257,707; published Jan. 24, 1928. Class 46.
Seidenberg, R. J., Co., Buffalo, N. Y. Cigars and all-tobacco cigarettes. 240,661; Apr. 3; Serial No. 257,940; published Jan. 24, 1928. Class 17.
Silk Publishing Company. (See McCready, Robert H., assignor.)
Simmons, George W., Corporation, New York, N. Y. Clothespins. 240,596; Apr. 3; Serial No. 258,297; published Jan. 24, 1928. Class 24.
Simmons Hardware Company, St. Louis, Mo., to Simmons Hardware Company, New Haven, Conn. Abrasive materials and sharpening stones. 70,180; renewed Aug. 11, 1928.
Slick-O Mfg. Co. (See Nechtro, Morris.)
Smith, J., Allen, & Company, Knoxville, Tenn. Flour. 240,629; Apr. 3; Serial No. 258,300; published Jan. 24, 1928. Class 46.
Snow Flyer Corporation, The, New Holstein, Wis. Sled propulsion attachments for automobiles. 240,703; Apr. 3; Serial No. 257,387; published Jan. 24, 1928. Class 19.
Societe Anonyme Le Khedive, Brussels, Belgium, and Paris, France, assignor to Societe Anonyme Ed. Laurens-"Le Khedive" Extension Suisse, Geneva, Switzerland. Cigarettes. 68,787–8; renewed Apr. 28, 1928.
Societe Vinicole de Champagne, Paris, France. Champagne wine. 240,714; Apr. 3; Serial No. 257,084; published Jan. 24, 1928. Class 47.
Solomon, Charles, doing business as Charles Clothes, New York, N. Y. Clothing. 240,601; Apr. 3; Serial No. 258,196; published Jan. 17, 1928. Class 39.
Speed-O Liniment Co., Inc., New York, N. Y. Liniment. 240,613; Apr. 3; Serial No. 252,362; published Dec. 6, 1927. Class 6.
Speler, Sidney S., Louisville, Ky. Cigars. 68,509; renewed Apr. 14, 1928.
Splitdorf Radio Corporation, Newark, N. J. Radiocabinets, loud-speaker cabinets, etc. 240,669; Apr. 3; Serial No. 257,711; published Jan. 24, 1928. Class 32.
Stadler & Stadler, New York, N. Y. Knickerbockers, trousers, and skirts. 240,702; Apr. 3; Serial No. 257,389; published Jan. 17, 1928. Class 39.
Standard Plastering Systems, Inc., Detroit, Mich. Building materials. 240,619; Apr. 3; Serial No. 239,204; published Jan. 10, 1928. Class 12.
Standard School Company, St. Louis, Mich., and Louisville, Ky. Septic tanks. 240,597; Apr. 3; Serial No. 258,047; published Jan. 24, 1928. Class 13.
Stanley, Wm. H., Inc., New York, N. Y. Canned fish. 240,665; Apr. 3; Serial No. 257,820; published Jan. 24, 1928. Class 46.
Stein, Jacob, doing business as Climax Rubber Company, New York and Brooklyn, N. Y. Rubber caps and hats, etc. 240,692; Apr. 3; Serial No. 254,687; published Jan. 17, 1928. Class 39.
Sterling Products (Incorporated). (See Knowlton Danderine Co., The, assignor.)
Sterling Stocking Co., Mount Sterling, Ohio. Stump stockings and socks. 240,717; Apr. 3. Class 39.
Stetson Shoe Company, Inc., The, Weymouth, Mass. Leather boots, shoes, and slippers. 69,983; renewed July 21, 1928.
Stevens, Chas. A., & Bros., Chicago, Ill. Artificial flowers, table pad, figurines, and Dresden sets. 240,608; Apr. 3; Serial No. 251,582; published Jan. 3, 1928. Class 50.

Strauss, Levi, and Company, San Francisco, Calif. Knitted union suits and sweaters. 240,571; Apr. 3; Serial No. 245,355; published Dec. 6, 1927. Class 39.
Strawsons, assignor, by mesne assignments, to Strawson Chemical Co. Limited, London, England. Insecticides. 67,880; renewed Feb. 25, 1928.
Struven, Charles M., doing business as Charles M. Struven & Company, Baltimore, Md. Fish meal for dog feeding. 240,654; Apr. 3; Serial No. 256,020; published Jan. 24, 1928. Class 46.
Sun-Burst Liquid Gloss Co. (See Schmidt, Leo.)
Swift and Company, Chicago, Ill. Glue. 240,722; Apr. 3. Class 5.
Talcum Puff Company, Inc., Asheville, N. C., to Talcum Puff Co. Inc., Brooklyn, N. Y., successor. Talcum powder. 67,368; renewed Jan. 28, 1928.
Taunton Rubber Company, Taunton, Mass. Rubber heels, taps, and soles. 240,633; Apr. 3; Serial No. 258,048; published Jan. 17, 1928. Class 39.
Temmler Werke Vereinigte Chemische Fabriken Hermann Temmler, Berlin-Johannisthal, Germany. Antiseptic tablets. 240,651; Apr. 3; Serial No. 256,314; published Jan. 24, 1928. Class 6.
Three-M Manufacturing Company, Kansas City, Mo. Chemical-solution admixtures. 240,617; Apr. 3; Serial No. 238,753; published Jan. 24, 1928. Class 6.
Travis, W. W., Company, The, Bloomington, Ill. Preparations for the treatment of diarrhea, etc., liniment, skin cream preparations, etc. 240,724; Apr. 3. Class 6.
Tubular Products Company, The, Southington, Conn. Smokers' stands. 240,673; Apr. 3; Serial No. 257,608; published Jan. 24, 1928. Class 32.
Utility Manufacturing Company Inc., Baltimore, Md. Double-faucet soap dishes. 240,592; Apr. 3; Serial No. 258,369; published Jan. 24, 1928. Class 13.
Utility Manufacturing Company Inc., Baltimore, Md. Sponge baskets, combination sponge baskets and soap trays, etc. 240,593; Apr. 13; Serial No. 258,368; published Jan. 24, 1928. Class 13.
Utility Manufacturing Company, Inc., Baltimore, Md. Bathroom fixtures. 240,594; Apr. 3; Serial No. 258,367; published Jan. 24, 1928. Class 13.
Utility Manufacturing Company Inc., Baltimore, Md. Dish drainers. 240,595; Apr. 3; Serial No. 258,366; published Jan. 24, 1928. Class 13.
Van Dyke Knitting Company, Milwaukee, Wis. Men's knitted underwear. 240,603; Apr. 3; Serial No. 258,370; published Jan. 17, 1928. Class 39.
Van Tassel Company, Boston, Mass. Leather. 240,699; Apr. 3; Serial No. 257,459; published Jan. 17, 1928. Class 1.
Vereinigte Chemische Werke Aktiengesellschaft, Charlottenburg, Germany. Cold cream and pomades. 67,899; renewed Feb. 25, 1928.
W. & F. Mfg. Co., Inc., Buffalo, N. Y. Liquid-filled chewing confection. 240,573; Apr. 3; Serial No. 246,372; published Jan. 24, 1928. Class 46.
Wagner's, W. T., Sons, assignor to The W. T. Wagner's Sons Company, Cincinnati, Ohio. Ginger ale. 68,737; renewed Apr. 28, 1928.
Wagner's, W. T., Sons, assignor to The W. T. Wagner's Sons Company, Cincinnati, Ohio. Table waters. 69,638; renewed June 23, 1928.
Wells & Richardson Company, assignor to Wells & Richardson Company, Inc., Burlington, Vt. Dyes. 68,962–3; renewed May 12, 1928.
Wendell Pharmacal Co., assignor to The Wendell Pharmacal Company, Inc., Syracuse, N. Y. Medicine. 67,608; renewed Feb. 11, 1928.
Wertheimer, E., & Cie., Paris, France, assignor, by mesne assignments, to Bourjois, Inc., New York, N. Y. Perfumery and face tints. 69,143; renewed May 19, 1928.
Wertheimer, E., & Cie., Paris, France, assignor, by mesne assignments, to Bourjois, Inc., New York, N. Y. Perfumery, toilet powers, and face tints. 69,145; renewed May 19, 1928.
White Brothers, Scotts, Mich. Products of the coal mines and coke ovens. 240,609; Apr. 3; Serial No. 251,640; published Jan. 3, 1928. Class 1.
Whittier Walnut Packing House Co. (See Groobman, Louis.)
Winship, Bolt & Co., Wakefield, Mass. Underwear. 240,570; Apr. 3; Serial No. 232,980; published Jan. 17, 1928. Class 39.
Witt's Market House, Minneapolis, Minn. Hams, sliced ham, rye bread, etc. 240,616; Apr. 3; Serial No. 226,088; published Nov. 29, 1927. Class 46.
Wood, Charles E., Incorporated, New York, N. Y. Crude rubber and rubber crepe. 240,639; Apr. 3; Serial No. 256,893; published Jan. 17, 1928. Class 1.
Wood Newspaper Machinery Corporation, New York, N. Y. Apparatus for making stereotype printing plates. 240,675; Apr. 3; Serial No. 257,497; published Jan. 24, 1928. Class 23.
Woolsey, C. A., Paint & Color Co., Jersey City, N. J. Paint. 69,989; renewed July 21, 1928.
Yale & Towne Manufacturing Company, The, Stamford, Conn. Locks. 31,843; renewed Aug. 2, 1928.
Zander & Company, Inc., New Orleans, La. Coffee. 240,705; Apr. 3; Serial No. 257,330; published Jan. 24, 1928. Class 46.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Abbott, John F., doing business as Caribbean Products Co., Philadelphia, Pa. Tostko. For Prepared Cocoa. 33,752; Apr. 3.
Alderman Fairchild Co., Rochester, N. Y. Jolly Cop Ring Toss. For a Game. 33,753; Apr. 3.
Alderman Fairchild Co., Rochester, N. Y. Captain Hop Across Junior. For a Game. 33,754; Apr. 3.
Alderman Fairchild Co., Rochester, N. Y. The Capital Cities Air Derby. For a Game. 33,755; Apr. 3.
Alderman Fairchild Co., Rochester, N. Y. Noah's Ark. For a Game. 33,756; Apr. 3.
Alderman Fairchild Co., Rochester, N. Y. Pop and Plop. For a Game. 33,757; Apr. 3.
Alderman Fairchild Co., Rochester, N. Y. Blinky Blinx Tiddledy Winks. For a Game. 33,758; Apr. 3.
Becker, Barney, doing business as Beckers Malt Extract Co., Pleasantville, N. J. Beckmeister. For Malt Syrup. 33,759; Apr. 3.
Bigosh Eye Wash Co., Fargo, N. Dak. Bigosh Eye Wash. For Eye Lotion. 33,760; Apr. 3.
Caribbean Products Co. (See Abbott, John F.)
Chess, Meyer W., doing business as Meyer W. Chess Brokerage Co., Pacoima and San Fernando, Calif. Chess. For Fresh Oranges. 33,761; Apr. 3.
Color-Brite Laboratory. (See Dexter, Sarah C.)
Decker, Jacob E., & Sons, Mason City, Iowa. Decker's Town Club. For Ham. 33,762; Apr. 3.
Decker, Jacob E., & Sons, Mason City, Iowa. Decker's Town Club. For Bacon. 33,763; Apr. 3.
Defiance Dairy Products Company, The, Defiance, Ohio. Beauty. For Evaporated Milk. 33,764; Apr. 3.
Defiance Dairy Products Company, The, Defiance, Ohio. Sunshine. For Evaporated Milk. 33,765; Apr. 3.
Dexter, Sarah C., doing business as Color-Brite Laboratory, Chicago, Ill. Color Brite. For Compound for Preserving the Colors of Wash Fabrics. 33,766; Apr. 3.
Hoague-Sprague Corporation, Lynn, Mass. The Dayton Company. For Boxes. 33,767. Apr. 3.
Hoague-Sprague Corporation, Lynn, Mass. The Edwards Store. For Boxes. 33,768; Apr. 3.
Hoague-Sprague Corporation, Lynn, Mass. Kerrison's. For Boxes. 33,769; Apr. 3.
Hoague-Sprague Corporation, Lynn, Mass. The House That Saves You Money. For Boxes. 33,770; Apr. 3.
Hoague-Sprague Corporation, Lynn, Mass. Chamberlin-Johnson-Dubose Company. For Boxes. 33,771; Apr. 3
Hoague-Sprague Corporation, Lynn, Mass. Style Without Extravagance. For Boxes. 33,772; Apr. 3.
Kemp, Edward F., Somerville and Boston, Mass. Ed. Kemp, Golden Glow Farm Fudge. For Golden Glow Farm Fudge. 33,773; Apr. 3.
Kemp, Edward F., Somerville and Boston, Mass. E. F. Kemp, Salted Almonds. For Salted Almonds. 33,774; Apr. 3.
Kemp, Edward F., Somerville and Boston, Mass. E. F. Kemp, Salted Pecans. For Salted Pecans. 33,775; Apr. 3.
Kemp, Edward F., Somerville and Boston, Mass. E. F. Kemp, Salted Cashew Nuts. For Salted Cashew Nuts. 33,776; Apr. 3.
Kemp, Edward F., Somerville and Boston, Mass. E. F. Kemp, Salted Mixed Nuts. For Salted Mixed Nuts. 33,777; Apr. 3.
Kick-O-Mato Incorporated, Duluth, Minn. Kick-O-Mato. For a Tomato Sauce. 33,778; Apr. 3.
Lee, Arthur R., doing business as Art Lee, Los Angeles, Calif. Hollywood Stars Mask of Minerals. For Facial Cream. 33,779; Apr. 3.
Limoneira Company, Santa Paula, Calif. Santa. For Lemons. 33,780; Apr. 3.
Limoneira Company, Santa Paula, Calif. Paula. For Lemons. 33,781; Apr. 3.
Lindy Candy Company, Palisades Park, N. J. Lindy. For Candy. 33,782; Apr. 3.
Madame Ida Von Lindenau, Chicago, Ill. Madame Ida Von Lindenau's. For Hair Tonic. 33,783; Apr. 2.
McEwen, Irving, Omaha, Nebr. Plantside Cut Worm and Gopher Repellent. For a Medicinal Preparation for Treating Seed Corn. 33,784; Apr. 3.
Miner, William H., Chazy, N. Y. Delicious Bacon Heart's Delight Farm. For Bacon. 33,785; Apr. 3.
Plunkett, Paul E., Baltimore, Md. Plunkett's Compound Laxative Bromo Aspiron Tablets. For Compound Laxative Bromo Aspiron Tablets. 33,786; Apr. 3.

Poultry Producers of Central California, San Francisco, Calif. Humpty-Dumpty Eggs. For Eggs. 33,787; Apr. 3.
Poultry Producers of Central California, San Francisco, Calif. Gold'n White Eggs. For Eggs. 33,788; Apr. 3.
Roddenbery Bros., Cairo, Ga. Sunnyland. For Syrup. 33,789; Apr. 3.
Stover-Gibbs & Winsel, Los Angeles, Calif. El Rey. For Gopher Poison. 33,790; Apr. 3.
Weingarten, Joshua, Philadelphia, Pa. Winco. For Shoe Laces. 33,791; Apr. 3.
Wrigley, Wm., Jr., Company, Chicago, Ill. Wrigley's Dulce 16—Chicle Rosado. For Chewing Gum. 33,792–4; Apr. 3.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Black, Starr & Frost, New York, N. Y. In So Intimate and Personal a Gift as The Engagement Ring. For Jewelry. 10,741; Apr. 3.
C. G. Spring & Bumper Company, The, Detroit, Mich. Progress. For Vehicle Bumpers. 10,742; Apr. 3.
Cream of Wheat Co., Minneapolis, Minn. More Loveable—More Difficult to Manage Every Day. For Wheat Breakfast Food. 10,743; Apr. 3.
Cream of Wheat Co., Minneapolis, Minn. You've Probably Been Wishing For This Very Thing. For Wheat Breakfast Food. 10,744; Apr. 3.
Fischer, Albert C., doing business as Servicised Products Company. Servicised. For Construction Material, and Specifically Expansion Joints. 10,745; Apr. 3.
Hickman, R. H., Company, Stowe Township and Pittsburgh, Pa. Hickman's Silver Birch Chewing Gum. For Chewing Gum. 10,746; Apr. 3.
Hygienic Products Company, The, Canton, Ohio. Want a Bucket of Rain-Water? For Mel'O, a Water Softener. 10,747; Apr. 3.
Kolynos Company, The, New Haven, Conn. Kolynos Dental Cream. For Dental Cream. 10,748; Apr. 3.
Lionel Trading Co. Inc., doing business as Lionel, New York, N. Y. Corday Perfumes For Exquisite Women. For Perfumes and Lip Sticks. 10,749; Apr. 3.
McKee, W. C., doing business as The No. 9 Chemical Company, Columbus, Ga. Ant Killer No. 9 is the Envelope Kind. For Ant Killer. 10,750; Apr. 3.
National Grocer Company, Detroit, Mich. R Grocer. For Grocery Products and Meats. 10,751; Apr. 3.
No. 9 Chemical Company, The. (See McKee, W. C.)
Orange-Crush Company, Chicago, Ill. For a Perfect Lunch Drink Cocoa-Crush. For Nonalcoholic, Noncereal, Maltless Beverage. 10,752; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. They Say P. A. is the World's Largest Seller. For Tobacco. 10,753; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. P. A. Suits My Taste Like Nobody's Business. For Tobacco. 10,754; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Quality Sent P. A. To The Head of the Class. For Tobacco. 10,755; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. The Sum-Total of Pipe-Joy. For Tobacco. 10,756; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Watch Me Roll. A Great Cigarette. For Tobacco. 10,757; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Me—I Like a Pipe. For Tobacco. 10,758; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Go Get a Pipe! For Tobacco. 10,759; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. P. A. Suits My Taste Like Nobody's Business. For Tobacco. 10,760; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Nothing Like a Pipe, I Say. For Tobacco. 10,761; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. I'll Back P. A. Against Them All. For Tobacco. 10,762; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Rolling 'Em With P. A. is a Great Racket. For Tobacco. 10,763; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Camel Stands Alone—Unusual in Every Way. For Cigarettes. 10,764; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. To Make a Man Happy at Christmas . . . and From Then on! For Tobacco. 10,765; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. I Know My Home-Roller Cigarettes. For Tobacco. 10,766; Apr. 3.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Does He Smoke? Well, Then, That's Settled! For Tobacco. 10,767; Apr. 3.
Servicised Products Company. (See Fischer, Albert C.)

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott Laboratories, North Chicago, Ill. Antacid and digestant. 261,729; Apr. 3. Class 6.
Abernethy's Pharmacy, Inc., Daytona Beach, Fla. Insecticide in liquid form. 261,599; Apr. 3. Class 6.
Adlanco Industrial Products Corporation, New York, N. Y. Instruments for measuring electrical resistances. 255,425–6; Apr. 3. Class 26.
Akron Oil Company, The, Akron, Ohio. Gasoline and motor-lubricating oils. 259,273; Apr. 3. Class 15.
Aktiengesellschaft Chocolat Tobler, Bern, Switzerland. Chocolate. 230,207; Apr. 3. Class 46.
Allen, Bona, Inc., Buford, Ga. Horse collars. 261,165; Apr. 3. Class 3.
Alligator Company, The, St. Louis, Mo. Tobacco pouches. 244,486; Apr. 3. Class 8.
Allis, Amber, Milwaukee, Wis. Kitchen and household utensils. 257,775; Apr. 3. Class 13.
Altorfer Bros. Company, East Peoria, Ill. Laundry washing machines. 260,613; Apr. 3. Class 24.
American Aniline and Extract Co. (See McCarty, Aquilla B.)
American Mercury, Inc., The, New York, N. Y. Periodical publication. 261,782; Apr. 3. Class 38.
American Minerals, Inc., The. (See Moynahan, Ambrose E.)
American Smelting & Refining Company, New York, N. Y., and San Francisco, Calif. Nonferrous metals and metal alloys. 257,570–1; Apr. 3. Class 14.
Anso Company, The, San Francisco, Calif. Pharmaceutical preparations. 261,035; Apr. 3. Class 6.
Aoki, Jitsuji, doing business as Oakland Noodle Company, Oakland, Calif. Noodles. 242,041; Apr. 3. Class 46.
Atlanta Sand & Supply Co., Atlanta, Ga. Sand. 258,246; Apr. 3. Class 1.
Atlantic Mills, The, Olneyville, R. I., and Stottville, N. Y. Woolen textile fabrics in the piece. 248,470; Apr. 3. Class 42.
Atlantic Mills, The, Olneyville, R. I., and Stottville, N. Y. Woolen coatings in the piece. 257,333; Apr. 3. Class 42.
Baker, Geo., & Sons, Inc., Brockton, Mass. Tacks and nails. 259,293; Apr. 3. Class 13.
Barrett, C. E., & Co., Chicago, Ill. Fountain pens. 261,733; Apr. 3. Class 37.
Belle Jewelry Co., New York, N. Y. Finger rings. 260,974; Apr. 3. Class 28.
Benner, C. O., Cigar Company, Trumbauersville, Pa. Cigars. 260,550; Apr. 3. Class 17.
Berbert, Julius, Denver, Colo. Diagnostic thermometers, surgical scissors, artery forceps, etc. 257,573; Apr. 3. Class 44.
Bluhut Hat Co., Inc., New York, N. Y. Hats and caps. 259,276; Apr. 3. Class 39.
Bollinger, Earl A., D. D. S., doing business as The Mutane Co., San Antonio, Tex. Preparation for use in treating gingivitis and pyorrhea. 260,934; Apr. 3. Class 6.
Borgfeldt, Geo., & Co., New York, N. Y. Dolls, toy animals, top figures, etc. 259,320; Apr. 3. Class 22.
Brand, Samuel, & Sons, Inc., New York, N. Y. Jewelry. 260,312; Apr. 3. Class 28.
Brewer & Company, Inc., Worcester, Mass. Elastic athletic supporter. 255,958; Apr. 3. Class 44.
Briggs, C. A., Company, Cambridge, Mass. Candy. 249,702; Apr. 3. Class 46.
Britex Awning Cloth Co. Inc., Richmond Hill, N. Y. Awning cloth. 260,042; Apr. 3. Class 42.
Brothers Corporation, New York, N. Y. Prepared medicine. 261,735; Apr. 3. Class 6.
Brown Packing Company, San Francisco, Calif. Canned and preserved vegetables. 258,110; Apr. 3. Class 46.
Buckeye Blower Company, The, Columbus, Ohio. Heating and ventilating units. 253,005; Apr. 3. Class 34.
Budlong Pickle Co., Chicago, Ill. Pickles, mustard, catsup, preserves, chili sauce, relishes, etc. 260,317; Apr. 3. Class 46.
Burke Golf Company, The, Newark, Ohio. Sporting goods. 260,870; Apr. 3. Class 22.
Bustos, Castro, Probst & Probst, Paris, France. Automatic liquid dispensers. 251,950; Apr. 3. Class 23.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cameron, William J., doing business as Cameron's Surgical Specialty Co., (Not Inc.), Chicago, Ill. Instruments of the retinoscope and ophthalmoscope type for examining, testing, and measuring the eyes. 260,082; Apr. 3. Class 26.

Centemeri, P., & Co., New York, N. Y. Gloves. 260,088; Apr. 3. Class 39.

Centemeri, P., & Co., New York, N. Y. Gloves. 260,092; Apr. 3. Class 39.

Centemeri, P., & Co., New York, N. Y. Hand, overnight, and traveling bags, etc. 260,098; Apr. 3. Class 3.

Certone Company, Brooklyn, N. Y. Tonic. 262,204; Apr. 3. Class 6.

Chicago Mail Order Company, Chicago, Ill. Automobile tires and tubes. 260,799; Apr. 3. Class 35.

Chicago Steel Foundry Company, Chicago, Ill. Steel Castings. 257,469; Apr. 3. Class 14.

Clark, W. G., & Co., Inc., North Attleboro, Mass. Friction cigar lighters. 260,556; Apr. 3. Class 34.

Clemetsen Company, The, Chicago, Ill. Desks, tables, and filing cabinets. 250,397; Apr. 3. Class 32.

Coca Cola Bottling Company of Los Angeles, doing business as Lime and Lemon Frost Company, Los Angeles, Calif. Beverages and syrups for making the same. 260,875–6; Apr. 3. Class 45.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 261,099–100; Apr. 3. Class 28.

Cole, H. C., Milling Company, Chester, Ill. Wheat and self-rising flour. 261,160; Apr. 3. Class 46.

Cole, H. C., Milling Company, Chester, Ill. Wheat, self-rising, and cake flour and mill feeds. 261,161; Apr. 3. Class 46.

Consolidated Color & Chemical Company, New York, N. Y. Chemical compounds used in bleaching, scouring, and dyeing. 261,738; Apr. 3. Class 6.

Cook Laboratories, Inc., Chicago, Ill. Needles for hypodermic syringes or for infection-administering purposes. 258,572; Apr. 3. Class 44.

Coryell, John C., doing business as Coryell Laboratory, Ann Arbor, Mich. Hair pomade. 260,626; Apr. 3. Class 6.

Crane's Products. (See Foley, Harry B.)

Crown Oil & Wax Co., Baltimore, Md. Lubricating oils and greases. 253,312; Apr. 3. Class 15.

Crown Oil & Wax Co., Baltimore, Md. Lubricating oils and greases. 253,314; Apr. 3. Class 15.

David & Blum, Inc., New York, N. Y. Leather gloves. 260,103; Apr. 3. Class 39.

Debus, Harold L., and William H. Heaton, Shawnee, Kans. Medicated analgesic chewing gum. 242,882; Apr. 3. Class 6.

Delettrez, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 260,987; Apr. 3. Class 6.

Delettrez, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 261,491; Apr. 3. Class 6.

Dell Publishing Company, New York, N. Y. Magazine published monthly. 261,948–9; Apr. 3. Class 38.

Delta Asbestos Company. (See Goldberg, S. Louis.)

Delta Tau Delta Fraternity, New York, N. Y. Fraternity badges, lapel buttons, cuff links, etc. 240,021; Apr. 3. Class 28.

Dennis, D. F. & R. M. Carlisle, Pa., and Martinsburg, W. Va. Fresh apples and peaches. 260,428; Apr. 3. Class 46.

Diamond Products Mfg. Co. (See Markatos, Spiros C.)

Diana Radio Tube Corp., New York, N. Y. Radio vacuum tubes. 259,897; Apr. 3. Class 21.

Dolby, L. R., Company, Spokane, Wash. Suits, wraps, cloaks, etc. 259,107; Apr. 3. Class 39.

Domestic Mills Paper Company, New York, N. Y. Paper-napkin dispensers. 258,406; Apr. 3. Class 13.

Drybak Corporation, The, Binghamton, N. Y. Breeches, leggings, trousers, and pants. 259,947; Apr. 3. Class 39.

Elam Mills, Inc., Chicago, Ill. Whole-wheat flour, meal, and oatmeal. 259,900; Apr. 3. Class 46.

Electric Refrigeration Corporation, Detroit, Mich. Refrigerator cabinets and mechanical refrigerating apparatus. 259,485; Apr. 3. Class 31.

Empire Oil & Food Products Co., Portland, Oreg. Pure raw and boiled linseed oil. 260,435; Apr. 3. Class 16.

Eskimo Pie Corporation, Louisville, Ky. Frozen confections. 261,249; Apr. 3. Class 46.

Eveleth, Sarah W., Winter Haven, Fla. Cakes. 261,616; Apr. 3. Class 46.

Faber, A. W., Inc., Newark, N. J. Lead pencils, pencil leads, drawing pens, etc. 261,494–6; Apr. 3. Class 37.

Faber, A. W., Inc., Newark, N. J. Rubber erasers. 261,498; Apr. 3. Class 37.

Fabrique d'Horlogerie Jury S. A. (Jury Watch Co., Ltd.), Bienne, Switzerland. Watches, watch movements, and parts of the same. 259,901; Apr. 3. Class 27.

Fair, The, Chicago, Ill. Suits, coats, pants, etc. 254,709; Apr. 3. Class 39.

Federal Container Company, Philadelphia, Pa. Fibre board. 261,184; Apr. 3. Class 37.

Felger, F. & F., Inc., Newark, N. J. Jewelry. 259,303; Apr. 3. Class 28.

Filbert, J. H., Inc., Baltimore, Md. Oleomargarine. 260,939; Apr. 3. Class 46.

Firth-Sterling Steel Company, McKeesport, Pa. Steel bars of various shapes and sizes and forgings, blocks, discs, and pieces of steel. 259,721; Apr. 3. Class 14.

Foley, Harry B., doing business as Crane's Products, Chicago, Ill. Compound or preparation for tinting washable fabrics. 261,870; Apr. 3. Class 6.

Frank, Edgar K., & Co., New York, N. Y. Linings in the piece. 260,172; Apr. 3. Class 42.

Friendly Visitor Service, The. (See Kollmorgen, William J.)

Frugal Electric Manufacturing Company, The, Cincinnati, Ohio. Electric heating devices. 260,221; Apr. 3. Class 21.

Gash-Stull Company, Chester, Pa. Automobile tires. 261,185; Apr. 3. Class 35.

Gates, Marshall E., doing business as Reynolds & Gates, Helena, Mont. Skin ointment. 258,905; Apr. 3. Class 6.

Geyer, H. E., Company, Minneapolis, Minn. Coal. 259,851; Apr. 3. Class 1.

Ginsberg, Philip, doing business as Phyllisian Products, New York, N. Y. Face cream. 260,726; Apr. 3. Class 6.

Goldberg, Samuel A., Chicago, Ill. Hosiery. 254,580; Apr. 3. Class 39.

Goldberg, S. Louis, doing business as Delta Asbestos Company, New York, N. Y. Plastic roofing material. 252,956–7; Apr. 3. Class 12.

Graf, R., & Co., Aktiengeselischaft, Nuremberg, Germany. Catgut and other surgical sewing materials, sewing silk, etc. 249,221; Apr. 3. Class 44.

Grant, John W. D., New York, N. Y. Periodical. 261,752; Apr. 3. Class 38.

Greene, June S., Cleveland, Ohio. Deodorant. 260,445; Apr. 3. Class 6.

Greensaft, Isidor, New York, N. Y. Bar racks and hangers. 255,240; Apr. 3. Class 13.

Guarneri, Domenico, Brooklyn, N. Y. Olive oil. 260,998; Apr. 3. Class 46.

Haddock Mining Company, Wilkes-Barre, Pa. Anthracite coal. 259,404; Apr. 3. Class 1.

Hanan, Herbert W., doing business as Hanan & Son, Brooklyn, N. Y. Boots, shoes, and slippers. 256,670; Apr. 3. Class 39.

Happiness Bakeries, Inc., St. Paul, Minn. Cakes, rolls, bread, pie, etc. 259,768; Apr. 3. Class 46.

Happy Feed Mills, Inc., Memphis, Tenn. Delousing grease, Epsom salts, roup remedy, etc. 261,810; Apr. 3. Class 6.

Heintz, Merkle & Co. (Inc.), Philadelphia, Pa. Bottled minced fruit. 243,547; Apr. 3. Class 46.

Henis, Charles, New York, N. Y. Coats, capes, and wraps. 260,011; Apr. 3. Class 39.

Heppenstall Forge & Knife Company, Pittsburgh, Pa. Steel forgings. 261,003; Apr. 3. Class 14.

Hersey, Harold, New York, N. Y. Magazines. 261,711; Apr. 3. Class 38.

Hixbie & Co. Inc., New York, N. Y. Hand bags, hatboxes, suitcases, etc. 259,557; Apr. 3. Class 3.

Hoffbauer, Dr. Richard, Berlin, Germany. Pharmaceutical preparation. 260,888; Apr. 3. Class 6.

Hoffmann-Hayman Coffee Co., San Antonio, Tex. Coffee. 261,672; Apr. 3. Class 46.

Hoffritz, Nikolaus, Uffing, Vogelmuhle, Germany. Pencils. 261,438; Apr. 3. Class 37.

Hohner, M., Inc., New York, N. Y. Mouth harmonicas and accordions. 260,635; Apr. 3. Class 36.

Hooker Electrochemical Company, New York, N. Y. Lye. 262,085; Apr. 3. Class 6.

Horment Aktiengesellschaft für Herstellung Organischer Heilmittel, Berlin, Germany. Organotherapeutical products. 250,752; Apr. 3. Class 6.

Huger, Wm., & Company, Inc., Newark, N. J. Jewelry. 261,007; Apr. 3. Class 28.

Humpty Dumpty Stoop-No-More Stores, Inc., Wilmington, Del., and McAllen, Tex. Easels. 259,681; Apr. 3. Class 32.

Hupp Motor Car Corporation, Richmond, Va., and Detroit, Mich. Automobiles and constructive parts thereof. 262,460; Apr. 3. Class 19.

Hutchison, Frank E., doing business as Hutchison Engineering Works, Chicago, Ill. Unitary electric-lighting plants, floodlights, and electric lanterns. 260,[illegible]; Apr. 3. Class 21.

Hygienic Products Company, The, Canton, Ohio. Water softener. 252,283; Apr. 3. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, and Berlin, Germany. Insecticides. 261,250; Apr. 3. Class 6.

International Metal & Specialty Co. (See Porter, George.)

James, Edmund L., New York, N. Y. Jewelry buckles, clasps, and slides, etc. 252,603; Apr. 3. Class 28.

Jamieson, Clarence E., Detroit, Mich. Astringents, antiseptics, and mouth washes. 260,272; Apr. 3. Class 6.

Johnson, J. W., Company, Chicago, Ill. Tarpaulins and waterproof wagon and truck covers. 259,064; Apr. 3. Class 50.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Junior, Half-Size Coat Co., Inc., New York, N. Y. Coats for women, misses, and children. 260,124; Apr. 3. Class 39.

K. K. Importing Co., The, New York, N. Y. Watch movements and parts of watches. 259,808–9; Apr. 3. Class 27.

Kappner, Max, doing business as The Kappner Manufacturing Company, Cincinnati, Ohio. Arch supporters. 257,366; Apr. 3. Class 44.

Kearney & Trecker, West Allis, Wis. Milling machines. 260,507; Apr. 3. Class 23.

Keek Company, Inc., St. Louis, Mo. Canned vegetables, vinegar, etc. 250,546; Apr. 3. Class 46.

Keystone Mushroom Company, Pomeroy, Pa. Mushrooms. 259,363; Apr. 3. Class 46.

Kirchnerova, Ludmila, Prague, Czechoslovakia. Disinfectants. 249,910; Apr. 3. Class 6.

Klitz, Robert H., New York, N. Y. Bracelets, brooch pins, finger rings, etc. 260,385; Apr. 3. Class 28.

Kollmorgen, William J., doing business as The Friendly Visitor Service, Fairmount, Ind. Publications for religious news published periodically. 262,091; Apr. 3. Class 38.

Krank, A. J., Mfg. Co., St. Paul, Minn. Bath and toilet compound. 260,784; Apr. 3. Class 6.

Lang & Lewin, Inc., New York, N. Y. Piece goods of silk, wool, etc. 260,947; Apr. 3. Class 42.

Lebanon Mill Company, Pawtucket, R. I. Women's, misses', and girls' undergarments. 245,502; Apr. 3. Class 39.

Le Roy & Toland, Philadelphia, Pa. Lubricating oils. 260,640; Apr. 3. Class 15.

Les Etablissements Poulenc Frères, Paris, France. Fluorescent substance. 251,913; Apr. 3. Class 6.

Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 261,011; Apr. 3. Class 42.

Levinsohn, Edward D., Chicago, Ill. Composition books, spelling tablets, bond paper, etc. 261,444; Apr. 3. Class 37.

Lime and Lemon Frost Company. (See Coca Cola Bottling Company of Los Angeles.)

Linehan Phonograph Co., Inc., St. Paul, Minn., doing business as Nordica Mfg. Co., Chicago, Ill. Phonographs adapted for combination with radio receiving sets. 243,551; Apr. 3. Class 36.

Liquid Carbonic Corporation, The, Chicago, Ill. Bottle-washing machinery. 260,336; Apr. 3. Class 23.

London Feather Novelty Company, The, New York, N. Y. Ladies' hats. 249,799; Apr. 3. Class 39.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes and cookies. 262,099–100; Apr. 3. Class 46.

M. & S. Tire and Tube Patch Co., Washington, D. C. Portable tire-repair kits. 257,883; Apr. 3. Class 35.

M. T. C. Company, The, Philadelphia, Pa. Teeth cleaner for removing stains and dissolving tartar. 261,580; Apr. 3. Class 6.

Markatos, Spiros C., doing business as Diamond Products Mfg. Co., New York, N. Y. Combined hat luring, steaming, and pressing machines. 245,360; Apr. 3. Class 24.

Marquette Petroleum Products, Chicago, Ill. Lubricating oils. 260,008; Apr. 3. Class 15.

Martin Dennis Company, The, Newark, N. J. Kind of leather stuffing known as fat liquor. 261,893; Apr. 3. Class 6.

Martin Dennis Company, The, Newark, N. J. Tanner's bate. 261,895; Apr. 3. Class 6.

Martin Dennis Company, The, Newark, N. J. Kind of leather stuffing known as fat liquor. 261,896; Apr. 3. Class 6.

Maxwell, Robert B., Booneville, Miss. Liniment. 251,973; Apr. 3. Class 6.

McCarty, Aquilla B., doing business as American Aniline and Extract Co., Philadelphia, Pa. Bleaching agent. 260,647; Apr. 3. Class 6.

McCarty, Aquilla B., doing business as American Aniline and Extract Co., Philadelphia, Pa. Coal-tar product. 260,648; Apr. 3. Class 6.

Mellowes and Company Limited, Sheffield, England. Glazed roofs and sides of buildings. 257,181; Apr. 3. Class 12.

Mergott, J. E., Company, Newark, N. J. Paper knives, pad holders, letter openers, paper weights, etc. 261,900; Apr. 3. Class 37.

Merit Hosiery Company, Ozone Park, N. Y. Hosiery. 261,518; Apr. 3. Class 39.

Metropolitan Company, The, Dayton, Ohio. Outer suits, overcoats, caps, and vests. 242,687; Apr. 3. Class 39.

Meyer & Lange, Inc., New York, N. Y. Wafers. 262,109; Apr. 3. Class 46.

Mid-Western Laboratory, Sioux City, Iowa. Medicines for poultry. 261,762; Apr. 3. Class 6.

Milwaukee Valve Company, Milwaukee, Wis. Metal air eliminators, air valves, brass unions, etc. 256,737; Apr. 3. Class 13.

Mirenburg, H., & Co. Inc., New York, N. Y. Piece goods made of silk. 258,343; Apr. 3. Class 42.

Mirenburg, H., & Co. Inc., New York, N. Y. Piece goods made of silk. 258,345; Apr. 3. Class 42.

Morrison, George, Poughkeepsie, N. Y. Honey. 261,273; Apr. 3. Class 46.

Moss-Seamans Shoe Co., Haverhill and Newburyport, Mass. Leather shoes. 259,745; Apr. 3. Class 39.

Motor Registration News of California, Oakland, Calif. Periodical. 261,715; Apr. 3. Class 38.

Moynahan, Ambrose E., doing business as The American Minerals, Inc., Denver, Colo. Prepared fertilizer. 258,825; Apr. 3. Class 10.

Mueller Brass Co., Port Huron, Mich. Ingots, pigs, rods, etc. 255,392; Apr. 3. Class 14.

Musher and Company, Washington, D. C. Salad oil. 260,903; Apr. 3. Class 46.

Mutane Co., The. (See Bollinger, Earl A., D. D. S.)

National Lead Battery Company, St. Paul, Minn. Combination storage A batteries and chargers, etc. 244,715; Apr. 3. Class 21.

National Mitten Works, The, Kokomo, Ind. Cotton work gloves and mittens and cotton jersey gloves. 257,889; Apr. 3. Class 39.

National Pool & Billiard Supply Co., Chicago, Ill. Billiard-table cloths. 244,624; Apr. 3. Class 42.

Neal, Daniel, & Sons Ltd., London, England. Boots, shoes, sandals, etc. 253,953; Apr. 3. Class 39.

Nelson, William, Monrovia, Calif. Preparation for treatment to relieve excessive perspiration. 261,133; Apr. 3. Class 6.

New England Fish Co., Seattle, Wash. Canned salmon. 253,040; Apr. 3. Class 46.

New York Canners Inc., Rochester, N. Y. Canned fruits and vegetables, etc. 249,369; Apr. 3. Class 46.

Nordica Mfg. Co. (See Linehan Phonograph Co., Inc.)

North & Judd Manufacturing Company, New Britain, Conn. Buckles, snaps, grommets, and washers, etc. 261,134; Apr. 3. Class 3.

North & Judd Manufacturing Company, New Britain, Conn. D rings. 261,135; Apr. 3. Class 3.

North & Judd Manufacturing Company, New Britain, Conn. Harness rings. 261,136; Apr. 3. Class 3.

North & Judd Manufacturing Company, New Britain, Conn. Spurs, bits, and stirrups. 261,138; Apr. 3. Class 3.

Oakland Noodle Company. (See Aoki, Jitsuji.)

Odeonbat, Inc., New York, N. Y. Ladies' hats. 258,783; Apr. 3. Class 39.

Ohio Bronze Powder Company, The, Cleveland, Ohio. Gold bronze powder. 261,718; Apr. 3. Class 16.

O'Kay Products Corporation, Detroit, Mich. Automobile body polish and tire paint. 259,369; Apr. 3. Class 16.

O'Kay Products Corporation, Detroit, Mich. Lubricating oils and greases, motor oil, cup grease, and compounds. 260,344; Apr. 3. Class 15.

Oleum Products Company, Inc., Scranton, Pa. Insecticidea. 256,681; Apr. 3. Class 6.

Oneida Community, Ltd., Oneida, N. Y. Traylike boxes for storing and displaying articles. 257,739; Apr. 3. Class 2.

Oriental Perfumery. (See Papazian, Garabed S.)

Palmer, Solon, New York, N. Y. Perfumes. 261,765; Apr. 3. Class 6.

Papazian, Garabed S., doing business as Oriental Perfumery, Stapleton, N. Y. Perfumery. 261,831; Apr. 3. Class 6.

Paraflector Company, The, Minneapolis, Minn. Headlight lens. 262,256; Apr. 3. Class 33.

Pemberton, Floyd A., Aberdeen, S. Dak. Hamburger sandwiches. 261,680; Apr. 3. Class 46.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Safety pins. 260,236; Apr. 3. Class 40.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Toothbrushes and hairbrushes. 260,847; Apr. 3. Class 29.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Yarns. 261,924; Apr. 3. Class 43.

Perkins, Arthur A., doing business as Perkins Silk Shop Inc., Albany, N. Y. Silk and silk warp goods. 261,141; Apr. 3. Class 42.

Perlman Bros., New York, N. Y. Men's and children's caps. 260,350; Apr. 3. Class 39.

Perlmuter, Kermit, doing business as Supreme Malt Products Co., East Boston, Mass. Malt extracts. 260,586–7; Apr. 3. Class 46.

Pettigrew & Merriman (1925) Ltd., London, England. Radio loud speakers and radio audiofrequency transformers. 243,777; Apr. 3. Class. 21.

Pfizer, Charles, & Company, New York, N. Y. Laxative. 260,908; Apr. 3. Class 6.

Phyllisian Products. (See Ginsberg, Philip.)

Pipe Nipple Standards Corporation, Chicago, Ill. Metal pipe nipples. 260,698, Apr. 3. Class 13.

Pitman-Moore Company, Indianapolis, Ind. General-tonic tablet. 245,516; Apr. 3. Class 6.

Pittsburg Water Heater Company, Pittsburgh, Pa. Gas hot-water heaters. 243,880; Apr. 3. Class 34.

Plattsburgh Feed & Grocery Co., Plattsburg, N. Y. Canned vegetables, catsup, fruit preserves, and macaroni. 261,452; Apr. 3. Class 46.

Porter, George, doing business as International Metal & Specialty Co., Berlin, N. J. Sound locators. 260,655; Apr. 3. Class 26.

Postindex Company Inc., Jamestown, N. Y. File sheets. 259,576; Apr. 3. Class 37.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Power-Plus Battery Company, St. Louis, Mo. Electric storage batteries. 259,459; Apr. 3. Class 21.
Powers & Mayer, Inc., New York, N. Y. Precious stones and jewelry. 260,290; Apr. 3. Class 28.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor fuels. 242,209; Apr. 3. Class 15.
Radio Engineering Magazine, Inc., New York, N. Y. Monthly magazine. 261,453; Apr. 3. Class 38.
Reed Air Filter Company, The, Louisville, Ky. Heating radiators. 256,013; Apr. 3. Class 34.
Revonah Spinning Mills, Inc., Hanover, Pa. Jute yarns. 261,327–30; Apr. 3. Class 43.
Reynolds & Gates. (See Gates, Marshall E.)
Roddenbery Bros., Cairo, Ga. Cane and maple sugar syrup. 261,454; Apr. 3. Class 46.
Rose Brothers Company, Lancaster, Pa. Umbrellas and parasols. 259,783; Apr. 3. Class 41.
Rose & Mangan, New Hampton, Iowa. Liniment. 252,290; Apr. 3. Class 6.
Rosemary Creamery Company, The, New York, N. Y. Dried milk. 257,032; Apr. 3. Class 46.
Rosenfield, Abraham, J., doing business as Rosenfield Uniform Company, Boston, Mass. Uniform and civilian coats, trousers, vests, overcoats, etc. 261,075; Apr. 3. Class 39.
Rosenwald, Max, New York, N. Y. Brushes. 260,470; Apr. 3. Class 29.
Rothschild, John, & Co., San Francisco, Calif. Pipes. 262,122; Apr. 3. Class 8.
Russian Petroleum Syndicate, The, Detroit, Mich. Laxative. 261,911; Apr. 3. Class 6.
Sanford, Stephen, & Sons Inc., Amsterdam, N. Y. Axminster carpets and rugs. 261,653; Apr. 3. Class 42.
Sangamo Electric Company, Springfield, Ill. Electric clocks. 261,021; Apr. 3. Class 27.
Sauquoit Paper Co., Inc., Utica, N. Y. Toilet paper. 261,686; Apr. 3. Class 37.
Scampavia Bros., Watsonville, Calif. Apples. 257,706; Apr. 3. Class 46.
Schachenmayr, Mann & Co., Salach, Germany. Yarns. 261,772; Apr. 3. Class 43.
Schaller, Carleton, & Co., New York, N. Y. Linen goods in the piece. 260,355; Apr. 3. Class 42.
Schoenegan, John A., jr., doing business as J. A. Schoenegan Jr. Co., New York, N. Y. Automobile and furniture polish. 259,597; Apr. 3. Class 16.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Medicated and perfumed foot-bath tablet. 262,125; Apr. 3. Class 6.
Scull, William S., Company, Camden, N. J. Tea and tea balls. 242,443; Apr. 3. Class 46.
Seidel & Sons, Ad., Chicago, Ill. Concentrated syrup containing flavoring and other ingredients. 260,193; Apr. 3. Class 46.
7 Baker Brothers, Pittsburgh, Pa. Cakes and biscuits. 261,215–16; Apr. 3. Class 46.
Shenandoah Milling Company, Inc., Shenandoah, Va. Wheat flour. 261,218; Apr. 3. Class 46.
Skandia Furniture Company of Rockford Illinois, The, Rockford, Ill. Desks, secretaries, chest of drawers, etc. 260,536; Apr. 3. Class 32.
Snarr, Geo. W., & Co., St. Louis, Mo. Soldering paste and lamp-coloring dye. 258,701; Apr. 3. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical preparation. 259,084; Apr. 3. Class 6.
Speed-O-Roll Press Co. Inc., New York, N. Y. Flat-bed printing presses. 254,308; Apr. 3. Class 23.
Spray Enamel Company, Inc., The, New York, N. Y. Varnish, paint, or lacquer. 243,565; Apr. 3. Class 16.
Stanard Tilton Milling Company, St. Louis, Mo. Wheat flour. 258,962; Apr. 3. Class 46.
Stroh Products Company, The, Detroit, Mich. Malt syrup. 257,454; Apr. 3. Class 46.
Supreme Malt Products Co. (See Perlmuter, Kermit.)
Tablet & Ticket Co., The, Chicago, Ill. Directory boards. 261,083; Apr. 3. Class 50.
Tacoma Grain Company, Tacoma, Wash. Wheat flour. 260,700; Apr. 3. Class 46.
Tension Envelope Co. Inc., Brooklyn, N. Y. Mailing envelopes of the clasp type. 261,536; Apr. 3. Class 37.
Teske, Karl P., doing business as Teske Milling Company, Davenport, Iowa. Laying mash, scratch grains, chick grains, etc. 259,978; Apr. 3. Class 46.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 259,931; Apr. 3. Class 2.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 259,933; Apr. 3. Class 2.
Union Metal Manufacturing Company, The, Canton, Ohio. Metal buildings and metal columns for building purposes. 259,934; Apr. 3. Class 12.
Union Miniere du Haut Katanga, Brussels, Belgium. Electrolytic copper of various forms. 255,282; Apr. 3. Class 14.
United States Foil Co., Louisville, Ky. Metallic foil. 256,697; Apr. 3. Class 14.
U. S. Industrial Alcohol Co., New York, N. Y. Hydrometers. 260,363; Apr. 3. Class 26.
Universal Permanent Wave Machine Co., Chicago, Ill. Hair-waving pads. 259,981; Apr. 3. Class 44.
Usem Company, New York, N. Y. Electric bells, push buttons, connecting devices, etc. 258,103; Apr. 3. Class 21.
Vantine, A. A., & Co., Inc., New York, N. Y. Toilet articles and beauty preparations. 256,594; Apr. 3. Class 6.
Vegetable Oil Products Company, Los Angeles, Calif. Tallow substitute for use in the manufacture of soap. 229,311; Apr. 3. Class 4.
Vendometer Corporation, New York, N. Y. Vending machines. 261,407–8; Apr. 3. Class 23.
Vestal Chemical Co., St. Louis, Mo. Liquid soap. 261,469; Apr. 3. Class 4.
Wabash Chemical & Baking Powder Co., Wabash, Ind. Water softener. 261,539; Apr. 3. Class 6.
Wander & Kaufman, Inc., New York, N. Y. Platinum mountings. 260,151; Apr. 3. Class 28.
Warwick Mills, Centerville, R. I., and Boston, Mass. Two-ply cotton-yarn marquisette. 234,600; Apr. 3. Class 42.
Weart, Schmale & Newbauer Inc., doing business as Weart & Schmale, San Francisco, Calif. Canned fruits. 242,261; Apr. 3. Class 46.
Wechter, S., Company, Chicago, Ill. Finger rings. 260,366; Apr. 3. Class 28.
Weill & Callman, New York, N. Y. Silk piece goods. 258,155; Apr. 3. Class 42.
Weiser, William, New York, N. Y. Mountings for pins, rings, etc. 260,154; Apr. 3.
Whisenant, John W., Los Gatos, Calif. Frozen bananas. 259,605; Apr. 3. Class 46.
White Cross Cream Co. Inc., Cleveland, Ohio. Face cream, powders, clay pack, etc. 252,631; Apr. 3. Class 6.
Whitman, Stephen F., & Son, Inc., doing business as Whitman's, Philadelphia, Pa. Candy. 260,704; Apr. 3. Class 46.
Wilder & Company, Chicago, Ill. Sole leather. 261,089; Apr. 3. Class 1.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving sticks. 256,273; Apr. 3. Class 4.
Winship, W. W., & Sons, Inc., Utica, N. Y. Wardrobe trunks, hat boxes, etc. 256,032; Apr. 3. Class 3.
Woolwine Metal Products Company, Los Angeles, Calif. Air-tight heaters and ovens. 256,556; Apr. 3. Class 34.
Worth, Societe Anonyme, Paris, France. Soaps. 260,705; Apr. 3. Class 4.
Young-Quinlan Company, The, Minneapolis, Minn. Compacts, perfumes, toilet water, etc. 235,365; Apr. 3. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Chicago Norfolk Western Coal Company. 240,726; Apr. 3.
Coal. B C. Dudley Coal Company. 240,721; Apr. 3.
Coal. Great Valley Anthracite Corporation. 240,676; Apr. 3; Serial No. 257,476; published Jan. 10, 1928.
Compositions in raw or partly-prepared condition. Celanese Corporation of America. 240,681; Apr. 3; Serial No. 255,961; published Jan. 17, 1928.
India rubber, india-rubber latex, etc. Safety Glass and Xetal Products, Limited. 240,583; Apr. 3; Serial No. 249,929; published Jan. 17, 1928.
Leather. Van Tassel Company. 240,699; Apr. 3; Serial No. 257,459; published Jan. 17, 1928.
Products of the coal mines and coke ovens. White Brothers. 240,609; Apr. 3; Serial No. 251,640; published Jan. 3, 1928.
Rubber and rubber crepe, Crude. Charles E. Wood, Incorporated. 240,639; Apr. 3; Serial No. 256,893; published Jan. 17, 1928.
Rubber latex, Vulcanized. W. MacPherson. 240,652; Apr. 3; Serial No. 256,258; published Jan. 10, 1928.
Skins, Chamois. Belknap Hardware & Manufacturing Company. 240,581; Apr. 3; Serial No. 249,695; published Jan. 10, 1928.
Timber, logs. Otis, McAllister & Co. 240,685; Apr. 3; Serial No. 255,396; published Jan. 3, 1928.

CLASS 2.

Cans, Emergency fuel. Macomb Manufacturing Company. 240,695; Apr. 3; Serial No. 253,904; published Dec. 6, 1927.
Cans, pails, buckets, etc. Belknap Hardware & Manufacturing Company. 240,579; Apr. 3; Serial No. 249,259; published Jan. 24, 1928.

CLASS 3.

Harness parts. North & Judd Manufacturing Company. 70,139; renewed Aug. 4, 1928.
Trunks, bags, cases, etc. J. C. Penny Company. 240,627; Apr. 3; Serial No. 258,590; published Jan. 24, 1928.

CLASS 4.

Abrasive materials and sharpening stones. Simmons Hardware Company. 70,180; renewed Aug. 11, 1928.
Hones, oilstones, and whetstones. S. R. Droescher. 70,032; renewed July 28, 1928.

CLASS 5.

Glue. Swift and Company. 240,722; Apr. 3.
Gums, sizings, pastes, etc., Adhesive. Borden & Remington Co. 240,649; Apr. 3; Serial No. 256,392; published Jan. 24, 1928.

CLASS 6.

Antiseptic mouth wash. Baton Rouge Dental Chemical Co. 240,624; Apr. 3; Serial No. 258,791; published Jan. 24, 1928.
Antiseptic mouth wash and dental lotion. S. L. Quitt. 240,630; Apr. 3; Serial No. 258,289; published Jan. 24, 1928.
Antiseptic tablets. Temmler Werke Vereinigte Chemische Fabriken Hermann Temmler. 240,651; Apr. 3; Serial No. 256,314; published Jan. 24, 1928.
Bacteriological preparations. Bakteriologisk Laboratorium, Neumann & Co. i Aalborg. 69,723; renewed June 30, 1928.
Chemical solution. Three-M Manufacturing Company. 240,617; Apr. 3; Serial No. 238,753; published Jan. 24, 1928.
Cleaning compound, Sink-trap. D. A. Berger. 240,660; Apr. 3; Serial No. 257,958; published Jan. 24, 1928.
Cream and pomades, Cold. Vereinigte Chemische Werke Aktiengesellschaft. 67,899; renewed Feb. 25, 1928.
Dyes. Wells & Richardson Company. 68,962–3; renewed May 12, 1928.
Hairdressing. J. F. Katz. 240,682; Apr. 3; Serial No. 255,851; published Jan. 24, 1928.
Hairdressing. M. Nechtow. 240,648; Apr. 3; Serial No. 256,635; published Jan. 24, 1928.
Insecticide and cleaner, Liquid. W. E. Newlin. 240,625; Apr. 3; Serial No. 258,765; published Jan. 24, 1928.
Insecticides. Strawsons. 67,880; renewed Feb. 25, 1928.
Liniment. Minard's Liniment Manufacturing Company. 67,620; renewed Feb. 11, 1928.
Liniment. Speed-O Liniment Co. 240,613; Apr. 3; Serial No. 252,362; published Dec. 6, 1927.
Medicinal powder for cure of headache. Daisy, Limited. 31,160; renewed Jan. 18, 1928.
Medicinal preparation. P. Beiersdorf & Co. Inc. 240,677; Apr. 3; Serial No. 257,464; published Jan. 24, 1928.
Medicine. Wendell Pharmacal Co. 67,608; renewed Feb. 11, 1928.
Oil, Hair. H. Bauer. 240,623; Apr. 3; Serial No. 258,792; published Jan. 24, 1928.
Perfumery and face tints. E. Wertheimer & Cie. 69,143; renewed May 19, 1928.
Perfumery, toilet powders, and face tints. E. Wertheimer & Cie. 69,145; renewed May 19, 1928.
Perfumes and toilet water. Isabey-Paris-Inc. 240,647; Apr. 3; Serial No. 256,648; published Jan. 24, 1928.
Plastic preparation. Knowlton Danderine Co. 69,135; renewed May 19, 1928.
Powder, Face. Isabey-Paris-Inc. 240,620; Apr. 3; Serial No. 256,647; published Jan. 24, 1928.
Preparation of magnesia. Charles H. Phillips Chemical Company. 46,225; renewed Sept. 12, 1925.
Preparations for the treatment of diarrhea, colic, etc., general tonic, liniments, etc. W. W. Travis Company. 240,724; Apr. 3.
Talcum powder. Talcum Puff Company. 67,368; renewed Jan. 28, 1928.
Tonic and system purifier. E. P. Read. 240,618; Apr. 3; Serial No. 239,062; published Jan. 24, 1928.
Tooth powders and pastes. L. E. V. Rhein. 69,160; renewed May 19, 1928.

CLASS 12.

Bituminous material. Barber Asphalt Company. 240,637; Apr. 3; Serial No. 256,992; published Jan. 3, 1928.
Brick. Pacific Clay Products. 240,671; Apr. 3; Serial No. 257,697; published Jan. 17, 1928.
Brick and fire-clay tile, etc., Fire. Denver Fire Clay Company. 240,656; Apr. 3; Serial No. 257,003; published Jan. 3, 1928.
Brick and fire-clay tile, Fire. Denver Fire Clay Company. 240,712; Apr. 3; Serial No. 257,151; published Jan. 3, 1928.
Brick and tile. Denver Fire Clay Company. 240,711; Apr. 3; Serial No. 257,152; published Jan. 10, 1928.
Bricks, Building. Finzer Brothers Clay Company. 240,697; Apr. 3; Serial No. 253,235; published Jan. 10, 1928.
Building materials. Standard Plastering Systems, Inc. 240,619; Apr. 3; Serial No. 239,204; published Jan. 10, 1928.
Cinder concrete building blocks, bricks, and tiles. National Building Units Corporation. 240,690; Apr. 3; Serial No. 255,193; published Jan. 10, 1928.
Lime. Brewer & Company. 240,636; Apr. 3; Serial No. 256,998; published Jan. 3, 1928.
Mineral material. C. E. Ramsden. 240,612; Apr. 3; Serial No. 252,237; published Jan. 3, 1928.
Paving, roofing, and building asphalt, asphalt filler, etc. Asphalt Products Company. 240,604; Apr. 3; Serial No. 250,290; published Jan. 17, 1928.
Pipe and building blocks. Logan Clay Products Co. 240,696; Apr. 3; Serial No. 253,811; published Jan. 3, 1928.
Plaster. Grand Rapids Plaster Company. 240,605; Apr. 3; Serial No. 250,339; published Jan. 17, 1928.
Plaster weatherproof coating for insulation. Johns-Manville Corporation. 240,713; Apr. 3; Serial No. 257,101; published Jan. 10, 1928.
Shingles, Asphalt. Ford Roofing Products Company. 240,687; Apr. 3; Serial No. 255,376; published Jan. 17, 1928.
Shingles, Wooden. Blue Ribbon Products Co. 240,645; Apr. 3; Serial No. 256,711; published Jan. 10, 1928.
Weather strips for doors. Chamberlin Metal Weather Strip Company. 240,707–8; Apr. 3; Serial Nos. 257,277–8; published Jan. 10, 1928.

CLASS 13.

Bathroom fixtures. Utility Manufacturing Company. 240,594; Apr. 3; Serial No. 258,367; published Jan. 24, 1928.
Drainers, Dish. Utility Manufacturing Company Inc. 240,595; Apr. 3; Serial No. 258,366; published Jan. 24, 1928.
Fasteners, Metal covers or heads for. J. Berge. 240,684; Apr. 3; Serial No. 255,431; published Jan. 24, 1928.
Faucets and cocks, Brass and malleable-metal. Detroit Brass & Malleable Works. 240,576; Apr. 3; Serial No. 248,288; published Jan. 24, 1928.
Key chains, coiled-wire curtain holders, key hooks, and hasps. Boye Needle Co. 240,727; Apr. 3.
Nails and anchors. W. O. Isaacson. 240,567; Apr. 3; Serial No. 239,935; published Jan. 24, 1928.
Pipe, pipe fittings, bolts, etc., Metal. Mueller Brass Co. 240,686; Apr. 3; Serial No. 255,393; published Jan. 24, 1928.
Pipes and fittings, Cast-metal soil. Abendroth Brothers. 68,966; renewed May 12, 1928.
Slides and wheels for furniture casters. Bassick Company. 240,590; Apr. 3; Serial No. 258,448; published Jan. 24, 1928.
Soap dishes, Double-faucet. Utility Manufacturing Company Inc. 240,592; Apr. 3; Serial No. 258,369; published Jan. 24, 1928.
Sponge baskets, combination sponge baskets and soap trays, etc. Utility Manufacturing Company Inc. 240,593; Apr. 3; Serial No. 258,368; published Jan. 24, 1928.
Tanks, Septic. Standard School Company. 240,597; Apr. 3; Serial No. 258,047; published Jan. 24, 1928.

CLASS 16.

Cleaner and polish for varnished and lacquered surface. L. Schmidt. 240,655; Apr. 3; Serial No. 257,035; published Jan. 17, 1928.
Cleaning and polishing preparations. Reckitt & Sons, Limited. 240,662; Apr. 3; Serial No. 257,938; published Jan. 17, 1928.
Paint. C. A. Woolsey Paint & Color Co. 69,989; renewed July 21, 1928.

CLASS 17.

Cigarettes. Societe Anonyme Le Khedive. 68,787–8; renewed Apr. 28, 1928.
Cigars. Thomas E. Brooks & Company. 240,689; Apr. 3; Serial No. 255,226; published Jan. 24, 1928.
Cigars. S. S. Speier. 68,509; renewed Apr. 14, 1928.
Cigars and cigarettes. R. J. Seidenberg Co. 240,661; Apr. 3; Serial No. 257,940; published Jan. 24, 1928.
Cigars, cigarettes, and smoking tobacco. Leavitt & Peirce, Incorporated. 69,668; renewed June 30, 1928.
Cigars, cigarettes, etc. Cifuentes Pego y Compañia. 240,574; Apr. 3; Serial No. 246,594; published Jan. 24, 1928.
Tobacco, cigars, cigarettes, etc., Smoking. A. Freeman. 240,667–8; Apr. 3; Serial Nos. 257,732–3; published Jan. 24, 1928.

CLASS 19.

Railway supplies. Railway Steel Spring Company. 68,223; renewed Mar. 17, 1928.
Sled propulsion attachments for automobiles. Snow Flyer Corporation. 240,703; Apr. 3; Serial No. 257,387; published Jan. 24, 1928.
Truck bolsters, Car. Pressed Steel Car Company. 67,604; renewed Feb. 11, 1928.

CLASS 22.

Game, Card. W. J. Roche. 62,595; renewed May 14, 1927.

CLASS 23.

Beater, Mechanical. Henderson Corporation. 240,643; Apr. 3; Serial No. 256,724; published Jan. 24, 1928.
Clubs, rammer rods, and handles for axes, hatchets, etc. Hartwell Brothers. 240,683; Apr. 3; Serial No. 255,849; published Jan. 24, 1928.
Crushers, shredders, breakers, etc. Gruendler Patent Crusher and Pulverizer Company. 240,680; Apr. 3, Serial No. 255,986; published Jan. 24, 1928.
Drills, reamers, taps, and the like, Twist. Cleveland Twist Drill Co. 31,414; renewed Mar. 8, 1928.
Horns or alarms, Signal. Lovell-McConnell Manufacturing Company. 69,913; renewed July 14, 1928.
Printing plates, Apparatus for making stereotype. Wood Newspaper Machinery Corporation. 240,675; Apr. 3; Serial No. 257,497; published Jan. 24, 1928.
Pumps, Circulating. Janette Manufacturing Company. 240,664; Apr. 3; Serial No. 257,874; published Jan. 24, 1928.
Tools, Certain. Butler Brothers. 70,073; renewed July 28, 1928.

CLASS 24.

Clothespins. George W. Simmons Corporation. 240,596; Apr. 3; Serial No. 258,297; published Jan. 24, 1928.
Hydroextractors for use in laundries and other arts. Fletcher Works. 240,659; Apr. 3; Serial No. 257,975; published Jan. 24, 1928.

CLASS 25.

Locks. Yale & Towne Manufacturing Company. 31,843; renewed Aug. 2, 1928.

CLASS 26.

Photograph apparatus or machines. Posograph, Inc. 240,693; Apr. 3; Serial No. 254,510; published Jan. 24, 1928.
Regulators, Heat or temperature. Fulton Company. 68,046; renewed Mar. 3, 1928.

CLASS 28.

Chains for personal adornment. D. F. Briggs Co. 68,029; renewed Mar. 3, 1928.

CLASS 32.

Cabinets, Wood. Aguilar. 240,693; Apr. 3; Serial No. 257,462; published Jan. 24, 1928.
Furniture. Fort Smith Furniture Manufacturers' Company. 240,688; Apr. 3; Serial No. 255,239; published Jan. 24, 1928.
Radiocabinets, loud-speaker cabinets, etc. Splitdorf Radio Corporation. 240,669; Apr. 3; Serial No. 257,711; published Jan. 24, 1928.
Stands, Smokers'. Tubular Products Company. 240,673; Apr. 3; Serial No. 257,608; published Jan. 24, 1928.

CLASS 34.

Heating, circulating, and ventilating systems. P. H. MaGirl Foundry & Furnace Works. 240,642; Apr. 3; Serial No. 256,785; published Jan. 24, 1928.
Lighters, Cigar. Henry Lederer & Bro. Inc. 240,589; Apr. 3; Serial No. 258,474; published Jan. 24, 1928.
Stove, Heating. Hardwick Stove Company. 240,674; Apr. 3; Serial No. 257,579; published Jan. 24, 1928.

CLASS 35.

Cord patches, reliners, lace-on boots, etc. Leo Meyer Company. 240,718; Apr. 3.
Hose, Linen. Chas. Niedner's Sons Company. 69,287–8; renewed June 2, 1928.
Rubber patch. Dixie Manufacturing Co. 240,615; Apr. 3; Serial No. 220,451; published Jan. 24, 1928.

CLASS 36.

Pianos and organs. M. Schulz Co. 61,301; renewed Mar. 12, 1927.

CLASS 37.

Files, Document. Globe-Wernicke Company. 69,605; renewed June 23, 1928.
Millboard. Harvey & Outerbridge. 69,252; renewed June 2, 1928.
Paper, tissue paper, paper towels, etc., Wrapping. H. J. Grey. 240,657; Apr. 3; Serial No. 258,119; published Jan. 10, 1928.

CLASS 38.

Journal, Trade. Robert H. McCready. 70,206; renewed Aug. 11, 1928.
Periodical. Jewelers Circular Pub. Co. 67,435; renewed Feb. 4, 1928.

CLASS 39.

Boots and shoes. Hebert Shoe Co. 240,584; Apr. 3; Serial No. 257,981; published Jan. 17, 1928.
Boots and shoes. Harry M. Husk Company. 240,634; Apr. 3; Serial No. 258,027; published Jan. 17, 1928.
Boots, shoes, and slippers. Munroe Shoe Company. 240,628; Apr. 3; Serial No. 258,584; published Jan. 17, 1928.
Boots, shoes, and slippers, Leather. Stetson Shoe Company. 69,983; renewed July 21, 1928.
Caps. Ely & Walker Dry Goods Co. 240,631; Apr. 3; Serial No. 258,171; published Jan. 17, 1928.
Caps. Fit All Cap Co. 240,635; Apr. 3; Serial No. 258,021; published Jan. 17, 1928.
Caps and hats, bathing caps, etc., Rubber. J. Stein. 240,692; Apr. 3; Serial No. 254,687; published Jan. 17, 1928.
Cloth and apron, Barber's hair. Hairtite Barber Apron Co. 240,719; Apr. 3.
Clothing. C. Solomon. 240,601; Apr. 3; Serial No. 258,196; published Jan. 17, 1928.
Coats. Keller-Kohn Company. 240,606–7; Apr. 3; Serial Nos. 250,549–50; published Jan. 17, 1928.
Coats and dresses. Ben Ginsburg Co. 240,646; Apr. 3; Serial No. 256,669; published Jan. 17, 1928.
Coats and sport coats, etc., Ladies' street. H. B. Dryzer. 240,614; Apr. 3; Serial No. 252,694; published Jan. 17, 1928.
Coats and suits, Women's and misses'. Gamson & Company. 240,602; Apr. 3; Serial No. 258,411; published Jan. 17, 1928.
Coats, suits, and dresses. Kenmoor Sportswear, Inc. 240,666; Apr. 3; Serial No. 257,801; published Jan. 17, 1928.
Dresses. Oppenheim, Collins & Co. 240,598; Apr. 3; Serial No. 258,036; published Jan. 17, 1928.
Gloves. David & Blum, Inc. 240,653; Apr. 3; Serial No. 256,101; published Jan. 17, 1928.
Gloves, Leather. David & Blum, Inc. 240,638; Apr. 3; Serial No. 256,915; published Jan. 17, 1928.
Hats. A. Rubin. 240,572; Apr. 3; Serial No. 246,000; published Jan. 17, 1928.
Heels, taps, and soles, Rubber. Taunton Rubber Company. 240,633; Apr. 3; Serial No. 258,048; published Jan. 17, 1928.
Hosiery. J. Diamond. 240,575; Apr. 3; Serial No. 246,891; published Jan. 17, 1928.
Hosiery. Reading Full Fashioned Hosiery Mills, Inc. 240,600; Apr. 3; Serial No. 258,290; published Jan. 17, 1928.
Hosiery, underwear, etc. May Hosiery Mills Inc. 240,641; Apr. 3; Serial No. 256,827; published Jan. 17, 1928.
Knickerbockers, trousers, and skirts. Stadler & Stadler. 240,702; Apr. 3; Serial No. 257,389; published Jan. 17, 1928.
Overalls, jumpers, pants, etc. MacIntyre-Fishback Mfg. Co. 240,569; Apr. 3; Serial No. 244,166; published Jan. 17, 1928.
Pockets in clothing. P. Schertl. 240,691; Apr. 3; Serial No. 254,727; published Jan. 17, 1928.
Raincoats, Men's. C. H. Place. 240,710; Apr. 3; Serial No. 257,194; published Jan. 17, 1928.
Shoe soles. Klein's Rapid Shoe Repair Co. Inc. 240,640; Apr. 3; Serial No. 256,875; published Jan. 17, 1928.
Shoes. F. G. Delbon. 240,610; Apr. 3; Serial No. 251,721; published Jan. 17, 1928.
Shoes and overshoes. I. Miller & Sons, Inc. 240,678; Apr. 3; Serial No. 256,006; published Jan. 17, 1928.
Shoes, slippers, etc. I. Miller & Sons, Inc. 240,679; Apr. 3; Serial No. 256,005; published Jan. 17, 1928.
Stockings and socks, Stump. Sterling Stocking Co. 240,717; Apr. 3.
Suits, bloomers, middies, etc. Lafayette Manufacturing Co. 240,577; Apr. 3; Serial No. 248,412; published Jan. 17, 1928.
Suits, Men's. L & M System Clothes, Inc. 240,716; Apr. 3.
Suits, overcoats, topcoats, and tuxedos, Men's. Wm. Filene's Sons Company. 240,725; Apr. 3.
Underwear. American Underwear Manufacturing Co. Inc. 240,599; Apr. 3; Serial No. 258,013; published Jan. 17, 1928.
Underwear. Winship, Bolt & Co. 240,570; Apr. 3; Serial No. 232,980; published Jan. 17, 1928.
Underwear, Knit silk. Julius Kayser & Co. 70,107; renewed July 28, 1928.
Underwear, Men's knitted. Van Dyke Knitting Company. 240,603; Apr. 3; Serial No. 258,370; published Jan. 17, 1928.
Union suits and sweaters, Knitted. Levi Strauss and Company. 240,571; Apr. 3; Serial No. 245,855; published Dec. 6, 1927.
Waistcoats. George W. Heller, Inc. 240,672; Apr. 3; Serial No. 257,626; published Jan. 17, 1928.

CLASS 42.

Cotton duck. Mount Vernon-Woodberry Cotton Duck Company. 68,575; renewed Apr. 14, 1928.
Cotton piece goods, Bleached and unbleached. Pepperell Manufacturing Co. 68,577–8; renewed Apr. 14, 1928.
Cotton piece goods, Bleached and unbleached. Pepperell Manufacturing Co. 68,700–1; renewed Apr. 21, 1928.
Ribbons and ribbonzene in the piece or bolt, Tinsel. Lees Textile Co. 240,723; Apr. 3.

CLASS 43.

Yarn, Combed. Kilburn Mill. 70,372; renewed Aug. 25, 1928.

CLASS 45.

Beverages. A. L. Anderson. 240,663; Apr. 3; Serial No. 257,912; published Jan. 24, 1928.

Ginger ale. M. F. Gonsalves. 240,650; Apr. 3; Serial No. 256,341; published Jan. 24, 1928.
Ginger ale. W. T. Wagner's Sons. 68,737; renewed Apr. 28, 1928.
Grape juice. Pleasant Valley Wine Company. 240,568; Apr. 3; Serial No. 242,614; published Jan. 24, 1928.
Lemonade, Seltzer water and fruit juices. Deutsche Sl'-Sl' Werke mit beschrünkter Haftung. 69,805; renewed July 7, 1928.
Waters, Table. W. T. Wagner's Sons. 69,638; renewed June 23, 1928.

CLASS 46.

Butter. Jobbing Association—Farmers Educational and Cooperative Union of America—Kansas Branch. 240,611; Apr. 3; Serial No. 252,046; published Jan. 24, 1928.
Butter, milk, cheese, and cream. J. L. Humphrey, jr. 31,852; renewed Aug. 9, 1928.
Candy. John O. Gilbert Chocolate Company. 240,586; Apr. 3; Serial No. 253,742; published Jan. 24, 1928.
Candy bars, Nut-. H. B. Griner. 240,658; Apr. 3; Serial No. 257,979; published Jan. 24, 1928.
Canned fish. Schwabacher Bros. & Co. Incorporated. 67,558; renewed Feb. 11, 1928.
Canned fish. Wm. H. Stanley, Inc. 240,665; Apr. 3; Serial No. 257,820; published Jan. 24, 1928.
Canned fruits packed in wine and sugar sirup and in water. California Canneries Company. 240,700–1; Apr. 3; Serial Nos. 257,400–1; published Jan. 24, 1928.
Canned vegetables. J. M. Paver Company. 240,694; Apr. 3; Serial No. 254,421; published Jan. 17, 1928.
Canned vegetables and berries. J. M. Paver Company. 240,578; Apr. 3; Serial No. 248,859; published Jan. 24, 1928.
Cereal breakfast foods. Reid, Murdoch & Co. 240,591; Apr. 3; Serial No. 258,428; published Jan. 24, 1928.
Coffee. Black Hawk Coffee & Spice Company. 67,561–2; renewed Feb. 11, 1928.
Coffee. Zander & Company. 240,705; Apr. 3; Serial No. 257,330; published Jan. 24, 1928.
Coffee made of grain, Substitutes for. Genesee Pure Food Co. 31,172; renewed Jan. 25, 1928.
Confection, Liquid-filled chewing. W. & F. Mfg. Co. 240,573; Apr. 3; Serial No. 246,372; published Jan. 24, 1928.
Extract, Malt. American Diamalt Company. 70,286; renewed Aug. 11, 1928.
Fish meal for dog feeding. C. M. Struven. 240,654; Apr. 3; Serial No. 256,020; published Jan. 24, 1928.
Flour. J. Allen Smith & Company. 240,629; Apr. 3; Serial No. 258,300; published Jan. 24, 1928.
Flour, Wheat. Kansas Milling Company. 70,051; renewed July 28, 1928.
Flour, Wheat. Larabee Flour Mills Company. 240,585; Apr. 3; Serial No. 258,817; published Jan. 24, 1928.
Flour, Wheat. Security Flour Mills Company. 240,670; Apr. 3; Serial No. 257,707; published Jan. 24, 1928.
Foods. Frank Tea & Spice Co. 69,275; renewed June 2, 1928.
Fruits, Fresh citrus. Rocky Hill Corporation. 240,706; Apr. 3; Serial No. 257,314; published Jan. 24, 1928.
Gum, Chewing. L. P. Larson Jr. Company. 240,626; Apr. 3; Serial No. 258,753; published Jan. 24, 1928.
Hams, sliced ham, rye bread, etc. Witt's Market House. 240,616; Apr. 3; Serial No. 226,088; published Nov. 29, 1927.
Marmalade, Orange. R. S. Ford. 240,632; Apr. 3; Serial No. 258,075; published Jan. 24, 1928.
Middlings, Wheat. Monroe Milling Company. 240,622; Apr. 3; Serial No. 258,824; published Jan. 24, 1928.
Milk, Condensed. Nestlé and Anglo-Swiss Condensed Milk Co. 69,321–2; renewed June 2, 1928.
Oleomargarine. McCann & Co. 240,587; Apr. 3; Serial No. 258,642; published Jan. 24, 1928.
Oleomargarine. St. Louis Independent Packing Company. 240,621; Apr. 3; Serial No. 258,831; published Jan. 24, 1928.
Oranges and lemons. Oxnard Citrus Association. 240,588; Apr. 3; Serial No. 258,538; published Jan. 24, 1928.
Pickles. Fanning Bread and Butter Pickle Company. 240,709; Apr. 3; Serial No. 257,264; published Jan. 24, 1928.
Preparation to improve the color, aroma, and flavor of coffee. Pfeiffer & Diller G. m. b. H. 68,656; renewed Apr. 21, 1928.
Syrup, Malt. Kroger Grocery & Baking Co. 240,720; Apr. 3.
Walnuts. L. Groobman. 240,715; Apr. 3; Serial No. 257,062; published Jan. 24, 1928.

CLASS 47.

Wine, Champagne. Societe Vinicole De Champagne. 240,714; Apr. 3; Serial No. 257,084; published Jan. 24, 1928.

CLASS 49.

Brandy, Corn. H. C. König. 69,705; renewed June 30, 1928.

CLASS 50.

Artificial flowers, table pad, figurines, and Dresden sets. Chas. A. Stevens & Bros. 240,608; Apr. 3; Serial No. 251,582; published Jan. 3, 1928.
Incubators, brooders, and egg-turning trays. Belknap Hardware & Manufacturing Company. 240,580; Apr. 3; Serial No. 249,694; published Jan. 10, 1928.
Flycatchers. Julius Schmid, Inc. 240,704; Apr. 3; Serial No. 257,362; published Jan. 10, 1928.
Plaques. Kiddy Kraft Plak Co. 240,582; Apr. 3; Serial No. 249,731; published Jan. 3, 1928.
Slate blackboards, etc. Blue Ridge Quarries, Inc. 240,566; Apr. 3; Serial No. 239,571; published Jan. 10, 1928.
Treated fabrics for protective coverings. Eastern Finishing Works. 240,644; Apr. 3; Serial No. 256,719; published Jan. 3, 1928.

ALPHABETICAL LIST OF LABELS.

Beauty. For Evaporated Milk. Defiance Dairy Products Company. 33,764; Apr. 3.
Beckmeister. For Malt Syrup. B. Becker. 33,759; Apr. 3.
Bigosh Eye Wash. For Eye Lotion. Bigosh Eye Wash Co. 33,760; Apr. 3.
Blinky Blinx Tiddledy Winks. For a Game. Alderman Fairchild Co. 33,758; Apr. 3.
Captain Hop Across Junior. For a Game. Alderman Fairchild Co. 33,754; Apr. 3.
Chamberlin-Johnson-Dubose Company. For Boxes. Hongue-Sprague Corporation. 33,771; Apr. 3.
Chess. For Fresh Oranges. M. W. Chess. 33,761; Apr. 3.
Color Brite. For Compound for Preserving the Colors of Wash Fabrics. S. C. Dexter. 33,766; Apr. 3.
Decker's Town Club. For Ham. Jacob E. Decker & Sons. 33,762; Apr. 3.
Decker's Town Club. For Bacon. Jacob E. Decker & Sons. 33,763; Apr. 3.
Delicious Bacon Heart's Delight Farm. For Bacon. W. H. Miner. 33,785; Apr. 3.
Ed. Kemp, Golden Glow Farm Fudge. For Golden Glow Farm Fudge. E. F. Kemp. 33,773; Apr. 3.
E. F. Kemp, Salted Almonds. For Salted Almonds. E. F. Kemp. 33,774; Apr. 3.
E. F. Kemp, Salted Cashew Nuts. For Salted Cashew Nuts. E. F. Kemp. 33,776; Apr. 3.
E. F. Kemp, Salted Mixed Nuts. For Salted Mixed Nuts. E. F. Kemp. 33,777; Apr. 3.
E. F. Kemp, Salted Pecans. For Salted Pecans. E. F. Kemp. 33,775; Apr. 3.
El Rey. For Gopher Poison. Stover-Gibbs & Winsel. 33,790; Apr. 3.
Gold'n White Eggs. For Eggs. Poultry Producers of Central California. 33,788; Apr. 3.
Hollywood Stars Mask of Minerals. For Facial Cream. A. R. Lee. 33,779; Apr. 3.
Humpty-Dumpty Eggs. For Eggs. Poultry Producers of Central California. 33,787; Apr. 3.
Jolly Cop Ring Toss. For a Game. Alderman Fairchild Co. 33,753; Apr. 3.
Kerrison's. For Boxes. Hoague-Sprague Corporation. 33,769; Apr. 3.
Kick-O-Mato. For a Tomato Sauce. Kick-O-Mato Incorporated. 33,778; Apr. 3.
Lindy. For Candy. Lindy Candy Company. 33,782; Apr. 3.
Madame Ida Von Lindenau's. For Hair Tonic. Madame Ida Von Lindenau. 33,783; Apr. 3.
Noah's Ark. For a Game. Alderman Fairchild Co. 33,756; Apr. 3.
Paula. For Lemons. Limoneira Company. 33,781; Apr. 3.
Plantaide Cut Worm and Gopher Repellant. For a Medicinal Preparation for Treating Seed Corn. I. McEwen. 33,784; Apr. 3.
Plunkett's Compound Laxative Bromo Aspiron Tablets. For Compound Laxative Bromo Aspiron Tablets. P. E. Plunkett. 33,786; Apr. 3.
Pop and Plop. For a Game. Alderman Fairchild Co. 33,757; Apr. 3.
Santa. For Lemons. Limoneira Company. 33,780; Apr. 3.
Style Without Extravagance. For Boxes. Hoague Sprague Corporation. 33,772; Apr. 3.
Sunnyland. For Syrup. Roddenbery Bros. 33,789; Apr. 3.
Sunshine. For Evaporated Milk. Defiance Dairy Products Company. 33,765; Apr. 3.
The Capital Cities Air Derby. For a Game. Alderman Fairchild Co. 33,755; Apr. 3.

The Dayton Company. For Boxes. Hoague-Sprague Corporation. 33,767; Apr. 3.
The Edwards Store. For Boxes. Hoague-Sprague Corporation. 33,768; Apr. 3.
The House That Saves You Money. For Boxes. Hoague-Sprague Corporation. 33,770; Apr. 3.
Tostko. For Prepared Cocoa. J. F. Abbott. 33,752; Apr. 3.
Winco. For Shoe Laces. J. Weingarten. 33,791; Apr. 3.
Wrigley's Dulce 16—Chicle Rosado. For Chewing Gum. Wm. Wrigley Jr. Company. 33,792–4; Apr. 3.

ALPHABETICAL LIST OF PRINTS.

Ant Killer No. 9 is the Envelope Kind. For Ant Killer. W. C. McKee. 10,750; Apr. 3.
Camel Stands Alone—Unusual in Every Way. For Cigarettes. R. J. Reynolds Tobacco Company. 10,764; Apr. 3.
Corday Perfumes For Exquisite Women. For Perfumes and Lipsticks. Lionel Trading Co. Inc. 10,749; Apr. 3.
Does He Smoke? Well, Then, That's Settled. For Tobacco. R. J. Reynolds Tobacco Company. 10,767; Apr. 3.
For a Perfect Lunch Drink Cocoa-Crush. For Nonalcoholic, Noncereal, Maltless Beverage. Orange-Crush Company. 10,752; Apr. 3.
Go Get a Pipe! For Tobacco. R. J. Reynolds Tobacco Company. 10,759; Apr. 3.
Hickman's Silver Birch Chewing Gum. For Chewing Gum. R. H. Hickman Company. 10,746; Apr. 3.
I Know My Home-Rolled Cigarettes. For Tobacco. R. J. Reynolds Tobacco Company. 10,766; Apr. 3.
I'll Back P. A. Against Them All. For Tobacco. R. J. Reynolds Tobacco Company. 10,762; Apr. 3.
In So Intimate and Personal A Gift as The Engagement Ring. For Jewelry. Black, Starr & Frost. 10,741; Apr. 3.
Kolynos Dental Cream. For Dental Cream. Kolynos Company. 10,748; Apr. 3.
Me—I Like a Pipe. For Tobacco. R. J. Reynolds Tobacco Company. 10,758; Apr. 3.
More Lovable—More Difficult to Manage Every Day. For Wheat Breakfast Food. Cream of Wheat Co. 10,743; Apr. 3.
Nothing Like a Pipe, I Say. For Tobacco. R. J. Reynolds Tobacco Company. 10,761; Apr. 3.
P. A. Suits My Taste Like Nobody's Business. For Tobacco. R. J. Reynolds Tobacco Company. 10,754; Apr. 3.
P. A. Suits My Taste Like Nobody's Business. For Tobacco. R. J. Reynolds Tobacco Company. 10,760; Apr. 3.
Progress. For Vehicle Bumpers. C. G. Spring & Bumper Company. 10,742; Apr. 3.
Quality Sent P. A. To The Head Of The Class. For Tobacco. R. J. Reynolds Tobacco Company. 10,755; Apr. 3.
R Grocer. For Grocery Products and Meats. National Grocer Company. 10,751; Apr. 3.
Rolling 'Em With P. A. is a Great Racket. For Tobacco. R. J. Reynolds Tobacco Company. 10,763; Apr. 3.
Servicised. For Construction Material, and Specifically Expansion Joints. A. C. Fischer. 10,745; Apr. 3.
The Sum-Total of Pipe-Joy. For Tobacco. R. J. Reynolds Tobacco Company. 10,756; Apr. 3.
They Say P. A. is the World's Largest Seller. For Tobacco. R. J. Reynolds Tobacco Company. 10,753; Apr. 3.
To Make a Man Happy at Christmas . . . and From Then on! R. J. Reynolds Tobacco Company. 10,765; Apr. 3.
Want a Bucket of Rain-Water? For Mel'O, a Water Softener. Hygienic Products Company. 10,747; Apr. 3.
Watch Me Roll a Great Cigarette. For Tobacco. R. J. Reynolds Tobacco Company. 10,757; Apr. 3.
You've Probably Been Wishing For This Very Thing. For Wheat Breakfast Food. Cream of Wheat Co. 10,744; Apr. 3.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Gustafson, Edwin A., assignor.)
A C Spark Plug Company. (See Helgeby, Ralph O., assignor.)
Abbott, Ransloe B., Reading, Pa. Insulated rail joint. 1,664,725; Apr. 3.
Abbott, William T., Cambridge, Mass. Individual tea bag. 1,665,080; Apr. 3.
Acker, Philip, Brooklyn, N. Y. Shade-supporting adapter for lamps. 1,664,843; Apr. 3.
Adde and Company. (See Ek, Emil, assignor.)
Adler, Henry A., New York, N. Y. Removable bridgework. 1,664,726; Apr. 3.
Agassiz, Lewis R. S., Vancouver, British Columbia, Canada. Paint-spraying machine. 1,664,803; Apr. 3.
Aglow, Harry, New York, N. Y., assignor to The New York Lighting Fixture Mfg. Co. Lighting-fixture body or article of similar nature. Des. 74,815; Apr. 3.
Albers, August W., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Switch. 1,665,156; Apr. 3.
Aldrich, Lester K., Sidney, Ohio. Convertible oscillating rotary feeder. 1,664,960; Apr. 3.
Aldrich, Lester K., Sidney, Ohio. Convertible oscillating rotary feeder. 1,664,961; Apr. 3.
Aldridge, Blair G. (See Card, E. W., Aldridge, and Multer.)
Allen, George E., Buffalo, N. Y. Lantern. 1,664,447; Apr. 3.
Allen, George E., Buffalo, N. Y. Tool guard. 1,665,804; Apr. 3.
Amato, Peter, Lynn, Mass. Loud-speaker unit. 1,664,448; Apr. 3.
American Assembling Machine Company. (See Richards, Ernst R., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Magill, Donald G., assignor.)
American Chain Company. (See Pierce, Robert C., assignor.)
American Laundry Machinery Company, The. (See Colclough, William, assignor.)
American Optical Company. (See Boutelle, William H., assignor.)
American Optical Company. (See Gunning, William A., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Rolling Mill Company, The. (See Reinartz, L. F., and Nead, assignors.)
American Rolling Mill Company, The. (See Tytus, John B., assignor.)
American Telephone and Telegraph Company. (See Herman, Joseph, assignor.)
American Telephone and Telegraph Company. (See King, Robert W., assignor.)
American Telephone and Telegraph Company. (See Strieby, Maurice E., assignor.)
American Telephone and Telegraph Company. (See Watson, E. F., and Weaver, assignors.)
American Textile Company. (See Ball, Ben A., assignor.)
Amplitone Company. (See Wilson, James M., assignor.)
Anderson, James B., Portland, Oreg. Safety landing and takeoff device for aeroplanes. 1,664,844; Apr. 3.
Anderson, Samuel H., Seattle, Wash. Ground-speed meter. 1,664,395; Apr. 3.
Andrews, Leonard, Westminster, England. Valve mechanism for controlling the discharge of powdered material and sand from tanks or other receptacles. 1,665,081; Apr. 3.
Appleby, W. C. (See Waid, Calvin R., assignor.)
Arnolds, Werner, Porta Westfalen, Germany, assignor to F. H. Westerschulte, Chicago, Ill. Vehicle spring. 1,664,655; Apr. 3.
Arndt, Hermann, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany. Automatic section block system for railroads. 1,665,008; Apr. 3.
Aronson, Louis V., Newark, N. J. Changeable exhibitor. 1,664,962; Apr. 3.
Art Wire and Stamping Company. (See Wiberg, Peter E., assignor.)
Ash, Charles ... Royal Oak, Mich. Wheel structure. 1,664,765; Apr. 3.
Ashcroft, Robert E., Nucla, Colo. Wrench. 1,664,391; Apr. 3.
Aske, Leonard E., Duluth, Minn. Manifold heater. 1,664,727; Apr. 3.
Associated Oil Company. (See Hanna, G. Dallas, assignor.)
Atkins, E. C., & Company. (See Gommel, Dewey E., assignor.)
Atmospheric Nitrogen Corporation. (See Slade, R. E., and Parke, assignors.)
Atwell, Harold V., assignor to Standard Oil Company, Whiting, Ind. Liquid seal. 1,664,963; Apr. 3.
Automotive Maintenance Machinery Co. (See Wacker, Frederick G., assignor.)
Auvera, Hugo, Dresden, Germany, assignor to Mitchell, Woodbury Company, Boston, Mass. Plate or similar article. Des. 74,816; Apr. 3.
Bacon, Harry S. C., assignor to E. S. Edmondson Company, Philadelphia, Pa. Advertising device. 1,665,009; Apr. 3.
Bailey, David R., Sacramento, assignor to California Almond Growers Exchange, San Francisco, Calif. Salting apparatus. 1,664,474; Apr. 3.
Baker, Abraham. (See Reynolds, Robert O., assignor.)
Baker, Hugh J., Indianapolis, Ind. Beam hanger. 1,664,499; Apr. 3.
Baker, Roy C., Quincy, Mass. Bookbinding and producing the same. 1,665,049; Apr. 3.
Baldwin Chain & Mfg. Co. (See Klaucke, Hermann, assignor.)
Baldwin, James L., Chicago, Ill. Package elevator. 1,664,912; Apr. 3.
Ball, Albert P., assignor to Square D Company, Detroit, Mich. Switching device. 1,664,845; Apr. 3.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 74,817; Apr. 3.
Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Water, power, and speed control mechanism for concrete-mixing and similar machines. 1,665,050; Apr. 3.
Ballard, George L., assignor to Wildman Mfg. Co., Norristown, Pa. Knitted fabric and making the same. 1,664,805; Apr. 3.
Barbour, Perley E. (See Lyon, Harry, assignor.)
Barbour Welting Company. (See Lyon, Harry, assignor.)
Bardet, Edouard, New York, N. Y. Safety-razor-blade holder. 1,665,125; Apr. 3.
Barnes, Llewellyn T., assignor to The Gem Engineering Corporation, Hempstead, N. Y. Switching apparatus. 1,664,586; Apr. 3.
Barol, Hugo, Philadelphia, Pa. Lady's hat bag. 1,665,010; Apr. 3.
Barrett, George E., assignor to Lenher Engineering Company, New York, N. Y. Steering mechanism for vessels. 1,665,011; Apr. 3.
Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Testing taper holes. 1,664,535; Apr. 3.
Bartlett, C. O., & Snow Company, The. (See First, Mahlon E., assignor.)
Baruch, Alphons, Hamburg, Germany. Integral receiver for suspending toilet-paper rolls. 1,664,392; Apr. 3.
Bassett Metal Goods Company, The. (See Russ, John B., assignor.)
Bates, George T., assignor to Illinois Watch Case Company, Elgin, Ill. Catch for cases and the like. 1,664,500; Apr. 3.
Bauer, George J. (See Benham, E. M., and Bauer.)
Bausch and Lomb Optical Company. (See Sweeney, James A., assignor.)
Bechard, Joseph C., Fall River, Mass. Spiral rotary ship or similar vessel. 1,665,012; Apr. 3.
Becker, Joseph, Pittsburgh, Pa., assignor to The Koppers Company. Gas purification. 1,665,013; Apr. 3.
Beckworth, Otto Q., Los Angeles, Calif. Thermostatic current control. 1,665,014; Apr. 3.
Beech-Nut Packing Company. (See Howe, D. W., Pickett, and McBean, assignors.)
Behr, Allen, Brooklyn, N. Y. Sport shoe. 1,664,728; Apr. 3.
Beidler, George C., Rochester, N. Y. Photographing and developing apparatus. 1,664,729; Apr. 3.
Beidler, George C., Rochester, N. Y. Film-roll box and mounting. 1,664,730; Apr. 3.
Beidler, George C., Rochester, N. Y. Coil-film developer. 1,664,731; Apr. 3.
Belden Manufacturing Company. (See Wermine, Hugh H., assignor.)
Beloit Iron Works. (See Berry, Earl E., assignor.)
Bement, Newton S., Ann Arbor, Mich. Traffic light. 1,664,536; Apr. 3.

Bendix Brake Company. (See Kulick, Edward L., assignor.)

Bendix Brake Company, The. (See Parsons, Ben G., assignor.)

Benham, Edgar M., Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky. Lock. 1,665,015; Apr. 3.

Benham, Edgar M., Norwood, and G. J. Bauer, Madisonville, Ohio, assignors to The Mosler Lock Company, Covington, Ky. Lock. 1,665,016; Apr. 3.

Benjamins, Israel, Brooklyn, N. Y. Writing pen. 1,664,501; Apr. 3.

Bennett, George L., Cleveland Heights, Ohio. Sheet wall tiling. 1,664,396; Apr. 3.

Bennett, Wynn M. (See Cornell, Carl M., assignor.)

Bens, Samuel J., New York, N. Y. Lost-ball indicator. 1,664,397; Apr. 3.

Bentley, William P., Dallas, Tex. Treatment of rock asphalt. 1,664,846; Apr. 3.

Bergen, George B., sr., Milwaukee, Wis. Stone veneer. 1,664,964; Apr. 3.

Bergner, John C., Lansdowne, assignor of one-half to F. E. Morris, Philadelphia, Pa. Cooking apparatus. 1,665,017; Apr. 3.

Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Drier construction. 1,664,656; Apr. 3.

Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for use in making shoes. 1,664,657; Apr. 3.

Betterley, Roland O., assignor to Hermance Machine Company, Williamsport, Pa. Cutter head for woodworking machines. 1,664,806; Apr. 3.

Bewley, Claude G., Spokane, Wash., assignor of one-half to R. F. Wilcox & Co., Montebello, Calif., and one-half to Spokane Concrete Flower Pot Machine Company, Inc., Spokane, Wash. Plant-potting machine. 1,664,913; Apr. 3.

Bijur, Joseph, assignor, by mesne assignments, to Eclipse Machine Company, New York, N. Y. Engine starting apparatus. 1,664,847; Apr. 3.

Biller, David J., assignor to Day-Brite Reflector Company, St. Louis, Mo. Reflector housing for display-case lights. Des. 74,818; Apr. 3.

Bixler, L. B. Henry. (See Bixler, William L. and L. B. H.)

Bixler, William L. and L. B. H., Fresno, Calif. Pick off for conveyer systems. 1,664,393; Apr. 3.

Black, Percy S., Fort Worth, Tex. Electric swivel socket. 1,665,018; Apr. 3.

Blake, R. P., et al. (See Simpson, Arthur E., assignor.)

Blalack, Charles E., and G. H. Eckstein, Los Angeles, Calif. Piano. 1,664,587; Apr. 3.

Blankenship, William J., Valdosta, Ga. Sleeping pillow. 1,664,537; Apr. 3.

Blanning, Edwin J. (See Jones, G. J., and Blanning.)

Blazer, Clyde P., Nehalem, Oreg. Jelly-bag holder. 1,664,658; Apr. 3.

Blumenthal, William, Philadelphia, Pa. Coat shield. 1,664,449; Apr. 3.

Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Electric wall bracket plate or similar article. Des. 74,819; Apr. 3.

Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Arm for an electric wall bracket plate or similar article. Des. 74,820; Apr. 3.

Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Chandelier or similar article. Des. 74,821; Apr. 3.

Bohnenblust, Arnold, Riley, Kans. Suction force pump. 1,665,082; Apr. 3.

Bol, Cornelis, assignor to N. V. Philip's Gloeilampenfabrieken, Eindhoven, Netherlands. Vacuum pump. 1,664,398; Apr. 3.

Bonds, Albert, Cleveland, Ohio. Apparatus for temperature control. 1,664,965; Apr. 3.

Bonneau, Joseph C., Webster, Mass. Kier. 1,664,475; Apr. 3.

Boor, Nicholas J., Claflin, Kans. Cattle yoke. 1,664,304; Apr. 3.

Boston Wire Stitcher Company. (See Briggs, Thomas A., assignor.)

Boulogne, Arthur, Levallois-Perret, France. Pivoting emergency seat. 1,664,766; Apr. 3.

Bousfield, Alfred, assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Weigh beam. 1,664,502; Apr. 3.

Boutelle, William H., Sturbridge, assignor to American Optical Company, Southbridge, Mass. Ophthalmic temple. 1,664,966; Apr. 3.

Bouy, Jules, New York, N. Y. Support or similar article. Des. 74,822; Apr. 3.

Bowlus, Henry C., assignor to A. D. Hosterman, Springfield, Ohio. Flushing and ventilating apparatus for closets. 1,664,588; Apr. 3.

Boyce, Charles P. (See Donald, F. E., and Boyce.)

Boyle, Jacob C., Indianapolis, Ind. Locomotive-cab-window protector. 1,665,019; Apr. 3.

Boynton, Charles B., East Orange, assignor to Perco Heater Corporation, Newark, N. J. Boiler. 1,664,914; Apr. 3.

Boynton, Jesse L., assignor of fifty per cent to C. A. Marshall, New York, N. Y. Method and apparatus for timing the use of electrical circuits. 1,664,873; Apr. 3.

Braun, Justus, Nuremberg, Germany. Compressor. 1,664,733; Apr. 3.

Breeden, Alfred J., Grinnell, Iowa. Catcher attachment for lawn sweepers and the like. 1,664,659; Apr. 3.

Breese, Charles P. (See Brown, E., and Breese.)

Breyer, Frank G., E. H. Bunce, and J. H. Weikel, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Zinc oxide. 1,664,767; Apr. 3.

Briggs Manufacturing Company. (See Marshall, William, assignor.)

Briggs, Thomas A., Providence, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Packaging staples or the like and package produced thereby. 1,665,051; Apr. 3.

Brodie, Herbert, assignor of one-half to A. R. Saunders, Detroit, Mich. Brake-operating mechanism. 1,664,732; Apr. 3.

Broken Hill Proprietary Company, The. (See Power, W. P., and Lewis, assignors.)

Brown, Ellsworth, Dayton, Ohio, and C. P. Breese, Norfolk, Va. Multiple-engine drive gear. 1,664,399; Apr. 3.

Brown, Lloyd J., Evanston, assignor to E. P. Smith, Springfield, Ill. Safety device for brake beams. 1,664,538; Apr. 3.

Browne, William G., Yonkers, N. Y., and R. W. Olmsted, San Francisco, Calif. Advertising sign. Des. 74,852; Apr. 3.

Brownell, Barnett M., St. Louis, Mo., assignor to Diamond Metal Products Co. Pipe coupling. 1,664,848; Apr. 3.

Brownell, George L., Worcester, Mass. Spool support for twisting machines and the like. 1,665,083; Apr. 3.

Brundy, David N., Los Angeles, Calif. Perforated casing. 1,664,734; Apr. 3.

Brunell, Leo W., Foxboro, assignor of one-third to B. F. Upham and one-third to E. W. Calkins, Boston, Mass. Treating sheet material with heat. 1,665,185; Apr. 3.

Bryans, H. H., trustee. (See Filer, Adelbert F., assignor.)

Bryant, Ozro N., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Governor. 1,664,849; Apr. 3.

Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Brush reading device for combinational hole records. 1,664,539; Apr. 3.

Buckingham, Francis. (See Tretch, W. J., and Buckingham.)

Budd, Edward G., Manufacturing Co. (See Meadowcroft, Joseph W., assignor.)

Bull, William C., Los Angeles, Calif. Listing, counting, and printing machine. 1,664,768; Apr. 3.

Bunce, Earl H. (See Breyer, F. G., Bunce, and Weikel.)

Burke, George W., jr., Dayton, Ohio. Fire extinguisher. 1,664,450; Apr. 3.

Burns, James F., assignor to V V Fittings Company, Philadelphia, Pa. Safety switchboard. 1,665,126; Apr. 3.

Burri, Jacob J. (See Harer, G. W., and Burri.)

C-S Engineering Company. (See Schellens, Christopher, A., assignor.)

Cadwell, William H., New Britain, Conn. Radiator valve. 1,665,052; Apr. 3.

California Almond Growers Exchange. (See Bailey, David R., assignor.)

Calkins, Edward W., et al. (See Brunell, Leo W., assignor.)

Cameron, Will J., Chicago, Ill. Nasal retractor or speculum. 1,664,660; Apr. 3.

Campbell, Neil L., Glendale, assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Floor covering. 1,664,589; Apr. 3.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film-treating apparatus. 1,664,735; Apr. 3.

Carlson, Alexander. (See Pettingell, F. A., and Carlson.)

Carlson, Enock A., Delvalle, Tex. Twine holder. 1,665,127; Apr. 3.

Carney, Samuel C., Tulsa, Okla., assignor to Roxana Petroleum Corporation. Making ice crystals. 1,664,850; Apr. 3.

Carpio, Carlos, New York, N. Y. Propelling mechanism for boats. 1,665,053; Apr. 3.

Carr, Edward G., Chicago, Ill., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Finishing machine. 1,665,054; Apr. 3.

Carthage Mills Incorporated. (See Campbell, Neil L., assignor.)

Cassal, Arthur V., Rochester, N. Y. Circuit camera. 1,664,590; Apr. 3.

Caster, John E., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machinery. 1,665,084; Apr. 3.

Cather, Charles E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Reenforced folder or file holder. 1,665,128; Apr. 3.

Catlin, Winfield, Rockville, assignor of one-half to W. N. Cox., Bloomingdale, Ind. Animal trap. 1,665,020; Apr. 3.

Cavanna, Eugene L., Chicago, Ill. Shoe support. Re. 16,924; Apr. 3.

Centrifix Corporation. (See Hawley, Charles G., assignor.)

Chain Belt Company. (See Ball, Charles F., assignor.)

Chance, Henry M., Philadelphia, Pa. Method and apparatus for centrifugal thickening of mixtures and clarifying of liquids. 1,664,769; Apr. 3.

Chase, George C., South Orange, assignor, by mesne assignments, to Monroe Calculating Machine Company, Orange, N. J. Full-cycle positioning mechanism. 1,664,661; Apr. 3.

Cheney, S., & Son. (See Littler, James H., assignor.)

Chicago Cardboard Company. (See Ziemmerman, Henry, assignor.)

Christensen, Niels A., Milwaukee, Wis. Duplex brake. 1,664,451; Apr. 3.

Christensen, Oscar, assignor to Locke Insulator Corporation, Baltimore, Md. Self-cleaning oil burner. 1,664,967; Apr. 3.

Christianson, Arnold and C., Hammond, Ind. Side bearing. 1,664,915; Apr. 3.

Christianson, Christian. (See Christianson, Arnold and C.)

Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Dynamo frame. 1,664,540; Apr. 3.

Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)

Cincinnati Butchers' Supply Company, The. (See Schmidt, Gustav, assignor.)

Cincinnati Grinders Incorporated. (See Caster, John E., assignor.)

Cincinnati Grinders Incorporated. (See Einstein, S., Peaslee, and Haas, assignors.)

Cincinnati Grinders Incorporated. (See Kimmel, George C., assignor.)

Citron, William J., San Francisco, Calif. Method of and apparatus for recording and exhibiting. 1,664,770; Apr. 3.

Clark, Virginius E. (See Geyer, H. D., and Clark.)

Clary, William B. (See Ganzfried, A., and Clary.)

Class, George M., assignor to Gisholt Machine Company, Madison, Wis. Tool post. 1,664,851; Apr. 3.

Cleveland, Charles F. (See Miller, C. G., and Cleveland.)

Clifton Manufacturing Company. (See Thrower, Alvin H., assignor.)

Clot, Augustus, West New York, N. J. Sound box for sound-reproducing machines. 1,664,591; Apr. 3.

Coenen, Edouard, Brussels, Belgium. Lathe. 1,664,968; Apr. 3.

Coffman, James W., Webb City, Okla. Oil-tube cap. 1,664,593; Apr. 3.

Cohen, Joseph H., Bridgeport, Conn. Automatic electric switch for cable-carrying. 1,665,021; Apr. 3.

Cohn, Edward, Brooklyn, N. Y. Reenforced safety bat. 1,665,195; Apr. 3.

Cohoes Envelope Co. (See Kleebauer, C. P., and Lackey, assignors.)

Coil, William D., Muncie, and W. J. De Reamer, Crown Point, Ind. Turning mechanism for conveying devices. 1,664,663; Apr. 3.

Colclough, William, assignor to The American Laundry Machinery Company, Norwood, Ohio. Cover clamp for ironing boards or bucks. 1,664,916; Apr. 3.

Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Rotating cutter head. 1,664,807; Apr. 3.

Collis, Meyer, Charleston, S. C. Electrical dough-imprinting machine. 1,665,196; Apr. 3.

Columbus McKinnon Chain Company, The. (See Shay, Warren J., assignor.)

Commonwealth Steel Company. (See Pfiager, Harry M., assignor.)

Compagnie des Forges & Acieries de la Marine & d'Homecourt. (See Rimailho, Emile, assignor.)

Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 74,823; Apr. 3.

Congoleum-Nairn, Inc. (See Fauser, Oscar W., assignor.)

Conover, John C., Somerville, N. J. Guide for molder tables. 1,664,969; Apr. 3.

Consolidated Ashcroft Hancock Company. (See Heise, Otto W., assignor.)

Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)

Consolidated Car-Heating Company. (See Oakley, George E., assignor.)

Constantinesco, George, Weybridge, England. Unidirectional driving device. 1,664,874; Apr. 3.

Continental Railway Supply Corporation. (See Schroeder, Frank J., assignor.)

Continuous Train Control Corporation. (See Stone, Charles B., assignor.)

Cook, Edward W., assignor of one-half to E. I. Field, Los Angeles, Calif. Cooling tower. 1,665,022; Apr. 3.

Cooley, Ralph M., St. Paul, Minn. Vehicle supporting device for soft roads. 1,664,592; Apr. 3.

Cooper, Alfred, Stowmarket, England. Teaching device. 1,664,808; Apr. 3.

Cooper, George H., Hartford, Conn. Tuned transformer. 1,664,541; Apr. 3.

Copp, Earl F., Montclair, N. J. Golf tee. 1,664,400; Apr. 3.

Cornell, Carl M., assignor of one-half to W. M. Bennett, Buffalo, S. Dak. Bulkhead wall for culverts. 1,664,503; Apr. 3.

Corning Glass Works. (See Peltz, Gordon M., assignor.)

Cowan Lath Board Company. (See Cowan, Samuel K., assignor.)

Cowan, Samuel K., New York, N. Y., assignor to Cowan Lath Board Company, Nashville, Tenn. Lath. 1,664,875; Apr. 3.

Cox, William N. (See Catlin, Winfield, assignor.)

Craddock, John E., Perry Point, Md. Amusement device. 1,665,129; Apr. 3.

Craig, Alfred, Mitcham, assignor to James Pain & Sons Limited, London, England. Toy bomb or projector. 1,664,401; Apr. 3.

Cramer, Harry I., assignor to The Sterling Jewelry Company, Dayton, Ohio. Wrist watch. Des. 74,825; Apr. 3.

Creamer, Isaac P., and F. Joseph, New York, N. Y. Soap box. 1,664,736; Apr. 3.

Crum, Leo J., assignor of one-half to L. L. Vosler, Kalamazoo, Mich. Exercising device. 1,664,664; Apr. 3.

Cumming, William G., Montreal, Quebec, Canada. Tire-inflating mechanism. 1,664,970; Apr. 3.

Cummings, Charles D., Tully, N. Y. Claw hammer. 1,664,594; Apr. 3.

Cummins, Norman W., Plymouth, Mich. Side-clamp hood fastener. 1,664,771; Apr. 3.

Cunningham, Dennis J., Washington, D. C. Roller guard for automobiles. 1,665,085; Apr. 3.

Currie, Robert A., Syracuse, assignor to R. E. Dietz Company, New York, N. Y. Bail-attaching means for lanterns and the like. 1,665,055; Apr. 3.

Currier, Hiram D., and W. G. Shull, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,664,665; Apr. 3.

Cutler, Clifford A., Buffalo, N. Y. Surface block. 1,664,737; Apr. 3.

Dahnke, George H., Benton Harbor, Mich. Traffic-controlling device. 1,665,157; Apr. 3.

Daine, Robert L., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Feeding tape. 1,664,772; Apr. 3.

Danforth, George L., jr., assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Open-hearth furnace. 1,665,086; Apr. 3.

Daniels, Samuel, and G. J. Himmelein, Dayton, Ohio. Mold. 1,664,452; Apr. 3.

Daprato Statuary Company. (See Mariotti, Joseph J., assignor.)

Darling, Frank L., Long Beach, Calif. Crimped-cap opener. 1,664,595; Apr. 3.

Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,664,666; Apr. 3.

Davis, Cleveland G., Grand Rapids, Mich. Device for forcing ice-cream bricks from molds. 1,664,667; Apr. 3.

Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Drying-room tumbler. 1,664,809; Apr. 3.

Davis, Marion J., Brinkley, Ark. Railway mail-bag crane. 1,665,056; Apr. 3.

Day-Brite Reflector Company. (See Biller, David J., assignor.)

Dayton-Wright Company. (See Geyer, H. D., and Clark, assignors.)

Dayton-Wright Company. (See Pettingell, F. A., and Carlson, assignors.)

Dean, Clayton C., Mundelein, Ill. Billiard cue. 1,664,971; Apr. 3.

Decceco, Inc. (See Nicholay, Paul, assignor.)

Dedman, Joseph M. (See Frakes, Frank F., assignor.)

Degler, William W., Cumberland, Md. Card holder. 1,664,668; Apr. 3.

Deitz, Howard C. (See Thompson, J. V., and Dietz.)

Delco-Remy Corporation. (See Chryst, William A., assignor.)

Delco-Remy Corporation. (See Poole, Lora E., assignor.)

Deline, Irving A., Denver, Colo. Expansible box-band holder for stripping machines. 1,664,738; Apr. 3.

Deline, Irving A., Denver, Colo. Box holder to facilitate the hand-stripping operation in the production of pasteboard boxes. 1,664,739; Apr. 3.

Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Antirattle bracelet. 1,664,669; Apr. 3.

De Reamer, William J. (See Coil, W. D., and De Reamer.)

Dester, William F., Newark, assignor to U. S. Tool Co., Inc., East Orange, N. J. Safety igniter for gas stoves. 1,664,917; Apr. 3.

Dester, William F., Newark, assignor to U. S. Tool Co., Inc., East Orange, N. J. Safety gas-stove igniter. 1,664,918; Apr. 3.

Detroit Insulated Wire Company. (See Hunter, Joseph H., assignor.)

Deuring, Fritz R., Munich-Gladbach, Germany. Feed and traversing motion for lathes. 1,665,158; Apr. 3.

Deuta-Werke vormals Deutsche Tachometerwerke G. m. b. H. (See Erfurth, Wilhelm, assignor.)

De Vries, Andrew, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Post cap. Des. 74,826; Apr. 3.

Dewey, Clarence L., Elkhart, Ind. Decorating fish lures. 1,664,402; Apr. 3.

Diamond Metal Products Co. (See Brownell, Barnett M., assignor.)

Diamond Power Specialty Corporation. (See Heaton, Herman C., assignor.)
Diamond Power Specialty Corporation. (See Snow, Norman L., assignor.)
Dieckerhoff, Ewald C. (See Werder, Hans, assignor.)
Diehl, John C., Erie, Pa. Controlling the flow of fluids in connected conduits and device therefor. 1,664,596; Apr. 3.
Dietz, R. E., Company. (See Currie, Robert A., assignor.)
Dittemore, Lester P., Topeka, Kans. Cigar lighter. 1,664,597; Apr. 3.
Dittlinger, Hippolyt, New Braunfels, Tex. Plastic hydrated lime and making it. 1,664,598; Apr. 3.
Doaney, John A., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Automatic multiple-spindle milling lathe. 1,664,740; Apr. 3.
Dodge, Harold F., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter mouthpiece. 1,664,852; Apr. 3.
Dollins, Robert R., Marland, Okla. Air cleaner. 1,664,670; Apr. 3.
Dolphin, John L. (See Wright, W. L., and Dolphin.)
Dominick & Haff, Inc. (See Hebbard, Harrison, assignor.)
Donald, Floyd E., and C. P. Boyce, Corsicana, Tex. Planetary reversible clutch. 1,665,159; Apr. 3.
Douglas, H. A. (See Murray, Howard J., assignor.)
Douglas, Harry A. (See Watts, Felix J., assignor.)
Douglas, Harry A., Bronson, Mich. Circuit-continuing device. 1,664,403; Apr. 3.
Douglas, Harry A., Bronson, Mich. Lock. 1,664,404; Apr. 3.
Douglas, Harry A., Bronson, Mich. Electric lamp. 1,664,876; Apr. 3.
Douglass, James B., Harvey, Iowa. Glove protector. 1,664,542; Apr. 3.
Dudderar, Daniel W., Mount Airy, Md. Retort-cover clamp. 1,664,972; Apr. 3.
Duncan Electric Manufacturing Company. (See Emens, Albert L., assignor.)
Dura Company, The. (See Graff, George, assignor.)
Duratex Corporation. (See Stoddard, William O., jr., assignor.)
Durkee, James W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Relieving attachment. 1,664,741; Apr. 3.
Dzierzenga, Frank, Brooklyn, N. Y. Safety device for windows. 1,664,599; Apr. 3.
Easterman, Lea, Brooklyn, N. Y. Joint for glass plates. 1,664,543; Apr. 3.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eckstein, George H. (See Blalack, C. E., and Eckstein.)
Eclipse Machine Company. (See Bijur, Joseph, assignor.)
Ede.hoff, Alfred, Volkmarsen, Germany. Potato-planting machine. 1,664,773; Apr. 3.
Edmondson, E. S., Company. (See Bacon, Harry S. C., assignor.)
Edwards, Eaton G. (See Gargiulo, F., Edwards, and Oppe.)
Edwards, Isaac L., Aurora, Ill. Overalls. 1,664,774; Apr. 3.
Eickworth, Regnier, Dortmund, Germany. Gas burner. 1,664,973; Apr. 3.
Einstein, Sol. W. Peaslee, and F. S. Haas, assignors, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Automatic size-grinding machine. 1,665,160; Apr. 3.
Eisengart, William C., Pittsburgh, Pa. Lubricating device for internal-combustion engines. 1,664,671; Apr. 3.
Ek, Emil, assignor to Adde and Company, Portland, Me. Operating device. 1,664,919; Apr. 3.
Electro Dental Manufacturing Company. (See Albers, August W., assignor.)
Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)
Ellington, Ferdinand W., Jamaica, N. Y. Finishing leather. 1,664,742; Apr. 3.
Elliott, Dwight A., Richmond, Ind. Ventilator. 1,665,130; Apr. 3.
Elliott, Irwin. (See Williams, Robert W. and H. R., and Elliott.)
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Amylaceous molded product and making same. 1,664,600; Apr. 3.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Cassava-starch plastic composition and molding same. 1,664,601; Apr. 3.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making sulphur-containing plastics. 1,665,186; Apr. 3.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Emens, Albert L., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Induction electricity meter. 1,664,672; Apr. 3.
Emens, Albert L., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Induction electricity meter. 1,664,673; Apr. 3.
Emerson Electric Mfg. Co., The. (See Janca, Joseph J., assignor.)
Engle, Frank G., New York, N. Y. Head lamp. 1,664,405; Apr. 3.
Epstein, Albert K., Chicago, and M. C. Reynolds, Oak Park, Ill. Mayonnaise product and producing same. 1,664,775; Apr. 3.
Eppenstein, Sidney C., assignor to Illinois Watch Case Company, Elgin, Ill. Adjustable bracelet. 1,664,504; Apr. 3.
Erfurth, Wilhelm, assignor to Deuta-Werke vormals Deutsche, Tachometerwerke G. m. b. H., Berlin, Germany. Speedometer of the eddy-current type. 1,664,406; Apr. 3.
Eshbaugh, Jesse E., Dayton, Ohio. Automatic pulse, respiration, and temperature recorder. 1,664,407; Apr. 3.
Etchells, James. (See Lyne F. C., and Etchells.)
Everett, Daniel S., Jordan, N. Y. Sash holder. 1,664,602; Apr. 3.
Everett, Edward A., New York, N. Y. Sighting device 1,664,544; Apr. 3.
Fairbanks, E. and T., and Company. (See Bousfield, Alfred, assignor.)
Fairy Brassiere Co. (See Imersheln, H., and Ginsburg, assignors.)
Farrel Foundry & Machine Co. (See Kessler, Armin G., assignor.)
Farrington, James C., La Fayette, Ind. Fence guard. 1,664,603; Apr. 3.
Fauser, Oscar W., Bellerose, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 74,829; Apr. 3.
Federal Steel Sash Company. (See Nesheim, Anders H., assignor.)
Fehrmann, Adolf, Hamburg, Germany. Direction signal. 1,665,087; Apr. 3.
Ferrari, Earnest R., North Bend, Oreg. Cutting or slicing machine. 1,665,131; Apr. 3.
Field, Edward I. (See Cook, Edward W., assignor.)
Field, Lloyd M., et al. (See Staples, Charles F., assignor.)
Fields, Austin. (See Kitchen, R. H., and Norris, assignors.)
Filer, Adelbert F., assignor to H. H. Bryans, trustee, Birmingham, Ala. Automobile radiator-cap ornament. Des. 74,830; Apr. 3.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for trimming rubber heels. 1,664,604; Apr. 3.
Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)
First, Mahlon E., Lakewood, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Single-roll crusher. 1,664,877; Apr. 3.
Firth, Elmer W., Jamaica, assignor of one-half to H. G. Miller, New York, N. Y. Sewer catch basin. 1,664,853; Apr. 3.
Fischer, Albert C., Chicago, Ill. Expansion-joint installer. 1,664,605; Apr. 3.
Fischer, Albert C., Chicago, Ill. Flashing for roofs or the like. 1,664,606; Apr. 3.
Fisher, Sydney, Fairfield, Conn., assignor to Flash Tray Advertising, Inc., New York, N. Y. Flash change tray. 1,665,132; Apr. 3.
Flash Tray Advertising, Inc. (See Fisher, Sydney, assignor.)
Fleming, Clifford A., Huntsville, Mo. Tractor sweep rake. 1,664,974; Apr. 3.
Flintermann, Gerhard, Orange N. J. Bearing. 1,664,878; Apr. 3.
Flintermann, Gerhard, West Orange, N. J. Bearing. 1,664,879; Apr. 3.
Flintermann, Gerhard, West Orange, N. J. Journal bearing. 1,664,880; Apr. 3.
Flower, John W., Wimborne, England. Crown-corking machine. 1,664,881; Apr. 3.
Forbell, Robert C., Los Angeles, Calif. Direction signal. 1,664,810; Apr. 3.
Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Rocker step connection. 1,664,811; Apr. 3.
Fort Pitt Bedding Company. (See Trimble, Charles P., assignor.)
Fowler, Harvey A. L., Valley Stream, N. Y. Automatic lighter for gas water heaters. 1,665,088; Apr. 3.
Frakes, Frank F., assignor of one-half to J. M. Dedman, Columbia, Tenn. Attachment plug. 1,664,408; Apr. 3.
Franz, Joseph, Berlin-Neutempelhof, Germany. Machine for coating objects. 1,664,505; Apr. 3.
Frazier, William T., Chase City, Va. Wheel-aligning tool. 1,665,161; Apr. 3.
Fredericksen Company. (See Schupp, Arthur A., assignor.)
Fredrick, Edgar, New Orleans, assignor of one-half to L. J. Le Blanc, Jefferson Parish, La. Resilient tire. 1,664,674; Apr. 3.
Freiberger, Moritz, and A. Holtmann, Berlin-Charlottenburg, Germany. Calico-printing color composition and process. 1,665,162; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,664,607; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,664,608; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,664,609; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-feeding system. 1,664,610; Apr. 3.

French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,664,611; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-control valve. 1,664,612; Apr. 3.
French, Louis O., Milwaukee, Wis. Electromagnetic valve. 1,664,613; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,664,614; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,664,615; Apr. 3.
French, Louis O., Milwaukee, Wis. Fuel-control valve. 1,664,616; Apr. 3.
Friction Power Corporation Limited. (See McPherson, Charles, assignor.)
Friedenthal, Adolph L., Portland, Oreg. Woolen spat. 1,664,617; Apr. 3.
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Germaniawerft Aktiengesellschaft. (See Herkt, Ernst, assignor.)
Friend, Berthold, Brooklyn, N. Y. Removable lining for closets and the like. 1,664,854; Apr. 3.
Fry, John W., Struthers, Ohio. Stabilizing spring. 1,664,618; Apr. 3.
Fulton Machine Co. (See Nayer, Carl F., assignor.)
G & O Manufacturing Company, The. (See Gargiulo, F., Edwards, and Oppe, assignors.)
Gaffney, John O., Arroyo Grande, Calif. Pipe cutter. 1,665,059; Apr. 3.
Gallagher, Charles R., assignor to Universal Holding Company, Los Angeles, Calif. Floating deck for oil tanks or the like. 1,665,163; Apr. 3.
Gamewell Company, The. (See King, George E., assignor.)
Gamewell Company, The. (See Suren, Nathan H., assignor.)
Ganzfried, Adolf, and W. B. Clary, Los Angeles, Calif. Smoker's mouthpiece. 1,665,023; Apr. 3.
Gard, Earle W., Long Beach, B. G. Aldridge, Los Angeles County, and H. J. Multer, Huntington Park, Calif. Apparatus for separating liquid containing a dispersed phase of another liquid. 1,665,164; Apr. 3.
Gard, John S., Los Angeles, Calif. Antisqueak device for vehicle brakes. 1,664,855; Apr. 3.
Gardner, Grandison, Luke Field, Hawaii. Bomb sight. 1,664,409; Apr. 3.
Gargiulo, Frederick, E. G. Edwards, and C. Oppe, assignors to The G & O Manufacturing Company, New Haven, Conn. Radiator. 1,664,812; Apr. 3.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Gatchell, Frederick D., New York, N. Y. Oil bottle. Des. 74,828; Apr. 3.
Gates, Ernest W., Needham, Mass. Game device. 1,664,506; Apr. 3.
Gelb, Ambrose C., assignor to Gelb & Schaefer Co., Chicago, Ill. Case for musical instruments. 1,664,476; Apr. 3.
Gelb & Schaefer Co. (See Gelb, Ambrose C., assignor.)
Gem Engineering Corporation. (See Barnes, Llewellyn T., assignor.)
General Fuel Briquette Corporation, The. (See Stillman, Albert L., assignor.)
General Motors Corporation. (See Denyes, Harry M., assignor.)
General Motors Corporation. (See Schjolin, Eric O., assignor.)
General Motors Corporation. (See Strickland, William R., assignor.)
General Motors Corporation. (See Williams, Charles E., assignor.)
General Motors Research Corporation. (See Hallett, George E. A., assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
General Petroleum Corporation of California. (See Olsen, George F., assignor.)
General Petroleum Corporation of California. (See Roth, Ernest W., assignor.)
Genest, Lucien, Montreal, Quebec, Canada. Tickets holder. 1,665,057; Apr. 3.
Genuine Bronze Fixture Co. Inc. (See Sobel, Joseph, assignor.)
Geschickter, Charles F., Washington, D. C. Door, sash, and screen. 1,665,024; Apr. 3.
Gestetner, D., Limited. (See Gestetner, David, assignor.)
Gestetner, David, assignor to D. Gestetner Limited, London, England. Duplicating. 1,664,675; Apr. 3.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Ice-cream-cabinet lid. 1,664,545; Apr. 3.
Geyer, Harvey D., and V. E. Clark, assignors to Dayton-Wright Company, Dayton, Ohio. Elastic motor mounting for vehicles. 1,664,662; Apr. 3.
Gibson, Virgil L., Salem, Oreg. Drawbar shift for tractors. 1,665,133; Apr. 3.
Gilbert, Sidney C., Jackson, Ohio. Bottle-handling means. 1,665,025; Apr. 3.
Gilbertson, Ansel P., Wausau, Wis. Vending machine. 1,664,546; Apr. 3.
Gillen, George A., assignor to Gillen, Kimmey, Baker Syndicate Inc., New York, N. Y. Lock for motor vehicles. 1,664,620; Apr. 3.
Gillen, Kimmey, Baker Syndicate. (See Gillen, George A., assignor.)
Gillett, Edward H. J. C., Hampstead, London, England. Friction or adhesion gearing. 1,665,165; Apr. 3.
Gillis, Leon W., Alderwood Manor, Wash. Filament-current-reversing device. 1,664,813; Apr. 3.
Gilmore, Forrest E., Company. (See Gilmore, Forrest E., assignor.)
Gilmore, Forrest E., Los Angeles, Calif., assignor to Forrest E. Gilmore Company, Portland, Oreg. Fire still and oil treater. 1,664,920; Apr. 3.
Gilstrap, Orin. (See Lambert, William R., assignor.)
Ginsburg, Louis E. (See Imersheim, H., and Ginsburg.)
Girard, Albert, Canisteo, N. Y. Cotter-pin-spreading tool. 1,664,619; Apr. 3.
Gisholt Machine Company. (See Class, George M., assignor.)
Goetzenberger, Ralph L., Philadelphia, Pa. Fuse setter. 1,664,676; Apr. 3.
Goff, John A. (See Goff, Judson L., assignor.)
Goff, Judson L., assignor of one-half to J. A. Goff, Topeka, Kans. Deflation tool for tubes of pneumatic tires. 1,664,621; Apr. 3.
Goldman, Paul E., Pittsburgh, Pa. Washboiler. 1,664,921; Apr. 3.
Gommel, Dewey E., assignor to E. C. Atkins & Company, Indianapolis, Ind. Hack saw. 1,665,090; Apr. 3.
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodrich, Chauncey M., Windsor, Ontario, Canada. Support for overhead cables. 1,664,922; Apr. 3.
Gottschalk, Ernest O., Dresden, Germany. Dispensing closure for bottles and the like. 1,664,975; Apr. 3.
Gouvion, Franz, Brussels, Belgium. Liquid-distributing apparatus. 1,665,093; Apr. 3.
Goyne, William H., Tillamook, Oreg. Flying machine. 1,665,091; Apr. 3.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Handle for door latches or the like. Des. 74,827; Apr. 3.
Graham Brothers. (See Milner, Nugent, assignor.)
Graham Brothers. (See Neely, William H., assignor.)
Graham, John E., London, England. Electrical connecter. 1,665,166; Apr. 3.
Grant, Albert E., New York, N. Y. Apparatus for maintaining uniform oil level. 1,665,026; Apr. 3.
Grebe, Conrad H., assignor of one-half to L. Mentrum, Portland, Oreg. Kalamein machine. 1,664,677; Apr. 3.
Green, Albert H., executor. (See Green, Walter R.)
Green, Walter R., deceased; A. H. Green, executor, assignor to International Stamping Company, Chicago, Ill. Underslung tire carrier. 1,664,856; Apr. 3.
Greenop, Norton, Leigh-on-Sea, England. Banjo and similar musical instruments. 1,664,547; Apr. 3.
Greenwald, Harold A., and J. D. Howe, assignors to Whitehead & Kales, Detroit, Mich. Oil burner. 1,664,410; Apr. 3.
Greenwood, Jasper L., North East Harbor, Nova Scotia, Canada. Wheel rim. 1,665,092; Apr. 3.
Griffin, Henry W., New York, N. Y., and L. F. Howard, Edgewood Borough, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,664 814; Apr. 3.
Grignon, Irvel J., Duluth, Minn. Cigarette case. 1,664,743; Apr. 3.
Grimes, David, Grasmere, N. Y. Radio apparatus. 1,664,548; Apr. 3.
Grimm, Hans G., Munich, Germany. Stabilizing chemical substances. 1,664,678; Apr. 3.
Griswold Manufacturing Company, The. (See Massing, Charles A., assignor.)
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Crank-shaft lathe chuck. 1,664,622; Apr. 3.
Grofroos, Hugo, Copenhagen, Denmark. Manufacture of burnt building materials or the like of clay. 1,664,815; Apr. 3.
Gubelmann, Ivan. (See Weiland, H. J., and Gubelmann.)
Gulbenkian Seamless Rug Company. (See Smith, William E., assignor.)
Gunning, William A., assignor to American Optical Company, Southbridge, Mass. Lens-testing machinery. 1,664,923; Apr. 3.
Gustafson, Edwin A., assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,664,679; Apr. 3.
Gustafson, Edwin L., Fort Dodge, Iowa, assignor, by mesne assignments, to United States Gypsum Company. Wall board. 1,665,168; Apr. 3.
Haas, Fred S. (See Einstein, S., Peaslee, and Haas.)
Hadaway, William S., jr., New Rochelle, N. Y. Metal-casting machine. 1,664,882; Apr. 3.
Hale Fire Pump Co., The. (See Wendell, Evert J., assignor.)
Haley, James H., Jackson, Mich. Mold for forming concrete plant-protectors. 1,665,027; Apr. 3.
Hall, Ralph R. (See Severns, T., and Hall.)
Hallett, George E. A., assignor to General Motors Research Corporation, Dayton, Ohio. Hydraulic braking system for motor vehicles. 1,664,680; Apr. 3.
Halvorsen, Axel I. S., assignor to McCormick Brothers Company, Albany, Ind. Support for flexible doors of kitchen cabinets. 1,665,028; Apr. 3.

Halvorsen, Olaf. (See Kiesling, S. F., and Halvorsen.)
Hamilton, Charles S., Harrison, assignor to New York Mills Corporation, New York Mills, N. Y. Pile fabric. Des. 74,831; Apr. 3.
Hamilton, Francis F., Indianapolis, Ind. Box. Des. 74,832; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. System of control by compressional waves. 1,664,549; Apr. 3.
Hammond, John H., jr., Goucester, Mass. Shutter-control mechanism. 1,664,550; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. Thermostat control for cooking utensils. 1,664,551; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. Pedal control for pipe organs. 1,664,552; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. Successively-operated tone modulator. 1,664,553; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. Pipe organ for producing a piano effect. 1,664,554; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. Power-operated tone-control mechanism. 1,664,555; Apr. 3.
Hammond, John H., jr., Gloucester, Mass. Modulating reflectors for controlling the rate of change of sound emission. 1,664,556; Apr. 3.
Hanch, Charles C., Connersville, Ind. Lubricating piston. 1,664,507; Apr. 3.
Hancock, Harry W., Jackson, Mich. Door latch. 1,664,681; Apr. 3.
Hanff, Ferdinand, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Machine for making metallic tubing. 1,664,976; Apr. 3.
Hanna, G. Dallas, assignor to Associated Oil Company, San Francisco, Calif. Obtaining data in earth bores. 1,665,058; Apr. 3.
Hanna, Richard W., Piedmont, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Distilling lubricating oils. 1,664,977; Apr. 3.
Hannan, James W., Coffeyville, Kans. Air-pump stroke and pressure indicator. 1,664,557; Apr. 3.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Broaching tool. 1,664,623; Apr. 3.
Hansen, Fred E., Lakewood, assignor to The Hansen Manufacturing Company, Cleveland, Ohio. Nozzle. 1,664,816; Apr. 3.
Hansen Manufacturing Company, The. (See Hansen, Fred E., assignor.)
Harbin, Hal H. (See White, Joseph H., assignor.)
Hardman, Albert H., Wheeling, W. Va. Push-button switch. 1,664,682; Apr. 3.
Hardman, William, Hamilton, Ontario, Canada. Evener-motion-controlled combined drive between finishing lapper and hopper feeder. 1,664,411; Apr. 3.
Harer, George W., and J. J. Burri, Chicago, Ill. Grain-car door. 1,664,978; Apr. 3.
Harkless, Meri J., Homewood, Ill. Cigarette lighter. 1,664,857; Apr. 3.
Harper, Philip S., Chicago, Ill. Gas burner. 1,664,508; Apr. 3.
Harper, Philip S., Chicago, Ill. Gar-range burner. 1,664,509; Apr. 3.
Harris, J. M., et al. (See Simpson, Arthur E., assignor.)
Hartkopf, Carl F., Georgetown, Ill. Nut locks. 1,664,744 Apr. 3.
Hartmann Trunk Company. (See Ritter, Julius, jr., assignor.)
Hartnett, Henry J., Los Angeles, Calif. Combination water faucet and sink trap. 1,665,029; Apr. 3.
Hartwig, Marcell, Los Angeles, Calif. Bunion corrector. 1,665,030; Apr. 3.
Hastings, Herbert, Brighton, N. Y. Liquid gauge. 1,664,558; Apr. 3.
Hatzel, Adolf, Selb, Germany, assignor to Mitchell, Woodbury Company, Boston, Mass. Plate or similar article. Des. 74,833; Apr. 3.
Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Suction air intake. 1,664,683; Apr. 3.
Haynes, Pierre E., Buffalo, N. Y., assignor to The Linde Air Products Company. Production of helium from natural gas. 1,664,412; Apr. 3.
Heaton, Herman C., Chicago, Ill., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,664,859; Apr. 3.
Hendley, Frederick H. (See Rutherford, Richard, assignor.)
Headley, Frederick H., Northfield, near Birmingham, England. Scooter. 1,664,858; Apr. 3.
Hebbard, Harrison, East Orange, assignor to Dominck & Haff, Inc., Newark, N. J. Handle for a knife or similar article. Des. 74,834; Apr. 3.
Heer, Edward E. (See Schepman, Frederick W., assignor.)
Heichen, Morris, Brooklyn, N. Y. Electric-fixture mount. 1,664,624; Apr. 3.
Heinrichs, Berg, Chicago, Ill., assignor to Mid-West Box Company, Anderson, Ind. Cutting and perforating mechanism. 1,664,413; Apr. 3.
Heise, Otto W., Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y. Nonvibrating gauge. 1,664,776; Apr. 3.
Helsing, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signal system. 1,664,860; Apr. 3.
Heigeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Dash light. 1,664,684; Apr. 3.
Helton, Peyton, Abbott, Tex. Cotton harvester. 1,664,924; Apr. 3.
Hemco Electric Manufacturing Company. (See McKinley, Benjamin P., assignor.)
Henry, Claude, Flint, Mich. Tire boot. 1,665,094; Apr. 3.
Henry, Jesse B., Connersville, Ind. Electrical plug lock. 1,665,095; Apr. 3.
Herkt, Ernst, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Scavenging internal-combustion engine. 1,664,817; Apr. 3.
Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company, Manual Morse multiplex system. 1,664,453; Apr. 3.
Herman, Karl, Chester, Pa. Window cleaner and clearer. 1,665,031; Apr. 3.
Hermance Machine Company. (See Betterley, Roland O., assignor.)
Heron, Sam D., Dayton, Ohio. Air-cooling internal-combustion engine. 1,664,414; Apr. 3.
Herzog, Eugene, Golden Valley, N. Dak. Display device for goods and prices. 1,664,415; Apr. 3.
Hewett, John R., Schenectady, N. Y. Photographic exposure calculator. 1,664,818; Apr. 3.
Heywood-Wakefield Company. (See Mathisen, Kristian M., assignor.)
Hill, Henry J., Jersey City, N. J. Mail receiving and delivering device. 1,664,819; Apr. 3.
Hill Laundry Equipment Co. (See Schrenkeisen, William C., assignor.)
Hill, Oris C., Pawtucket, R. I. Snap link. 1,665,059; Apr. 3.
Himmelein, George J. (See Daniels, S., and Himmelein.)
Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Automatic control means for electromagnetic operating devices. 1,665,060; Apr. 3.
Hitchcock, Helen S., New York, N. Y. Articulation of doll members. 1,664,979; Apr. 3.
Hoagland, Frank O., Bridgeport, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Fluid pump. 1,664,745; Apr. 3.
Hobart Manufacturing Company. (See Merseles, H. R., and Wood, assignors.)
Hoe, R., and Co. (See Sheldon, Edward P., assignor.)
Hohorst, William F., Monrovia, Calif. Liquid-level indicator. 1,664,416; Apr. 3.
Holdaway, Hall H., Long Beach, Calif. Welding bearing pins to legs of drill bits. 1,664,883; Apr. 3.
Holland, Andrew J., King City, Mo. Attachment for mowers. 1,665,032; Apr. 3.
Hollis, Otis A., Knoxville Borough, Pa. Erecting forms and apparatus for casting concrete walls. 1,664,884; Apr. 3.
Holmes, Edward C., Cincinnati, Ohio. Molding machine. 1,664,559; Apr. 3.
Holmes, Robert H., Chicago, Ill. Snap fastener. 1,665,096; Apr. 3.
Holtmann, August. (See Freiberger, M., and Holtmann.)
Holtsclaw, Oren E., assignor of one-half to G. I. Sellers & Sons Company, Elwood, Ind. Holder for electric fuses. 1,665,169; Apr. 3.
Holtz, Abraham, Bronx, assignor to Sadinoff & Wendroff Inc., New York, N. Y. Trimming and making same. 1,664,980; Apr. 3.
Horii, Shinjiro, Kanda-Ku, Tokyo, Japan. Stencil sheet. 1,664,777; Apr. 3.
Hosterman, Arthur D. (See Bowlus, Henry C., assignor.)
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Metal can. Des. 74,835; Apr. 3.
Howard, John A., West Brighton, N. Y. Windshield-cleaning device. 1,664,746; Apr. 3.
Howard, Lemuel F. (See Griffin, H. W., and Howard.)
Howe, Donald W., E. R. Pickett, and D. M. McBean, assignors to Beech-Nut Packing Company, Canajoharie, N. Y. Cleaning chicle and similar gums. 1,664,981; Apr. 3.
Howe, John D. (See Greenwald, H. A., and Howe.)
Hudson, William L., Syracuse, N. Y. Radiocondenser. 1,664,085; Apr. 3.
Huenefeld, Walter E., Cincinnati, Ohio. Stovepipe. 1,664,885; Apr. 3.
Huffman Manufacturing Company, The. (See Hughes, Robert D., assignor.)
Hughes, Charles L., Hamilton, Ontario, Canada. Window fastener. 1,664,820; Apr. 3.
Hughes, Howard R., jr., Houston, Tex. Shock absorber. 1,664,510; Apr. 3.
Hughes, Robert D., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Measuring can. 1,664,560; Apr. 3.
Huguenin, Albert, Paris, France. Circulation pump of the rotary type. 1,665,097; Apr. 3.
Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotation mechanism for rock drills. 1,664,625; Apr. 3.

Humphrey, Clayton W., Unionville, Conn. Jointed rule. 1,664,886; Apr. 3.
Hunt, Franklin L., and A. H. Mears, Washington, D. C. Combined statoscope and rate-of-climb indicator. 1,664,417; Apr. 3.
Hunt, Franklin L., and R. C. Sylvander, Washington, D. C. Aircraft ground-speed indicator. 1,664,464; Apr. 3.
Hunter, Joseph H., assignor to Detroit Insulated Wire Company, Detroit, Mich. Flexible robe rail. 1,664,418; Apr. 3.
Hunter, Joseph H., assignor to Detroit Insulated Wire Company, Detroit, Mich. Junction fitting for metallic armored electrical conductors. 1,664,686; Apr. 3.
Hunzelman, John B., Somerville, assignor to Wm. F. Schrafft & Sons Corp., Boston, Mass. Shipping case. 1,664,477; Apr. 3.
Hupp, Lonzo R., Urbana, Ohio. Planter. 1,664,925; Apr. 3.
Hutchins Car Roofing Company. (See Wilson, Alfred R., assignor.)
Hutchins, Harry H., New York, N. Y. Comb. 1,665,134; Apr. 3.
Hynes, Lee P., Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Thermostat. 1,664,778; Apr. 3.
Illinois Watch Case Company. (See Bates, George T., assignor.)
Illinois Watch Case Company. (See Eppenstein, Sidney C., assignor.)
Illinois Watch Case Company. (See Wakefield, Frank E., assignor.)
Imershein, Harriet, and L. E. Ginsburg, N. Y., assignors to Fairy Brassiere Co., Inc. Brassière bust supporter. 1,664,926; Apr. 3.
Ingersoll-Rand Company. See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
International Combustion Engineering Corporation. (See Skelly, John S., assignor.)
International Stamping Company. (See Green, Walter R., assignor.)
International Time Recording Company of New York. (See Miles, Joseph W., assignor.)
Isbell, Elton, Los Angeles, Calif. Information display device. 1,664,511; Apr. 3.
Ito, Yei, Selma, Calif. Sanitary protector. 1,664,620; Apr. 3.
J. & C. G. Bolinders Mekaniska Verkstads Aktiebolog. (See Liffiander, J. O., and Johnson, assignors.)
Jackman, William B., Niagara Falls, N. Y. Dental acid container. 1,664,419; Apr. 3.
Janca, Joseph J., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Short-circuiting mechanism. 1,664,561; Apr. 3.
Japy, Albert P., Berne-Seloncourt, France. Pulsometer. 1,664,927; Apr. 3.
Jeffrey Manufacturing Company, The. (See Montgomery, William J., assignor.)
Jensen, Carl C., Chicago, Ill. Clamp nail. 1,664,687; Apr. 3.
Jensen, Soren K., Wichita, Kans. Insulated container. 1,665,033; Apr. 3.
Jensen, Thorvald, St. Louis, Mo., assignor to The Winther Company, Wilmington, Del. Automotive drive. 1,664,502; Apr. 3.
Jett, George C., assignor to Runge Corn Harvester Company, Milwaukee, Wis. Gatherer. 1,665,034; Apr. 3.
Jobst, Conrad, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Brush-making machine. 1,664,420; Apr. 3.
Jobst, Conrad, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Tuft-forming mechanism. 1,664,421; Apr. 3.
Jobst, Conrad, assignor, by mesne assignments, to The Ohio. Work holder for brush machines. 1,664,422; Apr. 3.
Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Multiple work clamp for brush machines. 1,664,423; Apr. 3.
Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Tuft-separating mechanism for brush machines. 1,664,424; Apr. 3. Toledo Automatic Brush Machine Company, Toledo,
Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Continuous trimmer for brush machines. 1,664,425; Apr. 3.
Johns-Manville Corporation. (See Williams, Samuel A., assignor.)
Johnson, Alfred, Richfield, Minn. Overalls. 1,664,512; Apr. 3.
Johnson, Carl J. A. (See Liffiander, J. O., and Johnson.)
Johnson, Earl B., Hartsdale, N. Y. Antiskid chain for automobiles. 1,665,098; Apr. 3.
Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Sanitary pump. 1,664,930; Apr. 3.
Johnston, Frank E., Detroit, Mich. Radiator shield. 1,664,931; Apr. 3.
Joiner, Sylvester L., McGregor, Tex. Car-coupler-lock-lifter safety attachment. 1,664,982; Apr. 3.
Jones, George J., and E. J. Blanning, New Castle, Pa. Extractor for tuyères and tuyère coolers. 1,665,135; Apr. 3.
Jones, Lester L., Oradell, N. J. Variometer. 1,664,513; Apr. 3.
Jones, Louis W., Los Angeles, Calif. Melting pot. 1,664,779; Apr. 3.
Joseph, Frederick. (See Creamer, I. P., and Joseph.)
Judd, Richard, E. Taylor, and R. S. McNaney, assignors to Premier Warm-Air Heater Company, Dowagiac, Mich. Additional air supply for warm-air furnaces. 1,664,821; Apr. 3.
Judson, Russell V., Detroit, Mich. Adjustable sorting machine. 1,665,061; Apr. 3.
Juricinec, François, Paris, France. Monkey wrench. 1,664,932; Apr. 3.
Kaczmarski, Bronislaw, Detroit, Mich. Shade roller. 1,664,627; Apr. 3.
Kamensky, Basile, Berlin, Germany. Internal-combustion engine without carburetor. 1,664,747; Apr. 3.
Katz, Aaron S., New York, N. Y. Console table and cabinet. Des. 74,836; Apr. 3.
Kaupke, Lee H., nasignor to Rock Island Plow Company, Rock Island, Ill. Windrow hay loader. 1,664,688; Apr. 3.
Keene, Alvin D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Tilting-hearth-tray furnace. 1,664,749; Apr. 3.
Kellogg Switchboard and Supply Company. (See Currier, H. D., and Shull, assignors.)
Kelly, William M., Westfield, N. J. Snap guide. 1,664,928; Apr. 3.
Kelly, William M., Westfield, N. J. Sheet-feeding mechanism. 1,664,929; Apr. 3.
Kennett, Richard, assignor of one-third to S. Randall, St. Louis, Mo. Shoe. 1,664,563; Apr. 3.
Kern, Ludwig, Baltimore, Md. Manufacturing chamotte materials. 1,664,689; Apr. 3.
Kessler, Armin G., assignor to Farrell Foundry and Machine Co., Buffalo, N. Y. Fluid-circulating plate. 1,664,628; Apr. 3.
Kharasch, Morris S., College Park, Md. Water-soluble metallic organic compound and making the same. Re16,921; Apr. 3.
Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Producing tapered expanded-metal receptacles. 1,664,629; Apr. 3.
Kiesling, Samuel F., and O. Halvorsen, Chicago, Ill. Work holder for printing and embossing machines. 1,665,099; Apr. 3.
Kimmel, George C., Worcester, Mass., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Automatic coolant-arresting mechanism. 1,664,983; Apr. 3.
King, George E., Newton, assignor to The Gamewell Company, Newton Upper Falls, Mass. Signal instrument. 1,664,933; Apr. 3.
King, Robert W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical translating circuit. 1,664,455; Apr. 3.
Kirkham, Philip, Riverside, Conn., and G. A. Scheel, Jackson Heights, assignors to F. A. O. Schwartz, New York, N. Y. Portable outdoor swimming pool. 1,664,887; Apr. 3.
Kirschner, Felix, Vienna, Austria. Production of galvanic metal coatings. 1,664,750; Apr. 3.
Kistler, William, Chatham, Ontario, Canada. Assembling tubular-steel-spoked automobile wheels. 1,664,822; Apr. 3.
Kitchen, Robert H., and H. N. Norris, assignors of one-third to A. Fields, Grayson, Ky. Direction indicator. 1,664,751; Apr. 3.
Klaucke, Hermann, Worcester, assignor to Baldwin Chain & Mfg. Co., Auburn, Mass. Pin-retaining means for chains. 1,665,100; Apr. 3.
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Nested control for both clamp and speeds. 1,664,888; Apr. 3.
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Detachable gear unit. 1,664,889; Apr. 3.
Kleebauer, Charles P., Cohoes, and R. M. Lackey, Waterford, assignors to Cohoes Envelope Co., Inc., Cohoes, N. Y. Parcel bag. 1,665,035; Apr. 3.
Klinch Lath Corporation. (See Strand, Joseph, assignor.)
Knapp Electric Corporation. (See Yessler, G. Fred, assignor.)
Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Size indicator for surface grinders. 1,664,823; Apr. 3.
Koehler, William, Cleveland, Ohio. Production of magnesium oxide. 1,664,630; Apr. 3.
Koehler, William, Cleveland, Ohio. Production of refractory magnesia compounds. 1,664,631; Apr. 3.
Koeker, Carl H., Dayton, Ohio. Mop holder. 1,664,824; Apr. 3.
König, Georg, Berlin-Dahlem, Germany. Measuring the density of gas. 1,664,752; Apr. 3.
Koppers Company, The. (See Becker, Joseph, assignor.)
Koppers Company, The. (See Parry, Nathaniel G., assignor.)

Koppers Company, The. (See Puening, Franz, assignor.)
Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Coking retort oven. 1,664,632; Apr. 3.
Korns, Lewis F., Minneapolis, Minn. Indirect lighting system for motor vehicles. 1,664,748; Apr. 3.
Kraft, Selmer A., St. Paul, and S. T. Sheppard, Mankato, Minn. Machine for washing dishes. 1,664,690; Apr. 3.
Kramer, Eric B., Brooklyn, N. Y. Capping machine. 1,664,514; Apr. 3.
Krejci, Robert F., Cleveland, Ohio. Retaining device. 1,664,890; Apr. 3.
Kretzschmar, Walter. (See Meyer, A., and Kretzschmar.)
Kronheim, Jacob, Cleveland, Ohio. Chair or couch. 1,664,934; Apr. 3.
Kulick, Edward L., Milwaukee, Wis., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill. Bracket and brake lever. 1,664,825; Apr. 3.
Kyle, Samuel C., New York, N. Y. Smoker's stand. Des. 74,837; Apr. 3.
Lackey, Robert M. (See Kleebauer, C. P., and Lackey.)
Laing, Bryan. (See Nielsen, Harald, assignor.)
Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)
Lambert, William R., assignor of one-fifth to O. Gilstrap, Norphlet, Ark. Opening device for cans. 1,664,515; Apr. 3.
Lane, Charles F., San Jose, Calif. Elevator. 1,665,101; Apr. 3.
Lang, John D., Aulander, N. C. Automatic privy-vault cover. 1,664,426; Apr. 3.
Lange, Henry, Quincy, Ill. Gas heater. Des. 74,838; Apr. 3.
Lange, Henry, Quincy, Ill. Heating stove. Des. 74,839; Apr. 3.
Langenfeld, Herman H., Earling, Iowa. Carton rack. 1,664,753; Apr. 3.
Langewisch, John T., Sweet Springs, Mo. Watering trough. 1,664,691; Apr. 3.
Lanphere, Clive W., New York, N. Y. Lock mechanism. 1,664,984; Apr. 3.
Larsen, Ole C., Minneapolis, Minn. Vise. 1,665,170; Apr. 3.
Lauffer, Jean, Logelbach, France. Pressure and drawing cylinder for spinning machines. 1,665,136; Apr. 3.
Laukel, Arthur K., Detroit, Mich. Mold for making metal patterns by electrodeposition. 1,665,062; Apr. 3.
Le Blanc, Louis J. (See Fredrick, Edgar, assignor.)
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Lederer, Fred J., Buffalo, N. Y. Marking machine. 1,665,197; Apr. 3.
Lehmer, Herman K., Rockford, Ill. Road-subgrading machine. 1,664,634; Apr. 3.
Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Carbonated-water cooler. 1,664,780; Apr. 3.
Leland Electric Company, The. (See Leland, George H., assignor.)
Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Dynamo-electric machine. 1,664,781; Apr. 3.
Lenher Engineering Company. (See Barrett, George E., assignor.)
Leuthesser, Fred W., Oak Park, Ill. Coupling for battery terminals. 1,664,692; Apr. 3.
Levinson, Lawrence H., Chicago, Ill. Shade holder. 1,664,516; Apr. 3.
Lewis, Essington. (See Power, W. P., and Lewis.)
Liebl, Henry J., Buffalo, N. Y. System of transportation. 1,664,517; Apr. 3.
Liflander, Johan O., and C. J. A. Johnson, assignors to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolog, Stockholm, Sweden. Machine frame. 1,665,137; Apr. 3.
Lindberg, John F., assignor to Reliance Die & Stamping Company, Chicago, Ill. Electrostatic condenser. 1,664,518; Apr. 3.
Linde Air Products Company, The. (See Haynes, Pierre E., assignor.)
Linz, John, Pittsburgh, Pa. Ventilator. 1,664,456; Apr. 3.
Lipner, Abe, Indiana Harbor, Ind. Culinary strainer. 1,664,564; Apr. 3.
Littler, James H., assignor to S. Cheney & Son, Manlius, N. Y. Rotary grinder. 1,664,693; Apr. 3.
Livingston, Edward G. et al. (See Martin, Robert E., assignor.)
Livingston, Louis L., et al. (See Martin, Robert E., assignor.)
Lloyd, Alfred, London, England, assignor to M. F. Pratt, Rochester, N. Y. Electrical hair or massage brush. 1,664,457; Apr. 3.
Locke Insulator Corporation. (See Christensen, Oscar, assignor.)
Locomotive Terminal Improvement Company, The. (See Otis, Spencer, assignor.)
Lord, Fred W., assignor to The Oakes Manufacturing Company, Tipton, Ind. Storage brooder. 1,665,102; Apr. 3.
Lovvorn, Robert L., Gadsden, Ala. Valve-stem protector. 1,664,694; Apr. 3.
Lowe, William Q., Akron, Ohio. Clothes tongs. 1,664,935; Apr. 3.
Luke, Howard J., administrator. (See Luke, James A.)
Luke, James A., deceased; H. J. Luke, administrator, Cleveland, Ohio. Spring suspension for vehicles. 1,664,478; Apr. 3.
Lundgren, Jacob, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Balancing machine. 1,665,138; Apr. 3.
Lundholm, Carl O., Moiese, Mont. Measuring device for containers. 1,665,139; Apr. 3.
Lusse Brothers. (See Lusse, Joseph, assignor.)
Lusse, Joseph, assignor to the firm of Lusse Brothers, Philadelphia, Pa. Vehicle controlling apparatus. 1,665,103; Apr. 3.
Lutzner, Frank. (See Oehmig, J., jr., and Lutzner.)
Lyman, Kent E., Cleveland, Ohio. Spring-actuated lubricator. 1,664,936; Apr. 3.
Lyne, Frederick C., Westminster, London, and J. Etchells, Aston, Birmingham, assignors to Vickers Limited, Westminster, London, England. Automatic regulation in electric-lighting systems. 1,664,519; Apr. 3.
Lynn, Thomas H., Williamsport, Pa. Tire carrier. 1,664,754; Apr. 3.
Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, doing business as Barbour Welting Company, Brockton, Mass., Beaded welting and making the same. 1,664,891; Apr. 3.
MacKean, Emroe A., Saugus, Mass. Throttle control for automobiles. 1,664,479; Apr. 3.
Magdeburger, Edward C., Washington, D. C. Internal-combustion engine. 1,664,782; Apr. 3.
Magill, Donald G., Brooklyn, assignor to American Can Company, New York, N. Y. Milk-bottle closure and applying same. 1,664,635; Apr. 3.
Magina, Joao, New Bedford, Mass. Harness-operated stop-motion device for looms. 1,664,520; Apr. 3.
Magnus Fruit Products Co. (See Leibing, William E., assignor.)
Magrath, George H., assignor to Whitin Machine Works, Whitinsville, Mass. Thread guide for spinning and twisting machines. 1,665,063; Apr. 3.
Magrath, George H., assignor to Whitin Machine Works, Whitinsville, Mass. Tool for removing waste from spindles. 1,665,064; Apr. 3.
Malloy, William W., San Pedro, Calif. Centrifugal machine. 1,665,065; Apr. 3.
Maloney, Stephen F., assignor of one-half to E. R. Widden, Scranton, Pa. Smoker's appliance. 1,664,937; Apr. 3.
Mammen, Lawrence W., Chicago, Ill. Airship. 1,664,565; Apr. 3.
Manning, Bowman & Co. (See Savage, George E., assignor.)
March, Carl, Chicago, Ill. Compound tool. 1,664,783; Apr. 3.
Mares, Cres, Corona, N Mex. Anchor plate. 1,664,458; Apr. 3.
Mariotti, Joseph J., assignor to Daprato Statuary Company, Chicago, Ill. Safe lock. Re16,919; Apr. 3.
Markey, John J., Washington, Pa. Tinning pot. Re16,922; Apr. 3.
Marquette Tool & Mfg. Company. (See Rode, Fredrich J., assignor.)
Marshall, Charles A. (See Boynton, Jesse L., assignor.)
Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Fastener. 1,664,566; Apr. 3.
Martienssen, Ernst E., Hamburg, Germany. Drainage system for playing grounds. 1,665,104; Apr. 3.
Martin, Robert E., assignor of three one-hundredths to L. L. Livingston and one-twentieth to E. G. Livingston, Sheridan County, Wyo. Spark arrester. 1,655,036; Apr. 3.
Marvel Equipment Company, The. (See Spaeth, Charles, assignor.)
Mason, Charles T., Sumter, S. C. Control mechanism. 1,664,459; Apr. 3.
Massing, Charles A., Millcreek Township, Erie county, assignor to The Griswold Manufacturing Company, Erie, Pa. Skillet. 1,665,037; Apr. 3.
Master, Shavuksha D., Bombay, India. Tide pump. 1,665,140; Apr. 3.
Masters, Edwin G., Anderson, Ind. Novelty device. 1,664,695; Apr. 3.
Mathisen, Kristian M., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Machine for squaring spoke stock. 1,664,861; Apr. 3.
Matteson, Jesse V., jr., Santa Rosa, Calif. Ortho rotor plane. 1,665,171; Apr. 3.
Maurer, John H., Long Beach, Calif. Combination fastener. 1,664,696; Apr. 3.
Mauser, Alfons, Cologne-Marienburg, Germany. Container. 1,664,985; Apr. 3.
Mayer, Augustine, St. Augustine, Fla. Cooling device. 1,664,636; Apr. 3.
Mayer, Charles P., Elizabeth, N. J. Flow meter. 1,665,141; Apr. 3.
Mayer, Fred, Philadelphia, Pa. Pocket construction. 1,664,460; Apr. 3.
Mayette, Anne D., Cleveland, Ohio. Cushion for sink strainers. 1,664,521; Apr. 3.

McBean, Douglas M. (See Howe, D. W., Pickett, and McBean.)
McCormick Brothers Company. (See Halvorsen, Axel I. S., assignor.)
McCree, Andrew A., St. Paul, Minn. Valve-actuating mechanism for concrete mixers. 1,664,427; Apr. 3.
McDonnell, Ellen, Chicago, Ill. Surgical appliance. 1,664,938; Apr. 3.
McIntire, Allyn B., Newton Center, assignor to Pepperell Manufacturing Company, Boston, Mass. Box cover. Des. 74,840; Apr. 3.
McKinley, Benjamin P., Flushing, assignor to Hemco Electric Manufacturing Company, Inc., Long Island City, N. Y. Plug connecter. 1,664,986; Apr. 3.
McMillan, Randal, and M. R. Schall, Palo Alto, Calif. Coffeepot. 1,665,143; Apr. 3.
McMurray, Hugh. (See West, Robert, assignor.)
McNaney, Ralph S. (See Judd, R., Taylor, and McNaney.)
McPherson, Charles, assignor, by mesne assignments, to Friction Power Corporation Limited, Montreal, Quebec, Canada. Power-transmitting device. 1,664,567; Apr. 3.
McVicker, Emery M., Milwaukee, assignor to J. F. McVicker, Milwaukee County, Wis. Rail anchor. 1,665,187; Apr. 3.
McVicker, J. F. (See McVicker, Emery M., assignor.)
Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Electric welding machine. 1,665,038; Apr. 3.
Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Electric welding machine. 1,665,066; Apr. 3.
Meadowcroft, Joseph W., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Electric welding machine. 1,665,067; Apr. 3.
Meaker Co., The. (See Miller, C. G., and Cleveland, assignors.)
Mears, Atherton H. (See Hunt, F. L., and Mears.)
Mentrum, Leonard. (See Grebe, Conrad H., assignor.)
Mercadante, Joseph. (See Thomson, Alfred M., assignor.)
Merker, Monte C., Reading, Pa. Billboard. 1,665,142; Apr. 3.
Merritt, Mary E. A., Long Beach, Calif. Easel. 1,664,784; Apr. 3.
Merseles, Henry R., Bronxville, and P. M. Wood, New Rochelle, N. Y., assignors, by mesne assignments, to Hobart Manufacturing Company, Troy, Ohio. Washing machine. 1,664,637; Apr. 3.
Messer, Edward, Pittsburgh, Pa. Marking confectionery. 1,664,826; Apr. 3.
Metzner, Albert W., assignor to J. Q. Sherman, Dayton, Ohio. Manifolding machine. 1,664,568; Apr. 3.
Metzroth, William, Syracuse, N. Y. Controlling means for starters for internal-combustion engines. 1,664,522; Apr. 3.
Meyer, Arthur, and W. Kretzschmar, New York, N. Y.; said Kretzschmar assignor to said Meyer. Necktie holder. 1,664,892; Apr. 3.
Meyer, Robert, Gelsenkirchen, Germany. Rotary engine. 1,664,987; Apr. 3.
Meyering, Bernard, Rochester, N. Y. Joint. 1,664,893; Apr. 3.
Mezger, Robert, Stuttgart, Germany. Producing stable emulsions. 1,665,105; Apr. 3.
Micall, John, Lawrence, Mass. Shank-forming tool. 1,665,172; Apr. 3.
Micks, Henry S., Chicago, Ill. Circuit-controlling device. 1,664,697; Apr. 3.
Midway Iron Works, Inc. (See Milz, Max J., assignor.)
Mid-West Box Company. (See Heinrichs, Berg, assignor.)
Miles, Joseph W., London, England, assignor to International Time Recording Company of New York, Endicott, N. Y. In-and-out machine. 1,664,523; Apr. 3.
Miller, Constantine G., and C. F. Cleveland, Chicago, Ill., assignors to The Meaker Co. Pickling machine. 1,664,428; Apr. 3.
Miller, Hugh G. (See Firth, Elmer W., assignor.)
Mills, Ronald V., Sandy Spring, Md., assignor to P. Q. Nyce, Washington, D. C. Electrochemical method of and means for protecting buried pipe lines against corrosion. 1,664,800; Apr. 3.
Milner, Nugent, assignor to Graham Brothers, Evansville, Ind. Bus-body construction. 1,664,569; Apr. 3.
Milz, Max J., assignor to Midway Iron Works, Inc., Taft, Calif. Band-wheel counterbalance. 1,664,524; Apr. 3.
Misener, John I., Syracuse, N. Y. Hammer attachment for electric drills and the like. 1,665,173; Apr. 3.
Mitchell, Woodbury Company. (See Auvera, Hugo, assignor.)
Mitchell, Woodbury Company. (See Hatzel, Adolf, assignor.)
Mitter, Joseph H., Chicago, Ill. Floor construction. 1,664,638; Apr. 3.
Mobley, Ida E., Roslyn, Pa. Sound reproducer. 1,664,988; Apr. 3.
Monroe Calculating Machine Company. (See Chase, George C., assignor.)
Montgomery, Gustavus A., Titusville, Pa. Casing elevator. 1,664,461; Apr. 3.
Montgomery, William J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Ventilating apparatus. 1,665,039; Apr. 3.
Montgomery, William J., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Ventilating apparatus. 1,665,174; Apr. 3.
Moore, Harry M., Elmira, Mo. Fence-wire structure. 1,664,785; Apr. 3.
Moore, Henry A. (See Stuart, T. F., and Moore.)
Moran, Alfred P., Ridgefield Park, N. J. Gasoline-storage-tank-fitting. 1,665,106; Apr. 3.
Morris, Frank E. (See Bergner, John C., assignor.)
Morrison, Robert A., and F. L. Oswald, Portland, Oreg. Fireproof iron stand. 1,664,698; Apr. 3.
Mortimer, Lewis F., Los Angeles, Calif. Dial lock for automatic telephones. 1,664,939; Apr. 3.
Mosler Lock Company, The. (See Benham, Edgar M., assignor.)
Mosler Lock Company, The. (See Benham, E. M., and Bauer, assignors.)
Mottler, Walter F., El Camp, Tex. Hayrake. 1,664,699; Apr. 3.
Muehleisen, Gottlieb, assignor to National Soil Conservation Company, Alma, Wis. Mail box. 1,664,462; Apr. 3.
Muller, George W., Washington, D. C. Railway rail and tie holding means. 1,665,107; Apr. 3.
Muller, George W., Washington, D. C. Rail-joint bar or fishplate. 1,665,108; Apr. 3.
Multer, Hugh J. (See Gard, E. W., Aldridge, and Multer.)
Multhaup, William, Winona, Minn. Electric paint remover. 1,664,429; Apr. 3.
Multiple Electric Products Company. (See Swenson, Swen R., assignor.)
Mumovich, Spiro, Anyox, British Columbia, Canada. Dust-collecting device for rock drills. 1,664,786; Apr. 3.
Munters, Carl G. (See Von Platen, B. C., and Munters.)
Murphy, James A., assignor to United States Cartridge Co., Lowell, Mass. Manufacture of primer anvils. 1,664,480; Apr. 3.
Murray, Howard J., New York, N. Y., assignor, by mesne assignments, to H. A. Douglas, Bronson, Mich. Burglarproof induction coil. Des. 16,920; Apr. 3.
Murray, Milton, Williams Wharf, Va. Fishing-tackle attachment. 1,665,144; Apr. 3.
Murray, Thomas E. (See Rypinski, Albert B., assignor.)
Muryn, John J., Milwaukee, Wis. Metal building construction. 1,664,463; Apr. 3.
N. V. Philip's Gloeilampenfabrieken. (See Bol, Cornelis, assignor.)
National Cash Register Company, The. (See Robertson, William H., assignor.)
National Cash Register Company, The. (See Tönsmann, Henry, assignor.)
National Cash Register Company, The. (See Von Pein, Edward J., assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
Natural Soil Conservation Company. (See Muehleisen, Gottlieb, assignor.)
Nayer, Carl F., Chicago, Ill., assignor to Fulton Machine Co. Paper-gripping device for plate printers. 1,664,700; Apr. 3.
Nead, John H. (See Reinartz, L. F., and Nead.)
Neely, William H., assignor to Graham Brothers, Evansville, Ind. Underslung tire carrier. Re16,923; Apr. 3.
Nelson, Henry A., Bijou Hills, S. Dak. Trimmer. 1,665,109; Apr. 3.
Nesheim, Anders H., Milwaukee, assignor to Federal Steel Sash Company, Waukesha, Wis. Ventilating-skylight-operating device. 1,664,894; Apr. 3.
Nethercut, Edgar S. (See Peterson, Burt A., assignor.)
New England Spun Silk Corporation. (See Wyss, Julius, assignor.)
New Jersey Zinc Company, The. (See Breyer, F. G., Bunce, and Weikel, assignors.)
Newport Company, The. (See Weiland, H. J., and Gubelmann, assignors.)
New York Lighting Fixture Mfg. Co., The. (See Aglow, Harry, assignor.)
New York Mills Corporation. (See Hamilton, Charles S., assignor.)
Nicholay, Paul, assignor to Deceleco, Inc., Wayne, Mich. Alignment strip for electrical barriers. 1,664,827; Apr. 3.
Nickels, James, Silvis, Ill. Automobile bumper. 1,664,989; Apr. 3.
Nieberding, Anthony A., Brookpark, Ohio. Heater. Des. 74,841; Apr. 3.
Nielsen, Harald, Muswell Hill, London, assignor of one-half to B. Laing, Hatfield, England. Manufacture of catalysts. 1,665,175; Apr. 3.
Niles-Bement-Pond Company. (See Cole, Lyndon C., assignor.)
Niles-Bement-Pond Company. (See Randolph, Clifford F., assignor.)
Norris, Henry N. (See Kitchen, R. H., and Norris.)
North, Clayton O., Tallmadge Township, Summit County, and W. Scott, assignors to The Rubber Service Laboratories Co., Akron, Ohio. Rubber-vulcanization accelerator. 1,664,481; Apr. 3.
Norton, Edward L., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical network. 1,664,755; Apr. 3.
Nyce, Peter Q. (See Mills, Ronald V., assignor.)
Nydqvist, Antenor, Trollhattan, Sweden. Blade wheel. 1,664,895; Apr. 3.

Oakes Manufacturing Company, The. (See Lord, Fred W., assignor.)
Oakley, George E., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Air brake. 1,664,787; Apr. 3.
Oberhammer, Ludwig, Munich, Germany. Automatic or self-loading small arm. 1,664,788; Apr. 3.
O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Chain anchor for brake gears. 1,665,188; Apr. 3.
Oehmig, Paul, jr., and F. Lutzner, Chicago, Ill. Making seamless tubing. 1,664,990; Apr. 3.
Olds, Richard, Walkersville, Australia. Machine for fleshing furred skins. 1,664,991; Apr. 3.
Olmsted, Roger W. (See Browne, W. G., and Olmsted.)
Olsen, George F., Los Angeles, Calif., assignor to General Petroleum Corporation of California. Neutralizing treatment of acid oils for lubricant stocks. 1,665,110; Apr. 3.
Olsen, George F., assignor to General Petroleum Corporation of California, Los Angeles, Calif. Treatment of lubricant stocks. 1,665,111; Apr. 3.
O'Neal, Nathaniel P., Hope, Ark. Masonry-jointing tool. 1,664,701; Apr. 3.
O'Neil, Henry J., Tampico, Ill. Disk-harrow attachment. 1,664,430; Apr. 3.
Open Hearth Combustion Company. (See Danforth, George L., jr., assignor.)
Oppe, Charles. (See Gargiulo, F., Edwards, and Oppe.)
Osborn, Glenn M., Salt Lake City, Utah. Milk-can cooler. 1,664,702; Apr. 3.
Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Hauling mechanism. 1,665,068; Apr. 3.
Osthoff, Walter, Barmen, Germany. Heating the singeing members of cylinder singeing machines. 1,664,993; Apr. 3.
Oswald, Franklin L. (See Morrison, R. A., and Oswald.)
Oswego Falls Corporation. (See Wright, W. L., and Dolphin, assignors.)
Otis, Spencer, assignor to The Locomotive Terminal Improvement Company, Chicago, Ill. Keeping up the temperature in hot-water-supply systems. 1,664,862; Apr. 3.
Owen, William, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company. Machine for rounding the edges of glass sheets. 1,665,040; Apr. 3.
Owens, John H., Elgin, Ill. Pit cover. 1,664,525; Apr. 3.
Paecht, Hugo C., assignor to Standard Safety Manufacturing Co., New Haven, Conn. Automatic guard for the intermittently-operated rams of power machines. 1,664,790; Apr. 3
Paff, George A., Portsmouth, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Machine for twisting the eyes of wire reels. 1,665,069; Apr. 3.
Page, John W., Chicago, Ill. Excavating shovel. 1,664,940; Apr. 3.
Pain, James, & Sons Limited. (See Craig, Alfred, assignor.)
Parke, Victor E. (See Slade, R. B., and Parke.)
Parry, Nathaniel G., assignor to The Koppers Company, Pittsburgh, P. Coking retort oven. 1,664,633; Apr. 3.
Parson, Ben G., South Bend, Ind., assignor to The Bendix Brake Company. Adjustable cam for brakes. 1,664,828; Apr. 3.
Parson, Walter. (See Welmer, A. W., and Smith, assignors.)
Parsons, John H., Pontiac, Mich. Ventilator for vehicles. 1,664,829; Apr. 3.
Peaslee, Willetts. (See Einstein, S., Peaslee, and Haas.)
Peltz, Gordon M., assignor to Corning Glass Works, Corning, N. Y. Apparatus for delivery of fluid to burners. 1,665,145; Apr. 3.
Pepperell Manufacturing Company. (See McIntire, Allyn B., assignor.)
Perco Heater Corporation. (See Boynton, Charles B., assignor.)
Perdue, George E., Santa Monica, Calif. Grindstone attachment for sausage mills. 1,664,896; Apr. 3.
Perilli, Louis, Portsmouth, N. H. Propelling mechanism for vehicles. 1,664,570; Apr. 3.
Perkins, Albert G., Buffalo, N. Y. Pipe joint. 1,664,941; Apr. 3.
Perry, Wilton H., Brooklyn, N. Y. Bottle and closure therefor. 1,664,756; Apr. 3.
Peterson, Burt A., Rockford, assignor to E. S. Nethercut, Evanston, Ill. Tying weavers' knots. 1,664,571; Apr. 3.
Pettingell, Frederic A., and A. Carlson, assignors to Dayton-Wright Company, Dayton, Ohio. Back-spring construction for seats. 1,664,526; Apr. 3.
Pfanhauser, Wilhelm A. F., Leipzig, Germany. Withdrawal of vapors and gases from galvanotechnical tanks. 1,664,482; Apr. 3.
Pflager, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Truck pedestal. 1,664,830; Apr. 3.
Pflager, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Truck pedestal. 1,664,831; Apr. 3.
Pickett, Earle R. (See Howe, D. W., Pickett, and McBean.)
Pierce, Robert C., Belleville, N. J., assignor, by mesne assignments, to American Chain Company, Inc. Tire bead. 1,665,070; Apr. 3.
Pilbrow, Alfred G., Chicago, Ill. Pass book for banks. 1,664,897; Apr. 3.
Pilkington Brothers Limited. (See Slocombe, Frank E., assignor.)
Piron Coal Distillation Systems, Inc. (See Piron, Emil, assignor.)
Piron, Emil, assignor to Piron Coal Distallation Systems, Inc., New York, N. Y. Apparatus for absorbing fluids from gases. 1,664,483; Apr. 3.
Piron, Emil, assignor to Piron Coal Distallation Systems, Inc., New York, N. Y. Removing tar from gases. 1,664,484; Apr. 3.
Pitchford, C. E., et al. (See Simpson, Arthur E., assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
Planess, Maurice, Alger, France. Plow. 1,665,041; Apr. 3.
Pongo, Sigmund, New York, N. Y. Electrotherapeutical apparatus. 1,664,992; Apr. 3.
Poole, Lora E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Commutator-riveting machine. 1,664,527; Apr. 3.
Pope, Arthur W., jr., assignor to Waukesha Motor Company, Waukesha, Wis. Engine-balancing system 1,664,942; Apr. 3.
Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-assembling machine. 1,664,639; Apr. 3.
Post, Claude L., Chicago, Ill. Sheet feeding and driving means. 1,664,640; Apr. 3.
Poulsen, Oscar, Alameda, Calif. Centrifugal pump. 1,664,572; Apr. 3.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 1,664,943; Apr. 3.
Power, William P., Newcastle, New South Wales, and E. Lewis, Malvern, Victoria, Australia, assignors to The Broken Hill Proprietary Company, Limited. Blast furnace. 1,664,832; Apr. 3.
Powers, Joseph H., Mills, Wyo. Traffic signal for automobiles. 1,664,791; Apr. 3.
Pratt, Milan F. (See Lloyd, Alfred, assignor.)
Pratt & Whitney Company. (See Doane, John A., assignor.)
Pratt & Whitney Company. (See Durkee, James W., assignor.)
Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
Pratt & Whitney Company. (See Knowles, Carroll, assignor.)
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,664,703; Apr. 3.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,665,071; Apr. 3.
Premier Warm-Air Heater Company. (See Judd, R., Taylor, and McNaney, assignors.)
Prosperity Company, Inc., The. (See Davis, Ernest, assignor.)
Puening, Franz, assignor to The Koppers Company, Pittsburgh, Pa. Still. 1,664,863; Apr. 3.
Purchas, Frederick A., McGraw, N. Y. Candy box. 1,664,464; Apr. 3.
Purchas, Frederick A., McGraw, N. Y. Partitioning device. 1,664,465; Apr. 3.
Pyle, Ellis M. (See Zimmerman, F. D., and Pyle.)
Raasch, Paul K., East Akron, Ohio. Coaster wagon. 1,664,641; Apr. 3.
Ramgren, Napoleon, Ogilvie, Minn. Cream cooler. 1,664,704; Apr. 3.
Randall, Seth. (See Kennett, Richard, assignor.)
Randle, George N., Oakland, Calif. Urinal for automobiles and the like. 1,664,642; Apr. 3.
Randolph, Clifford F., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Tailstock-clamping mechanism. 1,664,757; Apr. 3.
Raschick, Charles T., St. Paul, Minn. Restaurant check. 1,664,573; Apr. 3.
Rasmussen, Chester A., Long Beach, Calif. Capping device for oil wells. 1,664,643; Apr. 3.
Rea, Augustin P., Mexico, Mexico. Jewelry. 1,664,994; Apr. 3.
Reach, Milton B., Sprinfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Tennis racket. 1,664,466; Apr. 3.
Reed, Clarence E., Wichita, Kans. Rotary drill bit of the flat-blade type. 1,664,528; Apr. 3.
Reinartz, Leo F., and J. H. Nead, assignors to The American Rolling Mill Company, Middletown, Ohio. Making commercially-pure iron alloys. 1,665,146; Apr. 3.
Reliance Die & Stamping Company. (See Lindberg, John F., assignor.)
Reo Motor Car Company. (See Wells, Walter W., assignor.)
Reynolds, Marvin C. (See Epstein, A. K., and Reynolds.)
Reynolds, Robert O., assignor to A. Baker, Auburn, Me. Electrically-heated-sadiron stand. 1,664,758; Apr. 3.

Rice, Barton & Fales, Inc. (See Vedder, John W., assignor.)
Richards, Ernst R., Chicago, Ill., assignor to American Assembling Machine Company, Inc., New York, N. Y. Tipping machine. 1,664,898; Apr. 3.
Richards, Temple, Glace Bay, Novia Scotia, Canada. Seeder. 1,665,042; Apr. 3.
Riehle Bros. Testing Machine Co. (See Tretch, W. J., and Buckingham, assignors.)
Ries, Frederick, Compton, Calif. Explosive package and carrier. 1,664,899; Apr. 3.
Rimailho, Emile, assignor to Compagnie des Forges & Acieries de la Marine & d'Homecourt, Paris, France. Arrangement providing for the aiming of an artillery carriage in all directions. 1,665,176; Apr. 3.
Ringer, Soren, Oak Park, Ill., assignor to Ringer-Worcester Company, Worcester, Mass. Metal receptacle. 1,664,431; Apr. 3.
Ringer-Worcester Company. (See Ringer, Soren, assignor.)
Ritter, Herbert G., assignor to Waukesha Motor Company, Waukesha, Wis. Bearing-bolt structure. 1,664,944; Apr. 3.
Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Clamping lock. 1,664,432; Apr. 3.
Robert, Alexander C., Desdemona, Tex. Self-service store equipment. 1,664,945; Apr. 3.
Robertson, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,664,946; Apr. 3.
Rochelle, Joseph B., Hohen Solms, La. Ice-making apparatus. 1,664,705; Apr. 3.
Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
Rode, Fredrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Hydraulic cushion for sheet-metal presses. 1,664,485; Apr. 3.
Rode, Frederich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Hydraulic cushion for sheet-metal presses. 1,664,486; Apr. 3.
Rode, Fredrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Hydraulic cushion for sheet-metal presses. 1,664,487; Apr. 3.
Rodolausse, Eloi, St. Antonin, France. Speed-controlling device for railway and tramway trains. 1,665,112; Apr. 3.
Roeske, Henry O., Belfast, N. Y. Household twine reel. 1,664,467; Apr. 3.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit breaker. 1,665,113; Apr. 3.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rose, William H., Jersey City, N. J. Container closure. 1,664,995; Apr. 3.
Rosenbaum, Benjamin, Bronx, N. Y. Mixing valve. 1,664,900; Apr. 3.
Rosenbaum, Benjamin, New York, N. Y. Duplex valve and mixer. 1,664,901; Apr. 3.
Roth, Ernest W., assignor to General Petroleum Corporation of California, Los Angeles, Calif. Separation of acid-sludge emulsions. 1,665,180; Apr. 3.
Roth, Ernest W., assignor to General Petroleum Corporation of California, Los Angeles, Calif. Hydrolysis of acid sludge. 1,665,190; Apr. 3.
Roxana Petroleum Corporation. (See Carney, Samuel C., assignor.)
Rubber Service Laboratories Co., The. (See North, C. O., and Scott, assignors.)
Ruffner, James E., Jeannette, Pa. Washing machine. 1,664,792; Apr. 3.
Runge Corn Harvester Company. (See Jett, George C., assignor.)
Rusch, Mathew E., St. Paul, Minn. Traffic regulator. 1,664,947; Apr. 3.
Russ, John B., Shelton, assignor to The Basset Metal Goods Company, Inc., Derby, Conn. Bag-lock escutcheon or similar article. Des. 74,842; Apr. 3.
Rutherford, Harry K., Cambridge, Mass. Data transmitter and receiver. 1,664,948; Apr. 3.
Rutherford, Richard, London, assignor to F. H. Headley, Birmingham, England. Scooter. 1,664,864; Apr. 3.
Ryan, Conrad A., Canton, Minn. Grinding machine for mill burrs or other articles. 1,665,177; Apr. 3.
Ryan, Paul, Dakota City, Nebr. Attachment for cultivators or plows. 1,665,178; Apr. 3.
Rypinski, Albert B., assignor to T. E. Murray, Brooklyn, N. Y. Electric fitting and the like. 1,664,759; Apr. 3.
Sandinoff & Wendroff Inc. (See Holtz, Abraham, assignor.)
Sann, Otto, Johnstown, Pa. Grinder. 1,664,949; Apr. 3.
Satenstein, Jesse. (See Wenver, John H., assignor.)
Saunders, Albert R. (See Brodie, Herbert, assignor.)
Savage, George E., Meriden, Conn., assignor, by mesne assignments, to Manning, Bowman & Co., Wilmington, Del. Handled nested cups. 1,665,179; Apr. 3.
Scanlin, John. (See Walton, Mark, assignor.)
Schall, Myron R. (See McMillan, R., and Schall.)
Schaper, Harry C., St. Louis, Mo. Micrometer caliper. 1,664,833; Apr. 3.
Scheel, Gustave A. (See Kirkham, P., and Scheel.)
Scheler, Edward. (See Wilks, A., and Scheler.)
Schellens, Christopher A., Marblehead, Mass., assignor, by mesne assignments, to C-S Engineering Company. Centrifugal pump. 1,664,488; Apr. 3.
Schenk, William J., Home Gardens, Calif. Manufacture of imitation-marble panels. 1,665,072; Apr. 3.
Schepman, Frederick W., Evansville, Ind., assignor to E. E. Heer, Springfield, Mo., and myself. Card holder. 1,665,180; Apr. 3.
Schjolin, Eric O., Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich. Air pump for brake systems. 1,664,706; Apr. 3.
Schleininger, Henry F., New York, N. Y. Tool for restoring screw threads. 1,664,793; Apr. 3.
Schmidt, Gustav, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Refrigerator display case. 1,664,489; Apr. 3.
Schoessler, August G., Reliance, S. Dak. Barrel rack. 1,664,707; Apr. 3.
Schrafft, Wm. F., & Sons Corp. (See Hunzelman, John B., assignor.)
Schrenkeisen, William C., Mount Vernon, assignor to Hill Laundry Equipment Co., Inc., Long Island City, N. Y. Laundry drier. 1,664,490; Apr. 3.
Schroeder, Carl, Mayville, Wis. Pea grader and cleaner. 1,665,114; Apr. 3.
Schroeder, Frank J., Altoona, Pa. Rail lock. 1,665,115; Apr. 3.
Schroeder, Frank J., Altoona, Pa., assignor to Continental Railway Supply Corporation, New York, N. Y. Tool. 1,664,529; Apr. 3.
Schupp, Arthur A., assignor to Fredericksen Company, Saginaw, Mich. Brush for generators, etc. 1,664,708; Apr. 3.
Schwanke, Ewald, Waldshut, Germany. Clock and watch with twenty-four hour figure indication. 1,665,073; Apr. 3.
Schwarz, F. A. O. (See Kirkham, P., and Scheel, assignors.)
Scott, Winfield. (See North, C. O., and Scott.)
Seabrook, Eugene, New York, N. Y. Dental device. 1,664,433; Apr. 3.
Seeley, Alfred, Rochdale, England. Slub catcher. 1,664,794; Apr. 3.
Seeley, Clark, Otisville, Mich. Combined putty knife and paint hook. 1,664,902; Apr. 3.
Sellers, G. L., & Sons Company. (See Holtsclaw, Oren E., assignor.)
Severns, Thomas, Long Beach, and R. R. Hall, Los Angeles, Calif. Polish-rod clamp. 1,664,709; Apr. 3.
Shay, Warren J., Chicago, Ill., assignor to The Columbus McKinnon Chain Company, Columbus, Ohio. Display stand. 1,664,530; Apr. 3.
Sheldon, Edward P., Brooklyn, assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Stapling mechanism. 1,664,434; Apr. 3.
Shepard, Joseph, Schenectady, N. Y. Combination advertising handkerchief and radioscope. 1,665,074; Apr. 3.
Sheppard, Samuel T. (See Kraft, S. A., and Sheppard.)
Sherman, John Q. (See Metzner, Albert W., assignor.)
Shevlin, George F., assignor to George F. Shevlin & Son, Glen Falls, N. Y. Centrifugal pulp screen. 1,664,996; Apr. 3.
Shevlin, George F., & Son. (See Shevlin, George F., assignor.)
Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Valve-lash-compensating device. 1,664,710; Apr. 3.
Shull, William G. (See Currier, H. D., and Shull.)
Siebert, O. W., Company. (See Siebert, Otto W., assignor.)
Siebert, Otto W., assignor to O. W. Siebert Company, Gardner, Mass. Carriage-hood window. 1,665,116; Apr. 3.
Siegel, Samuel, New York, N. Y. Combined shower cabinet and tub. 1,664,491; Apr. 3.
Siemens & Halske Aktiengesellschaft. (See Arndt, Hermann, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Hanff, Ferdinand, assignor.)
Sievert, Ernest G., and H. Svensson, Sundbyberg, near Stockholm, Sweden. High-tension cable to prevent a breaking down of the insulation. 1,665,191; Apr. 3.
Silkwood, T. M., et al. (See Simpson, Arthur E., assignor.)
Silver, James W., Ogden, Utah. Beet dump. 1,665,181; Apr. 3.
Simpson, Arthur E., assignor of one-seventh to H. L. Webb, one-seventh to J. M. Harris, one-seventh to B. H. Webb, one-seventh to T. M. Silkwood, one-seventh to R. P. Blake, and one-seventh to C. E. Pitchford, West Frankfort, Ill. Rotary pump. 1,664,644; Apr. 3.
Sisson, Vinton E., assignor to Union Metal Products Company, Chicago, Ill. Sheet-metal end for railway cars. 1,664,711; Apr. 3.
Skelly, John S., Monongahela, Pa., assignor to International Combustion Engineering Corporation. Automatic stoker. 1,664,903; Apr. 3.
Slade, Roland E., Billingham-on-the-Tees, and V. E. Parke, Runcorn, England, assignors to Atmospheric Nitrogen Corporation, Solvay, N. Y. Drying gases. 1,664,997; Apr. 3.
Sleeman, William C., Birmingham, Ala. Railroad-car truck. 1,664,795; Apr. 3.
Sloan, Sebern J., Warren, Ohio. Sandpaper holder. 1,664,950; Apr. 3.

Slocombe, Frank E., Kirk Sandall, assignor to Pilkington Brothers Limited, Liverpool, England. Process and apparatus for grinding and polishing glass. 1,665,117; Apr. 3.
Smith, E. Payson. (See Brown, Lloyd J., assignor.)
Smith, Frederick R., and S. M. Viale, Coventry, England. Internal-combustion engine. 1,664,492; Apr. 3.
Smith, George L., Manchester, N. H. Evening and grading machine. 1,664,645; Apr. 3.
Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Valve. 1,664,493; Apr. 3.
Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Radio apparatus. 1,664,494; Apr. 3.
Smith, Howard N., Oak Park, Ill. Water softener. 1,664,435; Apr. 3.
Smith, Jacob F. (See Weimer, A. W., and Smith.)
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory. Des. 74,844; Apr. 3.
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory. Des. 74,845; Apr. 3.
Smith, William E., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,664,834; Apr. 3.
Smith, William E., Milltown, assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J. Wire-carriage-release dog for pile-wire-controlling mechanism for looms. 1,665,147; Apr. 3.
Snow, Norman L., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,664,865; Apr. 3.
Sobel, Joseph, assignor to Genuine Bronze Fixture Co. Inc., Brooklyn, N. Y. Display stand. Des. 74,843; Apr. 3.
Sommers, Robert E., New York, N. Y. Hand-bag frame. Des. 74,846; Apr. 3.
Southwell, James, North Chelmsford, Mass. Circular-combing machine. 1,664,951; Apr. 3.
Spaeth, Charles, assignor to The Marvel Equipment Company, Cleveland, Ohio. Dispensing pump. 1,664,574; Apr. 3.
Spalding, A. G., & Bros. (See Reach, Milton B., assignor.)
Spangle, William E., Fairoaks, Calif. Wooden-pipe tap. 1,664,796; Apr. 3.
Spence, Earle T. (See Spence, Morton, assignor.)
Spence, Morton, assignor of one-half to E. T. Spence, Springfield, Ill. Internal-combustion engine. 1,665,192; Apr. 3.
Spokane Concrete Flower Pot Machine Company et al. (See Bewley, Claude G., assignor.)
Square D Company. (See Ball, Albert P., assignor.)
Stahl, Ottilie C., New York, N. Y. Sanitary belt and buckle. 1,665,075; Apr. 3.
Standard Oil Company. (See Atwell, Harold V., assignor.)
Standard Oil Company of California. (See Hanna, Richard W., assignor.)
Standard Safety Manufacturing Co. (See Paecht, Hugo C., assignor.)
Standard Sanitary Manufacturing Company. (See Smith, Sherman, assignor.)
Stanek, Edward J., Milwaukee, Wis. Apparatus for straightening tubular castings. 1,664,904; Apr. 3.
Stanley, Grover B., Palmdale, Calif. Tank-truck faucet. 1,664,712; Apr. 3.
Staples, Charles F., Detroit, Mich., assignor of one-half to L. M. Field, Alameda, Calif., and one-half to A. A. Wiedemaier, Detroit, Mich. Transmission mechanism. 1,664,575; Apr. 3.
Staples, Henry W., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand lamp. 1,664,905; Apr. 3.
Star Chandelier Co. (See Boehringer, John A., assignor.)
Stark, Walter E., New York, N. Y. Convertible toy. 1,665,043; Apr. 3.
Sterling Jewelry Company, The. (See Cramer, Harry I., assignor.)
Stevens, Clarence E., assignor to White Sewing Machine Corporation, Cleveland, Ohio. Seat construction. 1,664,835; Apr. 3.
Stevens, Horace D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tread-removing machine. 1,665,193; Apr. 3.
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Band-building machine. 1,665,194; Apr. 3.
Stillman, Albert L., Plainfield, N. J., assignor to The General Fuel Briquette Corporation, New York, N. Y. Manufacturing fuel briquettes. 1,664,998; Apr. 3.
Stoddard, William O., jr., Detroit, Mich., assignor to Duratex Corporation, Newark, N. J. Coated fabric and making same. 1,664,866; Apr. 3.
Stone, Charles B., assignor to Continuous Train Control Corporation, Detroit, Mich. Valve. 1,664,836; Apr. 3.
Stone, Philip W., Boston, Mass. Brush. 1,664,797; Apr. 3.
Strand, Joseph, Los Angeles, Calif., assignor to Klinch Lath Corporation. Plaster board. 1,664,837; Apr. 3.
Strand, Joseph, assignor to Klinch Lath Corporation, Los Angeles, Calif. Hollow tile. 1,664,867; Apr. 3.
Strickland, William R., assignor to General Motors Corporation, Detroit, Mich. Propeller shaft. 1,664,713; Apr. 3.
Strieby, Maurice E., Millburn, N. J., assignor to American Telephone and Telegraph Company. Program-selecting circuits. 1,664,468; Apr. 3.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
Struensee, Louis C., Oshkosh, Wis. Hayrack. 1,664,838; Apr. 3.
Stuart, Thomas F., and H. A. Moore, Los Angeles, Calif. Push catch for doors. 1,664,576; Apr. 3.
Sulik, Stephen, New Britain, Conn. Handsaw. 1,664,906; Apr. 3.
Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
Sundstrand Corporation. (See Sundstrand, Oscar J., assignor.)
Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del. Attaching coiled springs. 1,664,647; Apr. 3.
Suren, Nathan H., Needham, assignor to The Gamewell Company, Newton Upper Falls, Mass. Signaling apparatus. 1,664,952; Apr. 3.
Sutthery, Frank B. C., London, England. Device converting pipe wrenches into pipe vises. 1,665,182; Apr. 3.
Svensson, Henning. (See Sievert, E. G., and Svensson.)
Sweeney, James A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,664,577; Apr. 3.
Sweet, Frederick A., Salt Lake City, Utah. Portable overcast. 1,664,646; Apr. 3.
Swenson, Swen R., South Orange, N. J., assignors to Multiple Electric Products Company, Inc., New York, N. Y. Sound-reproducing device and adjusting means therefor. 1,665,044; Apr. 3.
Swenson, Swen R., South Orange, N. J., assignor to Multiple Electric Products Company, Inc., New York, N. Y. Telephone receiver. 1,665,045; Apr. 3.
Sworaski, Michael, Philadelphia, Pa. Automatic train control. 1,664,868; Apr. 3.
Sylvander, Roy C. (See Hunt, F. L., and Sylvander.)
Sylwan, Per O. T., Forshaga, Sweden. Condensation exhaust for drying cylinders and such like. 1,664,907; Apr. 3.
Tabulating Machine Company, The. (See Bryce, James W., assignor.)
Tabulating Machine Company, The. (See Weinlich, Hermann A., assignor.)
Taylor, Ernest. (See Judd, R., Taylor, and McNaney.)
Terpenning, Garret, Jersey City, N. J. Surface-cleaning implements. 1,664,908; Apr. 3.
Tessky, Karl, Esslingen-on-the-Neckar, Germany. Friction disk clutch. 1,665,076; Apr. 3.
Thompson, Halbert E., Minneapolis, Minn. Wheel for automobiles. 1,664,531; Apr. 3.
Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,664,469; Apr. 3.
Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,664,532; Apr. 3.
Thompson, James V., and H. C. Deitz, Spencer, W. Va. Clothes washer. 1,665,118; Apr. 3.
Thompson, Loren B., Virginia, Ill. Chain fastener. 1,664,760; Apr. 3.
Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Valve manifold. 1,664,909; Apr. 3.
Thornberry, Charles L., Lincoln, Nebr. Sash frame. 1,664,578; Apr. 3.
Thrower, Alvin H., assignor to Clifton Manufacturing Company, Waco, Tex. Receptacle. 1,665,184; Apr. 3.
Tichota, Rudolph V., Dodge, Nebr. Antifrosting device. 1,664,761; Apr. 3.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Diagnostic instrument for throwing a beam of light into the eye. 1,664,953; Apr. 3.
Tinius Olsen Testing Machine Company. (See Lundgren, Jacob, assignor.)
Tobin, Clarke W., East Orange, N. J. Stocking. Des. 74,847; Apr. 3.
Toledo Automatic Brush Machine Company, The. (See Jobst, Conrad, assignor.)
Tonnesen, Beatrice S., Chicago, Ill. Holder for long-stem flowers. 1,664,436; Apr. 3.
Tönsmann, Henry, Sao Paulo, Brazil, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,664,910; Apr. 3.
Trachsel, Franz, and J. Wiedmer, Bern, and P. Zigerli, Zurich, Switzerland. Production of artificial stone and artificial wood. 1,665,148; Apr. 3.
Trans-Lux Daylight Picture Screen Corporation. (See Daine, Robert L., assignor.)
Tretch, William J., Philadelphia, Pa., and F. Buckingham, Franklinville, N. J., assignors to Riehle Bros. Testing Machine Co., Philadelphia, Pa. Recording apparatus for testing machines. 1,664,999; Apr. 3.
Trigonis, George J., San Francisco, Calif. Window seat 1,664,470; Apr. 3.
Trimble, Charles P., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Cushion seat and the like. 1,665,119; Apr. 3.

Trist, Arthur R., London, England. Mercurial printing surface. 1,665,000; Apr. 3.
Tucker, Ralph H., Los Angeles, Calif. Pneumatic hammer. 1,665,046; Apr. 3.
Turner, Charles H., Statesville, N. C. Sawmill. 1,665,001 Apr. 3.
Twyman, B Wickliffe, Marysville, Mich. Lifting jack. 1,664,579; Apr. 3.
Tydeman, Clarence W., Denver, Colo. Constant-capacity automatic clutch. 1,664,954; Apr. 3.
Tyden, Emil, Evanston, Ill. Valve for fire-extinguishing sprinkler systems. 1,664,648; Apr. 3.
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling metal strip. 1,664,580; Apr. 3.
Uhl, George R., Kansas City, Kans. Faucet. 1,664,714; Apr. 3.
Union Metal Products Company. (See Sisson, Vinton E., assignor.)
Union Switch & Signal Company, The. (See Griffin, H. W., and Howard, assignors.)
Union Switch & Signal Company, The. (See Smith, William E., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
Union Railway Equipment Company. (See O'Connor, Arthur F., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
United States Cartridge Co. (See Murphy, James A., assignor.)
United States Envelope Company. (See Cather, Charles E., assignor.)
United States Gypsum Company. (See Gustafson, Edwin L., assignor.)
U. S. Tool Co. (See Dester, William F., assignor.)
Universal Holding Company. (See Gallagher, Charles R., assignor.)
Upham, Burt F., et al. (See Brunell, Leo W., assignor.)
Urban, Emil, Comstock, Nebr. Combined hoe and rake. 1,665,183; Apr. 3.
V. V. Fittings Company. (See Burns, James F., assignor.)
Vadersen, Herbert, Elizabeth, N. J., assignor to Western Electric Company, New York, N. Y. Variable-inductance apparatus. 1,664,495; Apr. 3.
Valensi, Georges, Paris, France. Receiving device for distant-vision installation. 1,664,798; Apr. 3.
Valléey Gumá, Antonio, Habana, Cuba. Clarifying liquids. 1,665,167; Apr. 3.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,664,649; Apr. 3.
Van Alphen, Rudolf P., The Hague, Netherlands. Apparatus for onward movement in swimming attitude in the water. 1,664,799; Apr. 3.
Vanderlip, Louis C., Elkhart, Ind. Hood clamp for automobiles. 1,664,581; Apr. 3.
Van Korlaar, Wynand, Grand Rapids, Mich. Check-sorting rack. 1,664,650; Apr. 3.
Van Wienen, Pieter H., Hamburg, Germany. Convertible skimming boat or like water craft. 1,665,149; Apr. 3.
Vaszin, Aurel, Dayton, Ohio. Vehicle. 1,664,437; Apr. 3.
Vedder, John W., assignor to Rice, Barton & Fales, Inc., Worcester, Mass. Suction box. 1,664,801; Apr. 3.
Vetter, Julius W., Milwaukee, Wis. Truck body for delivering ice cream. 1,664,438; Apr. 3.
Viale, Spirito M. (See Smith, F. R., and Viale.)
Vickers Limited. (See Lyne, F. C., and Etchells, assignors.)
Viehmann, Nickolas, Newark, N. J. Clutch. 1,664,439; Apr. 3.
Vironda, Italo, Battle Creek, Mich. Tappet for internal-combustion engines. 1,664,651; Apr. 3.
Von Gruber, Otto, Stuttgart, assignor to the firm Carl Zeiss, Jena, Germany. Device for tracing cross sections. 1,665,002; Apr. 3.
Von Meyenburg, Konrad, Basel, Switzerland. Motor tilling machine. 1,664,789; Apr. 3.
Von Pein, Edward J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,664,955; Apr. 3.
Von Pein, Edward J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,664,956; Apr. 3.
Von Platen, Baltzar C. Ystad, and C. C. Munters, Dala-Jarna, Sweden, assignors, by mesne assignments, to Electrolux Servel Corporation. Refrigeration. 1,664,471; Apr. 3.
Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigerating apparatus. 1,664,472;
Vosler, Lee L. (See Crum, Leo J., assignor.)
Voss, Herman E., Yuhsien, China. Insect destroyer. 1,664,762; Apr. 3.
Wacker, Frederick G., assignor to Automotive Maintenance Machinery Co., Chicago, Ill. Tool for turning crank pins and the like. 1,664,440; Apr. 3.
Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
Waid, Calvin R., assignor to W. C. Appleby, Birmingham, Ala. Grate bar. 1,664,496; Apr. 3.
Waite, Philip C., Oshkosh, Wis. Rug and strand therefor. 1,664,497; Apr. 3.
Wakefield, Frank E., assignor to Illinois Watch Case Company, Elgin, Ill. Cigarette case. 1,664,498; Apr. 3.
Waldes, Jindrich, Prague, Czechoslovakia. Fastener. 1,664,582; Apr. 3.
Walker, Avery W., Gasport, N. Y. Dispensing mechanism for spraying machines. 1,664,802; Apr. 3.
Wallace, R., & Sons Mfg. Co. (See Wilkes, Samuel G., assignor.)
Walton, Mark, assignor of one-half to J. Scanlin, Ullin, Ill. Pump drain. 1,664,715; Apr. 3.
Wands, Washington I., Fairbury, Nebr. Switch-operating mechanism. 1,665,047; Apr. 3.
Ward-Love Pump Corporation. (See Johnson, Oscar W., assignor.)
Watson, Edward F., Larchmont, and A. Weaver, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Picture-transmitting system. 1,664,652; Apr. 3.
Watson, Leonard E., St. Marys, W. Va. Brake-band tool. 1,665,150; Apr. 3.
Watts, Felix J., assignor to H. A. Douglas, Bronson, Mich. Automotive-vehicle ignition system. 1,664,911; Apr. 3.
Waukesha Motor Company. (See Pope, Arthur W., jr., assignor.)
Waukesha Motor Company. (See Ritter, Herbert G., assignor.)
Waybrant, Edward L., New Bedford, Mass. Distributing explosive mixtures to internal-combustion engines. 1,664,869; Apr. 3.
Weaver, Allan. (See Watson, E. F., and Weaver.)
Weaver, John H., assignor to J. Satenstein, Camden, N. J. Case-forming attachment. 1,665,003; Apr. 3.
Webb, B. H., et al. (See Simpson, Arthur E., assignor.)
Webb, H. L., et al. (See Simpson, Arthur E., assignor.)
Webb, Jervis B., Detroit, Mich. Conveyer. 1,664,763; Apr. 3.
Wees, Elijah F., Kenova, W. Va. Rudder. 1,664,957; Apr. 3.
Wehler, Russell S., York, Pa. Cigarette-case attachment. 1,664,441; Apr. 3.
Weikel, John H. (See Breyer, F. G., Bunce, and Weikel.)
Weil, Charles F. (See Weil, Louis A. and C. F.)
Weil, Louis A. and C. F., Detroit, Mich. Mechanical stud-driving device. 1,664,442; Apr. 3.
Weiland, Henry J., and I. Gubelmann, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Separation of m-dinitrobenzene from its isomers. 1,665,005; Apr. 3.
Weimer, Albert W., and J. F. Smith; said Weimer assignor to W. Parson, Geneseo, Ill. Battery terminal. 1,665,048; Apr. 3.
Weinlich, Hermann A., Berlin, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y. Machine for comparing punched cards. 1,664,533; Apr. 3.
Welder, Edward J., San Antonio, Tex. Signal lantern. 1,664,653; Apr. 3.
Weldy, Arthur S., Canton, Ohio. Pump. 1,664,764; Apr. 3.
Wells, Walter W., assignor to Reo Motor Car Company, Lansing, Mich. Transmission mechanism. 1,664,870; Apr. 3.
Wendell, Evert J., Wayne, assignor to The Hale Fire Pump Co., Inc., Conshohocken, Pa. Rotary fluid pump and motor. 1,665,120; Apr. 3.
Werder, Hans, Vevey, Switzerland, assignor to E. C. Dieckerhoff, New York, N. Y. Signal. 1,664,871; Apr. 3.
Wermine, Hugo H., Villa Park, assignor to Belden Manufacturing Company, Chicago, Ill. Fluidity-control system. 1,664,839; Apr. 3.
Wermine, Hugo H., Villa Park, assignor to Belden Manufacturing Company, Chicago, Ill. Apparatus for standardizing solutions. 1,664,840; Apr. 3.
West, Frank R., Newark, N. J. Internal-combustion engine. 1,665,121; Apr. 3.
West, Robert, assignor of one-half to H. McMurray, New York, N. Y. Liquid-cooling device. 1,664,872; Apr. 3.
Western Electric Company. (See Dodge, Harold F., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Norton, Edward L., assignor.)
Western Electric Company. (See Vadersen, Herbert, assignor.)
Westerschulte, F. H. (See Arnolds, Werner, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bryant, Ozro N., assignor.)
Westinghouse Electric and Manufacturing Company. (See De Vries, Andrew, assignor.)
Westinghouse Electric & Manufacturing Company. (See Keene, Alvin D., assignor.)
Whelan, James F., Philadelphia, Pa. Portable electric lamp. Des. 74,848; Apr. 3.
Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)
Wheeling Steel Corporation. (See Paff, George A., assignor.)

Wheelock, Ernest O., Rockford, Ill. Snap gauge. 1,664,583; Apr. 3.
White, John F., assignor to White Products Company, Chicago, Ill. Automobile radiator cap. 1,665,004; Apr. 3.
White, Joseph H., assignor of one-half to H. H. Harbin, Florence, S. C. Combined bumper and safety appliance. 1,664,654; Apr. 3.
White Products Company. (See White, John F., assignor.)
White Sewing Machine Corporation. (See Stevens, Clarence E., assignor.)
White, William H., Copeland, Kans. Tractor lighting device. 1,665,122; Apr. 3.
Whitehead & Kales. (See Greenwald, H. A., and Howe, assignors.)
Whitin Machine Works. (See Magrath, George H., assignor.)
Wiberg, Peter E., East Orange, assignor to Art Wire and Stamping Company, Newark, N. J. Lingerie clasp. 1,664,716; Apr. 3.
Wiberg, Peter E., East Orange, assignor to Art Wire and stamping Company, Newark, N. J. Wire feeding and cutting machine. 1,664,717; Apr. 3.
Widden, Evan R. (See Maloney, Stephen F., assignor.)
Wiedemaier, Arthur A., et al. (See Staples, Charles F., assignor.)
Wiedmer, Jakob. (See Trachsel, F., Wiedmer, and Zigerli.)
Wilcox, Roy F., & Co., et al. (See Bewley, Claude G., assignor.)
Wildman Mfg. Co. (See Ballard, George L., assignor.)
Wilhelm, Wilson A., Vernon, Tex. Oil grate and mat. 1,665,123; Apr. 3.
Wilkes, Samuel G., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Coffeepot or similar article. Des. 74,849; Apr. 3.
Wilks, Anna, and E. Scheier, New York, N. Y. Container for cosmetics. 1,665,077; Apr. 3.
Williams, Charles E., assignor to General Motors Corporation, Detroit, Mich. Carburetor. 1,664,718; Apr. 3.
Williams, Harry R. (See Williams, Robert W. and H. R., and Elliott.)
Williams, Jessie E., Perry, Okla. Basket cart. 1,665,151; Apr. 3.
Williams, John H., Westwood, Calif. Knife. Des. 74,850; Apr. 3.
Williams, John H., Toronto, Ontario, Canada. Electric cooking and heating apparatus. 1,664,584; Apr. 3.
Williams Oven Manufacturing Company. (See Williams, Robert W. and H. R., and Elliott, assignors.)
Williams, Robert W. and H. R., Brooklyn, and I. Elliott, New York, N. Y., assignors to Williams Oven Manufacturing Company. Oven. 1,664,443; Apr. 3.
Williams, Ruskin, Woodstock, N. Y. Bench. Des. 74,851; Apr. 3.
Williams, Samuel A., Waukegan, Ill., assignor to Johns-Manville Corporation, New York, N. Y. Smoke jack. 1,664,473; Apr. 3.
Wilson, Alfred R., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Saddle and center joint cap. 1,664,444; Apr. 3.
Wilson, James M., Newark, N. Y., assignor to Amplitone Company, Inc., New York, N. Y. Telephone receiver. 1,665,078; Apr. 3.
Winchester Repeating Arms Company. (See Staples, Henry W., assignor.)
Wine, William E., Toledo, Ohio. Side bearing. 1,664,445; Apr. 3.
Winther Company, The. (See Jensen, Thorvald, assignor.)
Withycombe, Robert M., Sydney, New South Wales, Australia. Manufacturing brushes. 1,665,152; Apr. 3.
Withycombe, Robert M., Sydney, New South Wales, Australia. Fountain brush for automobiles. 1,665,153; Apr. 3.
Withycombe, Robert M., Sydney, New South Wales, Australia. Support for yieldable dentures. 1,665,154; Apr. 3.
Wood, Peirce M. (See Merseles, H. R., and Wood.)
Woodford, Joe C., Oskaloosa, Iowa. Apparatus for supplying air under pressure. 1,664,719; Apr. 3.
Woodruff, Charles W., Columbus, Ohio. Thermoelectric generator. 1,664,720; Apr. 3.
Woodward, Herbert S., Carbondale, Pa. Sifter. 1,664,841; Apr. 3.
Worthington, Charles C., Dunfield, N. J. Lawn mower. 1,664,721; Apr. 3.
Wright, Ernest, Arch Creek, Fla. Propagating box. 1,665,124; Apr. 3.
Wright, Wilbur L., Fulton, and J. L. Dolphin, Syracuse, assignors to Oswego Falls Corporation, Fulton, N. Y. Capping machine. 1,665,079; Apr. 3.
Wyss, Julius, Watertown, Mass., assignor to New England Spun Silk Corporation, New York, N. Y. Stop motion for yarn-twisting machines. 1,665,006; Apr. 3.
Yerger, Will. West Philadelphia, Pa. Trimmer. 1,665,155; Apr. 3.
Yessler, G. Fred, assignor, by mesne assignments, to Knapp Electric Corporation, Port Chester, N. Y. Educational appliance. 1,664,842; Apr. 3.
Yoder, Arthur T., Mosinee, Wis. Cylinder paper-making machine. 1,664,722; Apr. 3.
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-track circuit apparatus. 1,664,446; Apr. 3.
Young, Niels, Frankfort-on-the-Main, Germany. Degasification of coal. 1,664,723; Apr. 3.
Younghusband, James L., Chicago, Ill. Dorine for loose powder. 1,665,007; Apr. 3.
Zaun, George F., San Bernardino, Calif. Stairs. 1,664,724; Apr. 3.
Zeiser, Earl A., Cincinnati, Ohio. Infant's auto carrier. 1,664,958; Apr. 3.
Zeiss, Firm Carl. (See von Gruber, Otto, assignor.)
Ziemmerman, Henry, assignor to Chicago Cardboard Company, Chicago, Ill. Folding display card. 1,664,585; Apr. 3.
Zigerli, Paul. (See Trachsel, F., Wiedmer, and Zigerli.)
Zimmerman, Frank D., and E. M. Pyle, Jerome, Pa. Circuit controller. 1,664,534; Apr. 3.
Zworikin, Jean, Paris, France. Spinning and twisting frame. 1,664,959; Apr. 3.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acid oils for lubricant stocks, Neutralizing treatment of. G. F. Olsen. 1,665,110; Apr. 3.
Acid-sludge emulsions, Separation of. E. W. Roth. 1,665,189; Apr. 3.
Acid sludge, Hydrolysis of. E. W. Roth. 1,665,190; Apr. 3.
Advertising device. H. S. C. Bacon. 1,665,009; Apr. 3.
Advertising handkerchief and radioscope, Combination. J. Shepard. 1,665,074; Apr. 3.
Aeroplanes, Safety landing and take-off device for. J. B. Anderson. 1,664,844; Apr. 3.
Air brake. G. E. Oakley. 1,664,787; Apr. 3.
Air cleaner. R. R. Dollins. 1,664,670; Apr. 3.
Air intake, Suction. C. G. Hawley. 1,664,683; Apr. 3.
Airship. L. W. Mammen. 1,664,565; Apr. 3.
Air under pressure, Apparatus for supplying. J. C. Woodford. 1,664,710; Apr. 3.
Alloys, Making commercially-pure iron. L. F. Reinartz and J. H. Nead. 1,665,146; Apr. 3.
Amusement device. J. E. Craddock. 1,665,129; Apr. 3.
Amylaceous molded product and making same. C. Ellis. 1,664,600; Apr. 3.
Anchor plate. G. Mares. 1,664,458; Apr. 3.
Anchor, Rail. E. M. McVicker. 1,665,187; Apr. 3.
Animal trap. W. Catlin. 1,665,020; Apr. 3.
Antifrosting device. R. V. Tichota. 1,664,761; Apr. 3.
Anvils, Manufacture of primer. J. A. Murphy. 1,664,480; Apr. 3.
Arm, Automatic or self-loading small. L. Oberhammer. 1,664,788; Apr. 3.
Articulation of doll members. N. S. Hitchcock. 1,664,979; Apr. 3.
Artillery carriage in all directions, Arrangement providing for the aiming of an. E. Bimailho. 1,665,176; Apr. 3.
Auto carrier, Infant's. E. A. Zeiser. 1,664,958; Apr. 3.
Automobile hood clamp. L. C. Vanderlip. 1,664,581; Apr. 3.
Automobile wheel. H. E. Thompson. 1,664,531; Apr. 3.
Automobiles, Roller guard for. D. J. Cunningham. 1,665,085; Apr. 3.
Automobiles, Throttle control for. E. A. MacKean. 1,664,479; Apr. 3.
Automotive drive. T. Jensen. 1,664,562; Apr. 3.
Bag: *See*—
Hat bag.
Parcel bag.
Tea bag.
Bag holder, Jelly-. C. P. Blazer. 1,664,658; Apr. 3.
Ball-attaching means for lanterns and the like. R. A. Currie. 1,665,055; Apr. 3.
Balancing machine. J. Lundgren. 1,665,138; Apr. 3.
Balancing system, Engine-. A. W. Pope, Jr. 1,664,942; Apr. 3.
Band-building machine. H. D. Stevens. 1,665,194; Apr. 3.
Band-wheel counterbalance. M. J. Mils. 1,664,524; Apr. 3.
Banjo and similar musical instrument. N. Greenop. 1,664,547; Apr. 3.
Bar: *See*—
Crate bar.
Barrel rack. A. G. Schoessler. 1,664,707; Apr. 3.
Bat, Reenforced safety. E. Cohn. 1,665,195; Apr. 3.
Battery terminal. A. W. Welmer and J. F. Smith. 1,665,048; Apr. 3.
Battery-terminal coupling. F. W. Leuthesser. 1,664,692; Apr. 3.
Beam hanger. H. J. Baker. 1,664,499; Apr. 3.
Bearing. G. Flintermann. 1,664,878-9; Apr. 3.
Bearing-bolt structure. H. C. Ritter. 1,664,944; Apr. 3.
Bearing, Journal. G. Flintermann. 1,664,880; Apr. 3.
Bearing pins to legs of drill bits, Welding. H. H. Holdaway. 1,664,883; Apr. 3.
Bearing, Side. A. and C. Christianson. 1,664,915; Apr. 3.
Bearing, Side. W. E. Wine. 1,664,445; Apr. 3.
Beet dump. J. W. Silver. 1,665,181; Apr. 3.
Bench. R. Williams. Des. 74,851; Apr. 3.
Billboard. M. C. Merker. 1,665,142; Apr. 3.
Billiard cue. C. C. Bean. 1,664,971; Apr. 3.
Blade wheel. A. Nydqvist. 1,664,895; Apr. 3.
Blast furnace. W. P. Power. 1,664,832; Apr. 3.
Block: *See*—
Surface block.
Board: *See*—
Plaster board.
Wall board.
Boat or like water craft, Convertible skimming. P. H. van Wienen. 1,665,149; Apr. 3.
Boats, Propelling mechanism for. C. Carpio. 1,665,053; Apr. 3.
Boiler: *See*—
Wash boiler.
Boiler. C. B. Boynton. 1,664,914; Apr. 3.
Boiler cleaner. H. C. Heaton. 1,664,859; Apr. 3.
Boiler cleaner. N. L. Snow. 1,664,865; Apr. 3.
Bomb sight. G. Gardner. 1,664,406; Apr. 3.
Bookbinding and producing the same. R. C. Baker. 1,665,049; Apr. 3.
Bottle and closure therefor. W. H. Perry. 1,664,756; Apr. 3.
Bottle closure and applying same, Milk-. D. G. Magill. 1,664,635; Apr. 3.
Bottle-handling means. S. C. Gilbert. 1,665,025; Apr. 3.
Bottle, Oil. F. D. Gatchell. Des. 74,828; Apr. 3.
Box: *See*—
Candy box.
Mail box.
Propagating box.
Soap box.
Suction box.
Box. F. F. Hamilton. Des. 74,832; Apr. 3.
Box cover. A. B. McIntire. Des. 74,840; Apr. 3.
Boxes, Box holder to facilitate the hand-stripping operation in the production of pasteboard. I. A. Deline. 1,664,739; Apr. 3.
Bracelet, Adjustable. S. C. Eppenstein. 1,664,504; Apr. 3.
Bracelet, Antirattle. H. M. Denyes. 1,664,669; Apr. 3.
Bracket and brake lever. E. L. Kulick. 1,664,825; Apr. 3.
Brake: *See*—
Air brake.
Duplex brake.
Brake beams, Safety device for. L. J. Brown. 1,664,538; Apr. 3.
Brake-operating means. H. Brodie. 1,664,732; Apr. 3.
Brakes, Adjustable cam for. B. G. Parsons. 1,664,828; Apr. 3.
Brassière bust supporter. H. Imersheln and L. E. Ginsburg. 1,664,926; Apr. 3.
Bridgework, Removable. H. A. Adler. 1,664,726; Apr. 3.
Brooder, Storage. F. W. Lord. 1,665,102; Apr. 3.
Brush. P. W. Stone. 1,664,797; Apr. 3.
Brush, Electrical hair or massage. A. Lloyd. 1,664,457; Apr. 3.
Brush for automobiles, Fountain. R. M. Withycombe. 1,665,153; Apr. 3.
Brush for generators, etc. A. A. Schupp. 1,664,708; Apr. 3.
Brush machines, Continuous trimmer for. C. Jobst. 1,664,425; Apr. 3.
Brush machines, Multiple work clamp for. C. Jobst. 1,664,423; Apr. 3.
Brush machines, Tuft-separating mechanism for. C. Jobst. 1,664,424; Apr. 3.
Brush machines, Work holder for. C. Jobst. 1,664,422; Apr. 3.
Brush-making machine. C. Jobst. 1,664,420; Apr. 3.
Brush reading device for combinational hole records. J. W. Bryce. 1,664,539; Apr. 3.
Brushes, Manufacturing. R. M. Withycombe. 1,665,152; Apr. 3.
Building construction, Metal. J. J. Muryn. 1,664,463; Apr. 3.
Building materials or the like of clay, Manufacture of burnt. H. Gronroos. 1,664,815; Apr. 3.
Bulkhead wall for culverts. C. M. Cornell. 1,664,503; Apr. 3.
Bumper and safety appliance, Combined. J. H. White. 1,664,654; Apr. 3.
Bumper, Automobile. J. Nickels. 1,664,989; Apr. 3.
Bunion corrector. M. Hartwig. 1,665,030; Apr. 3.
Burner: *See*—
Gas burner.
Gas-range burner.
Oil burner.
Bus-body construction. N. Milner. 1,664,569; Apr. 3.
Cabinet and tub, Combined shower. S. Siegel. 1,664,491; Apr. 3.
Cabinet lid, Ice-cream-. H. D. Geyer. 1,664,545; Apr. 3.
Cable, Support for overhead. C. H. Goodrich. 1,664,922; Apr. 3.
Cable to prevent a breaking down of the insulation, High-tension. E. G. Sievert and H. Svensson. 1,665,191; Apr. 3.
Calico-printing color composition and process. M. Freiberger and A. Holtmann. 1,665,162; Apr. 3.
Camera, Circuit. A. V. Cassal. 1,664,590; Apr. 3.
Can: *See*—
Measuring can.

Cans, Opening device for. W. R. Lambert. 1,664,515; Apr. 3.
Candy box. F. Purchas. 1,664,464; Apr. 3.
Cap opener, Crimped-. F. L. Darling. 1,664,595; Apr. 3.
Capping machine. E. B. Kramer. 1,664,514; Apr. 3.
Capping machine. W. L. Wright and J. L. Dolphin. 1,665,079; Apr. 3.
Car-coupler-lock-lifter safety attachment. S. L. Joiner. 1,664,982; Apr. 3.
Cars, Sheet-metal end for railway. V. E. Sisson. 1,664,711; Apr. 3.
Carburetor. C. E. Williams. 1,664,718; Apr. 3.
Card, Folding display. H. Ziemmerman. 1,664,585; Apr. 3.
Card holder. W. W. Degler. 1,664,668; Apr. 3.
Card holder. F. W. Schepman. 1,665,180; Apr. 3.
Carrier: *See*—
Auto carrier. Tire carrier.
Cart, Basket. J. E. Williams. 1,665,151; Apr. 3.
Carton rack. H. H. Langenfeld. 1,664,753; Apr. 3.
Case: *See*—
Cigarette case. Shipping case.
Display case.
Case-forming attachment. J. H. Weaver. 1,665,003; Apr. 3.
Cash register. W. H. Robertson. 1,664,946; Apr. 3.
Cash register. H. Tönsmann. 1,664,910; Apr. 3.
Cash register. E. J. Von Pein. 1,664,955–6; Apr. 3.
Casing elevator. G. A. Montgomery. 1,664,461; Apr. 3.
Casing, Perforated. D. N. Brundy. 1,664,733; Apr. 3.
Cassava-starch plastic composition and molding same. C. Ellis. 1,664,601; Apr. 3.
Castings, Apparatus for straightening tubular. E. J. Stanek. 1,664,904; Apr. 3.
Catalysts, Manufacture of. H. Nielsen. 1,665,175; Apr. 3.
Catch for cases and the like. G. T. Bates. 1,664,500; Apr. 3.
Cattle yoke. N. J. Boor. 1,664,394; Apr. 3.
Centrifugal machine. W. W. Malloy. 1,665,065; Apr. 3.
Chain for automobiles, Antiskid. E. B. Johnson. 1,665,098; Apr. 3.
Chains, Pin-retaining means for. H. Klaucke. 1,665,100; Apr. 3.
Chair or couch. J. Kronheim. 1,664,934; Apr. 3.
Chamotte materials, Manufacturing. L. Kern. 1,664,689; Apr. 3.
Chandelier or similar article. J. A. Boehringer. Des. 74,821; Apr. 3.
Check, Restaurant. C. T. Raschick. 1,664,573; Apr. 3.
Check-sorting rack. W. Van Korlaar. 1,664,650; Apr. 3.
Chemical substances, Stabilizing. H. G. Grimm. 1,664,678; Apr. 3.
Cigarette case. I. J. Grignon. 1,664,743; Apr. 3.
Cigarette case. F. E. Wakefield. 1,664,498; Apr. 3.
Cigarette-case attachment. R. S. Wehler. 1,664,441; Apr. 3.
Circuit breaker. F. W. Roller. 1,665,113; Apr. 3.
Circuit-continuing device. H. A. Douglas. 1,664,403; Apr. 3.
Circuit controller. F. D. Zimmerman and E. M. Pyle. 1,664,534; Apr. 3.
Circuit-controlling device. H. S. Micks. 1,664,697; Apr. 3.
Circuits. Method and apparatus for timing the use of electrical. J. L. Boynton. 1,664,873; Apr. 3.
Clamp: *See*—
Automobile hood clamp. Retort-cover clamp.
Rod clamp.
Clamp and speeds, Nested control for both. D. C. Klausmeyer. 1,664,888; Apr. 3.
Clamping lock. J. Ritter, jr. 1,664,432; Apr. 3.
Clamping mechanism, Tailstock-. C. F. Randolph. 1,664,757; Apr. 3.
Clasp: *See*—
Lingerie clasp.
Cleaner: *See*—
Air cleaner. Boiler cleaner.
Cleaner and clearer, Window. K. Herman. 1,665,031; Apr. 3.
Cleaning chicle and similar gums. D. W. Howe, E. R. Pickett, and D. M. McBean. 1,664,981; Apr. 3.
Cleaning implement, Surface-. G. Terpenning. 1,664,903; Apr. 3.
Clock and watch with twenty-four hour figure indication. E. Schwanke. 1,665,073; Apr. 3.
Closets and the like, Removable lining for. B. Friend. 1,664,854; Apr. 3.
Closure for bottles and the like, Dispensing. E. Gottschalk. 1,664,975; Apr. 3.
Clothes washer. J. V. Thompson and H. C. Dietz. 1,665,118; Apr. 3.
Clutch. N. Vichmann. 1,664,439; Apr. 3.
Clutch, Constant-capacity automatic. C. W. Tydeman. 1,664,954; Apr. 3.
Clutch, Planetary reversible. F. E. Donald and C. P. Boyce. 1,665,159; Apr. 3.
Coal, Degasification of. N. Young. 1,664,723; Apr. 3.
Coat shield. W. Blumenthal. 1,664,449; Apr. 3.
Coffeepot. R. McMillan and M. R. Schall. 1,665,143; Apr. 3.
Coffeepot or similar article. S. G. Wilkes. Des. 74,849; Apr. 3.
Comb. H. H. Hutchings. 1,665,134; Apr. 3.
Combing machine, Circular. J. Southwell. 1,664,951; Apr. 3.
Commutator Riveting machine. L. E. Poole. 1,664,527; Apr. 3.
Compressor. J. Braun. 1,664,733; Apr. 3.
Concrete mixers, Valve-actuating mechanism for. A. A. McCrec. 1,664,427; Apr. 3.
Concrete-mixing and similar machines, water, power, and speed control mechanism for. C. F. Ball. 1,665,050; Apr. 3.
Concrete plant-protectors, Mold for forming. J. H. Haley. 1,665,027; Apr. 3.
Condenser, Electrostatic. J. F. Lindberg. 1,664,518; Apr. 3.
Conduits and device therefor, Controlling the flow of fluids in connected. J. C. Diehl. 1,664,596; Apr. 3.
Connecter Electrical. J. E. Graham. 1,665,166; Apr. 3.
Connecter, Plug. B. P. McKinley. 1,664,986; Apr. 3.
Container. A. Mauser. 1,664,985; Apr. 3.
Container closure. W. H. Rose. 1,664,995; Apr. 3.
Container, Dental acid. W. B., Jackman. 1,664,419; Apr. 3.
Container for cosmetics. A. Wilks and E. Scheler. 1,665,077; Apr. 3.
Container, Insulated. S. K. Jensen. 1,665,033; Apr. 3.
Control by compressional waves, System of. J. M. Hammond, jr. 1,664,549; Apr. 3.
Control mechanism. C. T. Mason. 1,664,459; Apr. 3.
Conveyer. J. B. Webb. 1,664,763; Apr. 3.
Conveyer systems, Pick off for. W. L. and L. B. H. Bixler. 1,664,393; Apr. 3.
Conveying devices, Turning mechanism for. W. D. Coil and W. J. De Reamer. 1,664,663; Apr. 3.
Cooking and heating apparatus, Electric. J. H. Williams. 1,664,584; Apr. 3.
Cooking apparatus. J. C. Bergner. 1,665,017; Apr. 3.
Coolant-arresting mechanism, Automatic. G. C. Kimmel, 1,664,983; Apr. 3.
Cooler: *See*—
Cream cooler. Water cooler.
Milk-can cooler.
Coolers, Extractor for tuyères and tuyère. G. J. Jones and E. J. Blanning. 1,665,135; Apr. 3.
Cooling device. A. Mayer. 1,664,636; Apr. 3.
Cooling tower. E. W. Cook. 1,665,022; Apr. 3.
Corking machine, Crown-. J. W. Flower. 1,664,881; Apr. 3.
Coupling: *See*—
Battery-terminal coupling. Pipe coupling.
Cream cooler. N. Ramgren. 1,664,704; Apr. 3.
Crusher: *See*—
Roll crusher.
Cultivators or plows, Attachment for. P. Ryan. 1,665,178; Apr. 3.
Cups, Handled nested. G. E. Savage. 1,665,179; Apr. 3.
Cushion seat and the like. C. P. Trimble. 1,665,119; Apr. 3.
Cutter: *See*—
Pipe cutter.
Cutter head, Rotating. L. C. Cole. 1,664,807; Apr. 3.
Cutting and perforating mechanism. B. Heinrichs. 1,664,418; Apr. 3.
Cutting or slicing machine. E. R. Ferrari. 1,665,131; Apr. 3.
Cylinder for spinning machines, Pressure and drawing. J. Lauffer. 1,665,136; Apr. 3.
Dash light. R. O. Helgeby. 1,664,684; Apr. 3.
Data in earth bores, Obtaining. G. D. Hanna. 1,665,058; Apr. 3.
Deck for oil tanks or the like, Floating. C. R. Gallagher. 1,665,163; Apr. 3.
Decorating fish lures. C. L. Dewey. 1,664,402; Apr. 3.
Dental device. E. Seabrook. 1,664,433; Apr. 3.
Diagnostic instrument for throwing a beam of light into the eye. E. D. Tillyer. 1,664,953; Apr. 3.
Direction indicator. R. H. Kitchen and H. N. Norris. 1,664,751; Apr. 3.
Direction signal. A. Fehrmann. 1,665,087; Apr. 3.
Direction signal. R. C. Forbell. 1,664,810; Apr. 3.
Dishwashing machine. S. A. Kraft and S. T. Sheppard. 1,664,690; Apr. 3.
Disk clutch, Friction. K. Tessky. 1,665,076; Apr. 3.
Display device for goods and prices. E. Herzog. 1,664,415; Apr. 3.
Display stand. W. J. Shay. 1,664,530; Apr. 3.
Display stand. J. Sobel. Des. 74,843; Apr. 3.
Distilling lubricating oils. R. W. Hanna. 1,664,977; Apr. 3.
Door, Grain-car. G. W. Harer and J. J. Burri. 1,664,978; Apr. 3.
Door, sash, and screen. C. F. Geshickter. 1,665,024; Apr. 3.
Doors of kitchen cabinets, Support for flexible. A. I. S. Halvorsen. 1,665,028; Apr. 3.
Doors, Push catch for. T. F. Stuart and H. A. Moore. 1,664,576; Apr. 3.
Dorine for loose powder. J. L. Younghusband. 1,665,007; Apr. 3.
Drainage system for playing grounds. E. E. Martienssen. 1,665,104; Apr. 3.
Drier: *See*—
Laundry drier.
Drier construction. E. E. Berry. 1,664,656; Apr. 3.
Drill bit of the flat-blade type, Rotary. C. E. Reed. 1,664,528; Apr. 3.

Drills, Dust-collecting device for rock. S. Mumovich. 1,664,786; Apr. 3.
Drills, Rotation mechanism for rock. G. W. Hulshizer. 1,664,625; Apr. 3.
Driving device, Unidirectional. G. Constantinesco. 1,664,874; Apr. 3.
Drying gases. R. E. Slade and V. E. Parke. 1,664,997; Apr. 3.
Drying-room tumbler. E. Davis. 1,664,800; Apr. 3.
Duplex brake. N. A. Christensen. 1,664,451; Apr. 3.
Duplicating. D. Gestetner. 1,664,675; Apr. 3.
Dynamo frame. W. A. Chryst. 1,664,540; Apr. 3.
Easel. M. E. A. Merritt. 1,664,784; Apr. 3.
Educational appliance. G. F. Yessler. 1,664,842; Apr. 3.
Electric fitting and the like. A. B. Rypinski. 1,664,759; Apr. 3.
Electric-fixture mount. M. Heichen. 1,664,624; Apr. 3.
Electric machine, Dynamo-. G. H. Leland. 1,664,781; Apr. 3.
Electric wall-bracket plate or similar article. J. A. Boehringer. Des. 74,819; Apr. 3.
Electric wall-bracket plate or similar article, Arm. J. A. Boehringer. Des. 74,820; Apr. 3.
Electrical barriers, Alignment strip for. P. Nicholay. 1,664,827; Apr. 3.
Electrical conductors, Junction fitting for metallic armored. J. H. Hunter. 1,664,686; Apr. 3.
Electrical dough-imprinting machine. M. Collis. 1,665,196; Apr. 3.
Electrical network. E. L. Norton. 1,664,755; Apr. 3.
Electrical translating circuit. R. W. King. 1,664,455; Apr. 3.
Electricity meter, Induction. A. L. Emens. 1,664,672–3; Apr. 3.
Electromagnetic operating devices, Automatic control means for. H. K. Hitchcock. 1,665,060; Apr. 3.
Electrotherapeutical apparatus. S. Pongo. 1,664,992; Apr. 3.
Elevator: *See*—
Casing elevator. Package elevator.
Elevator. C. F. Lane. 1,665,101; Apr. 3.
Emergency seat, Pivoting. A. Boulogne. 1,664,766; Apr. 3.
Emulsions, Producing stable. R. Merger. 1,665,105; Apr. 3.
Engine: *See*—
Internal-combustion engine. Rotary engine.
Engine-starting apparatus. J. Bijur. 1,664,847; Apr. 3.
Engine without carburetor, Internal-combustion. B. Kamensky. 1,664,747; Apr. 3.
Engines, Controlling means for starters for internal-combustion. W. Metzroth. 1,664,522; Apr. 3.
Engines, Lubricating device for internal-combustion. W. C. Eisengart. 1,664,671; Apr. 3.
Engines, Tappet for internal-combustion. I. Vironda. 1,664,651; Apr. 3.
Evening and grading machine. G. L. Smith. 1,664,645; Apr. 3.
Excavating shovel. J. W. Page. 1,664,940; Apr. 3.
Exercising device. L. J. Crum. 1,664,664; Apr. 3.
Exhaust for drying cylinders and such like, Condensation. P. O. T. Sylwan. 1,664,907; Apr. 3.
Exhibitor, Changeable. L. V. Aronson. 1,664,962; Apr. 3.
Explosive mixtures to internal-combustion engines, Distributing. E. L. Waybrant. 1,664,869; Apr. 3.
Explosive package and carrier. F. Ries. 1,664,899; Apr. 3.
Fabric and making same, Coated. W. O. Stoddard, jr. 1,664,866; Apr. 3.
Fastener. W. Marshall. 1,664,566; Apr. 3.
Fastener. J. Waldes. 1,664,582; Apr. 3.
Fastener, Chain. L. B. Thompson. 1,664,760; Apr. 3.
Fastener, Combination. J. H. Maurer. 1,664,696; Apr. 3.
Fastener, Side-clamp hood. N. W. Cummins. 1,664,771; Apr. 3.
Fastener, Snap. R. H. Holmes. 1,665,096; Apr. 3.
Fastener, Window. C. L. Hughes. 1,664,820; Apr. 3.
Faucet. G. R. Uhl. 1,664,714; Apr. 3.
Faucet and sink trap, Combination water. H. J. Hartnett. 1,665,029; Apr. 3.
Faucet, Tank-truck. G. B. Stanley. 1,664,712; Apr. 3.
Feeder, Convertible oscillating rotary. L. K. Aldrich. 1,664,960–1; Apr. 3.
Feeder, Evener-motion-controlled combined drive between finishing lapper and hopper. W. Hardman. 1,664,411; Apr. 3.
Fence guard. J. C. Farrington. 1,664,603; Apr. 3.
Fence-wire structure. H. M. Moore. 1,664,785; Apr. 3.
Filament-current-reversing device. L. W. Gillis. 1,664,813; Apr. 3.
Film developer, Coil-. G. C. Beidler. 1,664,731; Apr. 3.
Film-roll box and mounting. G. C. Beidler. 1,664,730; Apr. 3.
Film-treating apparatus. J. G. Capstaff. 1,664,735; Apr. 3.
Finishing machine. E. G. Carr. 1,665,054; Apr. 3.
Fire extinguisher. G. W. Burke, jr. 1,664,450; Apr. 3.
Fire-extinguishing sprinkler systems, Valve for. E. Tyden. 1,664,648; Apr. 3.
Fire still and oil treater. F. E. Gilmore. 1,664,920; Apr. 3.
Fishing-tackle attachment. M. Murray. 1,665,144; Apr. 3.
Floor construction. J. H. Mitter. 1,664,638; Apr. 3.
Floor covering. N. L. Campbell. 1,664,589; Apr. 3.
Flow meter. C. P. Mayer. 1,665,141; Apr. 3.
Fluid-circulating plate. A. G. Kessler. 1,664,628; Apr. 3.
Fluids from gases, Apparatus for absorbing. E. Piron. 1,664,483; Apr. 3.
Fluids to burners, Apparatus for delivery of. G. M. Peltz. 1,665,145; Apr. 3.
Fluidity-control system. H. H. Werminc. 1,664,839; Apr. 3.
Flushing and ventilating apparatus for closets. H. C. Bowlus. 1,664,588; Apr. 3.
Flying machine. W. H. Goyne. 1,665,091; Apr. 3.
Folder or file holders, Reenforced. C. E. Cather. 1,665,128; Apr. 3.
Forms and apparatus for casting concrete walls, Erecting. O. A. Hollis. 1,664,884; Apr. 3.
Frame: *See*—
Dynamo frame. Sash frame.
Machine frame. Spinning and twisting frame.
Fuel briquettes, Manufacturing. A. L. Stillman. 1,664,998; Apr. 3.
Fuel-feeding system. L. O. French. 1,664,610; Apr. 3.
Fuel-injection system. L. O. French. 1,664,607–9; Apr. 3.
Fuel-injecting system. L. O. French. 1,664,611; Apr. 3.
Fuel-injection system. L. O. French. 1,664,614-15; Apr. 3.
Furnace: *See*—
Blast furnace. Open-hearth furnace.
Hearth-tray furnace.
Furnaces, Additional air supply for warm-air. R. Judd, E. Taylor, and R. S. McNaney. 1,664,821; Apr. 3.
Fuse setter. R. L. Goetzenberger. 1,664,676; Apr. 3.
Fuses, Holder for electric. O. E. Holtsclaw. 1,665,169; Apr. 3.
Game device. E. W. Gates. 1,664,506; Apr. 3.
Gas burner. R. Eickworth. 1,664,973; Apr. 3.
Gas burner. P. S. Harper. 1,664,508; Apr. 3.
Gas heater. H. Lange. Des. 74,838; Apr. 3.
Gas purification. J. Becker. 1,665,013; Apr. 3.
Gas-range burner. P. S. Harper. 1,664,509; Apr. 3.
Gatherer. G. C. Jett. 1,665,034; Apr. 3.
Gauge: *See*—
Liquid gauge. Snap gauge.
Nonvibrating gauge.
Gear, Multiple-engine drive. E. Brown and C. P. Breese. 1,664,399; Apr. 3.
Gear unit, Detachable. D. C. Klausmeyer. 1,664,889; Apr. 3.
Gearing, Friction or adhesion. E. H. J. C. Gillett. 1,665,165; Apr. 3.
Gears, Chain anchor for brake. A. F. O'Connor. 1,665,188; Apr. 3.
Generator: *See*—
Thermoelectric generator.
Glass-plate joint. L. Easterman. 1,664,543; Apr. 3.
Glove protector. J. B. Douglass. 1,664,542; Apr. 3.
Golf tee. E. F. Copp. 1,664,400; Apr. 3.
Governor. O. N. Bryant. 1,664,849; Apr. 3.
Grader and cleaner, Pea. C. Schroeder. 1,665,114; Apr. 3.
Grate bar. C. R. Wald. 1,664,496; Apr. 3.
Grinder. O. Sann. 1,664,949; Apr. 3.
Grinder, Rotary. J. H. Littler. 1,664,693; Apr. 3.
Grinders, Size indicator for surface. C. Knowles. 1,664,823; Apr. 3.
Grinding and polishing glass, Process and apparatus for. F. E. Slocombe. 1,665,117; Apr. 3.
Grinding machine, Automatic size-. S. Einstein, W. Peaslee, and F. S. Haas. 1,665,160; Apr. 3.
Grinding machine for mill burrs or other articles. C. A. Ryan. 1,665,177; Apr. 3.
Grinding machinery. J. E. Caster. 1,665,084; Apr. 3.
Guide for molder tables. J. C. Conover. 1,664,900; Apr. 3.
Hammer attachment for electric drills and the like. J. C. Misener. 1,665,173; Apr. 3.
Hammer, Claw. C. D. Cummings. 1,664,594; Apr. 3.
Hammer, Pneumatic. R. N. Tucker. 1,665,046; Apr. 3.
Hand-bag frame. R. E. Sommers. Des. 74,846; Apr. 3.
Handle for a knife or similar article. H. Hebbard. Des. 74,834; Apr. 3.
Handle for door latches or the like. G. Graff. Des. 74,827; Apr. 3.
Handsaw. S. Sulik. 1,664,906; Apr. 3.
Hanger: *See*—
Beam hanger.
Harrow attachment, Disk-. H. J. O'Neil. 1,664,430; Apr. 3.
Harvester, Cotton. P. Helton. 1,664,924; Apr. 3.
Hat bag, Lady's. H. Barol. 1,665,010; Apr. 3.
Hauling mechanism. R. C. Osgood. 1,665,068; Apr. 3.
Hay loader, Windrow. L. H. Kaupke. 1,664,688; Apr. 3.
Hayrack. L. C. Struensee. 1,664,838; Apr. 3.
Hayrake. W. F. Mottier. 1,664,699; Apr. 3.
Hearth-tray furnace, Tilting. A. D. Keene. 1,664,749; Apr. 3.
Heater: *See*—
Manifold heater.
Heater. A. A. Nieberding. Des. 74,841; Apr. 3.
Heating the singeing members of cylinder singeing machines. W. Osthoff. 1,664,993; Apr. 3.

Heel-assembling machine. E. R. Pope. 1,664,639; Apr. 3.
Helium from natural gas, Production of. P. E. Haynes. 1,664,412; Apr. 3.
Hoe and rake, Combined. E. Urban. 1,665,183; Apr. 3.
Holder for long-stem flowers. B. S. Tonnesen. 1,664,436; Apr. 3.
Hot-water-supply systems, Keeping up the temperature in. S. Otis. 1,664,862; Apr. 3.
Ice crystals, Making. S. C. Carney. 1,664,850; Apr. 3.
Ice-making apparatus. J. B. Rochelle. 1,664,705; Apr. 3.
Igniter for gas stoves, Safety. W. F. Dester. 1,664,917; Apr. 3.
Igniter, Safety gas-stove. W. F. Dester. 1,664,918; Apr. 3.
Ignition system, Automotive-vehicle. F. J. Watts. 1,664,911; Apr. 3.
Indicator: *See*—
Direction indicator. Speed indicator.
Lost-ball indicator.
Inductance apparatus, Variable. H. Vadersen. 1,664,495; Apr. 3.
Induction coil, Burglarproof. H. J. Murray. Re16,920; Apr. 3.
Information display device. E. Isbell. 1,664,511; Apr. 3.
Insect destroyer. H. E. Voss. 1,664,762; Apr. 3.
Instrument panel. E. A. Gustafson. 1,664,679; Apr. 3.
Internal-combustion engine. E. C. Magdeburger. 1,664,782; Apr. 3.
Internal-combustion engine. F. R. Smith and S. M. Viale. 1,664,492; Apr. 3.
Internal-combustion engine. M. Spence. 1,665,192; Apr. 3.
Internal-combustion engine. F. R. West. 1,665,121; Apr. 3.
Internal-combustion engine, Air-cooling. S. D. Heron. 1,664,414; Apr. 3.
Internal-combustion engine, Scavenging. E. Herkt. 1,664,817; Apr. 3.
Iron: *See*—
Sadiron.
Iron stand, Fireproof. R. A. Morrison and F. L. Oswald. 1,664,698; Apr. 3.
Ironing boards or bucks, Cover clamp for. W. Colclough. 1,664,916; Apr. 3.
Jack: *See*—
Lifting jack. Smoke jack.
Jewelry. A. P. Rea. 1,664,994; Apr. 3.
Joint: *See*—
Glass-plate joint. Rail joint.
Pipe joint.
Joint. B. Meyering. 1,664,893; Apr. 3.
Joint installer, Expansion-. A. C. Fischer. 1,664,605; Apr. 3.
Kalamein machine. C. H. Grebe. 1,664,677; Apr. 3.
Kier. J. C. Bonneau. 1,664,475; Apr. 3.
Knife. J. H. Williams. Des. 74,850; Apr. 3.
Knife and paint hook, Combined putty. C. Seeley. 1,664,902; Apr. 3.
Knitted fabric and making the same. G. L. Ballard. 1,664,805; Apr. 3.
Lace. B. A. Ball. Des. 74,817; Apr. 3.
Lamp, Battery hand. H. W. Staples. 1,664,905; Apr. 3.
Lamp, Electric. H. A. Douglas. 1,664,876; Apr. 3.
Lamp, Head. F. G. Engle. 1,664,405; Apr. 3.
Lamp, Portable electric. J. F. Whelan. Des. 74,848; Apr. 3.
Lantern. G. E. Allen. 1,664,447; Apr. 3.
Lantern, Signal. E. J. Welder. 1,664,653; Apr. 3.
Latch, Door. H. W. Hancock. 1,664,681; Apr. 3.
Lath. S. K. Cowan. 1,664,875; Apr. 3.
Lathe. E. Coenen. 1,664,968; Apr. 3.
Lathe, Automatic multiple-spindle milling. J. A. Doane. 1,664,740; Apr. 3.
Lathe chuck, Crank-shaft. W. F. Groene. 1,664,622; Apr. 3.
Lathes, Feed and traversing motion for. F. R. Deuring. 1,665,158; Apr. 3.
Laundry drier. W. C. Schrenkeisen. 1,664,490; Apr. 3.
Lavatory. S. Smith. Des. 74,844–5; Apr. 3.
Leather, Finishing. F. W. Ellington. 1,664,742; Apr. 3.
Lens-testing machine. W. A. Gunning. 1,664,923; Apr. 3.
Lifting jack. B. W. Twyman. 1,664,579; Apr. 3.
Light: *See*—
Dash light. Traffic light.
Lighter, Cigar. L. P. Dittemore. 1,664,597; Apr. 3.
Lighter, Cigarette. M. J. Harkless. 1,664,857; Apr. 3.
Lighter for gas water heaters, Automatic. H. A. L. Fowler. 1,665,088; Apr. 3.
Lighting device, Tractor. W. H. White. 1,665,122; Apr. 3.
Lighting-fixture body or article of similar nature. H. Aglow. Des. 74,815; Apr. 3.
Lighting systems, Automatic regulation in electric-. F. C. Lyne and J. Etchells. 1,664,519; Apr. 3.
Lighting systems for motor vehicles, Indirect. L. F. Korns. 1,664,748; Apr. 3.
Lime and making it, Plastic hydrated. H. Dittlinger. 1,664,598; Apr. 3.
Lingerie clasp. P. E. Wiberg. 1,664,716; Apr. 3.
Link, Snap. O. C. Hill. 1,665,059; Apr. 3.
Liquid containing a dispersed phase of another liquid, Apparatus for separating. E. W. Gard, B. G. Aldridge, and H. J. Multer. 1,665,164; Apr. 3.
Liquid-cooling device. R. West. 1,664,872; Apr. 3.
Liquid-distributing apparatus. F. Gouvion. 1,665,093; Apr. 3.
Liquid gauge. H. Hastings. 1,664,558; Apr. 3.
Liquid-level indicator. W. F. Hohorst. 1,664,416; Apr. 3.
Liquids, Clarifying. A. Vallée y Gumá. 1,665,167; Apr. 3.
Listing, counting, and printing machine. W. C. Bull. 1,664,768; Apr. 3.
Lock: *See*—
Clamping lock. Rail lock.
Nut lock. Safe lock.
Plug lock.
Lock. E. M. Benham. 1,665,015; Apr. 3.
Lock. E. M. Benham and G. J. Bauer. 1,665,016; Apr. 3.
Lock. H. A. Douglas. 1,664,404; Apr. 3.
Lock escutcheon or similar article, Bag-. J. B. Russ. Des. 74,842; Apr. 3.
Lock for motor vehicles. G. A. Gillen. 1,664,620; Apr. 3.
Lock mechanism. C. W. Lanphere. 1,664,984; Apr. 3.
Looms, Harness-operated stop-motion device for. J. Magina. 1,664,520; Apr. 3.
Looms, Wire-carriage-release dog for pile-wire-controlling mechanism for. W. E. Smith. 1,665,147; Apr. 3.
Lost-ball indicator. S. J. Bens. 1,664,397; Apr. 3.
Loud-speaker unit. P. Amato. 1,664,448; Apr. 3.
Lubricant stocks, Treatment of. G. F. Olsen. 1,665,111; Apr. 3.
Lubricator: *See*—
Spring-actuated lubricator.
M-dinitrobenzene from its isomers, Separation of. H. J. Welland and I. Gubelmann. 1,665,005; Apr. 3.
Machine for coating objects. J. Franz. 1,664,505; Apr. 3.
Machine for comparing punched cards. H. A. Weinlich. 1,664,533; Apr. 3.
Machine for fleshing furred skins. R. Olds. 1,664,991; Apr. 3.
Machine for making metallic tubing. F. Hanff. 1,664,976; Apr. 3.
Machine for rounding the edges of glass sheets. W. Owen. 1,665,040; Apr. 3.
Machine for squaring spoke stock. K. M. Mathisen. 1,664,861; Apr. 3.
Machine for trimming rubber heels. S. J. Finn. 1,664,604; Apr. 3.
Machine for twisting the eyes of wire reels. G. A. Paff. 1,665,069; Apr. 3.
Machine frame. J. O. Liffander and C. J. Johnson. 1,665,137; Apr. 3.
Machine, In-and-out. J. W. Miles. 1,664,523; Apr. 3.
Magnesia compounds, Production of refractory. W. Koehler. 1,664,631; Apr. 3.
Magnesium oxide, Production of. W. Koehler. 1,664,630; Apr. 3.
Mail-bag crane, Railway. M. J. Davis. 1,665,056; Apr. 3.
Mail box. G. Muehleisen. 1,664,462; Apr. 3.
Mail receiving and delivering device. H. J. Hill. 1,664,819; Apr. 3.
Manifold heater. L. E. Aske. 1,664,727; Apr. 3.
Manifold, Valve. A. M. Thomson. 1,664,909; Apr. 3.
Manifolding machine. A. W. Metzner. 1,664,568; Apr. 3.
Marble panels, Manufacture of imitation-. W. J. Schenk. 1,665,072; Apr. 3.
Marking confectionery. E. Messer. 1,664,826; Apr. 3.
Marking machine. F. J. Lederer. 1,665,197; Apr. 3.
Mayonnaise product and producing same. A. K. Epstein and M. C. Reynolds. 1,664,775; Apr. 3.
Measuring can. R. D. Hughes. 1,664,560; Apr. 3.
Measuring device for containers. C. O. Lundholm. 1,665,139; Apr. 3.
Measuring the density of gas. G. König. 1,664,752; Apr. 3.
Mechanical stud-driving device. L. A., and C. F. Weil. 1,664,442; Apr. 3.
Melting pot. L. W. Jones. 1,664,779; Apr. 3.
Mercurial printing surface. A. R. Trist. 1,665,000; Apr. 3.
Metal can. J. M. Hothersall. Des. 74,835; Apr. 3.
Metal-casting machine. W. S. Hadaway, jr. 1,664,882; Apr. 3.
Metal coatings, Production of galvanic. F. Kirschner. 1,664,750; Apr. 3.
Metal patterns by electrodeposition, Mold for making. A. K. Laukel. 1,665,062; Apr. 3.
Metal strips, Rolling. J. B. Tytus. 1,664,580; Apr. 3.
Meter: *See*—
Electricity meter. Speed meter.
Flow meter.
Micrometer caliper. H. C. Schaper. 1,664,833; Apr. 3.
Milk-can cooler. C. M. Osborn. 1,664,702; Apr. 3.
Mining machine. C. E. Davis. 1,664,666; Apr. 3.
Mining machine. T. E. Pray. 1,664,703; Apr. 3.
Mixtures and clarifying of liquids, Method and apparatus for centrifugal thickening of. H. M. Chance. 1,664,769; Apr. 3.

Modulating reflectors for controlling the rate of change of sound emission. J. H. Hammond, jr. 1,664,556; Apr. 3.
Mold. S. Daniels and G. J. Himmelein. 1,664,452; Apr. 3.
Molds, Device for forcing ice-cream bricks from. C. G. Davis. 1,664,667; Apr. 3.
Molding machine. E. C. Holmes. 1,664,559; Apr. 3.
Monkey wrench. F. Juricinec. 1,664,932; Apr. 3.
Mop holder. C. H. Koeker. 1,664,824; Apr. 3.
Morse multiplex system, Manual. J. Herman. 1,664,453; Apr. 3.
Motor tilling machine. K. von Meyenburg. 1,664,789; Apr. 3.
Mower, Lawn. C. C. Worthington. 1,664,721; Apr. 3.
Mowers, Attachment for. A. J. Holland. 1,665,032; Apr. 3.
Musical instruments, Case for. A. C. Geib. 1,664,476; Apr. 3.
Nail, Clamp. C. C. Jensen. 1,664,687; Apr. 3.
Nasal retractor or speculum. W. J. Cameron. 1,664,660; Apr. 3.
Necktie holder. A. Meyer and W. Kretzschmar. 1,664,892; Apr. 3.
Nonvibrating gauge. O. W. Heise. 1,664,776; Apr. 3.
Novelty device. E. G. Masters. 1,664,695; Apr. 3.
Nozzle. F. E. Hansen. 1,664,816; Apr. 3.
Nut lock. C. F. Hartkopf. 1,664,744; Apr. 4.
Oil burner. H. A. Greenwald and J. D. Howe. 1,664,410; Apr. 3.
Oil burner, Self-cleaning. O. Christensen. 1,664,967; Apr. 3.
Oil grate and mat. W. A. Wilhelm. 1,665,123; Apr. 3.
Oil level, Apparatus for maintaining uniform. A. E. Grant. 1,665,026; Apr. 3.
Oil wells, Capping device for. C. A. Rasmussen. 1,664,643; Apr. 3.
Open-hearth furnace. G. L. Danforth, jr. 1,665,086; Apr. 3.
Operating device. E. Ek. 1,664,919; Apr. 3.
Ophthalmic mounting. J. A. Sweeney. 1,664,577; Apr. 3.
Ophthalmic temple. W. H. Boutelle. 1,664,966; Apr. 3.
Organ for producing a piano effect, Pipe. J. H. Hammond, jr. 1,664,554; Apr. 3.
Organs, Pedal control for pipe. J. H. Hammond, jr. 1,664,552; Apr. 3.
Organic compound and making the same, Water-soluble metallic. M. S. Kharasch. Re16,921; Apr. 3.
Ortho rotor plane. J. V. Matteson, jr. 1,665,171; Apr. 3.
Oven. R. W. and H. R. Williams and I. Elliott. 1,664,443; Apr. 3.
Oven, Coking retort. H. Koppers. 1,664,632; Apr. 3.
Oven, Coking retort. N. G. Parry. 1,664,633; Apr. 3.
Oven, Coking retort. J. Van Ackeren. 1,664,649; Apr. 3.
Overalls. I. L. Edwards. 1,664,774; Apr. 3.
Overalls. A. Johnson. 1,664,512; Apr. 3.
Overcast, Portable. F. A. Sweet. 1,664,646; Apr. 3.
Package elevator. J. L. Baldwin. 1,664,912; Apr. 3.
Packaging staples or the like and package produced thereby. T. A. Briggs. 1,665,051; Apr. 3.
Paint remover, Electric. W. Multhaup. 1,664,429; Apr. 3.
Paint-spraying machine. L. R. S. Agassiz. 1,664,803; Apr. 3.
Paper-making machine, Cylinder. A. T. Yoder. 1,664,722; Apr. 3.
Parcel bag. C. P. Kleebauer and R. M. Lackey. 1,665,035; Apr. 3.
Partitioning device. F. A. Purchas. 1,664,465; Apr. 3.
Pass book for banks. A. G. Pilbrow. 1,664,897; Apr. 3.
Pen, Writing. I. Benjamins. 1,664,501; Apr. 3.
Photographic exposure calculator. J. R. Hewett. 1,664,818; Apr. 3.
Photographing and developing apparatus. G. C. Beidler. 1,664,729; Apr. 3.
Piano. C. E. Blalack and G. H. Eckstein. 1,664,587; Apr. 3.
Pickling machine. C. G. Miller and C. F. Cleveland. 1,664,428; Apr. 3.
Picture-transmitting system. E. F. Watson and A. Weaver. 1,664,652; Apr. 3.
Pile fabric. C. S. Hamilton. Des. 74,831; Apr. 3.
Pillow, Sleeping. W. J. Blankenship. 1,664,537; Apr. 3.
Pipe coupling. B. M. Brownell. 1,664,848; Apr. 3.
Pipe cutter. J. O. Gaffney. 1,665,089; Apr. 3.
Pipe joint. A. G. Perkins. 1,664,941; Apr. 3.
Pipe lines against corrosion, Electro-chemical protecting of buried. R. V. Mills. 1,664,800; Apr. 3.
Pipe tap, Wooden-. W. E. Spangle. 1,664,796; Apr. 3.
Piston, Lubricating. C. C. Hanch. 1,664,507; Apr. 3.
Pit cover. J. H. Owens. 1,664,525; Apr. 3.
Plant-potting machine. C. G. Bewley. 1,664,918; Apr. 3.
Planter. L. R. Hupp. 1,664,925; Apr. 3.
Planting machine, Potato-. A. Edelhoff. 1,664,773; Apr. 3.
Plaster board. J. Strand. 1,664,887; Apr. 3.
Plate or similar article. H. Auyera. Des. 74,816; Apr. 3.
Plate or similar article. A. Hatzel. Des. 74,833; Apr. 3.
Plow. M. Planess. 1,665,041; Apr. 3.
Plug, Attachment. F. F. Frakes. 1,664,408; Apr. 3.
Plug lock, Electrical. J. B. Henry. 1,665,095; Apr. 3.
Pocket construction. F. Mayer. 1,664,460; Apr. 3.
Positioning mechanism, Full-cycle. G. C. Chase. 1,664,661; Apr. 3.
Post: *See*—
Tool post.
Post cap. A. De Vries. Des. 74,826; Apr. 3.
Pot: *See*—
Melting pot. Tinning pot.
Power machines, Automatic guard for the intermittently-operated rams of. H. C. Paecht. 1,664,790; Apr. 3.
Power-transmitting device. C. McPherson. 1,664,567; Apr. 3.
Presses, Hydraulic cushion for sheet-metal. F. J. Rode. 1,664,485–7; Apr. 3.
Printers, Paper-gripping device for plate. C. F. Nayer. 1,664,700; Apr. 3.
Printing and embossing machines, Work holder for. S. F. Kiesling and O. Halvorsen. 1,665,099; Apr. 3.
Privy-vault cover, Automatic. J. D. Lang. 1,664,426; Apr. 3.
Program-selecting circuits. M. E. Strieby. 1,664,468; Apr. 3.
Propagating box. E. Wright. 1,665,124; Apr. 3.
Propeller shaft. W. R. Strickland. 1,664,713; Apr. 3.
Protector, Sanitary. Y. Ito. 1,664,626; Apr. 3.
Pulp screen, Centrifugal. G. F. Shevlin. 1,664,996; Apr. 3.
Pulse, respiration, and temperature recorder, Automatic. J. E. Eshbaugh. 1,664,407; Apr. 3.
Pulsometer. J. P. Japy. 1,664,927; Apr. 3.
Pump. A. S. Weldy. 1,664,764; Apr. 3.
Pump and motor, Rotary fluid. E. J. Wendell. 1,665,120; Apr. 3.
Pump, Centrifugal. O. Poulsen. 1,664,572; Apr. 3.
Pump, Centrifugal. C. A. Schellens. 1,664,488; Apr. 3.
Pump, Dispensing. C. Spaeth. 1,664,574; Apr. 3.
Pump drain. M. Walton. 1,664,715; Apr. 3.
Pump, Fluid. F. O. Hoagland. 1,664,745; Apr. 3.
Pump for brake systems, Air. E. O. Schjolin. 1,664,706; Apr. 3.
Pump of the rotary type, Circulation. A. Huguenin. 1,665,097; Apr. 3.
Pump, Rotary. A. E. Simpson. 1,664,644; Apr. 3.
Pump, Sanitary. O. W. Johnson. 1,664,930; Apr. 3.
Pump stroke and pressure indicator, Air-. J. W. Hannan. 1,664,557; Apr. 3.
Pump, Suction force. A. Bohnenblust. 1,665,082; Apr. 3.
Pump, Tide. S. D. Master. 1,665,140; Apr. 3.
Pump, Vacuum. C. Bol. 1,664,398; Apr. 3.
Push-button switch. A. H. Hardman. 1,664,682; Apr. 3.
Rack: *See*—
Barrel rack. Check-sorting rack.
Carton rack. Hayrack.
Radiator. F. Gargiulo, E. G. Edwards, and C. Oppe. 1,664,812; Apr. 3.
Radiator cap, Automobile. J. F. White. 1,665,004; Apr. 3.
Radiator-cap ornament, Automobile. A. F. Filer. Des. 74,830; Apr. 3.
Radiator shield. F. E. Johnson. 1,664,931; Apr. 3.
Radio apparatus. D. Grimes. 1,664,548; Apr. 3.
Radio apparatus. H. F. Smith. 1,664,494; Apr. 3.
Radiocondenser. W. L. Hudson. 1,664,685; Apr. 3.
Rail and tie holding means, Railway. G. W. Muller. 1,665,107; Apr. 3.
Rail, Flexible robe. J. H. Hunter. 1,664,418; Apr. 3.
Rail-joint bar or fishplate. G. W. Muller. 1,665,108; Apr. 3.
Rail joint, Insulated. R. B. Abbott. 1,664,725; Apr. 3.
Rail lock. F. J. Schroeder. 1,665,115; Apr. 3.
Railroads, Automatic section block system for. H. Arndt. 1,665,008; Apr. 3.
Railway and tramway trains, Speed-controlling device for. E. Rodolausse. 1,665,112; Apr. 3.
Railway-track circuit apparatus. H. S. Young. 1,664,446; Apr. 3.
Rake: *See*—
Hayrake. Tractor sweeprake.
Razor-blade holder, Safety-. E. Bardet. 1,665,125; Apr. 3.
Receiver for suspending toilet-paper rolls, Integral. A. Baruch. 1,664,392; Apr. 3.
Receiving device for distant-vision installation. G. Valensi. 1,664,798; Apr. 3.
Receptacle. A. H. Thrower. 1,665,184; Apr. 3.
Receptacle, Metal. S. Ringer. 1,664,431; Apr. 3.
Receptacles, Producing tapered expanded-metal. H. Kielberg. 1,664,629; Apr. 3.
Recording and exhibiting, Method of and apparatus for. W. J. Citron. 1,664,770; Apr. 3.
Recording apparatus for testing machines. W. J. Tretch and F. Buckingham. 1,664,999; Apr. 3.
Reel: *See*—
Twine reel.
Reflector housing for display case lights. D. J. Biller. Des. 74,818; Apr. 3.
Refrigerating apparatus. B. C. von Platen and C. G. Munters. 1,664,472; Apr. 3.
Refrigeration. B. C. von Platen and C. G. Munters. 1,664,471; Apr. 3.
Refrigerator display case. G. Schmidt. 1,664,489; Apr. 3.
Register: *See*—
Cash register.

Regulator: *See*—
Traffic regulator.
Relieving attachment. J. W. Durkee. 1,664,741; Apr. 3.
Retaining device. R. F. Krejci. 1,664,890; Apr. 3.
Retort-cover clamp. D. W. Dudderar. 1,664,972; Apr. 3.
Road-subgrading machine. H. K. Lehmer. 1,664,634; Apr. 3.
Rock asphalt, Treatment of. W. P. Bentley. 1,664,846; Apr. 3.
Rocker-step connection. P. R. Furman. 1,664,811; Apr. 3.
Rod clamp, Polish-. T. Severns and R. R. Hall. 1,664,709; Apr. 3.
Roll crusher, Single-. M. E. First. 1,664,877; Apr. 3.
Roller: *See*—
Shade roller.
Roofs or the like, Flashing for. A. C. Fischer. 1,664,606; Apr. 3.
Rotary engine. R. Meyer. 1,664,987; Apr. 3.
Rubber-vulcanization accelerator. C. O. North and W. Scott. 1,664,481; Apr. 3.
Rudder. E. F. Wees. 1,664,957; Apr. 3.
Rug and strand therefor. P. C. Waite. 1,664,497; Apr. 3.
Rug or similar article. O. W. Fauser. Des. 74,829; Apr. 3.
Rule, Jointed. C. W. Humphrey. 1,664,886; Apr. 3.
Saddle and center joint cap. A. R. Wilson. 1,664,444; Apr. 3.
Sadiron stand, Electrically-heated. R. O. Reynolds. 1,664,758; Apr. 3.
Safe lock. J. J. Mariotti. Re16,915; Apr. 3.
Salting apparatus. D. R. Bailey. 1,664,474; Apr. 3.
Sandpaper holder. S. J. Sloan. 1,664,950; Apr. 3.
Sanitary belt and buckle. O. C. Stahl. 1,665,075; Apr. 3.
Sash frame. C. L. Thornberry. 1,664,578; Apr. 3.
Sash holder. D. S. Everett. 1,664,602; Apr. 3.
Sausage mills, Grindstone attachment for. G. E. Perdue. 1,664,896; Apr. 3.
Saw, Hack. D. E. Gommel. 1,665,090. Apr. 3.
Sawmill. C. H. Turner. 1,665,001; Apr. 3.
Scooter. F. H. Headley. 1,664,858; Apr. 3.
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Shade holder. L. H. Levinson. 1,664,516; Apr. 3.
Shade roller. B. Kaczmarski. 1,664,627; Apr. 3.
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Sheet feeding and driving means. C. L. Post. 1,664,640; Apr. 3.
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Shoes, Apparatus for use in making. F. E. Bertrand. 1,664,657; Apr. 3.
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Sifter. H. S. Woodward. 1,664,841; Apr. 3.
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Signal system. R. A. Heising. 1,664,860; Apr. 3.
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27: 1,664,698
30: 1,664,921
69— 13: 1,664,645
70— 29: 1,664,984
46: 1,664,404
72: 1,665,015
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115: 1,664,432
127: 1,664,522
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72— 19: 1,664,396
41: 1,664,867
53: 1,664,941
98: 1,664,827
116: 1,664,875
124: 1,664,837
138: 1,664,701
73— 51: 1,664,557
1,665,138
68: 1,664,596
82: 1,664,416
1,664,558
109: 1,664,776
167: 1,665,141
74— 7: 1,664,847
26: 1,664,567
1,664,640
34: 1,664,870
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1,665,165
38: 1,664,942
39: 1,664,669
54: 1,664,919
71: 1,664,524
99: 1,664,575
108: 1,664,507
112: 1,665,158
75— 27: 1,665,146
76— 108: 1,664,853
77— 28: 1,664,888
1,664,889
80— 60: 1,664,580
81— 15: 1,664,529
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36: 1,665,170
41: 1,665,182
53: 1,664,442
58: 1,664,391
126: 1,664,932
187: 1,665,109
191: 1,665,089
82— 4: 1,664,440
19: 1,664,741
29: 1,664,968
31: 1,664,757
40: 1,664,622
83— 26: 1,664,658
53: 1,664,877
73: 1,664,427
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84— 182: 1,664,553
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271: 1,664,547
343: 1,664,552
346: 1,664,554
404: 1,664,587
85— 5: 1,664,538
7: 1,664,890
1,665,100
11: 1,664,687
32: 1,664,560
88— 1: 1,664,454
14: 1,664,544
20: 1,664,953
24: 1,664,770
52: 1,664,966
89— 1: 1,664,676
40: 1,665,176
91— 41: 1,664,505
45: 1,664,803
68: 1,664,964
92— 34: 1,664,996
43: 1,664,722
51: 1,664,801
93— 54: 1,664,738
1,664,739
94— 3: 1,664,638
23: 1,664,846
34: 1,664,525
45: 1,665,054
51: 1,664,605
95— 18: 1,664,590
31: 1,664,550
90.5: 1,664,729
94: 1,664,731
1,664,735
97— 40: 1,664,789
62: 1,665,183
72: 1,665,041
179: 1,665,178
220: 1,664,430
98— 2: 1,664,529
1,665,130
50: 1,665,039
1,665,174
98: 1,664,456
99— 8: 1,664,550
11: 1,664,775
100— 54: 1,665,123
101— 91: 1,664,768
115: 1,664,402
330: 1,665,197
407: 1,665,099
409: 1,664,700
103— 1: 1,665,026
68: 1,665,140
88: 1,664,488
112: 1,664,572
126: 1,664,745
1,665,120
140: 1,664,644
160: 1,664,764
175: 1,665,082
217: 1,664,930
221: 1,664,715
248: 1,664,927
104— 52: 1,664,473
105— 205: 1,664,830
208: 1,664,795
225: 1,664,831
410: 1,664,711
430: 1,664,724
445: 1,664,811
457: 1,664,444
106— 9: 1,664,631
22: 1,664,600
1,665,136
27: 1,665,148
107— 8: 1,664,667
1,665,196
43: 1,664,474
54: 1,664,526
55: 1,664,443
108— 26: 1,664,606
109— 3: R. 16,919
110— 44: 1,664,903
122: 1,665,036
111— 63: 1,664,925
74: 1,665,042
113— 116: 1,664,620
114— 21: 1,664,549
66.5: 1,665,149
157: 1,665,011
167: 1,664,957
115— 14: 1,665,053
20: 1,665,012
116— 25: 1,664,871
43: 1,664,810
50: 1,665,087
52: 1,664,751
117— 33: 1,665,006
118— 51: 1,664,959
119— 33: 1,665,102
73: 1,664,691
140: 1,664,394
120— 114: 1,664,501
121— 7: 1,664,625
30: 1,665,046
32: 1,664,623
1,665,071
84: 1,664,987
122— 40: 1,664,914
392: 1,664,859
1,664,865
396: 1,664,862
123— 32: 1,664,609
1,664,611
1,664,614
1,664,615
55: 1,664,492
61: 1,664,782
1,664,817
90: 1,664,651
1,664,710
119: 1,664,747
122: 1,664,727
139: 1,664,610
140: 1,664,607
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171: 1,664,414
173: 1,665,121
1,665,192
187.5: 1,664,869
125— 3: 1,665,171
41.5: 1,664,518
126— 176: 1,664,496
309: 1,664,885
127— 57: 1,665,167
128— 2: 1,664,660
81: 1,665,030
227: 1,664,938
291: 1,664,626
1,665,075
129— 25: 1,665,128
131— 10: 1,665,023
51: 1,664,937
132— 11: 1,665,134
83: 1,665,007
1,665,077
134— 1: 1,665,105
78: 1,664,767
136— 4: 1,664,720
112: 1,664,821
137— 53: 1,664,493
139: 1,664,612
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130— 42: 1,665,147
337: 1,664,529
140— 71: 1,665,069
147: 1,664,717
141— 9: 1,664,637
1,664,690
143— 157: 1,665,001
144— 114: 1,665,137
176: 1,665,131
197: 1,664,861
223: 1,664,806
253: 1,664,909
149— 16: 1,664,991
150— 29: 1,664,627
151— 13: 1,664,744
152— 8: 1,664,674
11: 1,664,970
24: 1,665,094
27: 1,664,621
153— 1: 1,664,677
154— 2: 1,664,866
9: 1,665,193
10: 1,665,194
45.9: 1,665,168
49: 1,664,589
155— 10: 1,664,958
12: 1,664,766
95: 1,664,835
155— 179: 1,664,636
1,664,934
1,665,119
181: 1,664,526
158— 36: 1,665,145
92: 1,664,410
104: 1,664,509
105: 1,664,508
115: 1,664,917
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119: 1,664,973
164— 60: 1,664,807
61: 1,664,413
63: 1,664,604
166— 5: 1,664,734
15: 1,664,643
16: 1,664,593
169— 28: 1,664,450
171— 34: 1,664,672
1,664,673
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119: 1,664,513
242: 1,664,495
313: 1,664,519
325: 1,664,708
172— 36: 1,664,540
279: 1,664,561
1,664,781
173— 259: 1,664,692
1,665,048
263: 1,665,166
264: 1,665,191
328: 1,664,403
335: 1,664,986
342: 1,664,769
343: 1,665,018
1,665,095
174— 173: 1,664,457
177: 1,664,902
175— 41.5: 1,664,685
356: 1,664,541
359: 1,664,494
361: R. 16,920
1,664,911
177— 329: 1,664,653
1,664,791
337: 1,664,947
361: 1,664,952
178— 6: 1,664,798
11: 1,664,652
17.5: 1,664,453
41: 1,664,755
92: 1,664,933
179— 2: 1,664,468
8: 1,664,573
27: 1,664,665
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114: 1,664,448
115: 1,665,045
116: 1,665,044
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171: 1,664,455
187: 1,664,552
180— 2: 1,664,437
8: 1,664,570
64: 1,664,662
78: 1,665,103
82: 1,664,732
90: 1,664,679
182— 3: 1,664,853
22: 1,665,029
183— 15: 1,664,670
85: 1,664,663
115: 1,664,412
186— 1: 1,664,945
187— 28: 1,664,912
188— 152: 1,664,451
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194: 1,664,825
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259: 1,664,855
189— 12: 1,665,022
22: 1,664,922
35: 1,664,499
78: 1,664,542

189— 86: 1,664,463
192— 3: 1,664,479
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67: 1,664,439
105: 1,664,954
113: 1,665,076
116. 5: 1,664,790
196— 34: 1,665,111
41: 1,665,110
77: 1,664,977
117: 1,664,920
125: 1,664,863
198— 28: 1,664,663
38: 1,664,393
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156: 1,664,428
193: 1,664,763
200— 39: 1,664,697
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138: 1,665,014
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204— 1: 1,664,800
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206— 8: 1,665,010
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41: 1,664,498
52: 1,664,730
207— 2: 1,664,976
3: 1,664,990
208— 34: 1,664,641
38: 1,664,864
209— 108: 1,665,061
110: 1,664,533

209— 119: 1,665,114
241: 1,665,181
331: 1,664,941
210— 24: 1,664,435
43: 1,665,164
51: 1,664,769
54: 1,665,081
67: 1,665,065
164: 1,664,967
211— 11: 1,664,650
13: 1,664,330
16: 1,664,418
35: R. 16,924
119: 1,664,892
213— 127: 1,664,982
214— 38: 1,664,517
81. 5: 1,664,838
215— 1: 1,664,419
6: 1,664,756
13: 1,665,179
37: 1,664,995
38: 1,664,435
46: 1,664,905
76: 1,664,975
217— 5: 1,664,477
218— 1: 1,664,427
219— 4: 1,665,038
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25: 1,664,758
30: 1,664,429
32: 1,664,857
39: 1,664,844
44: 1,664,882
220— 1: 1,664,431
9: 1,664,345
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26: 1,665,163
53: 1,664,315
55: 1,664,472
73: 1,664,985
85: 1,665,106
94: 1,665,055
221— 16: 1,664,360
47. 3: 1,664,496
67: 1,664,574
98: 1,665,139
100: 1,665,093

221— 123: 1,664,773
125: 1,664,802
224— 29: R. 16,923
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225— 41: 1,664,796
226— 1: 1,664,913
84: 1,664,881
88: 1,664,514
92: 1,665,079
229— 5. 5: 1,665,033
68: 1,665,035
230— 101: 1,664,398
139: 1,665,097
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232— 24: 1,664,462
234— 1: 1,664,999
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43: 1,664,523
235— 3: 1,664,910
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14: 1,664,956
82: 1,664,661
88: 1,664,818
92: 1,664,539
236— 15: 1,664,965
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63: 1,665,052
238— 90: 1,664,459
14: 1,664,592
158: 1,664,725
188: 1,665,108
289: 1,664,458
299: 1,665,187
314: 1,665,107
329: 1,665,115
240— 7. 1: 1,664,536
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11: 1,664,447
41: 1,664,405
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136: 1,664,516
242— 55. 2: 1,664,392
118: 1,665,083

242— 144: 1,665,127
156: 1,664,467
157: 1,665,063
244— 6: 1,664,565
15: 1,664,844
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245— 1. 5: 1,665,070
246— 34: 1,664,446
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63: 1,664,814
182: 1,665,112
183: 1,664,868
203: 1,664,834
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247— 11: 1,665,126
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248— 56: 1,664,707
250— 9: 1,664,860
27. 5: 1,664,813
33: 1,664,548
251— 43: 1,664,714
55: 1,664,694
93: 1,664,712
116: 1,664,816
253— 117: 1,664,895
254— 68: 1,664,785
126: 1,664,579
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255— 18: 1,664,709
42: 1,665,173
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256— 11: 1,664,603
257— 125: 1,664,812
132: 1,664,931
178: 1,664,872
180: 1,664,704
258— 9: 1,664,819
23: 1,665,056
260— 13: R. 16,921
142: 1,665,005
261— 39: 1,664,718
107: 1,664,671
114: 1,664,483
121: 1,664,780
262— 28: 1,664,666
30: 1,664,703
263— 7: 1,664,749

263— 15: 1,665,086
264— 1: 1,664,417
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14: 1,664,849
265— 44: 1,664,752
49: 1,664,502
266— 25: 1,664,532
34: 1,664,779
39: R. 16,922
267— 1: 1,664,485
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19: 1,664,478
1,664,618
20: 1,664,655
65: 1,664,510
73: 1,664,647
268— 24: 1,664,894
270— 58: 1,664,898
271— 2. 4: 1,664,568
1,664,772
20: 1,664,960
1,664,961
46: 1,664,929
59: 1,664,928
272— 57: 1,664,664
273— 33: 1,664,400
62: 1,664,397
68: 1,664,971
72: 1,665,195
73: 1,664,466
95: 1,665,129
119: 1,664,506
274— 25: 1,664,988
35: 1,664,591
277— 20: 1,664,648
25: 1,664,900
1,664,901
45: 1,664,963
46: 1,664,909
279— 103: 1,664,528
280—33. 12: 1,665,133
36: 1,665,151
87. 5: 1,664,858
281— 23: 1,665,049
38: 1,664,897
283— 60: 1,664,573
285— 122: 1,664,848
287— 90: 1,664,893

289— 3: 1,664,571
290— 1: 1,665,122
16: 1,664,562
292— 25: 1,664,599
87: 1,664,500
1,664,696
114: 1,664,581
1,664,771
127: 1,664,576
251: 1,664,820
337: 1,664,681
342: 1,664,602
293— 41: 1,664,654
55: 1,664,989
1,665,085
294— 7: 1,664,783
102: 1,664,461
296— 24: 1,664,438
29: 1,664,569
145: 1,665,116
299— 83: 1,664,736
300— 7: 1,664,421
1,664,424
8: 1,664,420
10: 1,664,423
11: 1,664,422
17: 1,664,425
21: 1,665,152
301— 63: 1,664,531
1,664,765
1,665,092
303— 6. 1: 1,664,787
8: 1,664,836
10: 1,664,706
304— 27: 1,664,470
308— 43: 1,664,880
74: 1,664,944
160: 1,664,878
1,664,879
226: 1,664,445
1,664,915
312— 36: 1,665,025
42: 1,664,753
60: 1,665,057
84: 1,664,546
190: 1,665,028

April 10, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Absorene Manufacturing Company, The, St. Louis, Mo. Cleaner for aluminum, silverware, etc. 240,892; Apr. 10; Serial No. 258,011; published Feb. 7, 1928. Class 4.

Acme Chemical Company, Milwaukee, Wis. Antiseptic and germicidal. 240,788; Apr. 10; Serial No. 259,092; published Feb. 7, 1928. Class 6.

Aeolian Company, The, Meriden, Conn., and New York, N. Y., to The Aeolian Company, New York, N. Y. Automatic piano players. 31,412; renewed Mar. 8, 1928.

Aktiebolaget Sveriges Förenade Konservfabriker, Gothenburg, to Aktiebolaget Sveriges Förenade Konservfabriker, Gottenborg, Sweden. Preserved fish. 68,531; renewed Apr. 14, 1928.

Akund Studios, Inc., New York, N. Y. Cotton, wool, silk, rayon, and plush fabrics. 240,891; Apr. 10; Ser. No. 258,057; published Jan. 31, 1928. Class 42.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Packages of toilet paper. 69,091; renewed May 19, 1928.

Algonquin Paper Company, Huntington Mills, Pa. Wrapping paper and paper napkins. 240,918; Apr. 10; Serial No. 225,100; published Jan. 31, 1928. Class 37.

American Aluminum Ware Company, Newark, N. J. Aluminum cooking utensils. 240,986; Apr. 10. Class 13.

American Chemical Paint Company, Ambler, Pa. Liquid chemical. 240,809; Apr. 10; Serial No. 258,562; published Jan. 31, 1928. Class 6.

American Milk Products Corporation, New York, N. Y. Sweetened condensed milk. 240,764; Apr. 10; Serial No. 244,126; published Jan. 24, 1928. Class 46.

American Pulley Company, The, Philadelphia, Pa. Wrought-steel pulleys. 31,276; renewed Feb. 15, 1928.

Anderson, Christine, doing business as C. Anderson and Elliot Products, Los Angeles, Calif. Salve. 240,787; Apr. 10; Serial No. 259,094; published Feb. 7, 1928. Class 6.

Anheuser-Busch Brewing Association, assignor to Anheuser-Busch, Incorporated, St. Louis, Mo. Extract of malt and hops. 69,092; renewed May 19, 1928.

Asbestile (Société Anonyme), Brussels and Schoonaerde, Belgium. Asbestos-cement wall boards and sheathing. 240,981; Apr. 10; Serial No. 247,882; published Jan. 17, 1928. Class 12.

Atlas Underwear Co., The, Piqua, Ohio. Men's knitted underwear. 240,768; Apr. 10; Serial No. 239,874; published Feb. 15, 1927. Class 39.

Ballou, Benton, Ontario, Calif. Fresh grapes, fresh deciduous fruits, etc. 240,853; Apr. 10; Serial No. 255,628; published Feb. 7, 1928. Class 46.

Bay State Belting Company, Boston, Mass. Leather belting and lacing for belting. 69,021; renewed May 12, 1928.

Beir, Arthur, & Co., Inc., New York, N. Y. Cotton piece goods. 240,840; Apr. 10; Serial No. 257,653; published Jan. 31, 1928. Class 42.

Bennett, Harry, doing business as Glyco Products Co., New York, N. Y. Glycerin substitute. 240,743; Apr. 10; Serial No. 257,272; published Jan. 24, 1928. Class 6.

Bering, August C., jr., doing business as Texa Tire & Rubber Company, Houston, Tex. Pneumatic inner tubes. 240,977; Apr. 10; Serial No. 257,754; published Jan. 31, 1928. Class 35.

Berkoff, Louis S., doing business as The Mortemoth Co., Milwaukee, Wis. Preparation for killing moths. 240,772; Apr. 10; Serial No. 233,758; published Jan. 24, 1928. Class 6.

Bernard, F. J., Company. (See Karseboom, Frank B.)

Bernhardt, M. E., Company Inc., New York, N. Y. Friction cigar lighters. 240,794; Apr. 10; Serial No. 258,991; published Feb. 7, 1928. Class 34.

Best-O-Best Products Co. (See Justh, Rudolph C.)

Beverly Malt Co., The. (See Seligman, Meyer.)

Billings, King & Co., New York, N. Y., and Boston, Mass., to The Billings-Chapin Co., Cleveland, Ohio, successor. Paints and varnishes. 60,504; renewed Feb. 12, 1927.

Bissell Carpet Sweeper Co., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweepers. 31,702; renewed June 14, 1928.

Blatt, M. E., Co., Atlantic City, N. J. Linen piece goods and table and bed linens. 240,951; Apr. 10; Serial No. 246,071; published Feb. 7, 1928. Class 42.

Blatt, M. E., Co., Atlantic City, N. J. Sheets and pillowcases. 240,952; Apr. 10; Serial No. 246,069; published Jan. 31, 1928. Class 42.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 240,872; Apr. 10; Serial No. 257,142; published Jan. 31, 1928. Class 42.

Borden & Remington Co., Fall River, Mass. Paints. 240,744; Apr. 10; Serial No. 257,144; published Jan. 24, 1928. Class 16.

Bowersock Mills & Power Co., doing business as Jenny Wren Company, Lawrence, Kans. Breakfast food. 240,769; Apr. 10; Serial No. 238,425; published Nov. 16, 1926. Class 46.

Brinly-Hardy Company, Louisville, Ky. Plows and parts thereof. 240,961–4; Apr. 10; Serial Nos. 258,722–5; published Feb. 7, 1928. Class 23.

Brinly-Hardy Company, Louisville, Ky. Middle-breaker plows and parts thereof. 240,965–6; Apr. 10; Serial Nos. 258,719–20; published Feb. 7, 1928. Class 23.

Brinly-Hardy Company, Louisville, Ky. Plows and parts thereof. 240,967; Apr. 10; Serial No. 258,718; published Feb. 7, 1928. Class 23.

Brockway Clay Company, The, Brockway, Pa. Vitrified sewer pipe, wall coping, and flue lining. 241,010; Apr. 10. Class 12.

Bruce, John A., Tampa, Fla. Beverages. 240,997; Apr. 10. Class 45.

Bullock's, Inc., Los Angeles, Calif. Perfume. 240,810; Apr. 10; Serial No. 258,548; published Feb. 7, 1928. Class 6.

Burkhardt Corporation, Prentiss, Boston, Mass. Boer from malt and hops. 240,752; Apr. 10; Serial No. 255,227; published Jan. 17, 1928. Class 48.

Busy Bee Candy Co., St. Louis, Mo. Chocolate candy. 240,786; Apr. 10; Serial No. 259,102; published Feb. 7, 1928. Class 46.

California Avocado Growers Exchange, Los Angeles, Calif. Avocados. 241,012–13; Apr. 10. Class 46.

California Bottling Works, Los Angeles, Calif. Beverages. 241,003; Apr. 10. Class 45.

California Cap Company, Oakland, Calif. Speaking tubes. 240,925; Apr. 10; Serial No. 250,160; published Jan. 31, 1928. Class 13.

Campbell Coal Company, Atlanta, Ga. Coal. 240,763; Apr. 10; Serial No. 244,541; published Jan. 3, 1928. Class 1.

Canada Dry Ginger Ale, Incorporated, New York, N. Y. Periodicals. 240,911; Apr. 10; Serial No. 232,543; published Jan. 31, 1928. Class 38.

Cardinet Chemical Company, Los Angeles, Calif. Ink. 241,011; Apr. 10. Class 11.

Carlton Distributing Co. (See Gegenheimer, Carl.)

Carswell, Firman L., Mfg. Co., The, Kansas City, Kans. Drag scrapers, plows, and road graders. 240,942; Apr. 10; Serial No. 253,7[illegible]; published Feb. 7, 1928. Class 23.

Casey Foster Company, Boston, Mass. Hand trucks, wheelbarrows, etc. 240,847; Apr. 10; Serial No. 254,348; published Feb. 7, 1928. Class 19.

Champion Chili Company. (See White, F. L.)

Chase & Co., Orlando, Calif. Fresh citrus fruits. 240,864–9; Apr. 10; Serial Nos. 256,908–13; published 1928. Class 46.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 240,782; Apr. 10; Serial No. 259,234; published Feb. 7, 1928. Class 42.

Chicago Motor Training Corporation, Chicago, Ill. Lessons, instruction sheets, etc. 240,759; Apr. 10; Serial No. 248,619; published Jan. 3, 1928. Class 38.

Chopak Textile Co. Inc., New York, N. Y. Woolen jersey in the piece. 240,910; Apr. 10; Serial No. 234,821; published Jan. 31, 1928. Class 42.

Claussen, C. F., & Sons, Inc., Chicago, Ill. Vinegars, pickles, sauerkraut, etc. 240,829; Apr. 10; Serial No. 257,857; published Jan. 31, 1928. Class 46.

Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Pneumatic tools. 240,979; Apr. 10; Serial No. 257,095; published Jan. 31, 1928. Class 23.

Collins Company, The, Collinsville, Conn. Machetes and axes. 240,958; Apr. 10; Serial No. 259,200; published Feb. 7, 1928. Class 46.

Commerce Drug Co., Inc., Brooklyn, N. Y. Salves and ointments. 240,826; Apr. 10; Serial No. 257,920; published Feb. 7, 1928. Class 6.

Corbin & Wiesmer, Binghamton, N. Y. Eggs and cheese. 240,842; Apr. 10; Serial No. 257,504; published Jan. 31, 1928. Class 46.

Corduroy Tire Company, Grand Rapids, Mich. Tires and inner tubes. 240,957; Apr. 10; Serial No. 258,996; published Feb. 7, 1928. Class 35.

Corn Products Refining Company, New York, N. Y. Pudding powder. 240,874; Apr. 10; Serial No. 257,279; published Jan. 31, 1928. Class 46.

Cronk & Carrier Mfg. Co., The, Montour Falls, N. Y. Garden rakes. 240,931; Apr. 10; Serial No. 223,373; published Feb. 7, 1928. Class 23.

Crown Willamette Paper Company, San Francisco, Calif. Wrapping paper. 240,834; Apr. 10; Serial No. 257,619; published Feb. 7, 1928. Class 37.

Cudahy Packing Company, The, Chicago, Ill. Mixed fertilizers. 240,815; Apr. 10; Serial No. 258,461; published Jan. 31, 1928. Class 10.

Cumner-Jones Company, Boston, Mass. Linen canvas. 240,779; Apr. 10; Serial No. 259,324; published Feb. 7, 1928. Class 42.
Curtiss Candy Company, The, Chicago, Ill. Candy and candy bars. 241,017; Apr. 10. Class 46.
Cutrona, Joseph S., doing business as Gold Seal Specialty Co., Buffalo, N. Y. Hair dressing and tonic. 240,995; Apr. 10. Class 6.
Dead-Go Manufacturing Co. (See Shepherd, James W.)
Demoville, James L., New York, N. Y. Perfumery. 240,850; Apr. 10; Serial No. 255,056; published Jan. 31, 1928. Class 6.
Diiger, Frank S., doing business as Saylene Company, Yankton, S. Dak. Antiseptics. 240,884; Apr. 10; Serial No. 257,970; published Jan. 31, 1928. Class 6.
Driver-Harris Wire Company, assignor to Driver-Harris Company, Harrison, N. J. Resistance wire. 70,205; renewed Aug. 11, 1928.
Driver, William E., doing business as Philadelphia Speedometer Service Company, Philadelphia, Pa. Speedometers. 240,948; Apr. 10; Serial No. 250,793; published Feb. 7, 1928. Class 26.
Driver, William E., doing business as Philadelphia Speedometer Service Company, Philadelphia, Pa. Used in connection with the sale and distribution of all makes of speedometers. 240,950; Apr. 10; Serial No. 250,792; published Feb. 7, 1928. Class 26.
Duborel Corporation, The, Jersey City, N. J. Medicinal paste. 240,988; Apr. 10. Class 6.
Edison, Thomas A., Incorporated, West Orange, N. J. Typewriter stands or tables. 240,972; Apr. 10; Serial No. 258,315; published Jan. 31, 1928. Class 32.
El Cholo Food Products. (See Martinez, William V.)
Elco Paint Products, Inc., New York, N. Y. Paints, stains, primers, etc. 240,738–40; Apr. 10; Serial No. 257,668–70; published Jan. 24, 1928. Class 16.
Elliott Products. (See Anderson, Christine.)
Elovson, Jane, New York, N. Y. Window sashes and frames. 241,008; Apr. 10. Class 12.
Emerson Publishing Co., Inc., Burbank, Calif. Publication. 240,900; Apr. 10; Serial No. 258,214; published Feb. 7, 1928. Class 38.
Emery Food Company, Chicago, Ill. Dried fruits. 240,894; Apr. 10; Serial No. 258,254; published Feb. 7, 1928. Class 46.
Excello Drug & Import Co. Not Inc. (See Greenberg, William A.)
Factor, Max, doing business as Max Factor & Co., Los Angeles, Calif. Theatrical make-up preparations. 240,856; Apr. 10; Serial No. 255,648; published Feb. 7, 1928. Class 6.
First Texas Chemical Manufacturing Co., Dallas, Tex. Hypnotic and sedative. 240,730; Apr. 10; Serial No. 258,864; published Jan. 24, 1928. Class 6.
First Texas Chemical Manufacturing Co., Dallas, Tex. Hepatic stimulant. 240,731; Apr. 10; Serial No. 258,862; published Jan. 24, 1928. Class 6.
Fleer, Frank H., Corporation, Philadelphia, Pa. Candy-coated chewing gum. 240,861; Apr. 10; Serial No. 256,617; published Feb. 7, 1928. Class 46.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 240,862; Apr. 10; Serial No. 256,620; published Feb. 7, 1928. Class 46.
Florsheim Shoe Company, The, Chicago, Ill. Shoes. 240,767; Apr. 10; Serial No. 241,568; published Apr. 19, 1927. Class 39.
Forkdipt Chocolates Co., Boston, Mass. Candy. 241,016; Apr. 10. Class 46.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper towels, napkins, doilies, etc. 241,007; Apr. 10. Class 37.
Frank, Richard, doing business as Richard Frank & Co., New York, N. Y. Fruit syrup. 240,936; Apr. 10; Serial No. 255,978; published Jan. 31, 1928. Class 45.
Gardner-Denver Company, Denver, Colo. Drill bits, drill sharpeners, drill retainers, etc. 240,974; Apr. 10; Serial No. 258,177; published Feb. 7, 1928. Class 23.
Gast Manufacturing Corporation, Bridgman, Mich. Device for separating oil and water from compressed air. 240,983; Apr. 10. Class 23.
Gegenheimer, Carl, doing business as Carlton Distributing Co., Newark, N. J. Rice, tomato catsup, and food-flavoring extracts. 240,992; Apr. 10. Class 46.
Gilman Fanfold Corporation, Ltd., Niagara Falls, N. Y. Printed blank forms. 240,915; Apr. 10; Serial No. 252,835; published Jan. 24, 1928. Class 37.
Glennan, William S., Lochhaven, Norfolk, Va. Refrigerating device. 240,825; Apr. 10; Serial No. 257,924; published Jan. 31, 1928. Class 21.
Glyco Products Co. (See Bennett, Harry.)
Gold Dust Corporation, Jersey City, N. J. Preparation in liquid form for cleaning glass, marble, etc. 240,844; Apr. 10; Serial No. 253,940; published Feb. 7, 1928. Class 4.
Gold Seal Specialty Co. (See Cutrona, Joseph S.)
Goodwin Laboratories, Incorporated, Louisville, Ky. Preparation for use in sterilizing glassware, etc. 240,796; Apr. 10; Serial No. 258,906; published Feb. 7, 1928. Class 6.
Graton and Knight Manufacturing Company, The, assignor to Graton & Knight Company, Worcester, Mass. Leather belting. 69,305; renewed June 2, 1928.
Graybar Electric Company, Inc., New York, N. Y. Electric ironing machines. 240,916–18; Apr. 10; Serial Nos. 251,738–40; published Jan. 31, 1928. Class 24.
Graybar Electric Company, Inc., New York, N. Y. Twisted-wire cable. 240,919–21; Apr. 10; Serial Nos. 251,746–8; published Jan. 31, 1928. Class 7.
Graybar Electric Company, Inc., New York, N. Y. Soldering irons, linemen's tools and materials, etc. 240,944; Apr. 10; Serial No. 251,744; published Feb. 7, 1928. Class 23.
Graybar Electric Company, Inc., New York, N. Y. Ammeters, current meters, etc. 240,945–7; Apr. 10; Serial Nos. 251,730–2; published Feb. 7, 1928. Class 26.
Greenberg, William A., doing business as Excello Drug & Import Co., Not Inc., Chicago, Ill. Cream of tartar, oxalic acid, etc. 240,853; Apr. 10; Serial No. 255,847; published Feb. 7, 1928. Class 6.
Griffith, Elizabeth, doing business as Mrs. Edw. A. Griffith, Covington, Ky. Salve. 240,800; Apr. 10; Serial No. 258,686; published Feb. 7, 1928. Class 6.
Griggs, Cooper & Company, St. Paul, Minn. Canned meats, bouillon cubes, canned sea foods, etc. 240,773; Apr. 10; Serial No. 231,861; published Jan. 24, 1928. Class 46.
Gund Manufacturing Co. (See Swedlin, J., Inc.)
H and H Cleaner Company, Des Moines, Iowa. Detergent composition resembling soap. 240,841; Apr. 10; Serial No. 257,625; published Jan. 31, 1928. Class 4.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 240,924; Apr. 10; Serial No. 250,919; published Jan. 31, 1928. Class 42.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods made of silk, cotton, and wool. 240,929; Apr. 10; Serial No. 247,080; published Jan. 31, 1928. Class 42.
Halpern, J., doing business as J. Halpern Company, Pittsburgh, Pa. Firecrackers. 240,783; Apr. 10; Serial No. 259,169; published Feb. 7, 1928. Class 9.
Hap Chemical Company. (See Robinson, Carl I.)
Heintz, Merkle & Co. Inc., Philadelphia, Pa. Tonic. 240,795; Apr. 10; Serial No. 258,909; published Feb. 7, 1928. Class 6.
Heller, Arthur G., New York, N. Y. Pictures. 240,845; Apr. 10; Serial No. 254,037; published Jan. 31, 1928. Class 38.
Helm, John C. P., doing business as Helm Laboratories, New Orleans, La. Pine-oil disinfectants, cresol disinfectants, deodorants, etc. 240,729; Apr. 10; Serial No. 258,871; published Jan. 24, 1928. Class 6.
Herzfeld, Sidney Z., doing business as The Polly Cloth Co., Anniston, Ala. Unimpregnated dust cloths. 240,762; Apr. 10; Serial No. 245,909; published Jan. 17, 1928. Class 29.
Hilliard Corporation, The, Elmira, N. Y. Machine or apparatus made for the purpose of reclaiming lubricating oil. 240,935; Apr. 10; Serial No. 256,295; published Feb. 7, 1928. Class 23.
Hills Brothers Company, The, New York, N. Y. Candied citron, dried currants, raisins, etc. 240,753; Apr. 10; Serial No. 254,181; published Jan. 24, 1928. Class 46.
Hillside Cotton Mills, doing business as Valley Mills, La Grange, Ga. Rugs of textile fabric. 240,814; Apr. 10; Serial No. 258,467; published Jan. 31, 1928. Class 42.
Hirschman, J. C., Company, The, Indianapolis, Ind. Mattresses, pillows, lounges, and davenports. 68,108; renewed Mar. 10, 1928.
Holophane Company, Inc., New York, N. Y. Glass globes and reflectors. 240,807–8; Apr. 10; Serial Nos. 258,576–7; published Feb. 7, 1928. Class 33.
Holtson Manufacturing Corporation, Baltimore, Md. Gasoline and oil tank fill boxes, strainers, etc. 240,912; Apr. 10; Serial No. 226,002; published Jan. 31, 1928. Class 13.
Home Chocolate Shop. (See Warner, J. Wilbur.)
Howey, W. J., Co., Howey, Fla. Fresh citrus fruits. 240,789; Apr. 10; Serial No. 259,061; published Jan. 31, 1928. Class 46.
Hughes-Keenan Company, The, Mansfield, Ohio. Truck bodies. 240,898; Apr. 10; Serial No. 258,183; published Jan. 31, 1928. Class 19.
Hyland, Richard C., doing business as Hyland Bag Company, San Francisco, Calif. Burlap covering. 240,811; Apr. 10; Serial No. 258,525; published Jan. 31, 1928. Class 42.
Independence Produce Company, Independence, Iowa. Dressed poultry, eggs. 240,828; Apr. 10; Serial No. 257,872; published Jan. 31, 1928. Class 46.
Insto Company, The, Los Angeles, Calif. Powdered soap. 240,833; Apr. 10; Serial No. 257,679; published Jan. 17, 1928. Class 4.
Irving-Pitt Manufacturing Company, Kansas City, Mo. Binders and index sheets. 240,776; Apr. 10; Serial No. 216,837; published Oct. 13, 1927. Class 37.
Jells-Mor Products Company, Minneapolis, Minn. Gelatin dessert powder. 240,754; Apr. 10; Serial No. 254,108; published Jan. 24, 1928. Class 46.
Jenny Wren Company. (See Bowersock Mills & Power Co.)
Johnson, J. W., Company, Chicago, Ill. Shower curtains for shower baths. 240,837–9; Apr. 10; Serial Nos. 257,680–2; published Jan. 31, 1928. Class 13.
Jones-Thierbach Co., San Francisco, Calif. Soda and baking powder. 240,878; Apr. 10; Serial No. 257,478; published Jan. 31, 1928. Class 6.

Jones, William J., doing business as Tri-Mor Sausage Company, North Olmsted and Cleveland, Ohio. Sausage, lard, dried beef, etc. 68,649; renewed Apr. 21, 1928.
Justh, Rudolph C., doing business as Best-O-Best Products Co., Chicago, Ill. Nuts. 240,846; Apr. 10; Serial No. 254,241; published Jan. 31, 1928. Class 46.
K. O. Products Co., Minneapolis, Minn. Polish. 240,741; Apr. 10; Serial No. 257,419; published Jan. 24, 1928. Class 16.
Karesboom, Frank B., doing business as F. J. Bernard Company, San Francisco, Calif. Composition to prevent runs in silk or chiffon hosiery, etc. 240,749; Apr. 10; Serial No. 256,781; published Jan. 24, 1928. Class 6.
Kaufmann, Max, & Co. Inc., New York, N. Y. Cotton goods. 240,785; Apr. 10; Serial No. 259,117; published Feb. 7, 1928. Class 42.
Keller-Kohn Company, The, Cleveland, Ohio. Coats. 240,756; Apr. 10; Serial No. 250,552; published Jan. 3, 1928. Class 39.
Kerkoff. (See Smith, Alfred H., Co.)
Kettleman, Morris, doing business as Lawrence Malt Products Co., Lawrence, Mass. Hop-flavored malt sirup. 240,736; Apr. 3; Serial No. 258,031; published Jan. 24, 1928. Class 46.
Kingan and Company, Limited, Belfast, Ireland; Indianapolis, Ind.; Baltimore, Md.; and Richmond, Va., assignor to Kingan & Co. Incorporated, Indianapolis, Ind. Cured meats and sausage. 67,726; renewed Feb. 18, 1928.
Kingan and Company, Limited, Belfast, Ireland; Indianapolis, Ind.; Baltimore, Md.; Philadelphia, Pa.; and Richmond, Va., assignor to Kingan & Co. Incorporated, Indianapolis, Ind. Meats and sausage. 69,077; renewed May 19, 1928.
King Features Syndicate, Inc., New York, N. Y. Newspaper section. 240,806; Apr. 10; Serial No. 258,580; published Feb. 7, 1928. Class 38.
Klewe & Co. Inc., assignor to The Kolynos Company, New Haven, Conn. Tooth paste. 69,946; renewed July 21, 1928.
Knockout Publishing Company, The, Los Angeles, Calif. Publication. 240,835; Apr. 10; Serial No. 257,555; published Feb. 7, 1928. Class 38.
Kohloff, Paul, Mamaroneck, N. Y. Matches. 240,888; Apr. 10; Serial No. 258,084; published Jan. 31, 1928. Class 9.
Kolynos Company, The. (See Klewe & Co. Inc., assignor.)
Kriechbaum Publishing Company, St. Louis, Mo. Trade journal. 240,816; Apr. 10; Serial No. 258,415; published Jan. 24, 1928. Class 38.
La Hacienda Company, Buffalo, N. Y., to La Hacienda Company, New York, N. Y. Periodicals. 69,099; renewed May 19, 1928.
Lambert Pharmacal Company, Wilmington, Del. Cigarettes. 240,953; Apr. 10; Serial No. 258,750; published Feb. 7, 1928. Class 17.
Lasko, John, & Son, Roundbrook, N. J. Beverages and syrups, extracts, and concentrates for making the same. 240,971; Apr. 10; Serial No. 258,338; published Jan. 31, 1928. Class 45.
Lawrence Malt Products Co. (See Kettleman, Morris.)
Lentzinger & Lane, San Francisco, Calif. Honey, nuts, dried and fresh fruits. 240,805; Apr. 10; Serial No. 258,638; published Jan. 31, 1928. Class 46.
Libby, McNeill & Libby, Chicago, Ill. Canned asparagus and dried fruits. 240,895; Apr. 10; Serial No. 258,269; published Feb. 7, 1928. Class 46.
Libby, McNeill & Libby, Chicago, Ill. Canned salmon and dried fruits. 240,896; Apr. 10; Serial No. 258,270; published Feb. 7, 1928. Class 46.
Libby, McNeill & Libby, Chicago, Ill. Canned, dried, and preserved fruits and vegetables and canned salmon. 240,897; Apr. 10; Serial No. 258,271; published Feb. 7, 1928. Class 46.
Lizzadro, Sabath G., doing business as Lizzadro Retan Chemical Company, Chicago, Ill. Leather restorative, cleaner, etc. 240,859; Apr. 10; Serial No. 256,127; published Jan. 31, 1928. Class 4.
Lucido Bros. Grocery Co. Inc., Granite City, Ill. Malt syrup. 240,735; Apr. 10; Serial No. 258,087; published Jan. 24, 1928. Class 46.
Luse, Oscar P., Los Angeles, Calif. Medicine for poultry. 240,923; Apr. 10; Serial No. 251,193; published Feb. 7, 1928. Class 6.
Lyons & Kennelly Co. Inc., Chicago, Ill. Traveling bags and suitcases. 240,836; Apr. 10; Serial No. 257,687; published Jan. 31, 1928. Class 3.
Mammoth Grove, Inc., Lake Wales, Fla. Fresh citrus fruits. 240,870; Apr. 10; Serial No. 256,955; published Feb. 7, 1928. Class 46.
Manetor Thermo-Pac, Incorporated, Philadelphia, Pa. Bandages, compresses, and packs. 241,015; Apr. 10. Class 44.
Mantor, George E., San Francisco, Calif. Toilet-seat covers. 240,843; Apr. 10; Serial No. 253,762; published Feb. 7, 1928. Class 37.
Margolin, George, assignor to Stretch-O-Block Co., Inc., New York, N. Y. Hat stretching and blocking machines and hat blocks therefor. 240,940; Apr. 10; Serial No. 254,332; published Feb. 7, 1928. Class 28.
Marti, Hugh A., Company, Long Beach, Calif. Fabrics. 240,852; Apr. 10; Serial No. 255,185; published Feb. 7, 1928. Class 42.
Martinez, William V., doing business as El Cholo Food Products, Los Angeles, Calif. Canned meat with chili powder, sauces, tamales, etc. 240,760; Apr. 10; Serial No. 248,582; published Jan. 24, 1928. Class 46.
Matthews, W. N., Corporation, St. Louis, Mo. Mechanical painting equipment and accessories. 240,932; Apr. 10; Serial No. 247,195; published Feb. 7, 1928. Class 23.
Mavreline Company, The. (See Mavrelis, Peter L.)
Mavrelis, Peter L., doing business as The Mavreline Company, Waterloo, Iowa. Medicines. 240,821–2; Apr. 10; Serial Nos. 258,340–1; published Feb. 7, 1928. Class 6.
Maybric Company, Akron, Ohio. Laxative mint. 240,747; Apr. 10; Serial No. 256,828; published Jan. 24, 1928. Class 6.
Mayone, Joseph, Inc., Catskill, N. Y. Building brick. 240,987; Apr. 10. Class 12.
McAllister, John J., Milton, Oreg., to Sarah V. McAllister, Long Beach, Calif., successor. Certain medicines. 65,041; renewed Oct. 15, 1927.
McFadden Bros. & Myers, Las Animas, Colo. Fresh citrus fruits, fresh vegetables, and fresh melons. 240,855; Apr. 10; Serial No. 255,663; published Jan. 31, 1928. Class 46.
McLeod Furniture Co., Laurel, Miss. Office furniture. 240,933; Apr. 10; Serial No. 256,786; published Feb. 7, 1928. Class 32.
Mente & Co. Inc., New Orleans, La. Sugar-bag-cloth piece goods for covering bales of ginned cotton. 240,902; Apr. 10; Serial No. 242,734; published Jan. 31, 1928. Class 42.
Metal Package Corporation of New York, New York, N. Y. Metallic receptacles. 240,793; Apr. 10; Serial No. 259,010; published Feb. 7, 1928. Class 2.
Miles, Lester H., Los Angeles, Calif. Sirens, alarms, and signals. 240,978; Apr. 10; Serial No. 257,183; published Jan. 31, 1928. Class 23.
Mincarelli, Julius, Norristown, Pa. Medicinal preparation. 240,813; Apr. 10; Serial No. 258,478; published Jan. 31, 1928. Class 6.
Minton, Raymond S., doing business as Nu Fruit Products Co., Los Angeles, Calif. Fruit cake. 241,006; Apr. 10. Class 46.
Mohr, Frederick E., Hendersonville, N. C. Sugar-coated almonds. 240,914; Apr. 10; Serial No. 224,613; published Jan. 31, 1928. Class 46.
Montgomery Ward & Co. Incorporated, Chicago, Ill. Ammunition. 240,827; Apr. 10; Serial No. 257,887; published Feb. 7, 1928. Class 9.
Moore, Benjamin, & Co., Jersey City, N. J., and New York, N. Y. Mural decorations. 31,906; renewed Aug 30, 1928.
Mortemoth Co., The. (See Berkoff, Louis S.)
Mueller Brass Co., Port Huron, Mich. Metal pipe, pipe fittings, bolts, nuts, etc. 240,849; Apr. 10; Serial No. 255,020; published Jan. 31, 1928. Class 13.
Munsell, J. Guy, Lincoln, Nebr. Tablets. 240,770; Apr 10; Serial No. 236,886; published Jan. 24, 1928 Class 46.
Murdock, John W., doing business as Murdock's Poultry Supply and Remedy Co., Dinuba, Calif. Poultry tonic. 240,873; Apr. 10; Serial No. 257,185; published Feb 7, 1928. Class 6.
National Automatic Tool Company, The, Richmond, Va. Metal-drilling machines, etc. 240,949; Apr. 10; Serial No. 256,789; published Jan. 17, 1928. Class 23.
National Malleable Castings Company, The, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Railway-car castings. 69,187; renewed May 26, 1928.
National Ointment Company, Rex, Ga. Salve. 240,831; Apr. 10; Serial No. 257,760; published Jan. 31, 1928. Class 6.
National Recording Pump Company, The, Dayton, Ohio. Measuring pumps. 240,955; Apr. 10; Serial No. 258,826; published Feb. 7, 1928. Class 26.
National Spring & Wire Co., Grand Rapids, Mich. Automobile and furniture upholstery. 240,954; Apr. 10; Serial No. 258,763; published Feb. 7, 1928. Class 32.
Navle Chemical Co., San Francisco, Calif. Castor-oil emulsion. 241,000; Apr. 10. Class 6.
Nestlé and Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland, and London, England, assignor to Nestle's Food Company, Inc., New York, N. Y. Unsweetened condensed milk. 70,001; renewed July 21, 1928.
New England Spun Silk Corporation, Brighton, Boston, and Newton Upper Falls, Mass., and New York, N. Y. Yarns. 240,804; Apr. 10; Serial No. 258,646; published Feb. 7, 1928. Class 43.
New York Bottling Co. Inc., New York, N. Y. Beverages. 240,937–8; Apr. 10; Serial Nos. 255,671–2; published Feb. 7, 1928. Class 45.
Nitrox Chemical Company, St. Louis, Mo. Nitro-oxidizing agent. 68,118; renewed Mar. 10, 1928.
Noe, A., & Son, Sharpsburg, Pa. Beverages. 240,970; Apr. 10; Serial No. 258,349; published Feb. 7, 1928. Class 45.

Northern Jobbing Company, Chicago, Ill. Work clothing. 240,751; Apr. 10; Serial No. 255,675; published Jan. 17, 1928. Class 39.

Nu Fruit Products Co. (See Minton, Raymond S.)

Nugrape Company of America, Atlanta, Ga. Beverages and extracts, concentrates, and syrups for making the same. 240,934; Apr. 10; Serial No. 256,535; published Feb. 7, 1928. Class 45.

Ohio Salt Company, The, Wadsworth, Ohio. Salt. 240,820; Apr. 10; Serial No. 258,351; published Jan. 31, 1928. Class 6.

Olephen Chemical Company, The, Wamego, Kans. Liquid remedy for certain diseases. 70,401; renewed Aug. 25, 1928.

Orange Crush Bottling Co., The, Spencer, N. C. Beverages. 240,941; Apr. 10; Serial No. 254,092; published Feb. 7, 1928. Class 45.

Osborn, Samuel, & Co. Limited, as assignee of Saml. Osborn & Co., assignor to Samuel Osborn & Co. Limited. Sheffield, England. Cutlery and other hand tools having a cutting edge. 67,874; renewed Feb. 25, 1928.

Osborn, Samuel, & Co. Limited, as assignee of Saml. Osborn & Co., assignor to Samuel Osborn & Co. Limited. Sheffield, England. Steel and iron. 67,875; renewed Feb. 25, 1928.

P. V. Chemical Co., Seattle, Wash. Antiseptic. 240,803; Apr. 10; Serial No. 258,648; published Feb. 7, 1928. Class 6.

Package Binder Company, The, Pittsburgh, Pa. Transparent adhesive tape. 240,851; Apr. 10; Serial No. 255,127; published Jan. 31, 1928. Class 5.

Pan Oils Chemical Co. (See Potaris, Gregory.)

Paramount Famous Lasky Corporation, New York, N. Y. Moving pictures. 240,960; Apr. 10; Serial No. 259,070; published Feb. 7, 1928. Class 26.

Parrish Brothers, Inc., Baltimore, Md. Tapioca. 70,266; renewed Aug. 18, 1928.

Payson Manufacturing Company, The, Chicago, Ill. Transom lifters. 70,375; renewed Aug. 25, 1928.

Peerless Carbon Black Company, The, Pittsburgh, Pa. Carbon black for general use. 240,885; Apr. 10; Serial No. 257,995; published Jan. 31, 1928. Class 6.

Peplow, Geoffrey, doing business as The Peplow Company, Pasadena, Calif. Desiccated amylolytic ferment. 240,832; Apr. 10; Serial No. 257,701; published Feb. 7, 1928. Class 6.

Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Certain compresses. 67,853; renewed Feb. 25, 1928.

Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Machinery for drying, cooling, ordering, or treating tobacco. 67,854; renewed Feb. 25, 1928.

Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Certain machinery. 67,855; renewed Feb. 25, 1928.

Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Drying machinery. 69,615; renewed June 23, 1928.

Philadelphia Speedometer Service Company. (See Driver, William E.)

Pittsburgh Steel Products Company, Pittsburgh, Pa. Metal tubes. 240,871; Apr. 10; Serial No. 257,025; published Jan. 31, 1928. Class 13.

Polly Cloth Co., The. (See Herzfeld, Sidney Z.)

Potaris, Gregory, doing business as Pan Oils Chemical Co., New York, N. Y. Liquid insecticide. 240,745; Apr. 10; Serial No. 257,029; published Jan. 24, 1928. Class 6.

Prentiss, William, jr., Long Beach, Calif. Fig confections, nuts, jellies, etc. 240,904; Apr. 10; Serial No. 214,747; published Jan. 31, 1928. Class 46.

Progressive Machinery Company, The, Minneapolis, Minn. Shoe machinery. 240,976; Apr. 10; Serial No. 257,811; published Jan. 31, 1928. Class 23.

Prosperity Company Inc., The, Syracuse, N. Y. Garment and laundry pressing machines. 240,903; Apr. 10; Serial No. 242,205; published Jan. 31, 1928. Class 24.

Q--Zema Chemical Company. (See Wilkinson, J. E., jr.)

Quaker Oats Company, The, Chicago, Ill.; Cedar Rapids, Iowa; and Akron, Ohio, to The Quaker Oats Company, Chicago, Ill. Stock food for animals. 70,268; renewed Aug. 18, 1928.

Rainbow Soap Products Company, The. (See Schwartz, Roy H.)

Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston rings. 240,959; Apr. 10; Serial No. 259,074; published Feb. 7, 1928. Class 35.

Raymond Porch Shade Co., Janesville, Wis. Porch shades. 240,984; Apr. 10. Class 32.

Red Arrow Manufacturing Corporation, Seattle, Wash. Toy vehicles. 240,761; Apr. 10; Serial No. 246,122; published Jan. 24, 1928. Class 22.

Reid, Leahy and Lutts, Worcester, Mass. Forged metal chains. 240,848; Apr. 10; Serial No. 254,683; published Feb. 7, 1928. Class 13.

Reimer, Fred C., Company, Inc., New York, N. Y. Glassware. 240,784; Apr. 10; Serial No. 259,133; published Feb. 7, 1928. Class 33.

Richards Shook Corporation, Inc., The, New York, N. Y. Wooden receptacles. 240,909; Apr. 10; Serial No. 235,426; published Feb. 7, 1928. Class 2.

Ridenour, E. H., doing business as Ridenour Vineyard, Stockton and Dougherty, Calif. Fresh deciduous fruits. 240,854; Apr. 10; Serial No. 255,680; published Jan. 31, 1928. Class 46.

Ries, Jacob, to Jacob Ries Bottling Works, Inc., Shakopee, Minn., successor. Table waters. 67,402; renewed Feb. 4, 1928.

Robinson, Carl I., doing business as Hap Chemical Company, Pittsburgh, Pa. Household and institution and factory cleaners. 240,890; Apr. 10; Serial No. 258,043; published Jan. 31, 1928. Class 4.

Roseman, Aaron W., Philadelphia, Pa., to Aaron W. Roseman, West Chester, Pa. Paste for destroying rats, mice, and roaches. 67,877; renewed Feb. 25, 1928.

Rosepine Co-Operative Sweet Potato Curing Company, Inc., Rosepine, La. Sweet potatoes. 240,906; Apr. 10. Class 46.

Ross, Sydney, Co., The, Newark, N. J. Vermifuges. 240,799; Apr. 10; Serial No. 258,843; published Jan. 31, 1928. Class 6.

Rounick, Max, Inc., Philadelphia, Pa. Hosiery. 240,755; Apr. 10; Serial No. 253,664; published Oct. 11, 1927. Class 39.

Ryley-Wilson Grocer Co., Kansas City, Mo. Canned vegetables, fruits, and fish, preserved fruits, coffee, spices, etc. 240,905; Apr. 10; Serial No. 198,967; published Oct. 5, 1926. Class 46.

Sasqua Hills Beverage Company, Norwalk, Conn. Mineral water. 240,968; Apr. 10; Serial No. 258,593; published Jan. 31, 1928. Class 45.

Sattler, Hans, Sheboygan, Wis. Recorders of the vibratory type. 240,999; Apr. 10. Class 26.

Saylene Company. (See Dilger, Frank S.)

Schmidt, Charles D., New York, N. Y. Brake lining. 241,001; Apr. 10. Class 35.

Schmidt Lithograph Company, San Francisco, Calif. Fruit pads. 240,993; Apr. 10. Class 37.

Schwarz, F. A. O., to F. A. O. Schwarz, New York, N. Y. successor. Toys, dolls, and games. 31,839; renewed Aug. 2, 1928.

Schwartz, Roy H., doing business as The Rainbow Soap Products Company, Cleveland, Ohio. Canned soap for cleaning hands, household articles, etc. 240,875; Apr. 10; Serial No. 257,317; published Jan. 31, 1928. Class 4.

Scott-Kidwell Jacket Company, Madison, Ind. Shipping case. 240,830; Apr. 10; Serial No. 257,816; published Feb. 7, 1928. Class 2.

Segal Lock & Hardware Co., Inc., New York, N. Y. Locks and latches. 240,790; Apr. 10; Serial Nos. 259,020–1; published Feb. 7, 1928. Class 25.

Segal Lock & Hardware Co., Inc., New York, N. Y. Locks and latches. 240,791–2; Apr. 10; Serial Nos. 259,020–1; published Feb. 7, 1928. Class 25.

Seidner & Hitzigrath, Inc., New York, N. Y. Hair nets. 240,930; Apr. 10; Serial No. 216,997; published Jan. 31, 1928. Class 42.

Seligman, Meyer, doing business as The Beverly Malt Co., Beverly, Mass. Malt syrup. 240,819; Apr. 10; Serial No. 258,357; published Jan. 31, 1928. Class 46.

Serra Products Co. (See Tarpley, Frank C.)

Sharp & Dohme, Baltimore, Md. Inhalants put up in capsules. 69,567; renewed June 23, 1928.

Sharp & Dohme, Baltimore, Md. Medicated cotton wool. 68,676; renewed Apr. 21, 1928.

Sharp & Dohme, Baltimore, Md. Medicinal preparation. 69,738; renewed June 30, 1928.

Sharp & Dohme, Baltimore, Md.; New York, N. Y.; and Chicago, Ill., assignors to Sharp & Dohme, Baltimore, Md. Tonic alterative compound. 31,715; renewed June 21, 1928.

Shaw, A. W., Company. (See System Company, The.)

Sheet Metal Products Co., Minneapolis, Minn. Coal and oil steam and hot-water heating plants. 240,991; Apr. 10. Class 34.

Shepherd, James W., doing business as Dead-Go Manufacturing Co., Auburndale, Fla. Insecticide. 240,906; Apr. 10; Serial No. 241,641; published Jan. 31, 1928. Class 6.

Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides and fungicides. 240,802; Apr. 10; Serial No. 258,657; published Feb. 7, 1928. Class 6.

Sherwood Products Co., Inc., New York, N. Y. Laxative candy. 240,737; Apr. 10; Serial No. 257,941; published Jan. 24, 1928. Class 6.

Sierra Madre Fruit Co., Los Angeles and Casa Blanca, Calif. Fresh fruits, vegetables, cantaloupes, and grapes. 241,014; Apr. 10. Class 46.

Simmons, George W., Corporation, New York, N. Y. Brooms. 240,734; Apr. 10; Serial No. 258,298; published Jan. 17, 1928. Class 29.

Simmons, George W., Corporation, New York, N. Y. Laundry starch, chlorinated lime, and lye. 240,889; Apr. 10; Serial No. 258,296; published Jan. 31, 1928. Class 6.

Simm's Chemical Co. (See Solomon's Drug Stores and Montford Pharmacy.)

Simms, T. S., & Co., Ltd., St. John and Fairville, St. John, New Brunswick, Canada. Paintbrushes. 240,750; Apr. 10; Serial No. 256,547; published Jan. 24, 1928. Class 29.

Simplicity Engineering Company, Durand, Mich. Gravel-screening machines and conveyors. 240,943; Apr. 10; Serial No. 252,400; published Jan. 31, 1928. Class 23.

Skinner, Mariana E., sole executrix of G. M. Skinner, deceased, to G. M. Skinner, Inc., Cayton, N. Y., successor. Fluted-spoon baits. 69,003; renewed May 12, 1928.

Smith, Alfred H., Co., doing business as Kerkoff, New York, N. Y. Laundry and toilet soaps, soap jelly, soap flakes, etc. 240,893; Apr. 10; Serial No. 258,240; published Jan. 31, 1928. Class 4.

Smith, Alfred H., Co., doing business as Kerkoff, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 240,901; Apr. 10; Serial No. 258,239; published Jan. 31, 1928. Class 6.

Smith Premier Typewriter Company, The, Syracuse, and New York, N. Y. Carbon paper. 241,004; Apr. 10. Class 11.

Smith Welding Equipment Corporation, Minneapolis, Minn. Oxyacetylene welding and cutting torches, burning torches, etc. 240,926; Apr. 10; Serial No. 250,102; published Jan. 31, 1928. Class 84.

Smith Welding Equipment Corporation, Minneapolis, Minn. Valves, tank connections, water seals, etc. 240,927; Apr. 10; Serial No. 250,101; published Jan. 31, 1928. Class 13.

Société Anonyme des Etablissements Repusseau & Cie., Levallois-Perret, France. Pivotal joints or members for mechanical purposes. 240,982; Apr. 10. Class 23.

Société Anonyme des Usines Renault, Billancourt, France. Automobiles and constructive parts thereof and aeroplanes and parts thereof. 240,774; Apr. 10; Serial No. 222,961; published Aug. 9, 1927. Class 19.

Solomon's Drug Stores and Montford Pharmacy, doing business as Simm's Chemical Co., Baltimore, Md. Liniments and general tonics. 240,994; Apr. 10. Class 6.

Sparrow, Chisholm Co., Boston, Mass. Pillowcases and sheeting. 240,801; Apr. 10; Serial No. 258,658; published Feb. 7, 1928. Class 42.

Sperry, Hubert A., doing business as Sunny Jim Company, Los Angeles, Calif. Soap. 240,928; Apr. 10; Serial No. 249,302; published Jan. 31, 1928. Class 4.

Sprague, Warner & Company, Chicago, Ill. Baking powder. 31,312; renewed Feb. 22, 1928.

Sprague, Warner & Company, Chicago, Ill. Coffee and coffee substitutes. 31,316; renewed Feb. 22, 1928.

Sproul, Hugh B., doing business as Swoope Milling Company, Swoope, Va. Self-rising flour. 240,775; Apr. 10; Serial No. 221,460; published Jan. 24, 1928. Class 46.

Standard Auto Products Company. (See Swain, Fred.)

Standard Lift Company, Inc., Memphis, Tenn. Hydraulic lifting jack. 240,980; Apr. 10; Serial No. 256,890; published Jan. 31, 1928. Class 23.

Stern, Victor W., Los Angeles, Calif. Empty pastry container. 240,860; Apr. 10; Serial No. 256,548; published Jan. 31, 1928. Class 46.

Stewart Silk Company, Inc., New York, N. Y. Silk goods. 240,798; Apr. 3; Serial No. 258,887; published Feb. 7, 1928. Class 42.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Automatic windshield wipers. 240,857; Apr. 10; Serial No. 255,685; published Jan. 31, 1928. Class 19.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Warning signals. 240,939; Apr. 10; Serial No. 255,541; published Jan. 31, 1928. Class 23.

Stipe, Francis M., doing business as Stipe Chemical Co., Newton, Kans. Ointment for colds, coughs, croup, sore throat, etc. 240,765; Apr. 10; Serial No. 243,671; published Mar. 29, 1927.

Stretch-O-Block Co., Inc. (See Margolin, George.)

Stroh Products Company, The, Detroit, Mich. Malt syrup. 240,877; Apr. 10; Serial No. 257,451; published Jan. 31, 1928. Class 46.

Stubs, Peter, Limited, Warrington and Rotherham, England. Tools. 68,731–2; renewed Apr. 28, 1928.

Sturrock, Mrs. W. K., Livingston, Calif. Salad dressing. 240,922; Apr. 10; Serial No. 251,469; published Jan. 31, 1928. Class 46.

Sunflower Auto Paint & Polish Company, Los Angeles, Calif. Paint, enamel, undercoat, varnish, etc. 240,771; Apr. 10; Serial No. 235,179; published Jan. 24, 1928. Class 16.

Sunny Jim Company. (See Sperry, Hubert A.)

Swain, Fred, doing business as Standard Auto Products Company, Ohio, Ill. Compound for stopping leaks in radiators. 240,818; Apr. 10; Serial No. 258,362; published Jan. 31, 1928. Class 6.

Swank, Wm. S., doing business as Wiley Poultry Products Co., Seattle, Wash. Poultry tonic. 240,817; Apr. 10; Serial No. 258,364; published Feb. 7, 1928. Class 6.

Swedlin, J., Inc., doing business as Gund Manufacturing Co., New York, N. Y. Stuffed toys. 240,990; Apr. 10. Class 22.

Swinehart Tire and Rubber Company, The, Akron, Ohio. Automobile tires, inner tubes, etc. 240,998; Apr. 10. Class 35.

Swoope Milling Company. (See Sproul, Hugh B.)

Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 240,823–4; Apr. 10; Serial Nos. 257,942–3; published Jan. 31, 1928. Class 10.

Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 240,882–3; Apr. 10; Serial Nos. 257,944–5; published Jan. 31, 1928. Class 10.

System Company, The, assignor, by mesne assignments, to A. W. Shaw Company, Chicago, Ill. Monthly magazine. 66,775; renewed Dec. 24, 1927. Class 38.

Tarpley, Frank C., doing business as Serra Products Co., Los Angeles, Calif. Automobile top dressing. 241,009; Apr. 10. Class 4.

Taylor Brothers, Incorporated, Winston-Salem, N. C. Plug, twist, and smoking tobacco. 240,956; Apr. 10; Serial No. 258,966; published Feb. 7, 1928. Class 17.

Texa Tire & Rubber Company. (See Bering, August C., jr.)

Ticker Publishing Company, The. (See Wyckoff, Richard D.)

Tileston & Hollingsworth Company, Boston, Mass. Writing and other paper. 240,879; Apr. 10; Serial No. 257,490; published Jan. 31, 1928. Class 37.

Tokalon Chemical Corporation, New York, N. Y. Powders. 240,908; Apr. 10; Serial No. 235,983; published Feb. 7, 1928. Class 6.

Transogram Co., Inc., Brooklyn, N. Y. Toys, games, and novelties. 241,002; Apr. 10. Class 22.

Treet Safety Razor Corporation, Newark, N. J. Safety razors and blades. 240,969; Apr. 10; Serial No. 258,435; published Jan. 31, 1928. Class 23.

Tridex Equipment Co., Inc., Dallas, Tex. Machines for removing grease, dirt, paint, varnish, or any other deleterious accumulations from the surface of any article or structure. 240,973; Apr. 10; Serial No. 258,303; published Feb. 7, 1928. Class 23.

Tri-Mor Sausage Company. (See Jones, William J.)

Union Silk Mills, Inc., New York, N. Y. Silk piece goods. 240,778; Apr. 10; Serial No. 259,148; published Feb. 7, 1928. Class 42.

United Drug Company, Boston, Mass. Inhalant for relieving head colds and nasal catarrh. 240,728; Apr. 10; Serial No. 258,891; published Jan. 24, 1928. Class 6.

Universal Art Crafts, Incorporated, Reno, Nev. Paper, envelopes, and blank post cards. 240,876; Apr. 10; Serial No. 257,325; published Feb. 7, 1928. Class 37.

Universal Cooler Corporation, Detroit, Mich. Mechanical refrigerating units. 240,907; Apr. 10; Serial No. 237,635; published Jan. 31, 1928. Class 31.

Vacaville Fruit Growers Association, Vacaville, Calif. Fresh deciduous fruits and grapes. 240,758; Apr. 10; Serial No. 249,557; published Jan. 24, 1928. Class 46.

Valley Mills. (See Hillside Cotton Mills.)

Vaughan Motor Works, Inc., Portland, Oreg. Tractors. 240,975; Apr. 10; Serial No. 258,004; published Jan. 31, 1928. Class 23.

Victori, Joseph, & Co., Inc., New York, N. Y. Olive oil. 240,766; Apr. 10; Serial No. 243,465; published Jan. 24, 1928. Class 46.

Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 240,880–1; Apr. 10; Serial Nos. 257,491–2; published Feb. 7, 1928. Class 10.

Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 240,899; Apr. 10; Serial No. 258,202; published Feb. 7, 1928. Class 10.

Vulcan Last Company, The, doing business as Vulcan Golf Company, Portsmouth, Ohio. Golf clubs and golf bags. 240,732; Apr. 10; Serial No. 258,386; published Jan. 24, 1928. Class 22.

Vulcan Last Company, The, doing business as Vulcan Golf Company, Portsmouth, Ohio. Golf clubs. 240,733; Apr. 10; Serial No. 258,383; published Jan. 24, 1928. Class 22.

Ware Shoals Manufacturing Company, Ware Shoals, S. C. Cotton pillowcases, sheets, and handkerchiefs. 240,780–1; Apr. 10; Serial Nos. 259,312–13; published Feb. 7, 1928. Class 42.

Warner, J. Wilbur, doing business as Home Chocolate Shop, Frederick, Md. Chocolates and bonbons. 240,797; Apr. 10; Serial No. 258,892; published Feb. 7, 1928. Class 46.

Waterman, L. E., Company, New York, N. Y. Writing ink. 240,886–7; Apr. 10; Serial Nos. 258,153–4; published Jan. 31, 1928. Class 11.

West Coast Kalsomine Co., West Berkeley, Calif. Kalsomine in dry form. 240,985; Apr. 10. Class 16.

Western Products Co., Chicago, Ill. Toilet preparations. 240,757; Apr. 10; Serial No. 250,005; published Jan. 24, 1928. Class 6.

Wheel Corrugating Company, Wheeling, W. Va. Zinc-coated roofing. 241,005; Apr. 10. Class 12.

White, F. L., doing business as Champion Chili Company, Dallas, Tex. Canned chili con carne. 240,863; Apr. 10; Serial No. 256,847; published Feb. 7, 1928. Class 46.

Whole O'Wheat Company, Seattle, Wash. Breakfast foods. 240,777; Apr. 10; Serial No. 207,215; published Apr. 6, 1926. Class 46.

Wiley Poultry Products Co. (See Swank, Wm. S.)

Wilkinson, J. E., jr., doing business as Q--Zema Chemical Company, Prattville, Ala. Preparation for the treatment of skin diseases. 240,812; Apr. 10; Serial No. 258,510; published Jan. 31, 1928. Class 6.

Williams, J. B., Company, The, Glastonbury, Conn. After-shaving preparations. 240,746; Apr. 10; Serial No. 256,849; published Dec. 27, 1927. Class 6.

Wilson, W. F., Montell, Tex. Medicinal preparations. 240,989; Apr. 10. Class 6.

Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 240,742; Apr. 10; Serial No. 257,304; published Jan. 24, 1928. Class 22.

Wyckoff, Richard D., to The Ticker Publishing Company, New York, N. Y., successor. Magazine. 68,680; renewed Apr. 21, 1928.

Yozol Company, The, St. Mary's, Ohio. Hog-cholera preparation. 240,748; Apr. 10; Serial No. 256,802; published Jan. 24, 1928. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Benedeck, Jos. F., Glenwood Springs, Colo. Mountain Ginger Ale, Non-Alcoholic. For Ginger Ale. 33,795; Apr. 10.

Bruder Creameries, Cleveland, Ohio. Parcel Post Butter. For Butter. 33,796; Apr. 10.

Eline's Incorporated, Milwaukee, Wis. Eline's Oriental Sweets. For Candy. 33,797; Apr. 10.

Heide, Henry, Inc., New York, N. Y. Heide's Quality Candies 10—A—3. For Candy. 33,798; Apr. 10.

Heide, Henry, Inc., New York, N. Y. Heide's Quality Candies 10—B—3. For Candy. 33,799; Apr. 10.

Heide, Henry, Inc., New York, N. Y. Heide's Quality Candies 10—C—3. For Candy. 33,800; Apr. 10.

Heide, Henry, Inc., New York, N. Y. Heide's Quality Candies 10—D—3. For Candy. 33,801; Apr. 10.

Heide, Henry, Inc., New York, N. Y. Heide's Quality Candies 10—E—3. For Candy. 33,802; Apr. 10.

Heide, Henry, Inc., New York, N. Y. Heide's Quality Candies 10—F—3. For Candy. 33,803; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Quality Shoes That Fit. For Footwear. 33,804; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Paris Styles at Popular Prices. For Footwear. 33,805; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Quality Shoes. For Footwear. 33,806; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. The Right Shoes on Time. For Footwear. 33,807; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. The House of Reputation. For Boxes. 33,808; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. We Shoe the Whole Family. For Footwear. 33,809; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Renowned Shoes. For Footwear. 33,810; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Thalhimer Bros. For Footwear. 33,811; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Shoe for the Whole Family. For Footwear. 33,812; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Feminine Footwear. For Footwear. 33,813; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Block's. For Footwear. 33,814; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Sure Fit Shoes. For Footwear. 33,815; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. High Grade Shoes. For Footwear. 33,816; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Fashion Wear Footwear. For Footwear. 33,817; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Corrective Arch Built Shoes. For Footwear. 33,818; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Women's Novelty Footwear. For Footwear. 33,819; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Quality Footwear. For Footwear. 33,820; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Fashionable Footwear. For Footwear. 33,821; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. The Bon-Ton. For Footwear. 33,822; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Bowman's. For Footwear. 33,823; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Kline & Epplihimer. For Footwear. 33,824; Apr. 10.

Hoague-Sprague Corporation, Lynn, Mass. Good Shoes. For Footwear. 33,825; Apr. 10.

Hoh-Hag Mfg. Co., Niagara Falls, N. Y. Self-Action. For Hand Soap. 33,826; Apr. 10.

K V P Co. (See Kalamazoo Vegetable Parchment Co.)

Kal. Veg. Parch. Co. (See Kalamazoo Vegetable Parchment Co.)

Kalamazoo Vegetable Parchment Co., doing business as Kal. Veg. Parch. Co. and K V P Co., Kalamazoo, Mich. Dewdrop. For Bread. 33,827; Apr. 10.

Krank, A. J., Mfg. Co., St. Paul, Minn. Skin-Health. For Soap. 33,828; Apr. 10.

Lipps, Frederick W., Co. Inc., The, Baltimore, Md. Mardi-Gras. For Candy. 33,829; Apr. 10.

Mondl Manufacturing Company, Oshkosh, Wis. Peter Long Ears. For Slippers, and More Particularly Those of the Fleece-Lined Type. 33,830; Apr. 10.

Royal Importing Co., New York, N. Y. Roxy Brand. For Cheese. 33,831; Apr. 10.

Serenader's Club Ginger Ale Inc., Kansas City, Mo. Serenader's Club. For Ginger Ale. 33,832; Apr. 10.

Southern Distributing Company, East Point and Columbus, Ga. Faulkner's Special No. 20 Soluble Tallow. For Sizing Compound (for Preparation of Cotton Warp Yarns). 33,833; Apr. 10.

Sunshine Incorporated, Lynn, Mass. Sunshine Illuminators. For Electric-Light Reflectors. 33,834; Apr. 10.

Super Service Corporation, Omaha, Nebr. Super Service. For Automobile Tubes. 33,835; Apr. 10.

Wiggins Chemical Co., The, Cincinnati, Ohio. Wigg's Waterless Cleanser Wiggles the Dirt. For Waterless Soap. 33,836; Apr. 10.

Wrigley, Wm., Jr. Company, Chicago, Ill. Wrigley's Pink P. K. For Chewing Gum. 33,837; Apr. 10.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Banner Rock Products Company, Alexandria, Ind. Introducing Mr. B. T. U. For Insulating Material. 10,768; Apr. 10.

Coca-Cola Company, The, Atlanta, Ga. Pause—and Refresh Yourself. For Coca-Cola. 10,769; Apr. 10.

Coca-Cola Company, The, Atlanta, Ga. Refresh Yourself. For Coca-Cola. 10,770; Apr. 10.

Commonwealth Shoe & Leather Company, Whitman, Mass. Footsavers—Correct Shoes for Men. For Shoes. 10,771; Apr. 10.

D & C Co. Inc., The, Wilmington, Del., and Brooklyn, N. Y. We Propose—For Dessert—My-T-Fine. For Dessert Preparations. 10,772; Apr. 10.

Nox-Glare Shield Company, Greenville, S. C. Knock That Glare. For Nonglare Devices for Automobiles. 10,773; Apr. 10.

Postum Company, Incorporated, Battle Creek, Mich. Post's Bran Flakes. For Cereal Breakfast Foods. 10,774; Apr. 10.

Reidel, Herbert J., doing business as Tent-Tite Co., Milwaukee, Wis. Tent-Tite. The Guaranteed Waterproofing. For Waterproof Liquid. 10,775; Apr. 10.

Tent-Tite Co. (See Reidel, Herbert J.)

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams, Blair Corporation, Newburgh, N. Y. Pharmaceutical tablets. 261,472; Apr. 10. Class 6.

Adjustable Caster Company. (See Nalle, Charles R.)

Albany Packing Co., Inc., West Albany, N. Y. Sausage, fresh, cured, and smoked pork and beef, lard, butter, eggs, and cheese. 242,462; Apr. 10. Class 46.

Albany Packing Co., Inc., West Albany, N. Y. Sausage, pork, and beef, lard, butter, eggs, and cheese. 242,464; Apr. 10. Class 46.

Albany Packing Co., Inc., West Albany, N. Y. Fresh, cured, and smoked pork and sausage. 241,508; Apr. 10. Class 46.

Allen Electric and Equipment Company, Kalamazoo, Mich. Generator and starter testing devices, etc. 260,159; Apr. 10. Class 26.

Alligator Company, The, St. Louis, Mo. Hospital sheeting of waterproof fabric. 244,485; Apr. 10. Class 44.

Alligator Company, The, St. Louis, Mo. Sewed fabricated covers for trunks, suitcases, etc. 249,769; Apr. 10. Class 3.

All-Sol Company, Bellingham, Wash. Soldering fluxes. 261,031; Apr. 10. Class 6.

American Lead Pencil Company, New York, N. Y. Pencils. 260,789; Apr. 10. Class 37.

American Stores Company, Philadelphia, Pa. Ginger ale, root beer, and sarsaparilla. 262,013; Apr. 10. Class 45.

Amster, Joseph, New York, N. Y. Rat exterminator. 260,972; Apr. 10. Class 6.

Angelo Bros. Limited, Calcutta and Cossipore, near Calcutta, British India. Shellac, orange shellac, button lac, garnet lac. 221,997–222,000; Apr. 10. Class 1.

Arcey Company Inc., New York, N. Y. Hosiery. 261,783; Apr. 10. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Armstrong, Franklyn J., St. Paul, Minn. Survey-record pamphlet. 252,494; Apr. 10. Class 37.

Artcraft Silk Hosiery Mills, Inc., Philadelphia, Pa. Hosiery. 258,395; Apr. 10. Class 39.

Atlantic Packing Company. (See Consolidated Rendering Company.)

Babbitt, B. T., Inc., New York, N. Y. Cleaning compound for clogged drains, enamel and porcelain cleaner, etc. 260,206; Apr. 10. Class 6.

Babbitt, B. T., Inc., New York, N. Y. Boiler liquid concentrate. 260,416; Apr. 10. Class 6.

Bankers Printing Company, San Francisco, Calif. Paper for checks, drafts, etc. 255,629; Apr. 10. Class 37.

Bates, William S., doing business as Saniplate Co., Fremont, Ohio. Composition for cleaning, deodorizing, and polishing false teeth. 260,372; Apr. 10. Class 6.

Beauticraft Import Corporation, New York, N. Y. Silk hair nets. 258,787; Apr. 10. Class 42.

Bendiner & Schlesinger. (See Schlesinger, Maurice F.)

Berkeley Springs Bottling Co., Berkeley Springs, W. Va. Beverages. 262,016; Apr. 10. Class 45.

Bernau, Ludwig, doing business as L. Bernau & Co., New York, N. Y. Soap preparations. 259,203; Apr. 10. Class 4.

Bertinol Products. (See Silverman, Isidor.)

Besser, Jerry, doing business as Besser Stock-Stop Co., Milaca, Minn. Compound for spraying along the fence of a pasture or other enclosure to prevent stock from trespassing beyond the fence. 255,091; Apr. 10. Class 6.

Bigosh Eye Wash Co., Fargo, N. Dak. Lotion for eyes. 261,606; Apr. 10. Class 6.

Bloom Manufacturing Company, Inc., The, Nashua, Iowa. Toy and souvenir banks. 261,734; Apr. 10. Class 22.

Bolivar Packing Co., San Diego, Calif. Canned olives. 261,935; Apr. 10. Class 46.

Brain, Albert H., West Bromwich, England. Poultry medicines. 255,225; Apr. 10. Class 6.

Brakeley, Theresa C., Plainfield, N. J. Preparation for hay fever. 262,150; Apr. 10. Class 6.

Bright Biscuit Company, Kansas City, Mo. Cakes and crackers. 260,313; Apr. 10. Class 46.

Bulletin Co., Philadelphia, Pa. Printed booklets. 258,992; Apr. 10. Class 38.

Burgan Corporation, The, Chicago, Ill. Cotter-pin pullers, wrenches, and valve lifters. 244,602; Apr. 10. Class 23.

C. & M. Produce Company, Carrizo Springs, Tex. Fresh spinach, onions, romaine, lettuce, and strawberries. 260,872; Apr. 10. Class 46.

Carpenter & Company. (See Tabb, J. Preston.)

Champion Soap Co. Inc., New York, N. Y. Metal polish. 262,058; Apr. 10. Class 4.

Cheney Brothers, South Manchester, Conn. Textile and pile fabrics in the piece. 262,443; Apr. 10. Class 42.

Chicago Malt & Hops Company, Chicago, Ill. Malt syrup. 257,346; Apr. 10. Class 46.

Clark, Katherine A., New York, N. Y. Candy laxative. 261,666; Apr. 10. Class 6.

Clarke Manufacturing Company, Inc., New Haven, Conn. Inflatable boats. 260,937; Apr. 10. Class 19.

Clauss Sheer Company. (See O'Brien, Frank M.)

Clayton & Lambert Mfg. Co., Detroit, Mich. Liquid-fuel-burning fire pots. 260,801; Apr. 10. Class 34.

Clinical Laboratories Company, The, Cleveland, Ohio. Germicide and antiseptic. 242,280; Apr. 10. Class 6.

Colonial Pen Company, The. (See National Novelty Company.)

Colorado Milling & Elevator Co., The, Denver, Colo. Flour and corn meal. 261,487; Apr. 10. Class 46.

Consolidated Machine Tool Corporation of America, Rochester, N. Y. Quick-change drill chucks, self-opening die heads, etc. 261,701; Apr. 10. Class 23.

Consolidated Rendering Company, doing business as Atlantic Packing Company, Boston, Mass. Heavy chemicals. 260,804; Apr. 10. Class 6.

Cordero, E. P., & Co., New York, N. Y. Cigars. 261,865; Apr. 10. Class 17.

Cork Manufacturing Co. Ltd., London, England. Washers, gaskets, and jointings. 259,354; Apr. 10. Class 35.

Coryell, Ernest R., doing business as Radient Manufacturing Company, Richmond, Calif. Vegetable compound salves. 257,664; Apr. 10. Class 6.

Cotter, R. E., Company, San Francisco, Calif. Canned and dried fruits. 261,945; Apr. 10. Class 46.

Cotton Fabric Co., The. (See Hubbard, Joseph A.)

Crabb, Roy W. H., Battle Creek, Mich. Candy. 260,719; Apr. 10. Class 46.

Crane's Products. (See Foley, Harry B.)

Crescent Panel Company, Inc., The, Louisville, Ky. Panels and tops constructed of wood. 260,809; Apr. 10. Class 12.

Crofut & Knapp Co., The, South Norwalk, Conn. Caps and hats. 261,702; Apr. 10. Class 39.

Dairy Drink Company, Chicago, Ill. Chocolate-milk drinks. 242,573; Apr. 10. Class 46.

Daisy Doughnut Shop, New York, N. Y. Doughnuts. 257,921; Apr. 10. Class 46.

Dan-Dee Metal Products Corporation, New York, N. Y. Removable louver window ventilators. 257,731; Apr. 10. Class 34.

Davies-Young Soap Company, The, Dayton, Ohio. Carpet and rug soap. 261,557; Apr. 10. Class 4.

Dexdale Hosiery Mills, Lansdale, Pa. Hosiery. 261,705; Apr. 10. Class 39.

Dillon, Irvin F., doing business as Dillon Chemical Co., Somerset, Pa. Cleaning compound for use in the toilet and bath. 261,558; Apr. 10. Class 4.

Dobson-Cannon Co., Nashville, Tenn. Canned fruits and vegetables, breakfast cereals, dried fruits, pork and beans, vinegar, sauerkraut. 225,256; Apr. 10. Class 46.

Duncan Oil Company, The, Youngstown, Ohio. Storage batteries. 261,426; Apr. 10. Class 21.

Duquesne Steel Foundry Company, Pittsburgh, Pa. Rolling-mill rolls. 261,612; Apr. 10. Class 23.

Eaton, Crane & Pike Company, Pittsfield, Mass. Writing paper and envelopes. 262,069; Apr. 10. Class 37.

Egyptian Red Lentil Co., New York, N. Y. Dried lentil beans. 257,056; Apr. 10. Class 46.

Engel, Jos., Co., New York, N. Y. Ladies' coats, suits, and dresses. 261,308; Apr. 10. Class 39.

Endicott Johnson Corporation, Endicott, N. Y. Tennis and athletic shoes. 261,427; Apr. 10. Class 39.

Epidoli, Limited, Kilmarnock, Scotland. Ointment for the treatment of burns, scalds, and wounds. 257,922; Apr. 10. Class 6.

Etablissements André Gillier, Troyes, France. Knitted piece goods. 261,615; Apr. 10. Class 42.

Excelsior Supply Company. (See Mulherin, William F.)

Fashion Park Incorporated, Rochester, N. Y. Men's coats, vests, pants, and overcoats. 260,439; Apr. 10. Class 39.

Faultless Caster Company, Evansville, Ind. Caster wheels. 261,617; Apr. 10. Class 13.

Fifth Avenue Modes Inc., New York, N. Y. Dresses. 261,707; Apr. 10. Class 39.

Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 244,763–4; Apr. 10. Class 46.

Foley, Harry B., doing business as Crane's Products, Chicago, Ill. Laundry bluing, tints, and dyes. 262,453; Apr. 10. Class 6.

Folly Town Company, The, Chicago, Ill. Candy. 243,260; Apr. 10. Class 46.

Fredriksstad Preserving Co., Fredriksstad, Norway. Canned fish. 215,626–7; Apr. 10. Class 46.

French, Shriner & Urner, Boston, Mass. Boots and shoes. 261,562; Apr. 10. Class 39.

Frost, O. H., San Diego, Calif. Hairdressing and dandruff destroyer. 262,354; Apr. 10. Class 6.

Fulton, E. E., Co., Chicago, Ill. Motion-picture-theatre equipment. 261,310; Apr. 10. Class 23.

Gall & Lembke, Inc., New York, N. Y. Spectacles. 261,503; Apr. 10. Class 26.

Garretson, William E., doing business as Ikura Remedy Company, Portland, Oreg. Eye lotion. 256,185; Apr. 10. Class 6.

General Industries Company, The, Elyria, Ohio. Molded articles of plastic composition. 250,408; Apr. 10. Class 13.

Gilbert, William L., Clock Company, Winsted, Conn. Clocks. 261,187; Apr. 10. Class 27.

Gill, James G., Company, Inc., The, Norfolk, Va. Coffee and tea, rice, and spice. 261,566; Apr. 10. Class 46.

Gladys Cloak & Suit Co., Inc., New York, N. Y. Coats, cloaks, suits, etc. 261,253; Apr. 10. Class 39.

Glass Sales Agency, Inc., Oakland, Calif. Toilet paper. 258,811; Apr. 10. Class 37.

Glen Saint Mary Nurseries Company, Glen Saint Mary, Fla. Orange and grapefruit trees, shrubs and shade trees, roses, etc. 253,239; Apr. 10. Class 1.

Glessner Company, The, Findlay, Ohio. Shaving soap in cream form. 260,820; Apr. 10. Class 4.

Glorioso, Angelo, New Orleans, La. Tomato paste. 261,623; Apr. 10. Class 46.

Gold Bond Gum and Machine Co., The, Newark, N. J. Vending machines. 242,428; Apr. 10. Class 23.

Goldberg, Bertram, Inc., Johnstown, N. Y. Weighted piece goods. 257,358; Apr. 10. Class 42.

Grether, Paul W., doing business as St. Louis Medicine Supply Co., St. Louis, Mo. Medicinal tablet for the treatment of colds, neuralgia, etc. 260,113; Apr. 10. Class 6.

Grumbacher, M., New York, N. Y. Artists' paints. 254,911; Apr. 10. Class 16.

H-S Company, Youngstown, Ohio. Shock absorbers. 248,545; Apr. 10. Class 19.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods made of silk, cotton, and wool. 262,637; Apr. 10. Class 42.

Halpern, Danda, Co. Inc., New York, N. Y. Card-table cover of textile material. 240,068; Apr. 10. Class 42.

Halpern, Herman, doing business as Standard Drug Co., Newark, N. J. Internal cleanser and lubricant. 246,026; Apr. 10. Class 6.

Hanes Hosiery Mills Company, Winston-Salem, N. C. Hosiery. 261,710; Apr. 10. Class 39.

Hansen, William A., Chicago, Ill. Natural flowers. 258,907; Apr. 10. Class 1.

Happy Feed Mills, Inc., Memphis, Tenn. Disinfectant and wood preservative. 261,811; Apr. 10. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Harrower Laboratory, Inc., The, Glendale, Calif. Substance. 261,255; Apr. 10. Class 6.
Ha-Su-Ma Laboratories, Inc. (See Merke, Alois, assignor.)
Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned crushed pineapple. 261,960; Apr. 10. Class 46.
Hearty, E. W. J., Inc., New York, N. Y. Fresh apples. 259,003; Apr. 10. Class 46.
Hermès, Emile M., Paris, France. Toilet sets, etc. 232,270; Apr. 10. Class 40.
Hershey Chocolate Company, Hershey, Pa. Chocolate compound. 250,123; Apr. 10. Class 46.
Higginsville Milling Company, The, Higginsville, Mo. Wheat flour. 261,509; Apr. 10. Class 46.
Hirschy Company, Duluth, Minn. Power unit. 261,058; Apr. 10. Class 23.
Hoffmann-Hayman Coffee Co., San Antonio, Tex. Compound of coffee, cereal, and chicory. 261,671; Apr. 10. Class 46.
Home Makers Educational Service. (See Wadsworth, Gerald B.)
Hood Rubber Company, Watertown, Mass. Rubber heels. 261,572; Apr. 10. Class 39.
Hubbard, Joseph A., doing business as The Cotton Fabric Co., New York, N. Y. Toweling and terry fabics, etc. 259,115; Apr. 10. Class 42.
Hunt, Robert W., Company, Chicago, Ill. Car and locomotive axles. 261,364; Apr. 10. Class 19.
Ikura Remedy Company. (See Garretson, William E.)
Imperial Malt Company. (See Maggio, Alex J.)
Irving-Dougherty Company, Seattle, Wash. Red-cedar shingles and lumber. 259,853; Apr. 10. Class 12.
Island Belle Grape Growers' Union, Grapeview, Wash. Fresh grapes. 236,087; Apr. 10. Class 46.
Jaciel Perfumers, Inc., New York, N. Y. Toilet and bath soap and shaving cream. 261,510; Apr. 10. Class 4.
Jaciel Perfumers, Inc., New York, N. Y. Toilet and bath soap and shaving cream. 261,756; Apr. 10. Class 4.
Jacobs, Louis N., New York, N. Y. Wedding rings. 261,513; Apr. 10. Class 28.
Jay Lafayette Sons, The. (See Matthieu, Joseph L.)
Kallish, Louis, New York, N. Y. Dresses. 260,504; Apr. 10. Class 39.
Keystone Leather Co., Philadelphia, Pa. Leather. 60,687; Apr. 10. Class 1.
King, F. W., Optical Company, The, Cleveland, Ohio. Spectacles and lenses for spectacles. 246,290; Apr. 10. Class 26.
Kleinert, I. B., Rubber Company, New York, N. Y. Fly swatters. 261,064; Apr. 10. Class 50.
Kops Bros. Inc., New York, N. Y. Corsets, brassières, and girdles. 261,010; Apr. 10. Class 39.
Kozak. (See Walker, Edward C.)
Lake, Norman H., Boston, Mass. Hose protectors. 260,635; Apr. 10. Class 39.
Lazow, Mendel, New York, N. Y. Chemically-prepared hair-faced skins of lambs, ponies, etc. 258,754; Apr. 10. Class 1.
Lehne, John C., doing business as John C. Lehne Sales Co., New York, N. Y. Game. 259,246; Apr. 10. Class 22.
Lilley Co., The, Columbus, Ohio. Suitcases, traveling bags, hatboxes, etc. 243,497–8; Apr. 10. Class 3.
Lilly, Eli, and Company, Indianapolis, Ind. Medicine or pharmaceutical preparation. 262,230; Apr. 10. Class 6.
Lilson, Edward, Brooklyn, N. Y. Hats, coats, suits, dresses. 256,190; Apr. 10. Class 39.
Lobel, Benjamin, doing business as Lo-Bel Middy Company, New York, N. Y. Suits and blouses, etc. 261,887; Apr. 10. Class 39.
Lo-Bel Middy Company. (See Lobel, Benjamin.)
Lovsted, Carl M., doing business as C. M. Lovsted & Co., Seattle, Wash. Iron castings. 258,420; Apr. 10. Class 14.
Lummis & Company, Philadelphia, Pa. Peanut candy, salted peanuts, peanuts, etc. 260,741; Apr. 10. Class 46.
Lunkenheimer Company, The, Cincinnati, Ohio. Metal gate valves. 258,088; Apr. 10. Class 13.
Lyon & Lyon, Chicago, Ill. Chemical preparations. 262,317; Apr. 10. Class 6.
M-W Bradermann Co., Inc., New York, N. Y. Negotiable bonds. 256,712; Apr. 10. Class 38.
Mack-Elliott Paper Company, St. Louis, Mo. Writing papers. 257,133; Apr. 10. Class 37.
Maggio, Alex J., doing business as Imperial Malt Company, Chicago, Ill. Hops. 260,453; Apr. 10. Class 1.
Malouf, Margaret, Brooklyn, N. Y. Combined sanitary napkin and belt. 262,104; Apr. 10. Class 44.
Mark Jewelry Co., The, New York, N. Y. Finger rings. 261,370; Apr. 10. Class 28.
Matthieu, Joseph L., doing business as The Jay Lafayette Sons, Detroit, Mich. Preparation for colds, etc. 261,013; Apr. 10. Class 6.
Matusek, Victor, doing business as Pure and Tasty Food Products, Chicago, Ill. Canned goulash. 255,759; Apr. 10. Class 46.
McAllister, Otis, & Co., San Francisco, Calif. Lumber, boards, and scantlings. 253,508; Apr. 10. Class 12.
McDermont & Wall, Riverside, Calif. Fresh citrus fruits. 260,283; Apr. 10. Class 46.
McElroy, F. T., doing business as F. T. McElroy Company, Watsonville, Calif. Fresh lettuce. 254,465; Apr. 10. Class 46.
McEwen, Irving, Omaha, Nebr. Seed-corn disinfectant. 262,240; Apr. 10. Class 6.
McGreevey, Werring & Howell, Inc., New York, N. Y. Sheets, pillowcases, sheeting, etc. 262,320; Apr. 10. Class 42.
Menke, Kaufmann & Co., Inc., New York, N. Y. Silk in the piece. 261,826; Apr. 10. Class 42.
Mentrup, C. J., Company, Inc., New York, N. Y. Textile carpets and rugs. 259,636; Apr. 10. Class 42.
Mergott, J. E., Company, Newark, N. J. Metal desk boxes and match boxes. 261,898; Apr. 10. Class 2.
Mergott, J. E., Company, Newark, N. J. Locks for brief cases and small leather goods. 261,899; Apr. 10. Class 25.
Mergott, J. E., Company, Newark, N. J. Thermometers. 261,901; Apr. 10. Class 26.
Merke, Alois, doing business as Ha-Su-Ma Laboratory, assignor to Ha-Su-Ma Laboratories, Inc., Chicago, Ill. Hair lotions, tonics, shampoo, and dandruff preparations. 259,742; Apr. 10. Class 6.
Midwest Piping & Supply Company, St. Louis, Mo. Metal pipes, metal pipe connections and fittings, and pipe joints. 244,082; Apr. 10. Class 13.
Millang Viola Co., Long Island City, N. Y. Polishing compound. 260,305; Apr. 10. Class 4.
Miller, Charles N., Co., Boston, Mass. Candy. 261,201; Apr. 10. Class 46.
Miller, Harry B., doing business as The H. B. Miller Agency, Toppenish, Wash. Potatoes. 259,743; Apr. 10. Class 46.
Miller, I. and Sons, Incorporated, Long Island City, N. Y. Women's and girls' hosiery. 248,781; Apr. 10. Class 39.
Model Mills Company, Philadelphia, Pa. Wool Wilton carpets and rugs. 262,674; Apr. 10. Class 42.
Mountain City Mill Co., Inc., Chattanooga, Tenn. Self-rising flour. 258,189; Apr. 10. Class 46.
Mulherin, William F., doing business as Excelsior Supply Company, Syracuse, N. Y. Malt extract. 261,325; Apr. 10. Class 46.
Nalle, Charles R., doing business as Adjustable Caster Company, Philadelphia, Pa. Casters and glides. 261,203; Apr. 10. Class 13.
National Bellas Hess Co., Inc., New York, N. Y. Linen piece goods, sheets, and pillowcases. 253,629; Apr. 10. Class 42.
National Novelty Company, doing business as The Colonial Pen Company, Minneapolis, Minn. Fountain pens and pencils. 258,533; Apr. 10. Class 37.
Newport Rolling Mill Co., The, Newport, Ky. Corrugated metal sheets and plain metal sheets of iron and steel. 260,841; Apr. 10. Class 14.
Nolan, M. J., Inc., New York, N. Y. Textile fabrics. 261,520; Apr. 10. Class 42.
Novelty Cutlery Company, The, Canton, Ohio. Knives. 261,717; Apr. 10. Class 23.
O'Brien, Frank M., doing business as Clauss Sheer Company, Greensboro, N. C. Shears, scissors, razors, etc. 248,013; Apr. 10. Class 23.
O'Connell, T. P., Los Angeles, Calif. Aluminum pots, pans, and kettles. 260,954; Apr. 10. Class 13.
O'Kay Products Corporation, Detroit, Mich. Top dressings and nickle, silver, brass, and copper polish. 259,370; Apr. 10. Class 4.
O'Neil Duro Company, Milwaukee, Wis. Liquid top dressings and finishes for leather or imitation leather. 259,288; Apr. 10. Class 4.
Osterweis, Rose, doing business as Lewis Osterweis & Sons, New Haven, Conn. Cigars. 257,436; Apr. 10. Class 17.
Palmolive-Peet Company, The, Chicago, Ill. Saponaceous shaving cream. 253,907; Apr. 10. Class 4.
Paraffine Companies, Inc., The, San Francisco, Calif. Paints, varnishes, paint enamels, and lacquers. 255,604; Apr. 10. Class 16.
Parker Pen Company, The, Janesville, Wis. Mechanical pencils. 243,661; Apr. 10. Class 37.
Parker Pen Company, The, Janesville, Wis. Fountain pens and mechanical pencils. 243,662–3; Apr. 10. Class 37.
Parkley Shirt Co., Inc., New York, N. Y., and Branford, Conn. Men's shirts. 256,371; Apr. 10. Class 39.
Pawnee Indian Medicine Company. (See Varnell, Charles.)
Peerless Carbon Black Company, The, Pittsburgh, Pa. Carbon black. 257,993; Apr. 10. Class 6.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Soap and silver polish. 261,029; Apr. 10. Class 4.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Overalls. 261,983; Apr. 10. Class 39.
Penniman Gravel and Material Company, Dallas, Tex. Building blocks and tiles. 259,016; Apr. 10. Class 12.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Pennsylvania Bottling & Supply Corp., Philadelphia, Pa. Filtered, lithiated, and carbonated water and nonalcoholic beverages. 260,748; Apr. 10. Class 45.
Pennsylvania Canning Co., New Freedom, Pa. Canned vegetables. 258,955; Apr. 10. Class 46.
Petzold, Adolf, Leipzig-Schonau, Germany. Furs. 258,039; Apr. 10. Class 1.
Phoenix Brass Foundry, Irvington, N. J. Standard brass pipe fittings for plumbing. 261,205; Apr. 10. Class 13.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 245,222; Apr. 10. Class 46.
Pinaud, Incorporated, New York, N. Y. Soaps. 240,001; Apr. 10. Class 4.
Pokress, Louis N., Los Angeles, Calif. Ladies' hats. 261,142; Apr. 10. Class 39.
Poston, Emmett V., Springfield, Ill. Brick. 261,208–9; Apr. 10. Class 12.
Prairie Flour Mill Company, Lewiston, Idaho. Wheat flour. 261,682; Apr. 10. Class 46.
Preston, Frank W., Butler, Pa. Tire chains. 261,083; Apr. 10. Class 13.
Price Inside Operated Awning Corporation, Buffalo, N. Y. Awning adjusters with position securing and holding device. 259,782; Apr. 10. Class 13.
Prior & Somerville, New York, N. Y. Medicinal preparations. 262,119; Apr. 10. Class 6.
Pro-phy-lac-tic Brush Company, Northampton, Mass. Toothbrushes. 260,464; Apr. 10. Class 29.
Pure and Tasty Food Products. (See Matusek, Victor.)
Radient Manufacturing Company. (See Coryell, Ernest R.)
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat flour. 243,112; Apr. 10. Class 46.
Richardson, John E., Hollywood, Calif. Magazine published monthly. 257,254; Apr. 10. Class 38.
Riddle & Cloward, Boise, Idaho. Preparation adapted to be rubbed upon a ewe to induce her to suckle a lamb which is not her own. 261,684; Apr. 10. Class 6.
Ringer-Worcester Company, Worcester, Mass. Display and tool boxes of metal. 261,838; Apr. 10. Class 2.
Riverside Manufacturing Co., St. Louis, Mo. Soaps and soap spot and stain removing and cleaning compounds. 259,588; Apr. 10. Class 4.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Cocoa. 260,961; Apr. 10. Class 46.
Roth, John, Chicago, Ill. Pile remedy. 254,054; Apr. 10. Class 6.
Rub-Er-Jel Products, Inc., Needham, Mass. Automobile tire-repair kits and self-vulcanizing blow-out patches. 261,840; Apr. 10. Class 35.
St. Louis Medicine Supply Co. (See Grether, Paul W.)
Saniplate Co. (See Bates, William S.)
Savage, Llewellyn T., Boston, Mass. Brackets for outboard motors. 261,148; Apr. 10. Class 23.
Sawyer, Richie R., doing business as Sawyer Grain Company, San Francisco, Calif. Poultry and livestock food. 247,214; Apr. 10. Class 46.
Schlesinger, Maurice F., doing business as Bendiner & Schlesinger, New York, N. Y. Antiseptic. 260,754; Apr. 10. Class 6.
Schmitt, William S., doing business as Schmitt's Bakery, Kenosha, Wis. Bread. 256,310; Apr. 10. Class 46.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Lubricating and soothing ointment. 262,334; Apr. 10. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Canvas belting for farm use. 261,774; Apr. 10. Class 35.
Seidel, Ad., & Sons, Chicago, Ill. Compound containing flavoring and other ingredients ready mixed for making puddings, etc. 261,022; Apr. 10. Class 46.
Selby Shoe Company, The, Portsmouth, Ohio. Shoes. 226,690; Apr. 10. Class 39.
Senack Shoe Company, St. Louis, Mo. Shoes. 261,654; Apr. 10. Class 39.
Shaw, James M., & Company, New York, N. Y. Plates, fruit saucers, sauce boats, etc. 259,651; Apr. 10. Class 30.
Shenandoah Milling Company, Inc., Shenandoah, Va. Wheat flour. 261,220; Apr. 10. Class 46.
Shirek & Hirsch, New York, N. Y. Coats, vests, trousers, etc. 260,535; Apr. 10. Class 39.
Silverman, Isidor, doing business as Bertinol Products, Daytona Beach, Fla. Healing ointment. 262,268; Apr. 10. Class 6.
Sizer, Richard, Limited, Wilmington, Hull, England. Machines for manufacturing cattle cake. 240,374; Apr. 10. Class 23.
Smith, Azalia, M. D., Omaha, Nebr. Lung medicine. 261,990; Apr. 10. Class 6.
Smith, J. Allen, & Co., Knoxville, Tenn. Wheat flour. 259,599; Apr. 10. Class 46.
Snyder, Silas E., Los Angeles, Calif. Series of cartoons of drawings. 258,541; Apr. 10. Class 38.
Sowers Manufacturing Company, Buffalo, N. Y. Soap-making machinery. 259,221; Apr. 10. Class 23.
Spinnfaser Aktiengesellschaft, Elsterberg, Germany. Threads and yarns made from artificial silk. 256,226; Apr. 10. Class 43.
Splinterless Glass Company Limited, The, Teddington, England. Glazing for portholes and locomotive lights. 248,734; Apr. 10. Class 33.
Stanard-Tilton Milling Co., St. Louis, Mo., Alton, Ill., and Dallas, Tex. Stock and poultry food. 254,014; Apr. 10. Class 46.
Standard Drug Co. (See Halpern, Herman.)
Stanley, Wm. H., Inc., New York, N. Y. Canned fish. 261,992; Apr. 10. Class 46.
Stern Brothers, New York, N. Y. Gloves. 259,655; Apr. 10. Class 39.
Stevens, Chas. A., & Bros., Chicago, Ill. Empty paper cigarette boxes and cases, wash baskets, collar cases, ice buckets, etc. 251,583; Apr. 10. Class 2.
Stover-Gibbs & Winsel, Los Angeles, Calif. Insecticides. 261,401; Apr. 10. Class 6.
Strause Gas Iron Co., Philadelphia, Pa. Burner protectors for gas ranges. 261,223; Apr. 10. Class 34.
Stroh Products Company, The, Detroit, Mich. Malt syrup. 257,448; Apr. 10. Class 46.
Style-Rite Dress Company, The, Cleveland, Ohio. Dresses. 256,749; Apr. 10. Class 39.
Swope Bros., Johnstown, Pa. Self-rising pancake flour. 254,945; Apr. 10. Class 46.
Tabb, J. Preston, doing business as Carpenter & Company, Louisville, Ky. Preparation for treatment of the hair. 260,247; Apr. 10. Class 6.
Ticker Publishing Company, The, New York, N. Y. Printed publications. 259,930; Apr. 10. Class 38.
Ungar, Alexander, Inc., Brooklyn, N. Y. Lumber. 260,701; Apr. 10. Class 12.
Union Card & Paper Co., New York, N. Y. Paper and bristol board. 258,776; Apr. 10. Class 37.
United Drug Company, Boston, Mass. Emulsion of mineral oil. 262,190; Apr. 10. Class 6.
Utah Canning Co., The, Ogden, Utah. Canned vegetables. 262,135; Apr. 10. Class 46.
Vanity Fair Silk Mills, Reading, Pa. Garments for women, men's, and children's underwear. 260,364; Apr. 10. Class 39.
Varnell, Charles, doing business as Pawnee Indian Medicine Company, Columbus, Ohio, and Granite City, Ill. General tonic. 262,002; Apr. 10. Class 6.
Versluis, Lewis W., Kalamazoo, Mich. Fresh celery. 261,410; Apr. 10. Class 46.
Vulcan Match Co., Inc., New York, N. Y. Matches. 262,195; Apr. 10. Class 9.
Wadsworth, Gerald B., doing business as Home Makers Educational Service, Freeport, N. Y. Cocoa, bread and pastry flour, canned fish, etc. 248,942; Apr. 10. Class 46.
Wadsworth, Gerald B., doing business as Home Makers Educational Service, Freeport, N. Y. Cocoa, bread and pastry flour, canned fish, etc. 248,980; Apr. 10. Class 46.
Wagner & Wurtzel, Inc., Perth Amboy, N. J. Eggs. 259,189; Apr. 10. Class 46.
Walker, Edward C., doing business as Kozak, Batavia, N. Y. Chemically-treated cloths for cleaning lacquered and enameled finishes. 261,849; Apr. 10. Class 4.
Walker Goulard Plehn Company, Inc., New York, N. Y. Paper and mailing envelopes. 261,540; Apr. 10. Class 37.
Ward-Owsley Co., Aberdeen, S. Dak. Candy. 252,870; Apr. 10. Class 46.
Waters, Joseph A., doing business as J. A. Waters & Company, Providence, R. I. Antirust solution. 261,780; Apr. 10. Class 6.
Western Foundry & Furnace Co., Tacoma, Wash. Heating furnaces. 241,756; Apr. 10. Class 34.
Wieland, A. Robert, Auerbach, near Chemnitz, Germany. Hosiery, corsets, neckties, etc. 255,149; Apr. 10. Class 39.
Williams, R. C., & Co., Inc., New York, N. Y. Fruits and vegetables. 261,853; Apr. 10. Class 46.
Wilson & Co., Inc., Chicago, Ill. Hydrostearoleine. 259,036; Apr. 10. Class 46.
Wilson & Co., Chicago, Ill. Oleomargarine. 262,341; Apr. 10. Class 46.
Woodville Lime Products Co., The, Toledo, Ohio. Lime. 236,973; Apr. 10. Class 12.
Woolwine Metal Products Company, Los Angeles, Calif. Canteens. 260,665; Apr. 10. Class 2.
Yawman and Erbe Mfg. Co., Rochester, N. Y. Ledger card trays of sheet metal. 261,414; Apr. 10. Class 32.
Yellin, J. & M., New York, N. Y. Dresses. 261,854; Apr. 10. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 235,364; Apr. 10. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 235,366; Apr. 10. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 235,443; Apr. 10. Class 39.
Young-Quinlan Company, The, Minneapolis, Minn. Coats, wraps, capes, etc. 235,768; Apr. 10. Class 39.
Zesinger, William R., South Bend, Ind. Watch and clock balance wheels. 261,156; Apr. 10. Class 27.
Zimmerman, Regine, Maplewood, N. J. Canned, preserved, and pickled fruits, vegetables, etc. 257,721; Apr. 10. Class 46.
Zodac, Peter, Peekskill, N. Y. Magazine. 260,706; Apr. 10. Class 38.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Campbell Coal Company. 240,763; Apr. 10; Serial No. 244,541; published Jan. 3, 1928.

CLASS 2.

Case, Shipping. Scott-Kidwell Jacket Company. 240,830; Apr. 10; Serial No. 257,816; published Feb. 7, 1928.
Receptacle, Metallic. Metal Package Corporation of New York. 240,793; Apr. 10; Serial No. 259,010; published Feb. 7, 1928.
Receptacles, Wooden. Richards Shook Corporation. 240,909; Apr. 10; Serial No. 235,426; published Feb. 7, 1928.

CLASS 3.

Bags and suitcases, Traveling. Lyons & Kennelly Co. Inc. 240,836; Apr. 10; Serial No. 257,087; published Jan. 31, 1928.

CLASS 4.

Cleaner. Absorene Manufacturing Company. 240,892; Apr. 10; Serial No. 258,011; published Feb. 7, 1928.
Cleaners, Household and institution and factory. C. I. Robinson. 240,890; Apr. 10; Serial No. 258,043; published Jan. 31, 1928.
Detergent composition resembling soap. H and H Cleaner Company. 240,841; Apr. 10; Serial No. 257,625; published Jan. 31, 1928.
Dressing, Automobile top. F. C. Tarpley. 241,009; Apr. 10.
Leather restorative, cleaner, etc. S. G. Lizzadro. 240,859; Apr. 10; Serial No. 256,127; published Jan. 31, 1928.
Preparation in liquid form for cleaning glass, etc. Gold Dust Corporation. 240,844; Apr. 10; Serial No. 253,940; published Feb. 7, 1928.
Soap. Insto Company. 240,833; Apr. 10; Serial No. 257,679; published Jan. 17, 1928.
Soap. H. A. Sperry. 240,928; Apr. 10; Serial No. 249,302; published Jan. 31, 1928.
Soap for cleaning hands, etc., Canned. R. H. Schwartz. 240,875 Apr. 10; Serial No. 257,317; published Jan. 31, 1928.
Soaps, soap flakes, metal polishes, etc. Alfred H. Smith Co. 240,893; Apr. 10; Serial No. 258,240; published Jan. 31, 1928.

CLASS 5.

Adhesive tape, Transparent. Package Binder Company. 240,851; Apr. 10; Serial No. 255,127; published Jan. 31, 1928.

CLASS 6.

Antiseptic. P. V. Chemical Co. 240,803; Apr. 10; Serial No. 258,648; published Feb. 7, 1928.
Antiseptic and germicide. Acme Chemical Company. 240,788; Apr. 10; Serial No. 259,092; published Feb. 7, 1928.
Antiseptics. F. S. Dilger. 240,884; Apr. 10; Serial No. 257,970; published Jan. 31, 1928.
Astringents, astringent cerates, etc. Alfred H. Smith Co. 240,901; Apr. 10; Serial No. 258,239; published Jan. 31, 1928.
Baking powder. Sprague, Warner & Company. 31,312; renewed Feb. 22, 1928.
Carbon black, etc. Peerless Carbon Black Company. 240,885; Apr. 10; Serial No. 257,995; published Jan. 31, 1928.
Chemical, Liquid. American Chemical Paint Company. 240,809; Apr. 10; Serial No. 258,562; published Jan. 31, 1928.
Composition to prevent runs in silk, etc. F. B. Karseboom. 240,749; Apr. 10; Serial No. 256,781; published Jan. 24, 1928.
Compound for stopping leaks in radiators. F. Swain. 240,818; Apr. 10; Serial No. 258,362; published Jan. 31, 1928.
Cream of tartar, oxalic acid, etc. W. A. Greenberg. 240,858; Apr. 10; Serial No. 255,847; published Feb. 7, 1928.
Disinfectants, deodorants, etc. J. C. P. Helm. 240,729; Apr. 10; Serial No. 258,871; published Jan. 24, 1928.
Extract of malt and hops. Anheuser-Busch Brewing Association. 69,002; renewed May 19, 1928.
Ferment, Desiccated amylolytic. G. Peplow. 240,832; Apr. 10; Serial No. 257,701; published Feb. 7, 1928.
Glycerin substitute. H. Bennett. 240,743; Apr. 10; Serial No. 257,272 published Jan. 24, 1928.
Hair dressing and tonic. J. S. Cutrona. 240,995; Apr. 10.
Hepatic stimulant. First Texas Chemical Manufacturing Co. 240,731; Apr. 10; Serial No. 258,862; published Jan. 24, 1928.
Hypnotic and sedative. First Texas Chemical Manufacturing Co. 240,730; Apr. 10; Serial No. 258,864; published Jan. 24, 1928.
Inhalant. United Drug Company. 240,728; Apr. 10; Serial No. 258,891; published Jan. 24, 1928.
Inhalants put up in capsules. Sharp & Dohme. 69,567; renewed June 23, 1928.

Insecticide. J. W. Shepherd. 240,906; Apr. 10; Serial No. 241,641; published Jan. 31, 1928.
Insecticide, Liquid. G. Potaris. 240,745; Apr. 10; Serial No. 257,029; published Jan. 24, 1928.
Insecticides and fungicides. Sherwin-Williams Company. 240,802; Apr. 10; Serial No. 258,657; published Feb. 7, 1928.
Laxative candy. Sherwood Products Co. 240,737; Apr. 10; Serial No. 257,941; published Jan. 24, 1928.
Laxative mint. Maybric Company. 240,747; Apr. 10; Serial No. 256,828; published Jan. 24, 1928.
Liniments and general tonics. Solomon's Drug Stores and Montford Pharmacy. 240,994; Apr. 10.
Medicinal paste. Duborel Corporation. 240,988; Apr. 10.
Medicinal preparation. J. Mincarelli. 240,813; Apr. 10; Serial No. 258,478; published Jan. 31, 1928.
Medicinal preparation. Sharp & Dohme. 69,738; renewed June 30, 1928.
Medicinal preparations. W. F. Wilson. 240,989; Apr. 10.
Medicine for poultry. O. P. Luse. 240,923; Apr. 10; Serial No. 251,193; published Feb. 7, 1928.
Medicines. P. L. Mavrelis. 240,821–2; Apr. 10; Serial Nos. 258,340–1; published Feb. 7, 1928.
Medicines. J. J. McAllister. 65,641; renewed Oct. 15, 1927.
Nitro-oxidizing agent. Nitrox Chemical Company. 68,113; renewed Mar. 10, 1928.
Oil emulsion, Castor-. Navic Chemical Co. 241,000; Apr. 10.
Ointment for colds, coughs, etc. F. M. Stipe. 240,765; Apr. 10; Serial No. 243,671; published Mar. 29, 1927.
Paste for destroying rats, mice, and roaches. A. W. Roseman. 67,877; renewed Feb. 25, 1928.
Paste, Tooth. Klewe & Co. 69,946; renewed July 21, 1928.
Perfume. Bullock's, Inc. 240,810; Apr. 10; Serial No. 258,548; published Feb. 7, 1928.
Perfumery. J. L. Demoville. 240,850; Apr. 10; Serial No. 255,056; published Jan. 31, 1928.
Powders. Tokalon Chemical Corporation. 240,908; Apr. 10; Serial No. 235,983; published Feb. 7, 1928.
Preparation for killing moths. L. S. Berkoff. 240,772; Apr. 10; Serial No. 233,758; published Jan. 24, 1928.
Preparation for the treatment of skin diseases. J. E. Wilkinson, jr. 240,812; Apr. 10; Serial No. 258,510; published Jan. 31, 1928.
Preparation for use in sterilizing. Goodwin Laboratories, Incorporated. 240,796; Apr. 10; Serial No. 258,906; published Feb. 7, 1928.
Preparation, Hog-Cholera. Yozoi Company. 240,748; Apr. 10; Serial No. 256,802; published Jan. 24, 1928.
Preparations, After-shaving. J. B. Williams Company. 240,746; Apr. 10; Serial No. 256,849; published Dec. 27, 1927.
Preparations, Theatrical make-up. M. Factor. 240,856; Apr. 10; Serial No. 255,648; published Feb. 7, 1928.
Remedy for certain diseases, Liquid. Olephen Chemical Company. 70,401; renewed Aug. 25, 1928.
Salt. Ohio Salt Company. 240,820; Apr. 10; Serial No. 258,351; published Jan. 31, 1928.
Salve. C. Andersen. 240,786; Apr. 10; Serial No. 259,094; published Feb. 7, 1928.
Salve. E. Griffith. 240,800; Apr. 10; Serial No. 258,686; published Feb. 7, 1928.
Salve. National Ointment Company. 240,831; Apr. 10; Serial No. 257,760; published Jan. 31, 1928.
Salves and ointments. Commerce Drug Co. 240,826; Apr. 10; Serial No. 257,920; published Feb. 7, 1928.
Soda and baking powder. Jones-Thierbach Co. 240,878; Apr. 10; Serial No. 257,478; published Jan. 31, 1928.
Starch, chlorinated lime, and lye, Laundry. George W. Simmons Corporation. 240,889; Apr. 10; Serial No. 258,296; published Jan. 31, 1928.
Toilet preparations. Western Products Co. 240,757; Apr. 10; Serial No. 250,005; published Jan. 24, 1928.
Tonic. Heintz, Merkle & Co. Inc. 240,795; Apr. 10; Serial No. 258,909; published Feb. 7, 1928.
Tonic alterative compound. Sharp & Dohme. 31,715; renewed June 21, 1928.
Tonic, Poultry. J. W. Murdock. 240,873; Apr. 10; Serial No. 257,185; published Feb. 7, 1928.
Tonic, Poultry. W. S. Swank. 240,817; Apr. 10; Serial No. 258,364; published Feb. 7, 1928.
Vermifuges. Sydney Ross Co. 240,799; Apr. 10; Serial No. 258,843; published Jan. 31, 1928.

CLASS 7.

Wire cable, Twisted-. Graybar Electric Company. 240,919–21; Apr. 10; Serial Nos. 251,746–8; published Jan. 31, 1928.

CLASS 9.

Ammunition. Montgomery Ward & Co. Incorporated. 240,827; Apr. 10; Serial No. 257,887; published Feb. 7, 1928.
Firecrackers. J. Halpern. 240,783; Apr. 10; Serial No. 259,169; published Feb. 7, 1928.
Matches. P. Kohloff. 240,888; Apr. 10; Serial No. 258,084; published Jan. 31, 1928.

CLASS 10.

Fertilizer. Synthetic Nitrogen Products Corporation. 240,823–4; Apr. 10; Serial Nos. 257,942–3; published Jan. 31, 1928.
Fertilizer. Synthetic Nitrogen Products Corporation. 240,882–3; Apr. 10; Serial No. 257,944–5; published Jan. 31, 1928.
Fertilizers. Virginia-Carolina Chemical Corporation. 240,880–1; Apr. 10; Serial Nos. 257,491–2; published Feb. 7, 1928.
Fertilizers. Virginia-Carolina Chemical Corporation. 240,899; Apr. 10; Serial No. 258,202; published Feb. 7, 1928.
Fertilizers, Mixed. Cudahy Packing Company. 240,815; Apr. 10; Serial No. 258,461; published Jan. 31, 1928.

CLASS 11.

Carbon paper. Smith Premier Typewriter Company. 241,004; Apr. 10.
Ink. Cardinet Chemical Company. 241,011; Apr. 11.
Ink, Writing. L. E. Waterman Company. 240,886–7; Apr. 10; Serial Nos. 258,153–4; published Jan. 31, 1928.

CLASS 12.

Brick, Building. Joseph Mayone, Inc. 240,987; Apr. 10.
Pipe, wall coping, and flue lining, Vitrified sewer. Brockway Clay Company. 241,010; Apr. 10.
Roofing, Zinc-coated. Wheeling Corrugating Company. 241,005; Apr. 10.
Sashes and frames, Window. J. Elovson. 241,008; Apr. 10.
Wall boards and sheathing, Asbestos-cement. Asbestile (Société Anonyme). 240,981; Apr. 10; Serial No. 247,882; published Jan. 17, 1928.

CLASS 13.

Aluminum cooking utensils. American Aluminum Ware Company. 240,986; Apr. 10.
Chains, Forged metal. Reid, Leahy and Lutts. 240,848; Apr. 10; Serial No. 254,683; published Feb. 7, 1928.
Fill boxes, strainers, etc., Gasoline and oil tank. Holtson Manufacturing Corporation. 240,912; Apr. 10; Serial No. 226,002; published Jan. 31, 1928.
Metal tubes. Pittsburgh Steel Products Company. 240,871; Apr. 10; Serial No. 257,025; published Jan. 31, 1928.
Pipe, pipe fittings, bolts, nuts, etc., Metal. Mueller Brass Co. 240,849; Apr. 10; Serial No. 255,020; published Jan. 31, 1928.
Shower curtains for shower baths, Waterproofed. J. W. Johnson Company. 240,837–9; Apr. 10; Serial Nos. 257,680–2; published Jan. 31, 1928.
Transom lifters. Payson Manufacturing Company. 70,375; renewed Aug. 25, 1928.
Tubes, Speaking. California Cap Company. 240,925; Apr. 10; Serial No. 250,160; published Jan. 31, 1928.
Valves, tank connections, water seals, etc. Smith Welding Equipment Corporation. 240,927; Apr. 10; Serial No. 250,101; published Jan. 31, 1928.

CLASS 14.

Castings, Railway-car. National Malleable Castings Company. 69,187; renewed May 26, 1928.
Steel and iron. Samuel Osborn & Co. Limited. 67,875; renewed Feb. 25, 1928.

CLASS 16.

Decorations, Mural. Benjamin Moore & Co. 31,906; renewed Aug. 30, 1928.
Kalsomine in dry form. West Coast Kalsomine Co. 240,985; Apr. 10.
Paint, enamel, undercoat, varnish, etc. Sunflower Auto Paint & Polish Company. 240,771; Apr. 10; Serial No. 235,179; published Jan. 24, 1928.
Paints. Borden & Remington Co. 240,744; Apr. 10; Serial No. 257,144; published Jan. 24, 1928.
Paints and varnishes. Billings, King & Co. 60,504; renewed Feb. 12, 1927.
Paints, stains, primers, etc. Elco Paint Products, Inc. 240,738–40; Apr. 10; Serial Nos. 257,668–70; published Jan. 24, 1928.
Polish. K. O. Products Co. 240,741; Apr. 10; Serial No. 257,419; published Jan. 24, 1928.

CLASS 17.

Cigarettes. Lambert Pharmacal Company. 240,953; Apr. 10; Serial No. 258,750; published Feb. 7, 1928.
Tobacco, Plug, twist, and smoking. Taylor Brothers, Incorporated. 240,956; Apr. 10; Serial No. 258,966; published Feb. 7, 1928.

CLASS 19.

Automobiles and constructional parts thereof and aeroplanes and constructive parts thereof. Société Anonyme des Usines Renault. 240,774; Apr. 10; Serial No. 222,961; published Aug. 9, 1927.
Truck bodies. Hughes-Keenan Company. 240,898; Apr. 10; Serial No. 258,183; published Jan. 31, 1928.
Trucks, wheelbarrows, etc., Hand. Casey Foster Company. 240,847; Apr. 10; Serial No. 254,348; published Feb. 7, 1928.
Windshield wipers, Automatic. Stewart-Warner Speedometer Corporation. 240,857; Apr. 10; Serial No. 255,685; published Jan. 31, 1928.

CLASS 21.

Wire, Resistance. Driver-Harris Wire Company. 70,205; renewed Aug. 11, 1928.

CLASS 22.

Golf clubs. Vulcan Last Company. 240,733; Apr. 10; Serial No. 258,383; published Jan. 24, 1928.
Golf clubs. Wilson-Western Sporting Goods Company. 240,742; Apr. 10; Serial No. 257,394; published Jan. 24, 1928.
Golf clubs and bags. Vulcan Last Company. 240,732; Apr. 10; Serial No. 258,386; published Jan. 24, 1928.
Spoon baits, Fluted-. M. E. Skinner. 69,003; renewed May 12, 1928.
Toy vehicles. Red Arrow Manufacturing Corporation. 240,761; Apr. 10; Serial No. 246,122; published Jan. 24, 1928.
Toys, dolls, and games. F. A. O. Schwarz. 31,839; renewed Aug. 2, 1928.
Toys, games, novelties. Transogram Co. Inc. 241,002; Apr. 10.
Toys, Stuffed. J. Swedlin, Inc. 240,990; Apr. 10.

CLASS 23.

Bits, drill sharpeners, etc., Drill. Gardner-Denver Company. 240,974; Apr. 10; Serial No. 258,177; published Feb. 7, 1928.
Compressed air, Device for separating oil and water from. Gast Manufacturing Corporation. 240,983; Apr. 10.
Compresses. Philadelphia Drying Machinery Company. 67,853; renewed Feb. 25, 1928.
Cutlery and other hand tools having a cutting edge. Samuel Osborn & Co. Limited. 67,874; renewed Feb. 25, 1928.
Drilling machines, tapping machines, etc., Metal. National Automatic Tool Company. 240,949; Apr. 10; Serial No. 256,789; published Jan. 17, 1928.
Gravel-screening machines and conveyors. Simplicity Engineering Company. 240,943; Apr. 10; Serial No. 252,400; published Jan. 31, 1928.
Jack, Hydraulic lifting. Standard Lift Company. 240,980; Apr. 10; Serial No. 256,890; published Jan. 31, 1928.
Machetes and axes. Collins Company. 240,958; Apr. 10; Serial No. 259,200; published Feb. 7, 1928.
Machine or apparatus made for the purpose of reclaiming lubricating oil. Hilliard Corporation. 240,935; Apr. 10; Serial No. 256,295; published Feb. 7, 1928.
Machines for removing grease, dirt, paint, varnish, or any other deleterious accumulations from the surface of any article or structure. Tridex Equipment Co. 240,973; Apr. 10; Serial No. 258,303; published Feb. 7, 1928.
Machinery. Philadelphia Drying Machinery Company. 67,855; renewed Feb. 25, 1928.
Machinery, Drying. Philadelphia Drying Machinery Company. 69,615; renewed June 23, 1928.
Machinery for drying, cooling, ordering, or treating tobacco. Philadelphia Drying Machinery Company. 67,854; renewed Feb. 25, 1928.
Machinery, Shoe. Progressive Machinery Company. 240,976; Apr. 10; Serial No. 257,811; published Jan. 31, 1928.
Mechanical painting equipment and accessories. W. N. Matthews Corporation. 240,932; Apr. 10; Serial No. 247,195; published Feb. 7, 1928.
Pivotal joints. Société Anonyme des Etablissements Repusseau & Cie. 240,982; Apr. 10.
Plows and parts thereof. Brinly-Hardy Company. 240,961–4; Apr. 10; Serial Nos. 258,722–5; published Feb. 7, 1928.
Plows and parts thereof. Brinly-Hardy Company. 240,967; Apr. 10; Serial No. 258,718; published Feb. 7, 1928.
Plows and parts thereof, Middle-breaker. Brinly-Hardy Company. 240,965–6; Apr. 10; Serial Nos. 258,719–20; published Feb. 7, 1928.
Pulleys, Wrought-steel. American Pulley Company. 31,276; renewed Feb. 15, 1928.
Rakes, Garden. Cronk & Carrier Mfg. Co. 240,931; Apr. 10; Serial No. 223,373; published Feb. 7, 1928.
Razors and blades, Safety. Treet Safety Razor Corporation. 240,969; Apr. 10; Serial No. 258,435; published Jan. 31, 1928.
Scrapers, plows, and road graders, Drag. Firman L. Carswell Mfg. Co. 240,942; Apr. 10; Serial No. 253,737; published Feb. 7, 1928.
Signals, Warning. Stewart-Warner Speedometer Corporation. 240,930; Apr. 10; Serial No. 255,541; published Jan. 31, 1928.
Sirens, alarms, and signals. L. H. Miles. 240,978; Apr. 10; Serial No. 257,183; published Jan. 31, 1928.
Soldering irons, linemen's tools and materials, etc. Graybar Electric Company. 240,944; Apr. 10; Serial No. 251,744; published Feb. 7, 1928.

Stretching and blocking machines and hat blocks therefor, Hat. G. Margolin. 240,940; Apr. 10; Serial No. 254,332; published Feb. 7, 1928.
Sweepers, Carpet. Bissell Carpet Sweeper Co. 31,702; renewed June 14, 1928.
Tools. Peter Stubs Limited. 68,731–2; renewed Apr. 28, 1928.
Tools, Pneumatic. Cleveland Pneumatic Tool Company. 240,979; Apr. 10; Serial No. 257,095; published Jan. 31, 1928.
Tractors. Vaughan Motor Works, Inc. 240,975; Apr. 10; Serial No. 258,004; published Jan. 31, 1928.

CLASS 24.

Ironing machines, Electric. Graybar Electric Company. 240,916–18; Apr. 10; Serial No. 251,738–40; published Jan. 31, 1928.
Pressing machines, Garment and laundry. Prosperity Company Inc. 240,903; Apr. 10; Serial No. 242,205; published Jan. 31, 1928.

CLASS 25.

Locks and latches. Segal Lock & Hardware Co. 240,790; Apr. 10; Serial No. 259,023; published Feb. 7, 1928.
Locks and latches. Segal Lock & Hardware Co. 240,791 2; Apr. 10; Serial No. 259,020 1; published Feb. 7, 1928.

CLASS 26.

Ammeters, current meters, etc. Graybar Electric Company. 240,945–7; Apr. 10; Serial Nos. 251,730–2; published Feb. 7, 1928.
Measuring pumps. National Recording Pump Company. 240,955; Apr. 10; Serial No. 258,826; published Feb. 7, 1928.
Pictures, Moving. Paramount Famous Lasky Corporation. 240,960; Apr. 10; Serial No. 259,070; published Feb. 7, 1928.
Recorders of the vibratory type. H. Sattler. 240,999; Apr. 10.
Speedometers. W. E. Driver. 240,948; Apr. 10; Serial No. 250,793; published Feb. 7, 1928.
Speedometers, Used in connection with the same and distribution of all makes of. W. E. Driver. 240,950; Apr. 10; Serial No. 250,792; published Feb. 7, 1928.

CLASS 29.

Brooms. George W. Simmons Corporation. 240,734; Apr. 10; Serial No. 258,298; published Jan. 17, 1928.
Dust cloths, Unimpregnated. S. Z. Herzfeld. 240,762; Apr. 10; Serial No 245,909; published Jan. 17, 1928.
Paintbrushes. T. S. Simms & Co. 240,750; Apr. 10; Serial No. 256,547; published Jan 24, 1928.

CLASS 31.

Refrigerating device. W. S. Glennan. 240,825; Apr. 10; Serial No. 257,924; published Jan. 31, 1928.
Refrigerating units, Mechanical. Universal Cooler Corporation. 240,907; Apr. 10; Serial No. 237,635; published Jan. 31, 1928.

CLASS 32.

Furniture, Office. McLeod Furniture Co. 240,933; Apr. 10; Serial No. 256,786; published Feb. 7, 1928.
Mattresses, pillows, lounges, and davenports. J. C. Hirschman Company. 68,108; renewed Mar. 10, 1928.
Shades, Porch. Raymond Porch Shade Co. 240,984; Apr. 10.
Typewriter stands or tables. Thomas A. Edison, Incorporated. 240,972; Apr. 10; Serial No. 258,315; published Jan. 31, 1928.
Upholstery. National Spring & Wire Co. 240,954; Apr. 10; Serial No. 258,763; published Feb. 7, 1928.

CLASS 33.

Glass globes and reflectors. Holophane Company. 240,807–8; Apr. 10; Serial Nos. 258,576–7; published Feb. 7, 1928.
Glassware. Fred C. Reimer Company. 240,784; Apr. 10; Serial No. 259,133; published Feb. 7, 1928.

CLASS 34.

Heating plants. Sheet Metal Products Co. 240,991; Apr. 10.
Lighters, Friction cigar. M. E. Bernhardt Company Inc. 240,794; Apr. 10; Serial No. 258,991; published Feb. 7, 1928.
Torches and equipment, acetylene stoves, etc., Oxyacetylene welding and cutting. Smith Welding Equipment Corporation. 240,926; Apr. 10; Serial No. 250,102; published Jan. 31, 1928.

CLASS 35.

Belting and lacing for belting, Leather. Bay State Belting Company. 69,021; renewed May 12, 1928.
Belting, Leather. Graton and Knight Manufacturing Company. 69,305; renewed June 2, 1928.
Brake lining. C. D. Schmidt. 241,001; Apr. 10.
Inner tubes, Pneumatic. A. C. Bering, jr. 240,977; Apr. 10; Serial No. 257,754; published Jan. 31, 1928.
Piston rings. Ramsey Accessories Manufacturing Corporation. 240,959; Apr. 10; Serial No. 259,074; published Feb. 7, 1928.
Tires and inner tubes. Corduroy Tire Company. 240,957; Apr. 10; Serial No. 258,996; published Feb. 7, 1928.
Tires, inner tubes, and tire and tube repair materials, Automobile. Swinehart Tire and Rubber Company. 240,998; Apr. 10.

CLASS 36.

Piano players, Automatic. Aeolian Company. 31,412; renewed Mar. 8, 1928.

CLASS 37.

Binders and index sheets. Irving-Pitt Manufacturing Company. 240,776; Apr. 10; Serial No. 216,837; published Oct. 13, 1927.
Pads, Fruit. Schmidt Lithograph Company. 240,993; Apr. 10.
Paper and paper napkins, Wrapping. Algonquin Paper Company. 240,913; Apr. 10; Serial No. 225,100; published Jan. 31, 1928.
Paper, envelopes, and blank post cards. Universal Art Crafts, Incorporated. 240,876; Apr. 10; Serial No. 257,325; published Feb. 7, 1928.
Paper, Packages of toilet. Albany Perforated Wrapping Paper Company. 69,091; renewed May 19, 1928.
Paper, paper towels, napkins, doilies, etc., Toilet. Fort Howard Paper Company. 241,007; Apr. 10.
Paper, Wrapping. Crown Willamette Paper Company. 240,834; Apr. 10; Serial No. 257,619; published Feb. 7, 1928.
Paper, Writing and other. Tileston & Hollingsworth Company. 240,879; Apr. 10; Serial No. 257,490; published Jan. 31, 1928.
Printed blank forms. Gilman Fanfold Corporation, Ltd. 240,915; Apr. 10; Serial No. 252,835; published Jan. 24, 1928.
Seat covers, Toilet. G. E. Mantor. 240,843; Apr. 10; Serial No. 253,762; published Feb. 7, 1928.

CLASS 38.

Journal, Trade. Kriechbaum Publishing Company. 240,816; Apr. 10; Serial No. 258,415; published Jan. 24, 1928.
Lessons, Instruction sheets, etc. Chicago Motor Training Corporation. 240,759; Apr. 10; Serial No. 248,619; published Jan. 3, 1928.
Magazine. R. D. Wyckoff. 68,680; renewed Apr. 21, 1928.
Magazine, Monthly. System Company. 66,775; renewed Dec. 24, 1927.
Newspaper section. King Features Syndicate, Inc. 240,806; Apr. 10; Serial No. 258,580; published Feb. 7, 1928.
Periodicals. Canada Dry Ginger Ale, Incorporated. 240,911; Apr. 10; Serial No. 232,543; published Jan. 31, 1928.
Periodicals. La Hacienda Company. 69,099; renewed May 19, 1928.
Pictures. A. G. Heller. 240,845; Apr. 10; Serial No. 254,037; published Jan. 31, 1928.
Publication. Emerson Publishing Co. 240,900; Apr. 10; Serial No. 258,214; published Feb. 7, 1928.
Publication. Knockout Publishing Company. 240,835; Apr. 10; Serial No. 257,555; published Feb. 7, 1928.

CLASS 39.

Clothing, Work. Northern Jobbing Company. 240,751; Apr. 10; Serial No. 255,675; published Jan. 17, 1928.
Coats, Juniors'. Keller-Kohn Company. 240,756; Apr. 10; Serial No. 250,552; published Jan. 3, 1928.
Hosiery. Max Rounick Inc. 240,755; Apr. 10; Serial No. 253,664; published Oct. 11, 1927.
Shoes. Florsheim Shoe Company. 240,707; Apr. 10; Serial No. 241,568; published Apr. 19, 1927.
Underwear, Men's knitted. Atlas Underwear Co. 240,768; Apr. 10; Serial No. 239,874; published Feb. 15, 1927.

CLASS 42.

Burlap covering. R. C. Hyland. 240,811; Apr. 10; Serial No. 258,525; published Jan. 31, 1928.
Canvas, Linen. Cumner-Jones Company. 240,779; Apr. 10; Serial No. 259,324; published Feb. 7, 1928.
Cloth piece goods. Mente & Co. Inc. 240,902; Apr. 10; Serial No. 242,734; published Jan. 31, 1928.
Cotton goods. Max Kaufmann & Co. Inc. 240,785; Apr. 10; Serial No. 259,117; published Feb. 7, 1928.
Cotton piece goods. Arthur Beir & Co. 240,840; Apr. 10; Serial No. 257,653; published Jan. 31, 1928.
Cotton, wool, silk, rayon, velvet, and plush fabrics. Akund Studios, Inc. 240,801; Apr. 10; Serial No. 258,057; published Jan. 31, 1928.
Fabrics, Hugh A. Marti Company. 240,852; Apr. 10; Serial No. 255,185; published Feb. 7, 1928.
Fabrics, Woven, knitted, netted, textile, and pile. Cheney Brothers. 240,782; Apr. 10; Serial No. 259,234; published Feb. 7, 1928.

Hair nets. Seidner & Hitzigrath, Inc. 240,930; Apr. 10; Serial No. 216,997; published Jan. 31, 1928.
Linen piece goods and table and bed linens. M. E. Blatt Co. 240,951; Apr. 10; Serial No. 246,071; published Feb. 7, 1928.
Piece goods. Haas Brothers Fabrics Corporation. 240,924; Apr. 10; Serial No. 250,919; published Jan. 31, 1928.
Piece goods. Haas Brothers Fabrics Corporation. 240,929; Apr. 10; Serial No. 247,080; published Jan. 31, 1928.
Pile fabrics in the piece. Sidney Blumenthal & Co. Inc. 240,872; Apr. 10; Serial No. 257,142; published Jan. 31, 1928.
Pillowcases and sheetings. Sparrow, Chisholm Co. 240,801; Apr. 10; Serial No. 258,658; published Feb. 7, 1928.
Pillowcases, sheets, and handkerchiefs, Cotton. Ware Shoals Manufacturing Company. 240,780–1; Apr. 10; Serial No. 259,312–13; published Feb. 7, 1928.
Rugs of textile fabric. Hillside Cotton Mills. 240,814; Apr. 10; Serial No. 258,467; published Jan. 31, 1928.
Sheets and pillowcases. M. E. Blatt Co. 240,952; Apr. 10; Serial No. 246,069; published Jan. 31, 1928.
Silk goods. Stewart Silk Company. 240,798; Apr. 10; Serial No. 258,887; published Feb. 7, 1928.
Silk goods. Union Silk Mills, Inc. 240,778; Apr. 10; Serial No. 259,148; published Feb. 7, 1928.
Woolen jersey in the piece. Chopak Textile Co. Inc. 240,910; Apr. 10; Serial No. 234,821; published Jan. 31, 1928.

CLASS 43.

Yarns. New England Spun Silk Corporation. 240,804; Apr. 10; Serial No. 258,646; published Feb. 7, 1928.

CLASS 44.

Bandages, compresses, and packs. Manetor Thermo-Pac, Incorporated. 241,015; Apr. 10.
Medicated cotton wool. Sharp & Dohme. 68,676; renewed Apr. 21, 1928.

CLASS 45.

Beverages. J. A. Bruce. 240,997; Apr. 10.
Beverages. California Bottling Works. 241,003; Apr. 10.
Beverages. New York Bottling Co. Inc. 240,937–8; Apr. 10; Serial Nos. 255,671–2; published Feb. 7, 1928.
Beverages. A. Noe & Son. 240,970; Apr. 10; Serial No. 258,349; published Feb. 7, 1928.
Beverages. Orange Crush Bottling Co. 240,941; Apr. 10; Serial No. 254,092; published Feb. 7, 1928.
Beverages and extracts, concentrates, and syrups for making the same. Nugrape Company of America. 240,934; Apr. 10; Serial No. 256,535; published Feb. 7, 1928.
Beverages and syrups, extracts, and concentrates for making the same. John Lasko & Son. 240,971; Apr. 10; Serial No. 258,338; published Jan. 31, 1928.
Syrup, Fruit. R. Frank. 240,936; Apr. 10; Serial No. 255,978; published Jan. 31, 1928.
Water, Mineral. Sasqua Hills Beverage Company. 240,968; Apr. 10; Serial No. 258,593; published Jan. 31, 1928.
Waters, Table. J. Ries. 67,402; renewed Feb. 4, 1928.

CLASS 46.

Almonds, Sugar-coated. F. E. Mohr. 240,914; Apr. 10; Serial No. 224,613; published Jan. 31, 1928.
Avocados. California Avocado Growers Exchange. 241,012–13; Apr. 10.
Breakfast food. Bowersock Mills & Power Co. 240,769; Apr. 10; Serial No. 238,425; published Nov. 16, 1926.
Cake, Fruit. R. S. Minton. 241,006; Apr. 10.
Candy. Forkdipt Chocolates Co. 241,016; Apr. 10.
Candy and candy bars. Curtiss Candy Company. 241,017; Apr. 10.
Candy, Chocolate. Busy Bee Candy Co. 240,780; Apr. 10; Serial No. 259,102; published Feb. 7, 1928.
Canned asparagus and dried fruits. Libby, McNeill & Libby. 240,895; Apr. 10; Serial No. 258,269; published Feb. 7, 1928.
Canned chili concarne. F. L. White. 240,863; Apr. 10; Serial No. 256,847; published Feb. 7, 1928.
Canned, dried, and preserved fruits and vegetables and canned salmon. Libby, McNeil & Libby. 240,897; Apr. 10; Serial No. 258,271; published Feb. 7, 1928.
Canned meat with chili powder, sauces, tamales, etc. W. V. Martinez. 240,760; Apr. 10; Serial No. 248,582; published Jan. 24, 1928.
Canned meats, bouillon cubes, canned sea food, etc. Griggs, Cooper & Company. 240,773; Apr. 10; Serial No. 231,861; published Jan. 24, 1928.
Canned salmon and dried fruits. Libby, McNeill & Libby. 240,896; Apr. 10; Serial No. 258,270; published Feb. 7, 1928.
Canned vegetables, fruits, and fish, preserved fruits, coffee, spices, etc. Ryley-Wilson Grocer Co. 240,905; Apr. 10; Serial No. 198,967; published Oct. 5, 1926.
Chocolates and bonbons. J. W. Warner. 240,797; Apr. 10; Serial No. 258,892; published Feb. 7, 1928.
Citron, dried currants, raisins, etc., Candied. Hills Brothers Company. 240,753; Apr. 10; Serial No. 254,181; published Jan. 24, 1928.
Coffee and coffee substitutes. Sprague, Warner & Company. 31,316; renewed Feb. 22, 1928.
Eggs and cheese. Corbin & Wiesmer. 240,842; Apr. 10; Serial No. 257,504; published Jan. 31, 1928.
Fig confections, nuts, jellies, etc. W. Prentiss, jr. 240,964; Apr. 10; Serial No. 241,747; published Jan. 31, 1928.
Fish, Preserved. Aktiebolaget Sveriges Förenade Konservfabriker. 68,531; renewed Apr. 14, 1928.
Flour, Self-rising. H. B. Sproul. 240,775; Apr. 10; Serial No. 221,460; published Jan. 24, 1928.
Food for animals, Stock. Quaker Oats Company. 70,268; renewed Aug. 18, 1928.
Foods, Breakfast. Whole O'Wheat Company. 240,777; Apr. 10; Serial No. 207,215; published Apr. 6, 1926.
Fruits and grapes, Fresh deciduous. Vacaville Fruit Growers Association. 240,758; Apr. 10; Serial No. 249,557; published Jan. 24, 1928.
Fruits, Dried. Emery Food Company. 240,894; Apr. 10; Serial No. 258,254; published Feb. 7, 1928.
Fruits, Fresh citrus. Chase & Co. 240,864–9; Apr. 10; Serial No. 256,908–13; published Feb. 7, 1928.
Fruits, Fresh citrus. W. J. Howey Co. 240,789; Apr. 10; Serial No. 259,061; published Jan. 31, 1928.
Fruits, Fresh citrus. Mammoth Grove, Inc. 240,870; Apr. 10; Serial No. 256,955; published Feb. 7, 1928.
Fruits, Fresh deciduous. E. H. Ridenour. 240,854; Apr. 10; Serial No. 255,680; published Jan. 31, 1928.
Fruits, fresh vegetables, and fresh melons, Fresh citrus. McFadden Bros. & Myers. 240,855; Apr. 10; Serial No. 255,663; published Jan. 31, 1928.
Fruits, vegetables, cantaloupes, and grapes, Fresh. Sierra Madre Fruit Co. 241,014; Apr. 10.
Gelatin dessert powder. Jells-Mor Products Company, 240,754; Apr. 10; Serial No. 254,108; published Jan. 24, 1928.
Grapes, fresh deciduous fruits, etc., Fresh. B. Ballou. 240,853; Apr. 10; Serial No. 255,628; published Feb. 7, 1928.
Gum, Candy-coated chewing. Frank H. Fleer Corporation. 240,861; Apr. 10; Serial No. 256,617; published Feb. 7, 1928.
Gum, Chewing. Frank H. Fleer Corporation. 240,862; Apr. 10; Serial No. 256,620; published Feb. 7, 1928.
Honey, Nuts, dried and fresh fruits. Leutzinger & Lane. 240,805; Apr. 10; Serial No. 258,638; published Jan. 31, 1928.
Meats and sausage. Kingan and Company. 69,077; renewed May 19, 1928.
Meats and sausage, Cured. Kingan and Company, Limited. 67,726; renewed Feb. 18, 1928.
Milk, Sweetened condensed. American Milk Products Corporation. 240,764; Apr. 10; Serial No. 244,126; published Jan. 24, 1928.
Milk, Unsweetened condensed. Nestlé and Anglo-Swiss Condensed Milk Co. 70,001; renewed July 21, 1928.
Nuts. R. C. Justh. 240,846; Apr. 10; Serial No. 254,241; published Jan. 31, 1928.
Oil, Olive. Joseph Voctori & Co. 240,766; Apr. 10; Serial No. 243,465; published Jan. 24, 1928.
Pastry container adapted for holding frozen confection, Empty. V. W. Stern. 240,800; Apr. 10; Serial No. 256,548; published Jan. 31, 1928.
Potatoes, Sweet. Rosepine Co-Operative Sweet Potato Curing Company. 240,996; Apr. 10.
Poultry, eggs, and butter, Dressed. Independence Produce Company. 240,828; Apr. 10; Serial No. 257,872; published Jan. 31, 1928.
Pudding powder. Corn Products Refining Company. 240,874; Apr. 10; Serial No. 257,279; published Jan. 31, 1928.
Rice, tomato catsup, and food-flavoring extracts. C. Gegenheimer. 240,992; Apr. 10.
Salad dressing. Mrs. W. K. Sturrock. 240,922; Apr. 10; Serial No. 251,469; published Jan. 31, 1928.
Sausage, lard, dried beef, etc. W. J. Jones. 68,649; renewed Apr. 21, 1928.
Syrup, Hop-flavored malt. M. Kettleman. 240,736; Apr. 10; Serial No. 258,031; published Jan. 24, 1928.
Syrup, Malt. Lucido Bros. Grocery Co. Inc. 240,735; Apr. 10; Serial No. 258,087; published Jan. 24, 1928.
Syrup, Malt. M. Seligman. 240,819; Apr. 10; Serial No. 258,357; published Jan. 31, 1928.
Syrup, Malt. Stroh Products Company. 240,877; Apr. 10; Serial No. 257,451; published Jan. 31, 1928.
Tablets composed of inorganic substances. J. G. Munsell. 240,770; Apr. 10; Serial No. 236,886; published Jan. 24, 1928.
Tapioca. Parrish Brothers, Inc. 70,266; renewed Aug. 18, 1928.
Vinegars, pickles, sauerkraut, etc. C. F. Claussen & Sons, Inc. 240,829; Apr. 10; Serial No. 257,867; published Jan. 31, 1928.

CLASS 48.

Beer. Burkhardt Corporation. 240,752; Apr. 10; Serial No. 255,227; published Jan. 17, 1928.

ALPHABETICAL LIST OF LABELS.

Block's. For Footwear. Hoague-Sprague Corporation. 33,814; Apr. 10.
Bowman's. For Footwear. Hoague-Sprague Corporation. 33,823; Apr. 10.
Corrective Arch Built Shoes. For Footwear. Hoague-Sprague Corporation. 33,818; Apr. 10.
Dewdrop. For Bread. Kalamazoo Vegetable Parchment Co. 33,827; Apr. 10.
Eline's Oriental Sweets. For Candy. Eline' Incorporated. 33,797; Apr. 10.
Fashion Wear Footwear. For Footwear. Hoague-Sprague Corporation. 33,817; Apr. 10.
Fashionable Footwear. For Footwear. Hoague-Sprague Corporation. 33,821; Apr. 10.
Faulkner's Special No. 20 Soluble Tallow. For Sizing Compound for Preparation of Cotton Warp Yarns. Southern Distributing Company. 33,833; Apr. 10.
Feminine Footwear. For Footwear. Hoague-Sprague Corporation. 33,813; Apr. 10.
Good Shoes. For Footwear. Hoague-Sprague Corporation. 33,825; Apr. 10.
Heide's Quality Candies 10—A—3. For Candy. Henry Heide, Inc. 33,798; Apr. 10.
Heide's Quality Candies 10—B—3. For Candy. Henry Heide, Inc. 33,799; Apr. 10.
Heide's Quality Candies 10—C—3. For Candy. Henry Heide, Inc. 33,800; Apr. 10.
Heide's Quality Candies 10—D—3. For Candy. Henry Heide, Inc. 33,801; Apr. 10.
Heide's Quality Candies 10—E—3. For Candy. Henry Heide, Inc. 33,802; Apr. 10.
Heide's Quality Candies 10—F—3. For Candy. Henry Heide, Inc. 33,803; Apr. 10.
High Grade Shoes. For Footwear. Hoague-Sprague Corporation. 33,816; Apr. 10.
Kline & Epplhimer. For Footwear. Hoague-Sprague Corporation. 33,824; Apr. 10.
Mardi-Gras. For Candy. Frederick W. Lipps Co. Inc. 33,829; Apr. 10.
Mountain Ginger Ale. Non-Alcoholic. For Ginger Ale. J. F. Benedeck. 33,795; Apr. 10.
Parcel Post Butter. For Butter. Bruder Creameries. 33,796; Apr. 10.
Paris Styles at Popular Prices. For Footwear. Hoague-Sprague Corporation. 33,805; Apr. 10.
Peter Long Ears. For Slippers, and More Particularly Those of the Fleece-Lined Type. Mondi Manufacturing Company. 33,830; Apr. 10.
Quality Footwear. For Footwear. Hoague-Sprague Corporation. 33,820; Apr. 10.
Quality Shoes. For Footwear. Hoague-Sprague Corporation. 33,806; Apr. 10.
Quality Shoes That Fit. For Footwear. Hoague-Sprague Corporation. 33,804; Apr. 10.
Renowned Shoes. For Footwear. Hoague-Sprague Corporation. 33,810; Apr. 10.
Roxy Brand. For Cheese. Royal Importing Co. 33,831; Apr. 10.
Self-Action. For Hand Soap. Hoh-Hag Mfg. Co. 33,826; Apr. 10.
Serenader's Club. For Ginger Ale. Serenader's Club Ginger Ale Inc. 33,832; Apr. 10.
Shoes for the Whole Family. For Footwear. Hoague-Sprague Corporation. 33,812; Apr. 10.
Skin-Health. For Soap. A. J. Krank Mfg. Co. 33,828; Apr. 10.
Sunshine Illuminators. For Electric-Light Reflectors. Sunshine Incorporated. 33,834; Apr. 10.
Super Service. For Automobile Tubes. Super Service Corporation. 33,835; Apr. 10.
Sure Fit Shoes. For Footwear. Hoague-Sprague Corporation. 33,815; Apr. 10.
Thalhimer Bros. For Footwear. Hoague-Sprague Corporation. 33,811; Apr. 10.
The Bon-Ton. For Footwear. Hoague-Sprague Corporation. 33,822; Apr. 10.
The House of Reputation. For Boxes. Hoague-Sprague Corporation. 33,808; Apr. 10.
The Right Shoes on Time. For Footwear. Hoague-Sprague Corporation. 33,807; Apr. 10.
We Shoe the Whole Family. For Footwear. Hoague-Sprague Corporation. 33,809; Apr. 10.
Wigg's Waterless Cleanser Wiggles the Dirt. For Waterless Soap. Wiggins Chemical Co. 33,836; Apr. 10.
Women's Novelty Footwear. For Footwear. Hoague-Sprague Corporation. 33,819; Apr. 10.
Wrigley's Pink P. K. For Chewing Gum. Wm. Wrigley Jr. Company. 33,837; Apr. 10.

ALPHABETICAL LIST OF PRINTS.

Footsavers—Correct Shoes for Men. For Shoes. Commonwealth Shoe & Leather Company. 10,771; Apr. 10.
Introducing Mr. B. T. U. For Insulating Material. Banner Rock Products Company. 10,768; Apr. 10.
Knock That Glare. For Nonglare Devices for Automobiles. Nox-Glare Shield Company. 10,773; Apr. 10.
Pause—and Refresh Yourself. For Coca-Cola. Coca-Cola Company. 10,769; Apr. 10.
Post's Barn Flakes. For Cereal Breakfast Foods. Postum Company. 10,774; Apr. 10.
Refresh Yourself. For Coca-Cola. Coca-Cola Company. 10,770; Apr. 10.
Tent-Tite, The, Guaranteed Waterproofing. For Waterproof Liquid. H. J. Reidel. 10,775; Apr. 10.
We Propose—For Dessert—My-T-Fine. For Dessert Preparations. D & C Co. Inc. 10,772; Apr. 10.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A-B Stove Company. (See Reedy, Alfred J., assignor.)
A C Spark Plug Company. (See Nutt, Frank N., assignor.)
Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Wall-bracket lighting fixture. Des. 74,853; Apr. 10.
Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Company, Reading, Pa. Candle cup for lighting fixtures. Des. 74,854; Apr. 10.
Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Wall-bracket lighting fixture. Des. 74,855; Apr. 10.
Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Plate for lighting fixtures. Des. 74,856; Apr. 10.
Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Company, Reading, Pa. Loop for lighting fixtures. Des. 74,857; Apr. 10.
Abrams, Herman, Philadelphia, assignor to Crescent Brass Mfg. Co., Reading, Pa. Wall-bracket lighting fixture. Des. 74,858; Apr. 10.
Abramson, Mono, et al. (See Levy, Henri G., assignor.)
Ackley, Charles S., New York, N. Y. Apparatus for waving hair; 1,665,619; Apr. 10.
Adams, Arthur J., Huntington Park, Calif. Wave motor. 1,665,198; Apr. 10.
Adams Elsworth Bivalve Co. (See Adams, Ralph C. and J. T., assignors.)
Adams, Jonathan T. (See Adams, Ralph C. and J. T.)
Adams, Ralph C. and J. T., Somers Point, assignors to Adams Elsworth Bivalve Co., Montclair, N. J. Device for propagation of clams. 1,665,996; Apr. 10.
Addressograph Company. (See Duncan, J. S., and Hubbard, assignors.)
Aebli, Henry, Enright, Oreg. Combination faucet and vent. 1,665,490; Apr. 10.
Aeby, Elizabeth, Indiana Harbor, Ind., assignor to L. Aeby, East Chicago, Ind. Automobile heater. 1,665,725; Apr. 10.
Aeby, Louis. (See Aeby, Elizabeth, assignor.)
Ajax Time Stamp Company. (See Marks, Albert J., assignor.)
Akers, Milton K. (See Johnston, H. L., and Akers.)
Albertini, Albert and A., Staunton, Ill. Wrench. 1,665,944; Apr. 10.
Albertini, Andrew. (See Albertini, Albert and A.)
Alderfer, Sterling W., Akron, Ohio. Method and apparatus for the manufacture of tire beads. 1,666,038; Apr. 10.
Aldrich, Herbert H. (See Norris, P. E., and Aldrich.)
Alexander, Irving, New York, N. Y. Signal lamp. Des. 74,859; Apr. 10.
Alexander, John D. (See Shearon, C. E., Alexander, and Pearcey.)
Allan, Archibald, North Shields, and H. Clothier, Wallsend-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Operating gear of electric switches. 1,665,291; Apr. 10.
Allen, Charles A., Tucson, Ariz. Rail joint. 1,665,652; Apr. 10.
Allen, Edward R., and W. E. Kaufmann, East Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dispersing powder and making. 1,665,945; Apr. 10.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 74,860; Apr. 10.
Allis, Louis, Company, The. (See Barr, John M., assignor.)
Allison, Harriet O., Charlotte, N. C. Post-base trimmer. 1,665,726; Apr. 10.
Allmänna Svenska Elektriska Aktiebolaget. (See Dreyfus, Ludwig, assignor.)
Amatel, Harold, East Orange, N. J., assignor to Westinghouse Lamp Company. Shipping and display carton. 1,665,620; Apr. 10.
American Arch Company. (See Anthony, James T., assignor.)
American Bank Note Company. (See Smith, W. H., and Webster, assignors.)
American Can Company. (See Young, John M., assignor.)
American Car and Foundry Company. (See Clade, R., and Ensign, assignors.)
American Car and Foundry Company. (See Dayes, Frederick E., assignor.)
American Car and Foundry Company. (See Gibbs, Frederick H., assignor.)
American Car and Foundry Company. (See Johnson, W. S., and Sheffer, assignors.)
American Car and Foundry Company. (See Joy, Robert W., assignor.)
American Car and Foundry Company. (See Joy, R. W., and Willoughby, assignors.)
American Car and Foundry Company. (See MacChesney, Harold S., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Car and Foundry Motors Company. (See Hall, E. J., and Hawkes, assignors.)
American Car and Foundry Motors Company. (See Walker, Hubert, assignor.)
American Engineering Company. (See Weingartner, Anthony E., assignor.)
American Laundry Machinery Company, The. (See Warcam, Charles E., assignor.)
American Lithographic Company. (See Brunings, Henry H., assignor.)
American Multigraph Company, The. (See Osborne, John C., assignor.)
American Piano Company. (See Stoddard, Charles F., assignor.)
American Steam Pump Company. (See Barton, Ben D., assignor.)
American Telephone and Telegraph Company. (See Cory, Samuel I., assignor.)
American Telephone and Telegraph Company. (See Singer, Fred J., assignor.)
Anaconda Sales Company. (See Robinson, Thomas, assignor.)
Anchor Cap and Closure Corporation. (See Scofield, Edgar, assignor.)
Anderson, Frank S. (See Randle, C. I., and Anderson.)
Anderson, Hazen S., Rochester, and J. B. Brown, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich. Buffer. 1,665,292; Apr. 10.
Anderson, John, Milwaukee, Wis., assignor to Combustion Engineering Corporation. Pulverized-fuel-burning furnace. 1,665,399; Apr. 10.
Anderson, John A. (See Holmes, H. N., and Anderson.)
Anderson, William S., Atlanta, Ga. Switch mechanism. 1,665,429; Apr. 10.
Ansco Photoproducts, Inc. (See Slocum, Benjamin A., assignor.)
Anthony, James T., East Orange, N. J., assignor to American Arch Company. Boiler fire box. 1,665,339; Apr. 10.
Applegate, Robert, Cleveland, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Welding. 1,666,026; Apr. 10.
Archer, Alfred, Caldwell, N. J., assignor to Mergenthaler Linotype Company. Quad block for slug-casting machines. 1,665,248; Apr. 10.
Arms, Ray W., assignor to Roberts and Shaefer Company, Chicago, Ill. Dry separating table. 1,665,249; Apr. 10.
Arnstein, Karl, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Assemblage-point device. 1,665,872; Apr. 10.
Artcraft Metal Stamping Corporation. (See Shapiro, Theodore, assignor.)
Arzt, Frederick W., Homestead, Fla. Floor jointing or tightening device. 1,665,430; Apr. 10.
Ashbaugh, John H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-regulator system. 1,665,901; Apr. 10.
Atkins, Earl F., Plainfield, N. J., assignor to International Motor Company, New York, N. Y. Spring collet chuck. 1,665,250; Apr. 10.
Atlas Powder Company. (See Taylor, A. M., and Buote, assignors.)
Austin, James G., Price, Utah. Automobile turntable. 1,665,997; Apr. 10.
Automatic Electric Inc. (See Lomax, Clarence E., assignor.)
Automatic Electric Inc. (See Middleton, Donald R., assignor.)
Automatic Electric Inc. (See Nelson, Martin L., assignor.)
Automatic Electric Inc. (See Schwartz, Michael, assignor.)

Automatic Electric Inc. (See Wicks, John, assignor.)
Avery, W. & T., Limited. (See Timson, William, assignor.)
Ayer, William T., assignor to Hercules Powder Company, Wilmington, Del. Mechanism for cutting paper shell blanks from continuous rolls of paper. 1,665,834; Apr. 10.
Babcock-Davis Corporation. (See Davis, William A., assignor.)
Bachelder, Elmer N., Portland, Me. Apparatus for infusing and filtering coffee, tea, and the like. 1,665,199; Apr. 10.
Bagby, Ralph B., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Power-transmitting mechanism. 1,665,835; Apr. 10.
Bagley and Sewall Company, The. (See Valentine, Charles W., assignor.)
Baker, Lea W., Pomona, Calif. Razor-blade holder. 1,665,836; Apr. 10.
Baratt, David, Roxbury, Mass. Sectional impression tray. 1,665,293; Apr. 10.
Barclay, Gustaf I., assignor to Detroit Steel Products Company, Detroit, Mich. Window. 1,665,431; Apr. 10.
Barclay, Gustaf I., assignor to Detroit Steel Products Company, Detroit, Mich. Window. 1,665,432; Apr. 10.
Bardello, Antonio, assignor to Ainsworth Buck, Incorporated, New York, N. Y. Safety anchor mounting. 1,665,837; Apr. 10.
Barenchi, Louis P. (See Wellington, George S., assignor.)
Barr, John M., assignor to The Louis Allis Company, Milwaukee, Wis. Rolling machine. 1,665,522; Apr. 10.
Barrett Company, The. (See Mortimer, Charles W., assignor.)
Barrett, H. M. (See Bohannan, Robert S., assignor.)
Barton, Ben D., assignor to American Steam Pump Company, Battle Creek, Mich. Pump attachment for motor vehicles. 1,665,765; Apr. 10.
Bastian, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded article. 1,665,902; Apr. 10.
Batchell, George W. (See Fisher, Elbert E., assignor.)
Bates, Carl S. (See Myers, L. E., Carlson, and Bates.)
Battner, Stephen, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Piano fall board. 1,665,653; Apr. 10.
Bausch & Lomb Optical Company. (See Day, George H., assignor.)
Bausch & Lomb Optical Company. (See Foster, Leon V., assignor.)
Bausch & Lomb Optical Company. (See Sweeney, James A., assignor.)
Baynard, William H., assignor to H. H. Beckwith, Brookline, Mass. Adhesive-applying device. 1,666,039; Apr. 10.
Beaumont, R. H., Company. (See Beaumont, Robert H., assignor.)
Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Automatic fuel-supply means for boilers. 1,666,027; Apr. 10.
Bechthold, John, assignor of one-eighth to A. A. Foote and one-eighth to J. L. Paine, Elma, Wash. Strawberry top and runner cutter. 1,665,998; Apr. 10.
Becker, Edmund, deceased, Washington, D. C. C. Hindmarsh and M. L. Wallis, executrices. Aerial signaling method and means. 1,665,838; Apr. 10.
Becker, John J., Brooklyn, N. Y. Mechanical toy. 1,665,578; Apr. 10.
Becket, Alan L., East Orange, N. J. Card game. 1,665,903; Apr. 10.
Beckwith, Harry H. (See Baynard, William H., assignor.)
Beech-Nut Packing Company. (See Esworthy, Joseph W., assignor.)
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell, John E., Brooklyn, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y. Fluid heating. 1,666,028; Apr. 10.
Bell Telephone Laboratories. (See Hoch, Ellery T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Whitney, Wiley, assignor.)
Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
Bendixen, George. (See Whitescarver, C. T., and Bendixen.)
Benedict, Edward L., assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Fabric structure. 1,665,433; Apr. 10.
Benjamin Eastwood Company. (See Wells, William S., assignor.)
Benoit, Edmond V., Montreal, Quebec, Canada. Cap extractor. 1,665,524; Apr. 10.
Bennett, Ashley C., Minneapolis, Minn. Air cleaner for carburetors. 1,665,434; Apr. 10.
Benson, Walter F. (See Kristofek, F. J., and Benson.)
Berger Manufacturing Company, The. (See Haldeman, Walter S., assignor.)
Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Convertible body. 1,665,294; Apr. 10.
Bernstein, Jacob, Philadelphia, Pa. Inverted-edge hat carrier. 1,665,839; Apr. 10.
Bing, Julius, Eisenach, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezial-Fabrik für Elektromagnet-Apparate, Eisenach, Thuringia, Germany. Method of and apparatus for disintegrating bulky scrap metal. 1,665,806; Apr. 10.
Binger, Louis, Norton, Kans. Planter attachment for plows. 1,665,873; Apr. 10.
Binger, Nickolaus, Pittsburgh, Pa. Floor scraper. 1,665,766; Apr. 10.
Binney Castings Company, The. (See Binney, Ralph L., assignor.)
Binney, Ralph L., assignor to The Binney Castings Company, Toledo, Ohio. Nonferrous casting. 1,665,435; Apr. 10.
Birney, William N., Willoughby, assignor of one-half to M. H. McKenna, Cleveland, Ohio. Autotruck mechanical dump hoist. 1,665,340; Apr. 10.
Bittner, Fredwill, Los Angeles, Calif. Marking tool. 1,665,400; Apr. 10.
Blecke, Fred, Luckey, Ohio. Ensilage harvester. 1,665,401; Apr. 10.
Bliss, Elmer J., Boston, assignor to Regal Shoe Company, Whitman, Mass. Foot-measuring device for fitting shoes. 1,666,040; Apr. 10.
Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Valve construction. 1,665,436; Apr. 10.
Boddie, Clarence A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Carrier-wave telephone system. 1,665,904; Apr. 10.
Boehm, Albert J., Princeton, Minn. Wire splicer. 1,665,525; Apr. 10.
Boehme, Otto F., Dover, N. J. Stocking. 1,665,946; Apr. 10.
Boeing Airplane Company. (See Haberlin, John F., assignor.)
Bohannan, Robert S., assignor to H. M. Barrett, Birmingham, Ala. Easer joint. 1,665,906; Apr. 10.
Boker, Vitus A., Minneapolis, Minn. Thermostat. 1,665,341; Apr. 10.
Bookmyer, Frank T., Marion, Ohio. Swinging carrier for corn shockers. 1,665,767; Apr. 10.
Booth, David N., New York, N. Y. Vehicle tire. 1,665,840; Apr. 10.
Booth, William N., Detroit, Mich. Vehicle wheel. 1,665,437; Apr. 10.
Borsenberger, Emil E., assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio. Die for hollow tile. 1,665,342; Apr. 10.
Boston Machine Works Company. (See Johnson, Lawrence E., assignor.)
Bothwell, Glenn D., Springport, assignor of one-third to G. J. Bothwell, London, Ontario, Canada. Horn-resonator violin. 1,665,402; Apr. 10.
Bothwell, Guy J. (See Bothwell, Glenn D., assignor.)
Boyce, Edward C., New York, N. Y. Golf club. 1,665,523; Apr. 10.
Boyle, Clete L. (See Klinger, J. D., and Boyle.)
Brady, Thomas, East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Electromechanical interlock. 1,665,526; Apr. 10.
Brandt Automatic Cashier Co. (See Brandt, Edward J., assignor.)
Brandt, Edward J., assignor to Brandt Automatic Cashier Co., Watertown, Wis. Coin-paying machine. 1,665,343; Apr. 10.
Braun, Philip N., and S. T. Hart, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pad for pressing machines. 1,665,654; Apr. 10.
Brautigam, George W. (See Koenig, E. O., and Brautigam.)
Brennan, Thomas H., Chicago, Ill. Inductance coil. 1,665,947; Apr. 10.
Brett, Edward H. (See Kehrer, B. F., and Brett.)
Briggs, Howard O., Minneapolis, Minn. Cord holder for vacuum cleaners, lamps, and the like. 1,665,200; Apr. 10.
Brinkman, Lewis A., Chicago, Ill. Pelorus. 1,665,527; Apr. 10.
Broadhurst, Herbert F., London, England. Apparatus for filling bottles, tins, or other containers. 1,665,948; Apr. 10.
Brower, William C., Gloversville, N. Y. Piston construction. 1,665,438; Apr. 10.
Brown & Bigelow. (See Kristofek, F. J., and Benson, assignors.)
Brown Company. (See Schur, Milton O., assignor.)
Brown, George R., Bridgeport, Conn., assignor to General Electric Company. Electric cut-out. 1,66,841; Apr. 10.
Brown, Jesse B. (See Anderson, H. S., and Brown.)
Brown, Millard D., assignor to Continental Mills, Inc., Philadelphia, Pa. Knitted fabric. Des. 74,861; Apr. 10.
Brown, William J., Savanna, Ill. Adjustable blocking for cars. 1,665,439; Apr. 10.
Browning, George, Wilmette, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Electric iron. 1,665,768; Apr. 10.
Brubaker, William A., Akron, Ohio. Vulcanization. 1,665,440; Apr. 10.
Bruce, Malvern L. (See York, Allen B., assignor.)

Brunings, Henry H., Brooklyn, assignor to American Lithographic Company, New York, N. Y. Making etched printing plates. 1,665,842; Apr. 10.
Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)
Brusch, Helmuth, Chicago, Ill. Safety fender. 1,665,251; Apr. 10.
Brusch, Helmuth, Chicago, Ill. Automobile. 1,665,441; Apr. 10.
Bryant Electric Refrigerator Corporation. (See Bryant, Forrest, L., assignor.)
Bryant, Forrest L., Johnson City, N. Y., assignor to Bryant Electric Refrigerator Corporation, Wilmington, Del. Quick-make and quick-break switch. 1,665,529; Apr. 10.
Buchanan, Frank, assignor to Crouse-Hinds Company, Syracuse, N. Y. Traffic signal. 1,666,041; Apr. 10.
Buck, Ainsworth, Incorporated. (See Bardello, Antonio, assignor.)
Buckert, Homer A., St. Louis, and E. K. Hall, University City, Mo. Misalignment indicator for wheels. 1,665,252; Apr. 10.
Buckeye Steel Castings Company, The. (See Johnson, George T., assignor.)
Buckeye Steel Castings Company, The. (See Larsen, Jacob C., assignor.)
Buckeye Steel Castings Company, The. (See Larsen, J. C., and Orr, assignors.)
Buckingham & Hecht. (See Wiel, Eli H., assignor.)
Budd Wheel Company. (See Nelson, Emil A., assignor.)
Budd Wheel Company. (See Smith, John W., assignor.)
Buerger, Charles B., assignor to Gulf Refining Company, Pittsburgh, Pa. Apparatus for and process of distilling oils. 1,666,042; Apr. 10.
Buie, Norman, Stayner, Ontario, Canada. Aeroplane. 1,665,769; Apr. 10.
Builders Iron Foundry. (See Connet, Frederick N., assignor.)
Buist, Lyman O., Toronto, Ontario, Canada. Liquid container. 1,665,770; Apr. 10.
Bullard Machine Tool Company, The. (See Kolb, George F., assignor.)
Buote, Frank A. (See Taylor, A. M., and Buote.)
Burger, Frederick W. (See Stockfleth, B., and Burger.)
Burger, Frederick W., Niles, and Berger Stockfleth, Berrien Springs, assignors to Clark Tructractor Company, Buchanan, Mich. Shop tractor. 1,665,684; Apr. 10.
Burleson, Ambrose L., Berkeley, and N. P. Samantas, San Francisco, Calif. Permanent-wave apparatus. 1,665,253; Apr. 10.
Burton, Paul C. (See Galloway, R. M., and Burton.)
Bussmann, Henry T., St. Louis, Mo. Electric fuse. 1,665,528; Apr. 10.
Byerlein, Arthur A., Detroit, Mich. Clutch. 1,665,999; Apr. 10.
Byrnes, Irving F., Schenectady, N. Y., assignor to General Electric Company. Amplifier. 1,665,843; Apr. 10.
Cadden, Charles C. (See Gammeter, J. R., and Cadden.)
Cadwell, Edwin B., Saugerties, N. Y. Snow-removal apparatus. 1,665,685; Apr. 10.
Cady, George B. (See Walter, Frank J., assignor.)
Cady, George B., Canastota, N. Y. Machine for counterboring brake linings and the like. 1,665,771; Apr. 10.
Campbell, Earl E., Gillette, Wyo. Well-cleaning device. 1,666,000; Apr. 10.
Campbell, Elliott D., San Francisco, Calif. Flatiron. 1,665,295; Apr. 10.
Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Sealing mechanism for window frames and sashes. 1,666,043; Apr. 10.
Campbell, John S., Pittsburgh, Pa. Cleaning apparatus. 1,665,727; Apr. 10.
Campbell, Leon J., Buchanan, Mich. Building block. 1,665,442; Apr. 10.
Campbell Metal Window Corporation. (See Campbell, Harry E., assignor.)
Cannon, John W., Providence, R. I. Oil-burning system. 1,665,443; Apr. 10.
Canright, Bruce W., St. Paul, assignor of one-half to I. E. Mcagher, Minneapolis, Minn. Coffee-making apparatus. 1,665,728; Apr. 10.
Caps, Arthur W., Kansas City, Mo., assignor, by mesne assignments, to Rhotostat Corporation, Providence, R. I. Drying press. 1,665,403; Apr. 10.
Caracristi, Virginius Z., Bronxville, N. Y., assignor to Locomotive Pulverized Fuel Company. Combustion method and apparatus. 1,665,344; Apr. 10.
Carey, Philip, Manufacturing Company, The. (See Pater, Carl J., assignor.)
Carlson, Artie C. (See Myers, L. E., Carlson, and Bates.)
Carlson, Artie C., Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and H. H. Rockwell, as trustees. Coaster-wagon steering gear. 1,665,729; Apr. 10.
Carlson, Oscar, et al. (See Johnson, Matts, assignor.)
Carmona, Frederick A., and A. M. Sands, Berkeley, assignors to Carmona-Sands Corporation, San Francisco, Calif. Liquid-level indicator. 1,665,530; Apr. 10.
Carmona-Sands Corporation. (See Carmona, F. A., and Sands, assignors.)
Carpender, Guy E. (See Lucas, Z. R., and Carpender.)
Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. 1,665,772; Apr. 10.
Carter-Mayhew Manufacturing Co. (See Ingraham, Charles C., assignor.)
Case & Marshall, Incorporated. (See Sponsel, Charles W., assignor.)
Casler, Herman, assignor, by mesne assignments, to Rex-Watson Corporation, Canastota, N. Y. Skate wheel. 1,665,874; Apr. 10.
Catala, Tiburce, Englewood Cliffs, N. J. Jewelry case. 1,666,001; Apr. 10.
Central Alloy Steel Corporation. (See Trembour, Max R., assignor.)
Chadillon, Joseph, Montreal, Quebec, Canada. Game board. Des. 74,862; Apr. 10.
Chain Belt Company. (See Longenecker, Charles I., assignor.)
Chamberlin, Benjamin D., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing machine. 1,666,052; Apr. 10.
Chamberlin Metal Weather Strip Co. (See Glaser, J. P., Julien, and Whitten, assignors.)
Chambers, James G., and B. C. Salamis, Montreal, Quebec, Canada. Water heater. 1,665,949; Apr. 10.
Chandler, Edward F., Brooklyn, N. Y. Balanced motor fuel. 1,665,621; Apr. 10.
Chapman, Albert K., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing machine. 1,666,053; Apr. 10.
Chapman, George H., Chicago, Ill. Electropneumatic combination stop action for organs. 1,665,254; Apr. 10.
Chapman, Samuel E., Ontario, Oreg. Paper feed and cutting mechanism. 1,665,444; Apr. 10.
Chase, Frank W., Melrose, assignor to Weldfast System, Inc., Salem, Mass. Machine for bundling paper currency. 1,665,730; Apr. 10.
Chase, Frank W., Melrose, assignor to Weldfast System, Inc., Salem, Mass. Machine for bundling currency. 1,665,731; Apr. 10.
Chase, Frank W., Melrose, assignor to Weldfast System, Inc., Salem, Mass. Package. 1,665,732; Apr. 10.
Chauveau, Louis L. E., Paris, France. Calling device. 1,665,622; Apr. 10.
Chauveau, Louis L. E., Paris, France. Automatic switchboard telephone system. 1,665,773; Apr. 10.
Cheek, Tolbert F., assignor, by mesne assignments, to Welte Company, Inc., New York, N. Y. Automatic musical instrument. 1,665,905; Apr. 10.
Cherry, J. G. Company. (See Bagby, Ralph B., assignor.)
Chicago Electric Manufacturing Co. (See Gough, James J., assignor.)
Chicago Flexible Shaft Company. (See Browning, George, assignor.)
Chriswell, Frederick W., Seattle, Wash. High-stake car bunk. 1,665,623; Apr. 10.
Circle F. Mfg. Co., (See Freeman, Edgar H., assignor.)
Clade, Robert, Newark, N. J., and H. B. Ensign, St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Filter. 1,665,345; Apr. 10.
Clark, Clarence W., Ashland, Wis. Snowplow. 1,665,733; Apr. 10.
Clark, Herbert, Wylde Green, England. Universal joint or coupling. 1,665,734; Apr. 10.
Clark Tructractor Company. (See Burger, F. W., and Stockfleth, assignors.)
Clark Tructractor Company. (See Stockfleth, B., and Burger, assignors.)
Clark, William D., Washington, D. C. Clock mounting. 1,665,491; Apr. 10.
Clarke, Harry W., Longview, Wash. Pipe connection. 1,665,346; Apr. 10.
Cleveland Trust Company, Trustee, The. (See Jeffries, Zay, assignor.)
Climax Hosiery Mills. (See Epps, Carl, assignor.)
Cline Electric Manufacturing Company. (See O'Brien, William C., assignor.)
Clipper Belt Lacer Company. (See Diamond, James K., assignor.)
Clisson, Albert B., Geddes, N. Y., assignor to The Prosperity Company, Inc. Flexible joint. 1,665,655; Apr. 10.
Clothier, Henry W. (See Allan, A., and Clothier.)
Coda, Christopher F., Detroit, Mich. Upholstery-filling device. 1,665,907; Apr. 10.
Coffren, Richard H. (See Slye, J. Q., and Coffren.)
Cole, Elmer K., Winteraet, Iowa. Cable clamp. 1,665,531; Apr. 10.
Cole, Martin P., Goodland, Kans. Tire boot. 1,666,002; Apr. 10.
Colonial Brass Company. (See McCarthy, John J., assignor.)
Columbia Phonograph Company. (See Vasselli, Anthony J., assignor.)
Combustion Engineering Corporation. (See Anderson, John, assignor.)
Comeau, Melburn A., Haverhill, Mass. Bolt. 1,665,875; Apr. 10.

Commercial Shearing and Stamping Company, The. (See Cushwa, Charles B., assignor.)
Compton, William H. (See Wallace, F. H., and Compton.)
Condenser Corporation of America. (See Danziger, Harold I., assignor.)
Congoleum-Nairn Inc. (See Sloate, A. C., and Whyte, assignors.)
Conley, John E. (See Marden, J. W., and Conley.)
Conlin, John J., Schenectady, N. Y., assignor to General Electric Company. Purifying metals. 1,665,844; Apr. 10.
Conlon, Thomas A., Silver Spring, Md. Azimuth scale with micrometer mechanism. 1,665,656; Apr. 10.
Connet, Frederick N., assignor to Builders Iron Foundry, Providence, R. I. Thermostatic brake. 1,665,201; Apr. 10.
Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Fuse. 1,665,445; Apr. 10.
Conrad, Nicholas J., Wilmette, assignor to Schweitzer & Conrad, Chicago, Ill. Fuse clip. 1,665,446; Apr. 10.
Conrad William L., Boston, Mass. Processing apparatus. 1,665,624; Apr. 10.
Consolidated Lamp and Glass Company. (See Haley, Reuben, assignor.)
Continental Mills, Inc. (See Brown, Millard D., assignor.)
Conway, George E., Cresskill, N. J. Shingle and shingle construction. 1,665,774; Apr. 10.
Cook, Ancel R., Sacramento, Calif. Rotary type of plow. 1,665,532; Apr. 10.
Cooper, Wellesley B. (See Coyle, J. A., and Cooper.)
Cornell, Elwood N., Hempstead, N. Y., assignor to The Middletown Silver Company, Middletown, Conn. Spoon or similar article. Des. 74,863; Apr. 10.
Cory, Samuel I., Towaco, N. J., assignor to American Telephone and Telegraph Company. Grounded duplex telegraph system. 1,665,296; Apr. 10.
Cory, Samuel I., Towaco, N. J., assignor to American Telephone and Telegraph Company. Grounded duplex telegraph system. 1,665,297; Apr. 10.
Costello, Frank J., assignor to Federal Tin Company, Incorporated. Baltimore, Md. Can and closure. 1,665,908; Apr. 10.
Courtaulds Limited. (See Glover, W. H., and Topham, assignors.)
Coyle, Joseph A., and W. B. Cooper, assignors to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Loom tube frame and spool. 1,665,447; Apr. 10.
Cox, David C., Soldier Summit, Utah, assignor to General Electric Company. Antisludging means for oil. 1,665,846; Apr. 10.
Crabill, John F., La Harpe, Ill. Corn-shucking machine. 1,665,404; Apr. 10.
Crafts, Otis T., assignor to Crafts Process, Inc., Manchester, N. H. Making horseshoe rands. 1,665,579; Apr. 10.
Crafts Process, Inc. (See Crafts, Otis T., assignor.)
Craig, Alvin M., New Haven, Conn., assignor to Universal Gear Shift Corporation, New York, N. Y. Gear shift. 1,665,909; Apr. 10.
Craig, Robert, Dayton, Ohio. Screw press. 1,665,202; Apr. 10.
Crane, Henry M., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Engine. 1,665,298; Apr. 10.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole bracket or similar article. Des. 74,864; Apr. 10.
Crescent Brass Mfg. Co. (See Abrams, Herman, assignor.)
Crouse-Hinds Company. (See Buchanan, Frank, assignor.)
Crystler, Frank M., Belding, Mich. Signal. 1,666,003; Apr. 10.
Culp, Arthur J., Clanton, Ala. Exhaust trap. 1,666,005; Apr. 10.
Cummer, Frederick H., Los Angeles, Calif. Portable asphalt-mixing plant. 1,665,405; Apr. 10.
Cushwa, Charles B., assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio. Pallet and making the same. 1,665,290; Apr. 10.
Dake, Charles W., Chicago, Ill. Gun-cleaning rod. 1,665,257; Apr. 10.
Dake, Charles W., Chicago, Ill. Ball bearing. 1,665,448; Apr. 10.
Dally, Ovid L., Cleveland, Ohio. Aerial vessel. 1,665,533; Apr. 10.
Danckwardt, Paul, La Junta, Colo. Recovering aluminum chloride from sludge. 1,665,406; Apr. 10.
Dane, Ralph H., Portland, Me. Fender-guard plate. 1,665,492; Apr. 10.
Danziger, Harold I., assignor to Condenser Corporation of America, New York, N. Y. Condenser rack. 1,666,044; Apr. 10.
D'Arcy, Frank P., Kalamazoo, Mich. Border-wire construction and attaching clip for same. 1,665,534; Apr. 10.
Davidson, Charles L., New York, N. Y. Soot and sifting ejector for boilers. 1,665,625; Apr. 10.
Davis, Alex B., Cincinnati, Ohio, assignor to A. B. Dick Company, Chicago, Ill. Manufacture of stencil sheets. 1,665,580; Apr. 10.
Davis, Hamilton L., Martinsburg, W. Va., assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. 1,665,255; Apr. 10.
Davis, Patrick H., Leonia, N. J. Pump. 1,665,686; Apr. 10.
Davis, William A., Malden, assignor to Babcock-Davis Corporation, Boston, Mass. Staff and mounting therefor. 1,665,535; Apr. 10.
Davol, George., deceased, San Francisco, Calif., P. C. Katz, administrator. Locomotive. 1,665,910; Apr. 10.
Day, George H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,665,911; Apr. 10.
Day, Thomas, Company. (See Symmes, Whitman, assignor.)
Dayes, Frederick E., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Throttle control for carburetors. 1,665,407; Apr. 10.
Dayton Irrigation Company, The. (See Keys, John H., assignor.)
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
Dean, Arthur L. (See Dean, Winton A. and A. L.)
Dean, Winton A., and A. L., Long Beach, Calif. Milk and cream separator. 1,665,657; Apr. 10.
De Brey, Heinrich W. K., The Hague, Netherlands. Portable cabinet talking machine. 1,666,054; Apr. 10.
Decker, Josef B., Elkton, Md. Firecracker machine. 1,665,300; Apr. 10.
Deems, Edward M., Forest Hills, N. Y. Rail bond. 1,665,347; Apr. 10.
Deere & Company. (See Strandlund, Carl G., assignor.)
De la Haba, Albert, and E. Garcia, Ansonia, Conn. Roll for cane mills, crushers, and the like. 1,666,055; Apr. 10.
Delf, George A., assignor to J. Pavelka, St. Louis, Mo. Die. 1,665,203; Apr. 10.
Denni, Harry, Kansas City, Mo. Grating. 1,665,846; Apr. 10.
Deny, Henry F., Marydel, Md. Motor. 1,665,581; Apr. 10.
Deppé, William P., Brightwaters, and L. L. Summers, deceased, New York, N. Y.; L. L. B. Sommers and A. Young, administrators. Distilling hydrocarbon oils. 1,666,051; Apr. 10.
Derk, Joseph, assignor to The Derk Manufacturing Company, Doylestown, Pa. Pillowcase. Des. 74,865; Apr. 10.
Derk Manufacturing Company, The. (See Derk, Joseph, assignor.)
De Roos, Frank, Springfield, S. Dak. Loading chute. 1,665,493; Apr. 10.
Derrick, William I., assignor to Westco-Chippewa Pump Company, Davenport, Iowa. Pump. 1,665,687; Apr. 10.
Derrick, William I., assignor to Westco-Chippewa Pump Company, Davenport, Iowa. Pump. 1,665,688; Apr. 10.
Derrick, William I., assignor to Westco-Chippewa Pump Company, Davenport, Iowa. Pump. 1,665,689; Apr. 10.
Design Laboratories, Incorporated. (See Wilson, Edwin B., assignor.)
Detroit Steel Products Company. (See Barclay, Gustaf I., assignor.)
De Vries, Andrew, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Head for lighting standards. Des. 74,866; Apr. 10.
Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Machine for setting or applying belt fasteners and the like. Re16,925; Apr. 10.
Dick, A. B., Company. (See Davis, Alex B., assignor.)
Dick, John G., Chinook, Mont. Razor-strop-dressing tool. 1,665,658; Apr. 10.
Dickey, Charles O., et al. (See Hartsock, Frank R., assignor.)
Dickey, Leonard E., et al. (See Hartsock, Frank R., assignor.)
Dierker, William A., Brooklyn, N. Y. Motor-vehicle bumper. 1,665,536; Apr. 10.
Dieter, Paul W., New York, N. Y. Lock nut. 1,665,807; Apr. 10.
Dietz, Charles H., assignor to United States Tent & Awning Company, Chicago, Ill. Awning arm. Des. 74,867; Apr. 10.
Dietz, Charles H., assignor to United States Tent & Awning Company, Chicago, Ill. Awning arm. Des. 74,868; Apr. 10.
Dietz, Charles H., assignor to United States Tent & Awning Company, Chicago, Ill. Awning arm. Des. 74,869; Apr. 10.
Dietz, Charles H., assignor to United States Tent & Awning Company, Chicago, Ill. Awning arm. Des. 74,870; Apr. 10.
Dietz, Charles H., assignor to United States Tent & Awning Company, Chicago, Ill. Awning arm. Des. 74,871; Apr. 10.
Dillon, Wallace M., Washington, D. C. Strainer. 1,665,494; Apr. 10.
Dineson, Hans E., assignor, by mesne assignments, to M. Scholman, Bridgeport, Conn. Electrical water heater. 1,665,348; Apr. 10.
Dinkelspiel, Lawrence, West New York, N. J. Lace trimming for doily or the like. Des. 74,872; Apr. 10.

Dinkelspiel, Lawrence, West New York, N. J. Lace trimming for doily or the like. Des. 74,873; Apr. 10.
Dixson, Harry, assignor to Rolscreen Company, Pella, Iowa. Guide construction for screens. 1,665,775; Apr. 10.
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,665,690; Apr. 10.
Dodge, Milton L., Newburyport, Mass. Method of and machine for attaching counters to turn shoes. 1,665,582; Apr 10.
Dolan, Bernard A., Brookline, assignor to Tuttle Silver Company, Boston, Mass. Fork or similar article. Des. 74,874; Apr. 10.
Dominick & Haff, Inc. (See Hebbard, Harrison, assignor.)
Donaldson Manufacturing Company Limited. (See Hadden, William J., assignor.)
Donisthorpe, Horace S. de A., London, England, assignor to Radio Corporation of America. Thermionic valve. 1,665,626; Apr. 10.
Doran Brothers. (See Kauffmann, Ferdinand E., assignor.)
Dossert, John J., and E. E. Greaves, Syracuse, N. Y., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Cabinet wringer. 1,665,912; Apr. 10.
Dow, Alexander, assignor to Dow Transmission Corporation, New York, N. Y. Variable-speed power transmission. 1,665,408; Apr. 10.
Dow, Alexander, assignor to Dow Transmission Corporation, New York, N. Y. Clutch mechanism. 1,665,409; Apr. 10.
Dow, Richard F., assignor to The Whitney Mfg. Co., Hartford, Conn. Drive chain and links therefor. 1,665,808; Apr. 10.
Dow Transmission Corporation. (See Dow, Alexander, assignor.)
Drake, Harry A., West Nyack, N. Y. Wooden boat or drag. 1,665,449; Apr. 10.
Dreyfus, Ludwig, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Two-voltage direct-current generator. 1,665,691; Apr. 10.
Droitcour, Michael A., Providence, R. I. Sheet-printing press. 1,666,004; Apr. 10.
Dumais, Cleophas, Limoilou, Quebec, Canada. Ski attachment. 1,665,537; Apr. 10.
Duncan, Hartvig H. A., Garden City, N. Y. Ticket holder. 1,666,006; Apr. 10.
Duncan, Joseph S., and H. E. Hubbard, assignors, by mesne assignments, to Addressograph Company, Chicago, Ill. Hand addressing machine. 1,665,583; Apr. 10.
Dunhill, Alfred of London, Inc. (See Wise, F. C., and Greenwood, assignors.)
Dunn Manufacturing Co. (See Dunn, William H., assignor.)
Dunn, William H., assignor to Dunn Manufacturing Co., Chicago, Ill. Cleansing machine. 1,665,809; Apr. 10.
Du Pont, E. I. de Nemours & Company. (See Allen, E. R., and Kaufmann, assignors.)
Durst, Ray O., Richmond, Ind. Air-brake-release valve. 1,665,913; Apr. 10.
Du-Wel Steel Products Co. (See Wescott, Jay V., assignor.)
Dwyer, Edward C., Clymer, and W. O. Dwyer, Berlin, Pa. Electrical heating attachment. 1,665,950; Apr. 10.
Dwyer, William O. (See Dwyer, Edward C. and W. O.)
Eagle Lites, Inc. (See Horowitz, Julius, assignor.)
Eastman Kodak Company. (See Chamberlin, Benjamin D., assignor.)
Eastman Kodak Company. (See Chapman, Albert K., assignor.)
Eastman Kodak Company. (See Jones, L. A., and Richardson, assignors.)
Eastman Kodak Company. (See Mees, Charles E. K., assignor.)
Eastman Kodak Company. (See Tozier, George H., assignor.)
Eastman Kodak Company. (See Ward, Erwin J., assignor.)
Ebel, Frank J., New Orleans, La. Combination mouse and rat trap. 1,665,951; Apr. 10.
Eck, Earl, Minneapolis, Minn. Fish-pole holder and oarlock. 1,665,914; Apr. 10.
Economy Products Corporation. (See Voight, George F., assignor.)
Eddy, Charles F. A., New London, Conn. Signal system and direction indicator for automobiles. 1,665,584; Apr. 10.
Edelman, Philip E., Chicago, Ill. Radio receiving system. 1,665,847; Apr. 10.
Eggers, William H., Brooklyn, N. Y. Radio tube socket. 1,665,876; Apr. 10.
Ekman, Albert C., Minneapolis, Minn. Pipe-swaging device. 1,665,915; Apr. 10.
Ekstein, Joseph, New York, N. Y. Wheeled toy. Des. 74,875; Apr. 10.
Electric Manufacturing Company. (See Levy, Henri G.)
Elliott-Fisher Company. (See Lentz, Lawrence E., assignor.)
Ellis, Raymond G., Snoqualmie, Wash. Vehicle brake. 1,665,538; Apr. 10.
Ensign Carburetor Company. (See Ensign, Orville H., assignor.)
Ensign, Henry B. (See Clade, R., and Ensign.)
Ensign, Orville H., Pasadena, assignor to Ensign Carburetor Company, Los Angeles, Calif. Variable-discharge pump. 1,665,692; Apr. 10.
Epps, Carl, assignor to Climax Hosiery Mills, Athens, Ga. Reverse-plaiting knitting machine. 1,666,056; Apr. 10.
Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 74,876; Apr. 10.
Esch, Max W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making laminated annular articles. 1,665,585; Apr. 10.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overhead welding. 1,665,916; Apr. 10.
Escole, Paul J. M., Jeumont, France. Smoothing and polishing glass or the like. 1,665,776; Apr. 10.
Esworthy, Joseph W., Binghamton, assignor to Beech-Nut Company, Canajoharie, N. Y. Vending-machine casing. Des. 74,877; Apr. 10.
Evans, Robert D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,665,917; Apr. 10.
Evans, Robert D., and H. K. Sels, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Compensated voltage-regulator system. 1,665,918; Apr. 10.
Evans, Samuel J., Princeton, W. Va. Air-brake valve. 1,665,586; Apr. 10.
Evans, William, Piedmont, Calif. Incense burner. 1,665,659; Apr. 10.
Evershed & Vignoles Limited. (See Needham, John C., assignor.)
Fabian, Charles, assignor to Ross Gould Limited, Auckland, New Zealand. Finishing system. 1,665,777; Apr. 10.
Falls, William A., assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring structure. 1,665,539; Apr. 10.
Federal Manufacturing Company. (See Olinger, Thomas, assignor.)
Federal Tin Company. (See Costello, Frank J., assignor.)
Feeney, George, and T. O'Connor, assignors of one-tenth to T. O'Brien, Columbus, Ohio. Automatic lock. 1,665,952; Apr. 10.
Feigelman, Herman A., Paterson, N. J. Desk accessory. Des. 74,878; Apr. 10.
Fernald, Charles H., Malden, Mass. Clamp. 1,665,877; Apr. 10.
Finkelstein, Max. (See Rose, Frederick A., assignor.)
Fisher, Elbert E., assignor of one-half to G. W. Batchell, Toledo, Ohio. Glass and its manufacture. 1,665,693; Apr. 10.
Fisher, Elbert E., assignor of one-half to G. W. Batchell, Toledo, Ohio. Glass and its manufacture. 1,665,694; Apr. 10.
Flintkote Company, The. (See Heppes, Otto A., assignor.)
Folberth, Frederick G., and W. M. Folberth, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,665,204; Apr. 10.
Folberth, William M. (See Folberth, F. G. and W. M.)
Foote, Austin A., et al. (See Bechthold, John, assignor.)
Forbes, Thomas C., Hopkins, assignor to Waters-Genter Co., Minneapolis, Minn. Bread toaster. 1,665,735; Apr. 10.
Ford, Henry, Dearborn, Mich. Brake equalizer. 1,665,258; Apr. 10.
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Curling iron. 1,665,919; Apr. 10.
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Combination coal and electric range. 1,665,920; Apr. 10.
Forward, Walter L. (See Hollander, A., and Forward.)
Foster, Leon V., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projection apparatus. 1,665,660; Apr. 10.
Foster, Thomas J., Ridgewood, N. J. Floor construction. 1,666,061; Apr. 10.
Foster Wheeler Corporation. (See Bell, John E., assignor.)
Foster, William J., Jersey City, N. J. Shade-cord holder. 1,665,953; Apr. 10.
Fox, Cecil M., Toledo, Ohio, assignor to The Rollaway Motor Company. Projection apparatus. 1,665,410; Apr. 10.
Fox, Tom, Spalding, Nebr. Harrow-disk sharpener. 1,665,954; Apr. 10.
Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
Franklin Railway Supply Company. (See Vincent, Harry S., assignor.)

Frease, Hurxthal F., Canton, Ohio. Tubular frame structure. 1,665,921; Apr. 10.
Fredrickson, Axel E., Ferndale, Mich. Combination roaster and mixer. 1,665,778; Apr. 10.
Freeman, Edgar H., assignor to Circle F Mfg. Co., Trenton, N. J. Electric socket. 1,665,495; Apr. 10.
Freeman, Edgar H., Trenton, assignor, by mesne assignments, to Circle F Mfg. Co., Trenton, N. J. Adjustable candelabrum socket. 1,665,779; Apr. 10.
Fried. Krupp Germaniawerft Aktiengesellschaft. (See Hopf, Wilhelm, assignor.)
Galloway, Robert M., and P. C. Burton, assignors to The National Automatic Tool Company, Richmond, Ind. Drilling machine. 1,665,411; Apr. 10.
Gammeter, John R. (See Hosterman, Harry L., assignor.)
Gammeter, John R. (See Young, Harvey L., assignor.)
Gammeter, John R., and C. C. Cadden, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Precision adjustment device. 1,665,848; Apr. 10.
Ganny, Louis C., and H. Goldberg, assignors of one-sixth to T. J. Mayock, and one-sixth to J. M. Stack, Wilkes-Barre, and one-sixth to M. Mayock, Miners Mills, Pa. Holding device. 1,666,045; Apr. 10.
Garber, Harvey A., Milwaukee, Wis. Composition shingle. 1,665,450; Apr. 10.
Garcia, Arasmo. (See de la Haba, A., and Garcia.)
Garnsey, Leigh G., Redlands, Calif. Radiator shutter. 1,665,695; Apr. 10.
Gaspari, Joseph, New York, N. Y. Eyeglasses. Des. 74,879; Apr. 10.
Gates, Leroy G., Bakersfield, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Apparatus for lubricating wire cables. 1,665,451; Apr. 10.
Gatewood, Ando Z., Temple, Okla. Knife structure. 1,665,955; Apr. 10.
Gem Clay Forming Company, The. (See Greene, Raymond J., assignor.)
General Electric Company. (See Brown, George R., assignor.)
General Electric Company. (See Byrnes, Irving F., assignor.)
General Electric Company. (See Conlin, John J., assignor.)
General Electric Company. (See Cox, David C., assignor.)
General Electric Company. (See Herklotz, Max, assignor.)
General Electric Company. (See Kellogg, Edward W., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Ruggles, William A., assignor.)
General Electric Company. (See Standerwick, Reginald G., assignor.)
General Electric Company. (See Weed, James M., assignor.)
General Electric Company. (See Wood, James J., assignor.)
General Motors Corporation. (See Anderson, H. S., and Brown, assignors.)
General Motors Corporation. (See Beringer, Roscoe, assignor.)
General Motors Corporation. (See Crane, Henry, M., assignor.)
General Motors Corporation. (See Taylor, Paul B., assignor.)
General Motors Research Corporation. (See Kettering, Charles F., assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
Gersman, Harvey M., Buffalo, and W. H. Klocks, New York, N. Y., assignors to Kalman Steel Company, Inc., Chicago, Ill. Slitting roll of machines for forming expanded metal. 1,665,349; Apr. 10.
Gerth, Felix, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Modulating system. 1,665,350; Apr. 10.
Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Lock, Michael, assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Korshenewski, Nicolai, assignor.)
Getz, Alphie E., Peoria, Ill. Cooling brickwork of furnaces. 1,665,205; Apr. 10.
Getz, Benjamin E., Morton, assignor, by mesne assignments, of one-half to Getz Power Washer Co., Morton, Ill., and one-half to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Washing machine. 1,665,922; Apr. 10.
Getz Power Washer Co. et al. (See Getz, Benjamin E., assignor.)
Giangrasso, Salvatore, Portland, Me. Fire alarm. 1,665,956; Apr. 10.
Gibbs, Benjamin. (See Morton, Joseph A., assignor.)
Gibbs, Frederick H., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Seat frame. 1,665,351; Apr. 10.
Gibbs, Frederick H., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Seat back. 1,665,352; Apr. 10.
Gilbert, A. C., Company. (See Noble, Kenneth B., assignor.)
Gilchrist, William A., New York, N. Y. Steam-boiler furnace. 1,665,923; Apr. 10.
Gill, Hargraves. (See Richard, E. C., and Gill.)
Gillick, Lawrence H., St. Paul, Minn., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Flexible joint. 1,665,810; Apr. 10.
Gillmor, Horatio G., Washington, D. C. Anticreeper. 1,665,696; Apr. 10.
Glaser, Joseph P., L. F. Julien, and H. W. Whitten, assignors to Chamberlin Metal Weather Strip Co., Detroit, Mich. Sash stop and pulley guard. 1,665,697; Apr. 10.
Glässel, Karl, Cannstatt, Germany. Regulating device for refrigerating machines. 1,665,878; Apr. 10.
Glessale, Albert E., Syracuse, N. Y. Fish grapple. 1,665,661; Apr. 10.
Glisky, Frank J., Pontiac, Mich. Colter-wheel structure. 1,665,957; Apr. 10.
Glove Corporation, The. (See Sturm, Frank X., assignor.)
Glover, Walter H., Leamington, and C. F. Topham, Coventry, assignors to Courtaulds Limited, London, England. Production of artificial silk. 1,665,958; Apr. 10.
Godkin, Cecil E., Hayward, Calif. Electromagnetic detecting device. 1,665,662; Apr. 10.
Goertz, August, & Co. (See Goertz, F., and Rothe, assignors.)
Goertz, Frederick, and W. C. Rothe, Newark, N. J., assignors to August Goertz & Co. Combination holder and guard for tools. 1,665,256; Apr. 10.
Going, George G., Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company. Typewriting machine. 1,665,736; Apr. 10.
Goldberg, Harry. (See Ganny, L. C., and Goldberg.)
Goldberg, Max W., assignor to Modern Pouring Device Co., Port Washington, Wis. Pouring and lifting device. 1,665,452; Apr. 10.
Goodrich, B. F., Company, The. (See Esch, Max W., assignor.)
Goodrich, B. F., Company, The. (See Gammeter, J. R., and Cadden, assignors.)
Goodrich, B. F., Company, The. (See Legullion, Charles W., assignor.)
Goodyear Tire & Rubber Company, The. (See Hale, James E., assignor.)
Goodyear Tire & Rubber Company, The. (See Lind, Frederick A., assignor.)
Goodyear Tire & Rubber Company, The. (See Maas, Elov F., assignor.)
Goodyear Tire & Rubber Company, The. (See Templeton, Edwin G., assignor.)
Goodyear Tire & Rubber Company, The. (See Templin, Ellis W., assignor.)
Goodyear Tire & Rubber Company, The. (See Wetmore, Laurence, assignor.)
Goodyear Tire & Rubber Company, The. (See Williams, Dayton L., assignor.)
Gorton, William S., London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-current transmission. 1,665,698; Apr. 10.
Gough, James J., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Automatic switching-cord reel. 1,665,737; Apr. 10.
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Gould Storage Battery Company. (See Gould, W. S., and Osborne, assignors.)
Gould, William S., New York, and W. B. Osborne, Elma, assignors to Gould Storage Battery Company, Inc., New York, N. Y. Separator and making the same. 1,666,007; Apr. 10.
Graef, Ernest W., Caldwell, N. J. Amplifier. 1,665,699; Apr. 10.
Graffenberger, Friedrich, assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Cup-dispensing machine. 1,666,008; Apr. 10.
Graham, George C., Watertown, and R. S. Robe, Boston, Mass. Washing machine. 1,665,959; Apr. 10.
Grasselli Chemical Company, The. (See Tanner, Wellington L., assignor.)
Graves, Scott S., San Diego, Calif. Egg beater. 1,665,879; Apr. 10.
Greaves, Edwin E. (See Dossert, J. J., and Greaves.)
Green, Henry M., deceased, Los Angeles, Calif.; Pacific Southwest Trust & Savings Bank, administrator, assignor to C. M. O'Leary. Gas extractor for pumps. 1,665,540. Apr. 10.
Greenberg, Morris, Jersey City, N. J. Trunk handle. 1,665,353; Apr. 10.
Greene, Raymond J., assignor to The Gem Clay Forming Company, Sebring, Ohio. Ornamented surface and forming the same. 1,665,354; Apr. 10.
Greenwood, Willey. (See Wise, F. C., and Greenwood.)
Greve, Edgar E., Bellevue, Pa. Sucker-rod elevator. 1,665,259; Apr. 10.
Griffin, Joseph F., Teaneck, N. J., assignor to The Superheater Company, New York, N. Y. Exhaust-steam injector. 1,665,587; Apr. 10.
Griffis, John C., assignor to Pacific Pipe and Supply Company, Los Angeles, Calif. Lavatory. Des. 74,880; Apr. 10.
Grip Bow Tie Company. (See Miller, George R., assignor.)

Grissinger, Elwood, Buffalo, N. Y. Sound-projecting apparatus. 1,666,057; Apr. 10.
Grissinger, Elwood, Buffalo, N. Y. Sound projector. 1,666,058; Apr. 10.
Grissinger, Elwood, Buffalo, N. Y. Sound projector. 1,666,059; Apr. 10.
Grunert, Kurt, Turin, Italy. Producing artificial-silk filaments by drawing. 1,665,453; Apr. 10.
Grunn, Albert P., Chicago, Ill. Mixing apparatus. 1,665,260; Apr. 10.
Gschwindt, Adam, assignor to Roseland Can & Wire Goods Co., Rockford, Ill. Flour sifter. 1,665,454; Apr. 10.
Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Preparing alkyl ethers of 3'-nitro 4'-hydroxy ortho-benzoyl benzoic acid. 1,665,541; Apr. 10.
Guest, Alfred W. F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,665,261; Apr. 10.
Gulf Refining Company. (See Buerger, Charles B., assignor.)
Gustafson, Axel T., Gottenborg, Sweden. Producing articles from rubber and other thermoplastic substances. 1,665,355; Apr. 10.
Guy, Henry L., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Heater. 1,665,356; Apr. 10.
Gysi, Alfred, Zurich, Switzerland. Artificial molar tooth and making same. 1,665,357; Apr. 10.
Haas, Ferdinand G., St. Paul, Minn. Berry box. 1,665,359; Apr. 10.
Haberlin, John F., assignor to Boeing Airplane Company, Seattle, Wash. Tail-skid shoe for airplanes. 1,665,849; Apr. 10.
Hadden, William J., assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Golf club. 1,665,811; Apr. 10.
Hake, Elmer C., Cincinnati, Ohio, assignor to The Ludlow Manufacturing Company, Ludlow, Ky. Moistener for cigar boxes. 1,665,663; Apr. 10.
Haldeman, Walter S., Chicago, Ill., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Concrete-floor core. 1,665,542; Apr. 10.
Hale, James E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vehicle wheel. 1,665,880; Apr. 10.
Haley, Reuben, Beaver, assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa. Plate. Des. 74,881; Apr. 10.
Haley, Reuben, Beaver, assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa. Vase. Des. 74,882; Apr. 10.
Haley, Reuben, Beaver, assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa. Bottle. Des. 74,883; Apr. 10.
Hall, Earl K. (See Buckert, H. A., and Hall.)
Hall, Elbert J., and A. G. Hawkes, Detroit, Mich., assignors to American Car and Foundry Motors Company, New York, N. Y. Baggage rack for motor vehicles. 1,665,358; Apr. 10.
Hall, Frederick J. T., Akron, Ohio. Combined alarm clock and lamp. 1,665,412; Apr. 10.
Hamburger, Herman, Santa Paula, Calif. Attachment for bumpers. 1,665,780; Apr. 10.
Hamilton, Cliff S., Lincoln, Nebr., assignor, by mesne assignments, to Parke, Davis & Company, Detroit, Mich. Arsenical compound. 1,665,781; Apr. 10.
Hamilton, E. A. (See Spidel, Arthur S., assignor.)
Handelan, Daniel, Minneapolis, Minn. Humidifying device. 1,665,455; Apr. 10.
Haney, Martin O., Iola, Kans. Tire boot. 1,666,009; Apr. 10.
Hanna, Henry C., Marietta, Ohio. Combination metal bracket. 1,665,782; Apr. 10.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Guide for broaching tools. 1,665,496; Apr. 10.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,665,497; Apr. 10.
Hansson, Andrew, Brooklyn, N. Y. Ice tray. 1,665,456; Apr. 10.
Hargreaves, William, West Didsbury, Manchester, assignor of one-half to R. L. Ross and Company Limited, Stockport, England. Safety valve. 1,665,850; Apr. 10.
Harris, Joseph W., Washington, D. C. Electric butt-welded tubing and making the same. 1,665,851; Apr. 10.
Harshaw, Fuller & Goodwin Company, The. (See Harshaw, W. J., and Parke, assignors.)
Harshaw, William J., Shaker Heights Village, and C. S. Parke, assignors to The Harshaw Fuller & Goodwin Company, Cleveland Ohio. Making hydrofluoric acid. 1,665,588; Apr. 10.
Hart, Simeon T. (See Braun, P. N., and Hart.)
Hartmann, Otto H., assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshohe, Germany. Traveling plant for the generation of high-pressure steam. 1,665,543; Apr. 10.
Hartmann Trunk Company. (See Ritter, J., jr., and Rasmussen, assignors.)
Hartsock Frank R., assignor of one-third to C. O. Dickey and one-third to L. E. Dickey, Warsaw, Ind. Wheel-pitch gauge. 1,665,544; Apr. 10.
Hartwell, Leslie L., Winchester, Mass. Sanding, scouring, and buffing machine. 1,665,589; Apr. 10.
Haseman, Charles T., Mill City, Oreg. Pulley block and method of operating pulley blocks in sky-line systems. 1,665,545; Apr. 10.
Hasler A.-G. vormals Telegraphenwerkstätte von G. Hasler. (See Kohler, Ulrich, assignor.)
Hatch, Francis E., Denver, Colo. Electric furnace for treating ores, shales, etc. 1,665,546; Apr. 10.
Hawadler, Jacques A. M., Paris, France. Valve for wireless telegraphy or telephony. 1,666,010; Apr. 10.
Hawkes, Arthur G. (See Hall, E. J., and Hawkes.)
Hawley, Charles G., Cleveland, Ohio. Reenforcement for welded seams. 1,665,360; Apr. 10.
Hazel, Clayton E., and H. C. Montgomery, Joplin, Mo.; said Montgomery assignor to said Hazel. Attachment for well-drilling apparatus. 1,665,547; Apr. 10.
Head, Percy H., Attenborough, England. Manufacture of strengthened glass. 1,665,413; Apr. 10.
Hebbard, Harrison, East Orange, assignor to Dominick & Haff, Inc., Newark, N. J. Spoon or similar article. Des. 74,884; Apr. 10.
Heidephain, Heinrich, Wenatchee, Wash. Drying fruits. 1,665,627; Apr. 10.
Heilmann, Carl A., Skjelskor, Denmark. Boll-weevil destroyer. 1,665,960; Apr. 10.
Hencken, John K., Brooklyn, N. Y. Centrifugal casting machine. 1,665,700; Apr. 10.
Hendee, Lem E., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Dead-end bracket. 1,665,498; Apr. 10.
Henry, Robert E., Pittsburgh, Pa. Protective covering for bathtubs and utilizing the same. 1,665,206; Apr. 10.
Heppes, Otto A., La Grange, Ill., assignor to The Flintkote Company, Boston, Mass. Roofing. 1,666,046; Apr. 10.
Hercules Powder Company. (See Ayer, William T., assignor.)
Herklotz, Max, Berlin, Germany, assignor to General Electric Company. Regulating system. 1,665,852; Apr. 10.
Hicks, John, Somerville, N. J. Heater. 1,665,924; Apr. 10.
Hillyard, Newton S., St. Joseph, Mo. Liquid-dispensing device. 1,665,925; Apr. 10.
Hindmarsh, Camille, et al., executrices. (See Becker, Edmund.)
Hirschy Company, The. (See Hirschy, Herman C., assignor.)
Hirschy Company, The. (See Hirschy, H. C., and Hitchcock, assignors.)
Hirschy, Herman C., assignor to The Hirschy Company, Duluth, Minn. Washing machine. 1,665,262; Apr. 10.
Hirschy, Herman C., Duluth, and R. C. Hitchcock, Minneapolis, assignors to The Hirschy Company, Duluth, Minn. Wringer-control mechanism. 1,665,263; Apr. 10.
Hirtz, Isidore, and V. Oliveri, New York, N. Y. Umbrella and cane rack. 1,665,590; Apr. 10.
Hitchcock, Ralph C. (See Hirschy, H. C., and Hitchcock.)
Hoague-Sprague Corporation. (See Smith, Harry B., assignor.)
Hobart Manufacturing Company, The. (See Johnston, H. L., and Akers, assignors.)
Hobbs Manufacturing Company. (See Lenston, Charles S., assignor.)
Hoch, Ellery T., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. System of grouping units. 1,665,499; Apr. 10.
Hodge, George O., Bristol, Conn. Machine for forming balls. 1,665,361; Apr. 10.
Hoegger, Joseph A., Jersey City, N. J. Holder for paper rolls. 1,665,788; Apr. 10.
Hoegger, Joseph A., Jersey City, N. J. Paper holder. 1,665,739; Apr. 10.
Hoevel, Herman F. (See Menne, Fritz, assignor.)
Hoff, Edward A., and W. C. Sanford, La Oroya, Peru. Wardrobe trunk. 1,666,011; Apr. 10.
Hoffman, Benjamin P., assignor to The Pierce Development Company, Tulsa, Okla. Passing or back-up tongs. 1,665,301; Apr. 10.
Hofmann, Victor E., and L. D. Soubier, assignors to The Owens Bottle Company, Toledo, Ohio. Glass feeder. 1,665,362; Apr. 10.
Holcomb, Alpheus E., assignor to Koehring Company, Milwaukee, Wis. Multiplane traction device. 1,665,802; Apr. 10.
Holdaway, Hall H., Sawtelle, Calif. Rotary disk drill. 1,665,457; Apr. 10.
Holdener, Simon, Wolfhausen, assignor to B. Kienast, Schlossberg, Switzerland. Transmission gear. 1,665,701; Apr. 10.
Hollander, Aladar, assignor to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Acid pump. 1,665,458; Apr. 10.
Hollander, Aladar, Berkeley, and W. L. Forward, Oakland, assignors to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Pump-packing means. 1,665,459; Apr. 10.

Hollander, Aladar, Berkeley, and W. L. Forward, Oakland, assignors to Byron Jackson Pump Mfg. Co., Berkeley, Calif. Priming means. 1,665,460; Apr. 10.

Holmes Electric Protective Company. (See Roe, William C., assignor.)

Holmes, Harry N., and J. A. Anderson, Oberlin, Ohio. Silica gels and making the same. 1,665,264; Apr. 10.

Holmes, Henry S., New York, assignor to T. E. Murray, Brooklyn, N. Y. Welding tubes to plates or cylinders. 1,665,461; Apr. 10.

Hombrecher, Albert, Barmen-Langerfeld, Germany. Spool carrier for plaiting, knot-work, bobbin, and lace-making machines. 1,665,783; Apr 10.

Hooker, Duncan C., Farmington, Conn. Device for cleaning firearms. 1,665,961; Apr. 10.

Hopf, Wilhelm, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Water-tube boiler. 1,665,664; Apr. 10.

Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,665,363; Apr. 10.

Horihata, Kenji, New York, N. Y. Window cleaner. 1,666,060; Apr. 10.

Hornauer, Willy, Neukolln, assignor to Vox Maschinen-Aktiengesellschaft, Berlin, Germany. Electromagnetic talking machine. 1,665,784; Apr. 10.

Horowitz, Julius, assignor to Eagle Lites, Inc., New York, N. Y. Bracket plate for lighting fixtures or analogous articles. Des. 74,885; Apr. 10.

Hosterman, Harry L., assignor to John R. Gammeter, Akron, Ohio. Ignition timer and distributor. 1,665,265; Apr. 10.

Howard, Marshall, assignor to Woods Brothers Construction Co., Lincoln, Nebr. Piling. 1,665,462; Apr. 10.

Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Driving mechanism. 1,665,463; Apr. 10.

Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Photographic-film reel and manufacturing the same. 1,665,207; Apr. 10.

Hubbard, Henry E. (See Duncan, J. S., and Hubbard.)

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Pipe joint. 1,665,208; Apr. 10.

Hull, John E., Providence, R. I. Wrench for vertical twister travelers. 1,665,926; Apr. 10.

Humphrey, Clen S., Brooklyn, N. Y. Cooking, freezing, and storing receptacles. 1,666,012; Apr. 10.

Hunt, Francis H., and F. N. Ropp, assignors, by mesne assignments, to Raymond Concrete Pile Company, Los Angeles, Calif. Apparatus for forming molds for columns with bases. 1,665,365; Apr. 10.

Hunt, John O., assignor to Independent Paper Mills, Inc., Brooklyn, N. Y. Towel dispenser. 1,665,628; Apr. 10.

Hunter, William N., Blanchester, Ohio. Fastener. 1,665,303; Apr. 10.

Hurster, William, Richmond Hill, N. Y., assignor to The Ovalite Company, Incorporated. Lamp base or article of similar nature. Des. 74,886; Apr. 10.

Huston, Charles L., Coatesville, Pa. Transfer system for heavy metal plates. 1,665,209; Apr. 10.

Huston, Thomas S., Denver, Colo. Collapsible crate. 1,665,266; Apr. 10.

Huth, Milo E., Alliance, Ohio. Amusement device. 1,665,364; Apr. 10.

Hutzenlaub, Eugen, Stuttgart-Gaisburg, assignor to the firm Paul Lechler, Stuttgart, Germany. Bituminous product and making same. 1,665,881; Apr. 10.

Ilich, Amson G., New York, N. Y. Mechanism for attaching window fixtures. 1,665,785; Apr. 10.

Independent Paper Mills, Inc. (See Hunt, John O., assignor.)

Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)

Ingersoll-Rand Company. (See Lear, Earl B., assignor.)

Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)

Ingraham, Charles C., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn. Disk separator. 1,665,548; Apr. 10.

Ingraham, Charles C., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn. Pocketed separating disk. 1,665,549; Apr. 10.

International Motor Company. (See Atkins, Earl F., assignor.)

Interwoven Mills, Inc., The. (See Davis, Hamilton L., assignor.)

Irish, David J. (See Strachan, C., and Irish.)

Irish, David J., West New Brighton, assignor to Morse Dry Dock & Repair Co., New York, N. Y. Furnace front. 1,665,786; Apr. 10.

Iwadare, Toru, Tokyo, Japan. Manufacturing a new syphilis remedy from dihydroxy-diamino-arseno-benzene-monomethylene sulphonic acid. 1,665,787; Apr. 10.

Jackson, Byron, Pump Mfg. Co. (See Hollander, Aladar, assignor.)

Jackson, Byron, Pump Mfg. Co. (See Hollander, A., and Forward, assignors.)

Jackson, William H., Douglaston, N. Y. Sterilizing bearings for shafting. 1,666,013; Apr. 10.

Jacobsohn, Isadore M., Chicago, Ill., and S. Truscott, Birmingham, Ohio. Aircraft covering. 1,665,500; Apr. 10.

Jahnke, Kurt, Ludwigsburg, Germany. Producing a hard low-temperature coke. 1,665,665; Apr. 10.

James, Sidney V., Niagara Falls, N. Y., assignor to Sheets-Rockford Silver Company, Rockford, Ill. Spoon or similar article. Des. 74,887; Apr. 10.

Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Amplifying repeater. 1,665,501; Apr. 10.

Jannette, John T., Chicago, Ill. Contact holder. 1,665,550; Apr. 10.

Jarvis, Frank J. (See Jarvis, Nelson L. and F. J.)

Jarvis & Jarvis, Inc. (See Jarvis, Nelson L. and F. J., assignors.)

Jarvis, Nelson L. and F. J., assignors to Jarvis & Jarvis, Inc., Palmer, Mass. Caster. 1,665,882; Apr. 10.

Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)

Jeffries, Zay, Shaker Heights, assignor to The Cleveland Trust Company, trustee, Cleveland, Ohio. Magnetic sound-reproducing device. 1,665,740; Apr. 10.

Jehle, Ferdinand, Cleveland Heights, assignor to The White Motor Company, Cleveland, Ohio. Lubrication system for internal-combustion engines. 1,665,366; Apr. 10.

Jenner, Charles W., New Westminster, British Columbia, Canada. Storage-battery plate and producing same. 1,665,962; Apr. 10.

Jernberg, Axel V., Tidaholm, Sweden. Producing artificial fogs. 1,665,267; Apr. 10.

Johnson, George T., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Six-wheel car-truck construction. 1,665,414; Apr. 10.

Johnson, Lawrence E., Melrose, assignor of one-half to Boston Machine Works Company, Lynn, Mass. Water heater. 1,665,210; Apr. 10.

Johnson, Matts, assignor of one-fourth to N. P. Nelson, and one-fourth to O. Carlson, Spokane, Wash. Baking oven. 1,665,551; Apr. 10.

Johnson, William S., and J. W. Sheffer, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y. Electric heater. 1,665,367; Apr. 10.

Johnston, Herbert L., and M. K. Akers, assignors to The Hobart Manufacturing Company, Troy, Ohio. Short-circuiting device for electric motors. 1,665,304; Apr. 10.

Jones, John, Wilkes-Barre, Pa. Arch-supporting shoe. 1,665,741; Apr. 10.

Jones, John J., Ridley Park, Pa. Hose or pipe coupling. 1,665,812; Apr. 10.

Jones & Laughlin Steel Corporation. (See Rendleman, Norman C., assignor.)

Jones, Loyd A., and E. E. Richardson, assignors to Eastman Kodak Company, Rochester, N. Y. Projection system. 1,666,047; Apr. 10.

Joseph, Fred C., New York, N. Y. Jewelry setting. Des. 74,888; Apr. 10.

Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Tank-car-dome closure. 1,665,368; Apr. 10.

Joy, Robert W., Brooklyn, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Car-tank closure. 1,665,369; Apr. 10.

Julien, Louis F. (See Glaser, J. P., Julien, and Whitten.)

Junghans, Oskar, deceased, Schramberg, Germany; S. Junghans, administrator. Percussion fuse. 1,665,666; Apr. 10.

Junghans, Siegfried, administrator. (See Junghans, Oskar.)

Kalman Steel Company. (See Gersman, H. M., and Klocke, assignors.)

Kane Boiler Works. (See Kane, Joseph J., assignor.)

Kane, Joseph J., assignor to Kane Boiler Works, Galveston, Tex. Land-dredging pipe and manufacture thereof. 1,665,591; Apr. 10.

Karmazin, John, Detroit, Mich. Positive stock-feed stop. 1,665,813; Apr. 10.

Katz, Phil C., administrator. (See Kavol, George K.)

Kauffmann, Ferdinand E., Rahway, N. J., assignor to Doran Brothers, Danbury, Conn. Hat-clipping machine. Re16,928; Apr. 10.

Kaufmann, Wilford E. (See Allen, E. R., and Kaufmann.)

Kawneer Company, The. (See Plym, Francis J., assignor.)

Keboe, Michael, Tucson, Ariz. Parking-brake attachment for motor vehicles. 1,665,415; Apr. 10.

Kehrer, Bertram F., and E. H. Brett, Seattle, Wash. Window-frame construction. 1,665,702; Apr. 10.

Kell, George, Louisville, Ohio. Wheel puller. 1,665,552; Apr. 10.

Kellogg Corset Company. (See Kellogg, Douglas C., assignor.)

Kellogg, Douglas C., assignor to Kellogg Corset Company, Jackson, Mich. Abdominal support. 1,665,502; Apr. 10.

Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Power-amplifying system. 1,665,883; Apr. 10.

Kellogg Switchboard and Supply Company. (See Stazak, Michael B., assignor.)

Kelly, William M., Westfield, N. J. Drop guide. 1,665,305; Apr. 10.

Kendall, Ira H., assignor to The Kendall Patents, Inc., Potsdam, N. Y. Can-washing machine. 1,665,927; Apr. 10.

Kendall Patents, Inc., The. (See Kendall, Ira H., assignor.)

Kennedy, Aubrey M., New York, N. Y. Sound-neutralizing ventilator. 1,665,211; Apr. 10.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Germany. Typographical machine. 1,665,268; Apr. 10.

Kennedy, James W., Canton, Ohio. Crossing signal. 1,665,592; Apr. 10.

Kennington, William O., London, England. Brake mechanism operated by suction. 1,665,306; Apr. 10.

Kernes, James, assignor to Kernes Manufacturing Co., Chicago, Ill. Portable electric lamp. 1,665,703; Apr. 10.

Kernes, James, assignor to Kernes Manufacturing Co., Chicago, Ill. Rod for curtains, draperies, and the like. 1,665,704; Apr. 10.

Kernes Manufacturing Co. (See Kernes, James, assignor.)

Kershner, John H., Norton, Kans. Grinder cutter. 1,666,014; Apr. 10.

Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Cooling system for internal-combustion engines. 1,665,307; Apr. 10.

Key, Claude L., Milton, Oreg. Weeder. 1,665,464; Apr. 10.

Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Refrigerating apparatus. 1,665,370; Apr. 10.

Keys, John H., assignor to The Dayton Irrigation Company, Dayton, Ohio. Sprinkler. 1,665,371; Apr. 10.

Kienast, Benjamin. (See Holdener, Simon, assignor.)

Kiernan, John. (See Thomas, Edwin E., assignor.)

Kingston, Frederick S., assignor to The Sunlight Electrical Manufacturing Company, Warren, Ohio. Induction motor. 1,665,742; Apr. 10.

Klages, George W. (See Stroh, W. Y., and Klages.)

Klein, Joseph W., Los Angeles, Calif. Chromatic scale and solo-note-selecting device for organs and pianos. 1,665,593; Apr. 10.

Kline, Fred J., New York, N. Y. Paper-filing device. 1,665,705; Apr. 10.

Klinger, James D., and C. L. Boyle, Detroit, Mich. Preparation for cleaning metal preparatory to painting. 1,665,465; Apr. 10.

Klocke, William H. (See Gersman, H. M., and Klocke.)

Knapp, Charles N. F., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air-brake mechanism. 1,665,928; Apr. 10.

Knapp, Merritt A., Rosalia, Wash. Hydraulic transmission mechanism. 1,665,743; Apr. 10.

Knappe, Paul A., Santa Rosa, Calif. Hammock. 1,665,553; Apr. 10.

Knight Company, The. (See Ramazzotti, Daniel V., assignor.)

Koch, William F., Camden, N. J. Music-roll tab. 1,665,963; Apr. 10.

Koehler, Marcel, Paris, France. Lubricating system. 1,665,964; Apr. 10.

Koehring Company. (See Holcomb, Alpheus E., assignor.)

Koehring Company. (See Lichtenberg, E. H., and Webb, assignors.)

Koehring Company. (See Robb, John F., assignor.)

Koehring Company. (See Webb, George E., assignor.)

Koenig, Elwin O., and G. W. Brautigam, Philadelphia, Pa. Air pump. 1,665,965; Apr. 10.

Kohler, Ulrich, assignor to Hasler A.-G. vormals Telegraphenwerkstätte von G. Hasler, Bern, Switzerland. Inking mechanism of machines for franking postal matter and the like. 1,665,884; Apr. 10.

Kolb, George F., Fairfield, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Clutch. 1,665,554; Apr. 10.

Kolmeier, Walter. (See Pfeil, W., and Kolmeier.)

Koufman, Abraham. (See Lichten, A. S., Koufman, and Shulik.)

Kretschmer, Henry A., La Grange Park, Ill. Combination container and picture frame. Des. 74,889; Apr. 10.

Kristofek, Frank J., and W. F. Benson, assignors to Brown & Bigelow, St. Paul, Minn. Engine-turning machine. 1,665,372; Apr. 10.

Kroder, John, and Henry Reubal Company, The. (See Crawford, James O., assignor.)

Krum, Howard L., assignor, by mesne assignments, to Morkum-Kleinschmidt Corporation, Chicago, Ill. Telegraph printer. 1,665,594; Apr. 10.

Kupka, Johann, Vienna, Austria. Locomotive-valve gear. 1,665,966; Apr. 10.

Küsters, Wilhelm, Aachen, Germany. Liquid-level indicator. 1,665,667; Apr. 10.

Lamb, Frank H., Hoquiam, Wash. Conveyer flight. 1,665,373; Apr. 10.

La Mont, Charles T., Milwaukee, Wis. Stocking marker. 1,665,706; Apr. 10.

Lamotke, Frederick, Teaneck, assignor of one-half to W. H. Wettlaufer, Englewood, N. J. Fuel economizer. 1,665,630; Apr. 10.

La Motte, Charles H., Sound Porcupine, Ontario, Canada. Pipe cutter. 1,665,212; Apr. 10.

Land, George W., Vancouver, Wash. Tank-cleaning apparatus. 1,666,015; Apr. 10.

Landberg, Margot, assignor of one-half to J. P. Seeburg, Chicago, Ill. Face-spraying device. 1,665,744; Apr. 10.

Landis Machine Company. (See Newman, Samuel F., assignor.)

Lang, Albion S., Jamaica Plain, Mass. Saxophone cord. 1,665,745; Apr. 10.

Lang, Maxwell C., Indianapolis, Ind. Finger ring. Des. 74,890; Apr. 10.

Larsen, Jacob C., and C. L. Orr, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Six-wheel car-truck constructions. 1,665,416; Apr. 10.

Larsen, Jacob C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck construction. 1,665,417; Apr. 10.

Laschenski, Charles W., Trenton, N. J., assignor to New Castle Refractories Company, New Castle, Pa. Kiln-car-deck support. 1,665,631; Apr. 10.

Lasker, William W., Brooklyn, N. Y., and J. Mueller, North Bergen, N. J., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Sorting machine. 1,665,595; Apr. 10.

Laursen, Laurits A., Eau Claire, Wis., assignor of one-fourth to P. F. Laursen, Akron, Ohio. Vulcanizing rubber tubes and rubber tube produced thereby. 1,665,308; Apr. 10.

Laursen, Laurits A., Eau Claire, Wis., assignor of one-fourth to P. F. Laursen, Akron, Ohio. Vulcanizing rubber. 1,665,309; Apr. 10.

Laursen, Laurits A., Eau Claire, Wis., assignor of one-fourth to P. F. Laursen, Akron, Ohio. Process and apparatus for vulcanizing rubber articles. 1,665,310; Apr. 10.

Laursen, Laurits A., Eau Claire, Wis., assignor of one-fourth to P. F. Laursen, Akron, Ohio. Vulcanizing method and apparatus for rubber. 1,665,311; Apr. 10.

Laursen, Laurits A., assignor of one-fourth to P. F. Laursen, Akron, Ohio. Method of and apparatus for vulcanizing rubber articles. 1,665,312; Apr. 10.

Laursen, Pearl F. (See Laursen, Laurits A., assignor.)

Lavarack, Frederick C., Montclair, and W. H. B. Lavarack, Norwood Borough, N. J. Bootlet. 1,665,629; Apr. 10.

Lavarack, William H. B. (See Lavarack, Frederick C. and W. H. B.)

Lavarack, William H. B., Pine Bush, and B. A. Lundy, Larchmont, N. Y. Railway sign. 1,665,374; Apr. 10.

Lear, Earl B., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for rock drills. 1,665,209; Apr. 10.

Le Bus, George F., Electra, Tex. Sand-tester pump. 1,665,967; Apr. 10.

Lechler, Firm Paul. (See Hutzenlaub, Eugen, assignor.)

Leeds & Northrup Company. (See Wunsch, Felix, assignor.)

Legullon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for making grommets. 1,665,853; Apr. 10.

Le Mesurier, Henry E., London, England. Internal-combustion engine. 1,665,885; Apr. 10.

Lempertz, Eberhard, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Gas-inflated airship. 1,665,886; Apr. 10.

Lenehan, Bernard E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current device. 1,665,854; Apr. 10.

Lenoir, Milton C., Lombard, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,665,814; Apr. 10.

Lenston, Charles S., assignor to Hobbs Manufacturing Company, Worcester, Mass. Feed-roller support. 1,665,596; Apr. 10.

Lentz, Lawrence E., Harrisburg, Pa., assignor to Elliott-Fisher Company. Cutting machine. 1,665,213; Apr. 10.

Leon, Lewicki J., West Chicago, Ill. Bird cage. Des. 74,891; Apr. 10.

Levy, Henri G., et al. (See Levy, Henri G., assignor.)

Levy, Henri G., assignor to M. Abramson and H. G. Levy, doing business under the firm name and style of Electric Manufacturing Company, San Francisco, Calif. Curling-iron heater. 1,665,746; Apr. 10.

Levy, Jacob, Boston, Mass. Device for cutting pipe. 1,665,707; Apr. 10.

Lewis, Jacob D., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Protective device for three-phase alternating-current units. 1,665,313; Apr. 10.

Libbey Glass Manufacturing Company, The. (See Parker, Alvah C., assignor.)

Lichten, Arthur S., A. Koufman, and W. Shulik, Philadelphia, Pa. Trousers. 1,665,855; Apr. 10.

Lichten, Arthur S., A. Koufman, and W. Shulik, Philadelphia, Pa. Trousers. 1,665,856; Apr. 10.

Lichtenberg, Erich H., and G. E. Webb, assignor to Koehring Company, Milwaukee, Wis. Water-introducing means for concrete mixers. 1,665,314; Apr. 10.

Liedtke, Hans, Hamburg, Germany. Mending fabric articles. 1,665,968; Apr. 10.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Roller support. 1,665,418; Apr. 10.

Lind, Frederick A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Holder for tires. 1,665,887; Apr. 10.

Line Material Company. (See Hendee, Lem E., assignor.)

Lininger, Bertha B., Versailles, Mo. Stocking protector. 1,666,017; Apr. 10.

Lippard, Herman I., Upper Darby, Pa. Sewing needle. Re16,926; Apr. 10.

Liptak, Michael, Minneapolis, Minn. Fire-tile door-frame. 1,665,555; Apr. 10.

Liptak, Michael, St. Paul, Minn. Fire wall. 1,665,556; Apr. 10.

Litty, John R., Philadelphia, Pa. Cake-splitting machine. 1,665,888; Apr. 10.

Livermore, Kenneth C., Ithaca, N. Y. Two-way plow. 1,666,016; Apr. 10.

Lock, Michael, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Radio signaling system. 1,665,632; Apr. 10.

Locomotive Pulverized Fuel Company. (See Caracristi, Virginius Z., assignor.)

Locomotive Stoker Company. (See Lower, N. M., and Turner, assignors.)

Loederer, Richard A., New York, N. Y. Moving-picture book. 1,665,747; Apr. 10.

Lofman, Charles, assignor to Roberti Bros., Los Angeles, Calif. Portable folding bed. 1,665,668; Apr. 10.

Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,665,708; Apr. 10.

Long, Herbert J. (See Schneider, F. D., and Long.)

Longenecker, Charles I., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Diaphragm pump. 1,665,709; Apr. 10.

Lorenz, C., Aktiengesellschaft. (See Gerth, Felix, assignor.)

Lower, Nathan M., and E. A. Turner, assignors to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive stoker. 1,665,748; Apr. 10.

Lubbers & Bell Manufacturing Co. (See Lubbers, John A., assignor.)

Lubbers, John A., assignor to Lubbers & Bell Manufacturing Co., Clinton, Iowa. Fly swatter. 1,665,270; Apr. 10.

Lubbers, John A., assignor to Lubbers & Bell Manufacturing Company, Clinton, Iowa. Display stand. 1,665,271; Apr. 10.

Lucas, Zana R., and G. E. Carpender, West Chicago, Ill.; said Carpender assignor to said Lucas. Manicuring buffer. 1,665,710; Apr. 10.

Ludlow Manufacturing Company, The. (See Hake, Elmer C., assignor.)

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Arnstein, Karl, assignor.)

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Lempertz, Eberhard, assignor.)

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Rieger, Leonz, assignor.)

Lundy, Beverly A. (See Lavnrack, W. H. B., and Lundy.)

Lux, Leo A., Rocky River, Ohio. Container. 1,665,711; Apr. 10.

M S Co. (See Nittel, Frederick W., assignor.)

Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Chafing-strip applier. 1,665,889; Apr. 10.

Maatschappij tot Beheer en Exploitatie van Octrooien. (See von Reis, Lambert, assignor.)

MacChesney, Harold S., assignor to American Car and Foundry Company, New York, N. Y. Producing clutch drums. 1,665,375; Apr. 10.

Madden, Daniel D., Portland, Oreg. Imprinting device. 1,666,029; Apr. 10.

Madden, Daniel D., Portland, Oreg. Imprinted paper. 1,666,030; Apr. 10.

Madden, Daniel D., assignor to Pacific Northwest Paper Mills, Inc., Portland, Oreg. Producing imprinted paper. 1,666,031; Apr. 10.

Magnet-Werk G. m. b. H. Eisenach Spezial-fabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)

Malouf, Edward F., Marysville, Calif. Nail setter. 1,665,669; Apr. 10.

Manzel, Charles W., Buffalo, N. Y. Combined low and high pressure oil pump. 1,665,670; Apr. 10.

Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Preparation of metal halides. 1,665,634; Apr. 10.

Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Purification of metal powders. 1,665,635; Apr. 10.

Marden, John W., East Orange, and J. E. Conley, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Activation of electron-emission material. 1,665,636; Apr. 10.

Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. X-ray tube. 1,665,637; Apr. 10.

Marks, Albert J., assignor to Ajax Time Stamp Company, Boston, Mass. Stamping device. 1,665,597; Apr. 10.

Massey, Alexander J., Los Angeles, Calif. Vehicle signal. 1,665,315; Apr. 10.

Matthews, Blanche E., Los Angeles, Calif. Electric iron-cord control. 1,665,316; Apr. 10.

Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Double-belt sander. 1,665,749; Apr. 10.

Mattison Machine Works. (See Mattison, Carl L., assignor.)

Mauro, Benoit, Brooklyn, N. Y. Organ. 1,666,032; Apr. 10.

Mauser, Alfons, Cologne-Marienburg, Germany. Welding machine. 1,665,815; Apr. 10.

Mautner, Charles, Brooklyn, N. Y. Frame-joint construction. 1,665,816; Apr. 10.

Maxson, Frank P., Chicago, Ill. Coping saw. 1,665,317; Apr. 10.

May, Heinz, Hannover, Germany. Restretchable tennis racket. 1,665,598; Apr. 10.

Mayette, Edgar, Canisteo, N. Y. Amusement apparatus. 1,666,018; Apr. 10.

Mayock, Michael, et al. (See Ganny, L. C., and Goldberg, assignors.)

Mayock, Thomas J., et al. (See Ganny, L. C., and Goldberg, assignors.)

McCarthy, John J., Middleboro, Mass., assignor to Colonial Brass Company, Middleboro, Mass. Potato-chip machine. 1,666,019; Apr. 10.

McClave, Roscoe P. and S. W., jr., Cliffside, N. J. Apparatus for the removal of snow. 1,665,503; Apr. 10.

McClave, Stephen W., jr. (See McClave, Roscoe P. and S. W., jr.)

McCord Radiator & Mfg. Co. (See Wallace, William G., assignor.)

McCulloch, Alfred H., Boston, Mass. Furnace-regulator unit. 1,665,599; Apr. 10.

McDonnell, Allan J., Vancouver, British Columbia, Canada. Hydraulic jack. 1,665,633; Apr. 10.

McElroy, Robert L. (See Nolen, James G., assignor.)

McGraw, Edward J., Saginaw, Mich. Receptacle for golf-players' accessories. 1,665,214; Apr. 10.

McKee, Marie, Garden Home, and C. A. Roach, assignors of one-third to F. E. Walling, Portland, Oreg. Cap attachment for visors. 1,665,750; Apr. 10.

McKenna, Michael H. (See Birney, William N., assignor.)

McLemore, John M. (See Nixon, C. C., and McLemore.)

McManus, John A. (See Thomson, Elihu, assignor.)

McNamara, Denis, New York, N. Y. Punching bag. 1,665,969; Apr. 10.

Mead, Edward D., Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,665,318; Apr. 10.

Meagher, Ira E. (See Canright, Bruce W., assignor.)

Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Making multicolor screens. 1,666,048; Apr. 10.

Menne, Fritz, Weidenau-on-the-Sieg, Germany, assignor to H. F. Hoevel, New York, N. Y. Press. 1,666,020; Apr. 10.

Mergenthaler Linotype Company. (See Archer, Alfred, assignor.)

Mergenthaler Linotype Company. (See Guest, Alfred W. F., assignor.)

Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)

Mettler, Anton, Reichenburg, Switzerland. Device for singeing threads. 1,665,970; Apr. 10.

Meyer, William, Chicago, Ill. Holder for manicure preparations and the like. 1,665,788; Apr. 10.

Michl, Robert, Kosice, Czechoslovakia. Synchronous motor specially for driving clocks. 1,665,890; Apr. 10.

Michotte, Felicien, Paris, France, assignor, by mesne assignments, to Ramie Corporation of America, Inc., New Orleans, La. Decorticating machine. 1,665,971; Apr. 10.

Middleton, Donald R., Detroit, Mich. assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,665,466; Apr. 10.

Middletown Silver Company, The. (See Cornell, Elwood N., assignor.)

Midgley, William, Berkeley, Calif. Leveling square. 1,665,504; Apr. 10.

Mid-States Gummed Paper Co. (See Mittendorf, Theodor H., assignor.)

Miller, David B., Greenfield, Mass. Stamping device. 1,665,467; Apr. 10.

Miller, George R., assignor to Grip Bow Tie Company, Omaha, Nebr. Bow tie and making the same. 1,665,712; Apr. 10.

Miller, James F., Minden, La. Nut cracker. 1,665,557; Apr. 10.

Miller, John W. (See Spiegel, Edward R., assignor.)

Mills Novelty Company. (See Peterson, Oscar, assignor.)

Milwaukee Lace Paper Company. (See Graffenberger, Friedrich, assignor.)

Miner, Carl S. (See Trickey, J. P., and Miner.)

Minneapolis Heat Regulator Co. (See Sweatt, Harold W., assignor.)

Mirfield, George E., Youngstown, Ohio. Shearing metal sheets. 1,665,319; Apr. 10.

Mittendorf, Theodor H., assignor to Mid-States Gummed Paper Co., Chicago, Ill. Protecting porcelain and enameled ware. 1,665,215; Apr. 10.

Modern Pouring Device Co. (See Goldberg, Max W., assignor.)

Montgomery, Fred W., North St. Paul, Minn. Spring wheel. 1,665,558; Apr. 10.

Montgomery, Harris C. (See Hazel, C. E., and Montgomery.)

Montgomery, John L., Stoneham, Mass. Shade-supporting bracket. 1,665,929; Apr. 10.

Moore, Marguerite E., New York, N. Y. Stake retainer or the like. Des. 74,892; Apr. 10.

Moore, Thomas A., Eldon, Iowa. Cultivator. 1,665,559; Apr. 10.

Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle brake. 1,665,376; Apr. 10.

Morehouse, Ralph C., Mason City, Iowa. Locomotive whistle. 1,665,671; Apr. 10.

Morkum-Kleinschmidt Corporation. (See Krum, Howard L., assignor.)

Morris, John T., Glen Morrison, W. Va. Mine and railway tie plate. 1,665,419; Apr. 10.

Morrison, Montford, Chicago, Ill. X-ray tube. 1,665,638; Apr. 10.

Morse Dry Dock & Repair Co. (See Irish, David J., assignor.)

More Dry Dock & Repair Co. (See Strachan, C., and Irish, assignors.)

Mortimer, Charles W., Upper Montclair, N. J., assignor to The Barrett Company. Cutting shingles. 1,665,600; Apr. 10.

Mortimer, Charles W., Upper Montclair, N. J., assignor to The Barrett Company. Self-spacing shingle. 1,665,601; Apr. 10.

Morton, Harry D., and M. Parker, New York, N. Y. Making needle-and-suture assembly. 1,665,216; Apr. 10.

Morton, Joseph A., Brooklyn, N. Y., assignor to B. Gibbs, Ardmore, Pa. Union undergarment. 1,665,505; Apr. 10.

Morton, Rolla A., Long Beach, Calif., assignor to Western Wheeled Scraper Company, Aurora, Ill. Draft appliance. 1,665,817; Apr. 10.

Mueller, John. (See Lasker, W. W., and Mueller.)

Murphy, George F., Philadelphia, Pa. Packing. 1,665,377; Apr. 10.

Murray, Thomas E. (See Holmes, Henry S., assignor.)

Murray, Thomas E., jr., New York, N. Y. Internal-combustion engine. 1,665,468; Apr. 10.

Myers, Lewis E., Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company, and H. H. Rockwell, as trustees. Detachable scroll support. 1,665,272; Apr. 10.

Myers, Lewis E., and A. C. Carlson, Valparaiso, Ind., and C. S. Bates, Chicago, Ill., assignors, by mesne assignments, to The Northern Trust Company and H. H. Rockwell as trustees. Wheeled toy. 1,665,469; Apr. 10.

National Advertising Corporation. (See Wilkes, William H., assignor.)

National Automatic Tool Company, The. (See Galloway, R. M., and Burton, assignors.)

National Refrigerating Company. (See Keyes, Frederick G., assignor.)

National Standard Company. (See Hopkins, Arthur C., assignor.)

Nebel, Ernst O., Philadelphia, Pa. Manufacturing full-fashioned hosiery. 1,665,972; Apr. 10.

Needham, John C., assignor to Eversbed & Vignoles Limited and himself, London, England. Electrical transmission system. 1,665,857; Apr. 10.

Neil, Bertram, Borger, Tex. Rivet-finishing tool. 1,665,751; Apr. 10.

Neisler, Charles E., jr., Kings Mountain, N. C. Attachment for looms. 1,665,274; Apr. 10.

Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Machine for rolling metallic disks. 1,665,818; Apr. 10.

Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multioffice telephone system. 1,665,273; Apr. 10.

Nelson, Nels P., et al. (See Johnson, Matts, assignor.)

Nelson, Robert O., Portland, Oreg. Variable traffic signal. 1,665,560; Apr. 10.

Nero, Arthur A., Abrams, Wis. Aeroplane. 1,665,718; Apr. 10.

Netherland, Nita G., Ballsville, Va. Jar top. 1,665,602; Apr. 10.

New Castle Refractories Company. (See Laschenski, Charles W., assignor.)

New Haven Clock Co., The. (See Porter, Wilson E., assignor.)

New Jersey Fire Alarm Company. (See Siddall, Joseph and W. H., assignors.)

Newman, Morris S., Middletown. Fur-shearing machine. 1,665,217; Apr. 10.

Newman, Samuel F., assignor to Landis Machine Company, Waynesboro, Pa. Die head. 1,665,973; Apr. 10.

Newmeyer, William L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,665,858; Apr. 10.

Newport Company, The. (See Gubelmann, I., Welland, and Stallmann, assignors.)

Nichols, Edgar B., Rochester, assignor to The Pfaudler Co., Rochester, N. Y. Agitator. 1,665,789; Apr. 10.

Nittel, Frederick W., Attleboro Falls, assignor to M S Co., Attleboro, Mass. Expansible bracelet. 1,666,033; Apr. 10.

Nixon, Cecil C., and J. M. McLemore, Talladega, Ala. Metallic bobbin base. 1,665,930; Apr. 10.

Noah, Leroy H., Ogallah, Kans. Piston and connecting rod construction. 1,665,672; Apr. 10.

Noble, Kenneth B., Hartford, assignor to The A. C. Gilbert Company, New Haven, Conn. Governor for motors. 1,665,714; Apr. 10.

Noeggerath, Jacob E., The Hague, Netherlands. Distribution of liquids. 1,665,931; Apr. 10.

Nolsom, Ole P., South Bend, Ind. Compass indicator for automobiles, etc. 1,665,715; Apr. 10.

Nolen, James G., New York, N. Y., assignor to R. L. McElroy, Charlottesville, Va. Signal-alarm device for sprinkler systems. 1,665,561; Apr. 10.

Norelius, Emil F., Davenport, Iowa. Rear-end assembly for power-driven vehicles. 1,665,470; Apr. 10.

Norris, Paul E. Wilkinsburg, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Storage battery. 1,665,603; Apr. 10.

Norris, Paul E., and H. H. Aldrich, Wilkinsburg, assignors to Westinghouse Union Battery Company, Swissvale, Pa. Storage-battery separator. 1,665,604; Apr. 10.

Northern Trust Company, The, et al., trustees. (See Carlson, Artie C., assignor.)

Northern Trust Company, The, et al., trustees. (See Myers, Lewis E., assignor.)

Northern Trust Company, The, et al., trustees. (See Myers, L. E., Carlson, and Bates, assignors.)

Northwood, Charles O., Dormont, assignor to United States Glass Company, Pittsburgh, Pa. Goblet or similar article. Des. 74,893; Apr. 10.

Nottingham, Wayne B., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Arrangement of carrier channels in multiplex algaling systems. 1,665,673; Apr. 10.

Novack, William, Brooklyn, N. Y. Sanitary douche nozzle. 1,665,790; Apr. 10.

Novak Club Inc., The. (See Novak, Joseph A., assignor.)

Novak, Joseph A., assignor to The Novak Club Inc., San Francisco, Calif. Golf-club grip. 1,665,791; Apr. 10.

Nutt, Frank N., assignor to A C Spark Plug Company, Flint, Mich. Bumper. 1,665,320; Apr. 10.

Nycz, Louis, Binghamton, N. Y. Automobile. 1,665,974; Apr. 10.

Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Station-selector dial for radio receiving sets. 1,665,891; Apr. 10.

O'Brien, Timothy. (See Feeney, G., and O'Connor, assignor.)

O'Brien, William C., Baltimore, Md., assignor to Cline Electric Manufacturing Company, Chicago, Ill. Starter for electric motors. 1,665,562; Apr. 10.

O'Connor, Thomas. (See Feeney, G., and O'Connor.)

O'Dea, Mark, St. Paul, Minn. Automobile luggage carrier. 1,665,892; Apr. 10.

Oesch, Johann, Glockenthal, near Steffisburg, Switzerland. Painting urinals. 1,665,859; Apr. 10.

Ohio Brass Company, The. (See Applegate, Robert, assignor.)

Ohio Drilling Company, The. (See Von Gunten, Jacob, assignor.)

O'Leary, C. M. (See Green, Henry, M., assignor.)

Olinger, Thomas, assignor to Federal Manufacturing Company, Holland, Mich. Damper. 1,665,716; Apr. 10.

Oliveri, Vincenzo. (See Hirtz, I., and Oliveri.)

Olsen, Robert E., Forest Hills, N. Y. Photographic button. 1,665,605; Apr. 10.

Olson, Nels L., Highland Park, Mich., assignor to Swedish Crucible Steel Company. Vehicle wheel. 1,665,471; Apr. 10.

Oneida Community Limited. (See Allen, Grosvenor N., assignor.)

Onthank, Charles F., Newton, Mass. Oval jar. Des. 74,894; Apr. 10.

Opperman, August H., Indianapolis, Ind. Electrical hair curler. 1,665,472; Apr. 10.

Orr, Clarence H., Providence, R. I. Sign plate. Des. 74,895; Apr. 10.

Orr, Claude L. (See Larsen, J. C., and Orr.)

Osborne John C., Berlin, Germany, assignor to The American Multigraph Company, Cleveland, Ohio. Changeable printing device. 1,665,717; Apr. 10.

Osborne, Willard B. (See Gould, W. S., and Osborne.)

Oscher, Nathan A., Brooklyn, N. Y. Stress breaker. 1,665,975; Apr. 10.

Oswald, Arthur A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System including space discharge device. 1,665,674; Apr. 10.

Otis Elevator Company. (See Brady, Thomas, assignor.)

Otis Elevator Company. (See Lewis, Jacob D., assignor.)

Otto, Albert T., & Sons. (See Spalding, John, assignor.)

Ovalite Company, The. (See Hurster, William, assignor.)

Owens Bottle Company, The. (See Hofmann, V. E., and Soubier, assignors.)

P & M Company, The. (See Lenoir, Milton C., assignor.)

Pacific Northwest Paper Mills, Inc. (See Madden, Daniel D., assignor.)

Pacific Pipe and Supply Company. (See Griffs, John C., assignor.)

Pacific Southwest Trust & Savings Bank, administrator. (See Green, Henry M.)

Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Packers' Supply Company Limited. (See Payne, Arthur C., assignor.)
Padmore, Bertram R., Montrose Heights, Blawnox, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,665,860; Apr. 10.
Paige, Arthur E., Philadelphia, Pa. Pump. 1,665,675; Apr. 10.
Paine, Jesse L., et al. (See Beckthold, John, assignor.)
Parke, Charles S. (See Harshaw, W. J., and Parke.)
Parke, Davis & Company. (See Hamilton, Cliff S., assignor.)
Parker, Alvah C., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Decorating apparatus. 1,665,321; Apr. 10.
Parker, George, Meriden, Conn. Electric cigar lighter. 1,665,792; Apr. 10.
Parker, Morgan. (See Morton, H. D., and Parker.)
Parsons, John, Newton Center, Mass. Cigarette case. 1,665,752; Apr. 10.
Pater, Carl J., Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, Expansion-joint material. 1,665,718; Apr. 10.
Patrick, Joshua, Detroit, Mich. Temperature-compensating spring. 1,665,322; Apr. 10.
Patterson, Edgar W., Los Angeles, Calif. Pressure-packed pump. 1,665,473; Apr. 10.
Patterson, Edgar W., Long Beach, Calif. Tandem single-acting pump. 1,665,639; Apr. 10.
Pavelka, Joseph. (See Delf, George A., assignor.)
Payne, Arthur C., assignor to Packers' Supply Company Limited, London, England. Apparatus for tensioning and sealing metal bands around packing cases and other packages. 1,665,323; Apr. 10.
Pearcey, Leslie M. (See Shearon, C. E., Alexander, and Pearcey.)
Pechin, Norman R., Philadelphia, Pa. Knitting machine. 1,665,976; Apr. 10.
Pellow, Charles E., Detroit, Mich. Burr cutter. 1,665,474; Apr. 10.
Perry, John E., Sharon, assignor to Valley Mould & Iron Corporation, Sharpsville, Pa. Ingot mold and stool. 1,665,275; Apr. 10.
Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Locomotive booster apparatus. 1,665,324; Apr. 10.
Peters, William G., Peoria, Ill., assignor to Westinghouse Electric and Manufacturing Company. Inclosable or folding wringer. 1,665,932; Apr. 10.
Peterson, Ernest E., Carson Lake, Minn. Power shovel. 1,665,378; Apr. 10.
Peterson, Eugene, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical network and its operation. 1,665,325; Apr. 10.
Peterson, Oscar, assignor to Mills Novelty Company, Chicago, Ill. Brake device. 1,665,753; Apr. 10.
Pfaudler Co., The. (See Nichols, Edgar B., assignor.)
Pfeifer, Bryan B., Chicago, Ill. License-plate lamp. 1,665,276; Apr. 10.
Pfeil, Walter, and W. Kolmeier, Fredericksburg, Tex. Water heater. 1,665,506; Apr. 10.
Pierce Development Company, The. (See Hoffman, Benjamin P., assignor.)
Pinkerton, Edward E., assignor to M. A. Pinkerton, Chicago, Ill. Egg holder. 1,665,420; Apr. 10.
Pinkerton, Mary A. (See Pinkerton, Edward E., assignor.)
Pittsburgh Steel Company. (See Benedict, Edward L., assignor.)
Phillips, George P., Boston, Mass. Articulator. 1,666,021; Apr. 10.
Phillips, George P., Boston, Mass. Articulator. 1,666,022; Apr. 10.
Photostat Corporation. (See Caps, Arthur W., assignor.)
Planell, Fernando C., Sabadell, Spain. Scouring machine for washing fabrics of wool and their mixtures. 1,665,977; Apr. 10.
Plummer, Horace, Lawrence Township, Marion County, Ind. Engraving block. 1,665,819; Apr. 10.
Plym, Francis J., assignor to The Kawneer Company, Niles, Mich. Screen. 1,665,475; Apr. 10.
Pneumatic Scale Corporation, Limited. (See Howard, Stanley R., assignor.)
Pollak, Julius, Houston, Tex. Garment. 1,665,507; Apr. 10.
Porter, Wilson E., assignor to The New Haven Clock Co., New Haven, Conn. Clock with rotary operating members. 1,665,476; Apr. 10.
Powers, James, Los Angeles, Calif., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Feeding mechanism for tabulating machines. 1,665,218; Apr. 10.
Primeaux, Ely, New Orleans, La. Sandpapering and buffing machine. 1,665,676; Apr. 10.
Prince, David C., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,665,893; Apr. 10.
Pritchard, Carl B., Scottdale, Pa. Combination band or tube corrugating and flanging machine. Re16,931; Apr. 10.
Pritchard, Percy Moseley, Birmingham, England. Spark arrester for cupolas or the like. 1,665,754; Apr. 10.
Promenschenkel, Joseph W. (See Wine, W. E., and Promenschenkel.)
Prosperity Company, The. (See Braun, P. N., and Hart, assignor.)
Prosperity Company, The. (See Clisson, Albert B., assignor.)
Purdy, Martin K., Stroudsburg, and W. H. Reagle, Tobyhanna, Pa. Electric heater. 1,665,861; Apr. 10.
Quaker Oats Company, The. (See Trickey, J. P., and Miner, assignors.)
Raab, Alexander, Evanston, Ill. Foldable pocket piano keyboard. 1,665,563; Apr. 10.
Radford, Albert E., New Castle, Pa. Pottery-making method. 1,665,978; Apr. 10.
Radio Corporation of America. (See Donisthorpe, Horace, S. de A., assignor.)
Radio Corporation of America. (See Trump, Edward H., assignor.)
Ramazzotti, Daniel V., assignor to The Knight Company, Sutter Creek, Calif. Road scarifier. 1,665,277; Apr. 10.
Ramie Corporation of America, Inc. (See Michotte, Felicien, assignor.)
Ramsey, George, Brooklyn, N. Y. Optical speedometer. 1,665,278; Apr. 10.
Randle, Clyde I., and F. S. Anderson; said Anderson assignor to G. Sutherland, Eureka, Calif. Automatic automobile light indicator. 1,665,640; Apr. 10.
Rankin, William A., Rochester, N. Y. Heating element for electric irons. 1,665,219; Apr. 10.
Rasey, Albert L., Milwaukee, Wis. Clarifying device for liquids. Re16,932; Apr. 10.
Rasmussen, Martin. (See Ritter, J., jr., and Rasmussen.)
Rawlings, William E., near San Jose, Calif. Jack. 1,665,979; Apr. 10.
Rawlings, William E., Santa Clara County, Calif. Bed canopy. 1,665,980; Apr. 10.
Rayburn, Edmund F., Findlay, Ohio. Hot plate. Des. 74,896; Apr. 10.
Raymond Concrete Pile Company. (See Hunt, F. H., and Ropp, assignors.)
Raymond Concrete Pile Company. (See Smith, Herman R., assignor.)
Reagle, William H. (See Purdy, M. K., and Reagle.)
Reboul, Annie W. (See Wilson, Frank, sr., assignor.)
Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Multipressure regulator. 1,665,279; Apr. 10.
Reedy, Alfred J., assignor to A-B Stove Company, Battle Creek, Mich. Gas stove. Des. 74,897; Apr. 10.
Reese, Berthold J., New York, N. Y. Supplemental leaf-attaching device for books. 1,665,641; Apr. 10.
Regal Shoe Company. (See Bliss, Elmer J., assignor.)
Reichard, Russell L., Allentown, Pa. Advertising device. 1,665,894; Apr. 10.
Reitz, Albert F., Kansas City, Mo. Combination dilator and applicator appliance. 1,665,564; Apr. 10.
Remington Rand Inc. (See Lasker, W. W., and Mueller, assignors.)
Remington Rand Inc. (See Powers, James, assignor.)
Remington Typewriter Company. (See Going, George G., assignor.)
Rendleman, Norman C., Dortmont, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Manipulator cable for rolling mills. 1,665,606; Apr. 10.
Republic Brass Company, The. (See Bloch, Leon, assignor.)
Rettmer, Jacob J., Lufkin, Tex. Lumber, stamping device. 1,665,220; Apr. 10.
Rex-Watson Corporation. (See Casler, Herman, assignor.)
Reyburn, Charles E., Peru, Ind. Weather strip. 1,665,326; Apr. 10.
Reyolle, A., & Company Limited. (See Allan, A., and Clothier, assignors.)
Richard, Edward C., and H. Gill, Westboro, Mass., assignors to Westboro Weaving Company, New York, N. Y. Shuttle. 1,665,221; Apr. 10.
Richardson, Earle E. (See Jones, L. A., and Richardson.)
Richardson Grain Separator Co. (See Thorbus, Clarence T., assignor.)
Ridgeway, Ralph H., Springfield, Mass. Tie holder. 1,665,477; Apr. 10.
Ridgway, Herbert N., Winthrop, Mass. Amusement apparatus. 1,665,981; Apr. 10.
Rieger, Leonz, assignor to the firm Luftschiffbau Zeppelin Gesellschaft mit beschrinkter Haftung, Friedrichshafen, Germany. Shaft coupling. 1,665,895; Apr. 10.
Rissinger, Thomas T., Compton, Calif. Curling instrument. 1,665,327; Apr. 10.
Ritter, Julius, jr., and M. Rasmussen, assignors to Hartmann Trunk Company, Racine, Wis. Trunk lock. 1,665,379; Apr. 10.
Roach, Charles A. (See McKee, M., and Roach.)
Robb, John F., Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis. Cement loading, controlling, measuring, and counting apparatus for concrete mixers. 1,665,565; Apr. 10.
Robe, Robert S. (See Graham, G. C., and Robe.)
Roberti Bros. (See Lofman, Charles, assignor.)
Roberts and Shaefer Company. (See Arms, Ray W., assignor.)

Robinson, Thomas, Babylon, N. Y., assignor to Anaconda Sales Company. Roofing element and making same. 1,665,222; Apr. 10.
Rocha, Ezekiel M., Tulare, Calif. Robber trap. 1,665,982; Apr. 10.
Rockwell, Harold H., et al., trustees. (See Carlson, Artie C., assignor.)
Rockwell, Harold H., et al., trustees. (See Myers, Lewis E., assignor.)
Rockwell, Harold H., et al., trustees. (See Myers, L. E., Carlson, and Bates, assignors.)
Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Glissometer. 1,665,933; Apr. 10.
Roe, William C., assignor to Holmes Electric Protective Company, New York, N. Y. Alarm device. 1,665,677; Apr. 10.
Rollaway Motor Company, The. (See Fox, Cecil M., assignor.)
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit breaker. 1,665,223; Apr. 10.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rolscreen Company. (See Dixson, Harry, assignor.)
Roose, Garland H., Chicago, Ill. Internal-combustion engine. 1,665,421; Apr. 10.
Ropp, Frank N. (See Hunt, F. H., and Ropp.)
Rose, Frederick A., Memphis, Tenn., assignor, by mesne assignments, to M. Finkelstein, Chicago, Ill. Pants holder. 1,665,983; Apr. 10.
Roseland Can & Wire Goods Co. (See Gschwindt, Adam, assignor.)
Rosencrans, John H., assignor of one-half to J. W. Smith, Detroit, Mich. Securing device for vehicles. Re16,927; Apr. 10.
Ross Gould Limited. (See Fabian, Charles, assignor.)
Ross, R. L. and Company Limited. (See Hargreaves, William, assignor.)
Rothe, William C. (See Goertz, F., and Rothe.)
Royal Railway Improvements Corporation. (See Sauvage, William H., assignor.)
Ruffo, Louis, New York, N. Y. Woman's headdress. 1,665,380; Apr. 10.
Ruggles, William A., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,665,896; Apr. 10.
Russell, William H., New Haven, Conn. Coin-changing machine. 1,665,566; Apr. 10.
Rzeppa, Alfred H., Detroit, Mich. Universal joint. 1,665,280; Apr. 10.
Salamis, Basil C. (See Chambers, J. G., and Salamis.)
Samantas, Nicholas P. (See Burleson, A. L., and Samantas.)
Sandborgh, Olof A., Stockholm, Sweden. Automatic electric steam boiler. 1,665,793; Apr. 10.
Sandford, Stephen & Sons. (See Coyle, J. A., and Cooper, assignors.)
Sandford, William C. (See Hoff, E. A., and Sandford.)
Sands, Alfred M. (See Carmona, F. A., and Sands.)
Sankey, Harold B., Albrighton, England. Tool holder and other receptacles for use on motor vehicles. 1,665,642; Apr. 10.
Sargent, Charles E., Lakeland, Fla. Internal-combustion engine. 1,665,607; Apr. 10.
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Hand brake. 1,665,862; Apr. 10.
Sawyer, John A. (See Walmer, I. G., and Sawyer.)
Scaggs, Luther E., Corsicana, Tex. Transmission. 1,665,984; Apr. 10.
Scaizo, Vincent, Pittston, Pa. Windshield cleaner. 1,665,794; Apr. 10.
Schaefer, Edward C. F., York, Pa. Manure spreader. Re16,929; Apr. 10.
Schieber, Robert E., Detroit, Mich. Valve. 1,665,934; Apr. 10.
Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Punch press. 1,665,820; Apr. 10.
Schmidt'sche Heissdampf Gesellschaft m. b. H. (See Hartmann, Otto H., assignor.)
Schmitt, Hugo R., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave transmission. 1,665,328; Apr. 10.
Schmitt, Robert A., San Diego, Calif. Nipple chuck ond pipe bender. 1,665,643; Apr. 10.
Schneider, Frederick D., Hillside, and H. J. Long, New Brunswick, N. J. Boiler construction. 1,665,608; Apr. 10.
Schnepp, Louis W., San Bernardino, Calif. Thermostat. 1,665,719; Apr. 10.
Scholman, Maurice. (See Dineson, Hans E., assignor.)
Scholz, Samuel G., Hutchinson, Kans. Traction device. 1,665,478; Apr. 10.
Schumacher, Earle E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device and circuit therefor. 1,665,508; Apr. 10.
Schur, Milton O., assignor to Brown Company, Berlin, N. H. Indicator for automatic slowness testers. 1,666,034; Apr. 10.
Schwartz, Michael, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Intercepting trunk system. 1,665,479; Apr. 10.
Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
Scofield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Friction closure cap. 1,665,821; Apr. 10.
Scott, David C., assignor, by mesne assignments, to Henry L. Scott Company, Providence, R. I. Abrasive roll. 1,665,609; Apr. 10.
Scott, Henry L., Company. (See Scott, David C., assignor.)
Scott, Howard, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bimetallic element. 1,665,935; Apr. 10.
Scott, Raymond D., Chicago, Ill. Pneumatic jack. 1,665,985; Apr. 10.
Scranton Lace Company, The. (See Erhard, Gustave F., assignor.)
Seeburg, Justus P. (See Landberg, Margot, assignor.)
Sels, Hollis K. (See Evans, R. D., and Sels.)
Setzer, Rudolf, Munich-Trudering, Germany. Device relating to ring spinning and twisting. 1,665,422; Apr. 10.
Shapiro, Theodore, assignor to Artcraft Metal Stamping Corporation, Brooklyn, N. Y. Lighting-fixture wall bracket. Des. 74,898; Apr. 10.
Shaw, James, San Francisco, Calif. Motor-vehicle chassis. 1,665,610; Apr. 10.
Shearon, Charles E., J. D. Alexander, and L. M. Pearcey, Hattiesburg, Miss. Safety auto control. 1,665,281; Apr. 10.
Sheet-Rockford Silver Company. (See James, Sidney V., assignor.)
Sheffer, John W. (See Johnson, W. S., and Sheffer.)
Sheldon, Lovell D. (See Viers, C. O., and Sheldon.)
Shersmith, Frank, Oconomowoc, Wis. Automatic weather strip. 1,665,678; Apr. 10.
Shields, Clarence G., Floreffe, Pa. Spraying apparatus. 1,665,224; Apr. 10.
Shimizu, Seizo, Tokyo, Japan. Torsion meter. 1,665,822; Apr. 10.
Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Steering mechanism. 1,665,282; Apr. 10.
Shulik, William. (See Lichten, A. S., Koufman, and Shulik.)
Siddall, Joseph, Arlington, and W. H. Siddall, Kearny, N. J., assignors to New Jersey Fire Alarm Company. Automatic fire alarm. 1,665,381; Apr. 10.
Siddall, William H. (See Siddall, Joseph and W. H.)
Side, Sarah R., Brooklyn, N. Y. Article cabinet. 1,665,986; Apr. 10.
Siemens & Halske Aktiengesellschaft. (See Zuschlag, Theodor, assignor.)
Simek, Wendel, Guttenberg, N. J. Corn roaster. 1,665,225; Apr. 10.
Simmons, Frank L., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I. Magnetic chuck. 1,665,226; Apr. 10.
Simon, Leopold, New York, N. Y. Light screen and ventilator. 1,665,679; Apr. 10.
Singer, Fred J., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,665,283; Apr. 10.
Sipe, George B., Shreveport, La. Producing subaqueous foundations, piers, breakwaters, etc. 1,665,795; Apr. 10.
Sipe, George B., Shreveport, La. Providing and placing piers. 1,665,796; Apr. 10.
Sipe, George B., Shreveport, La. Excavating and producing foundations. 1,665,797; Apr. 10.
Sipe, George B., Shreveport, La. Producing and placing piles in interlocked relation. 1,665,798; Apr. 10.
Skelton, Prentice E., Indianapolis, Ind. Dishwasher. 1,665,423; Apr. 10.
Sleeper, Ned M., Upper Lake, Calif. Airplane. 1,665,480; Apr. 10.
Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radiodetector. 1,665,936; Apr. 10.
Slifer, Wilmer J., Easton, Pa. Ignition tester. 1,665,567; Apr. 10.
Sloate, Alfred C., Wynnewood, Pa., and J. C. Whyte, Wenonah, N. J., assignors to Congoleum-Nairn Inc., Philadelphia, Pa. Linoleum floor mat. Des. 74,899; Apr. 10.
Slocum, Benjamin A., assignor to Ansco Photoproducts, Inc., Binghamton, N. Y. Photographic-film cartridge. 1,665,481; Apr. 10.
Slye, John Q., and R. H. Coffren, Washington, D. C. Acoustic diaphragm. 1,665,284; Apr. 10.
Smith, Arthur B., South Brownsville, Pa. Incandescent lamp. 1,665,799; Apr. 10.
Smith, Charles E. B., assignor, by mesne assignments, to J. H. Weidemiller, Buffalo, N. Y. Electric brake-operating mechanism. 1,665,227; Apr. 10.
Smith, Harry B., Brooklyn, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass. Card-feed mechanism and method. 1,665,927; Apr. 10.
Smith, Herman R., Douglaston, assignor to Raymond Concrete Pile Company, New York, N. Y. Driving composite piles. 1,665,228; Apr. 10.
Smith, James W. (See Rosencrans, John H., assignor.)

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,665,285; Apr. 10.
Smith, John T., San Francisco, Calif. Pilot light. 1,665,987; Apr. 10.
Smith, John W., assignor to Budd Wheel Company, Philadelphia, Pa. Method and apparatus for feeding rotating disk-forming machines. 1,665,823; Apr. 10.
Smith, Leonard F., Thompson Falls, Mont. Cleaning rod and extracting device. 1,665,988; Apr. 10.
Smith, Will F., Brooklyn, N. Y. Bow-necktie frame. 1,655,509; Apr. 10.
Smith, Willard P., Newark, N. J. Vending machine. 1,665,989; Apr. 10.
Smith, William H., and A. S. Webster, Ottawa, Canada, assignors to American Bank Note Company, New York, N. Y. Method of and apparatus for making gummed paper. 1,665,611; Apr. 10.
Söderberg, Carl R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,665,938; Apr. 10.
Sohm, Alfred L., Chicago, Ill. Automobile radiator ornament. Des. 74,900; Apr. 10.
Soley, Frank, Philadelphia, Pa., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination lock. 1,665,990; Apr. 10.
Soubier, Leonard D. (See Hofmann, V. E., and Soubier.)
Spalding, John, Stamford, Conn., assignor to Albert T. Otto & Sons, New York, N. Y. Lace web and making the same. 1,665,230; Apr. 10.
Speer Calendar Bank Company. (See Speer, Zeno M., assignor.)
Speer, Zeno M., assignor to Speer Calendar Bank Company, Milwaukee, Wis. Savings bank. 1,665,824; Apr. 10.
Spidel, Arthur S., Brewster, assignor of one-half to E. A. Hamilton, Navarre, Ohio. Cord guide. 1,665,510; Apr. 10.
Spiegel, Edward R., assignor of one-half to J. M. Miller, Dallas, Tex. Report board. 1,665,568; Apr. 10.
Sponsel, Charles W., Wethersfield, assignor to Case & Marshall, Incorporated, Hartford, Conn. Cutting mechanism for pulp and like machines. 1,665,644; Apr. 10.
Stack, James M., et al. (See Ganny, L. C., and Goldberg, assignors.)
Staege, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,665,939; Apr. 10.
Stafford, Terrence W., San Francisco, Calif. Washboiler. 1,665,755; Apr. 10.
Stallmann, Otto. (See Gubelmann, I., Welland, and Stallmann.)
Standard Oil Company of California. (See Gates, Leroy G., assignor.)
Standerwick, Reginald G., Marblehead, Mass., assignor to General Electric Company. Elastic connection. 1,665,897; Apr. 10.
Stapp, John H., San Francisco, Calif. Coin bank. Des. 74,901; Apr. 10.
Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,665,231; Apr. 10.
Stell, Alfred, Ingrow, J. Stell, Brownfield, and H. Welch, Keighley, England. Doffing mechanism for cap spinning, doubling, and like machines. 1,665,720; Apr. 10.
Stell, John. (See Stell, Alfred and J., and Welch.)
Stern, Joseph, New York, N. Y. Cigar holder and ash receiver. 1,665,612; Apr. 10.
Stevens, William C., Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company. Power-transmission system. 1,665,825; Apr. 10.
Stockfleth, Berger. (See Burger, F. W., and Stockfleth.)
Stockfleth, Berger, Berrien Springs, and F. W. Burger, Niles, assignors to Clark Tructractor Company, Buchanan, Mich. Tiering machine. 1,665,680; Apr. 10.
Stockton, Richard A., Beverly, Mass. Profile gauge. 1,665,721; Apr. 10.
Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. 1,665,863; Apr. 10.
Storbacka, Arne, Vancouver, British Columbia, Canada. Water turbine. 1,665,329; Apr. 10.
Storey, Leonidas P., St. Paul, Minn., assignor of one-half to Waterous Fire Engine Works. Relief mechanism for pumps. 1,665,382; Apr. 10.
Strachan, Christopher, South Orange, N. J., and D. J. Irish, St. George, assignors to Morse Dry Dock & Repair Co., New York, N. Y. Air register. 1,665,800; Apr. 10.
Strahm, Frederick, Lawrence, Kans. Car seal. 1,665,424; Apr. 10.
Stramaglia, Nicola, Chicago, Ill. Window scaffold. 1,665,991; Apr. 10.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Lateral-swing control for tractor-drawn plows. 1,665,330; Apr. 10.
Stratton, William D., Farwell, Mich. Heating apparatus. 1,665,992; Apr. 10.
Strayer, Catherine. (See Stroh, W. Y., and Klages, assignors.)
Strickland, Louis G., Huntington, N. Y. Drafting instrument. 1,665,898; Apr. 10.
Stripling, Luke S., Amarillo, Tex. Windmill. 1,665,645; Apr. 10.
Stroh, William Y., and G. W. Klages, assignors to C. Strayer, Pittsburgh, Pa. Method and machine for finishing circular castings. 1,665,286; Apr. 10.
Strong, Robert M., Los Angeles, Calif. Spray nozzle. 1,665,482; Apr. 10.
Sturm, Frank X., Alexandria, Ind., assignor to The Glove Corporation, Alexandria, Ind. Glove. 1,666,023; Apr. 10.
Summers, Leland L. (See Deppé, W. P., and Summers.)
Summers, Llewelyn L. B., et al., administrators. (See Deppé, W. P., and Summers.)
Sunlight Electrical Manufacturing Company, The. (See Kingston, Frederick S., assignor.)
Superheater Company, The. (See Griffin, Joseph F., assignor.)
Sutherland, Gilbert. (See Randle, C. I., and Anderson, assignors.)
Swanson, Ernest R., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Slub catcher or yarn cleaner. 1,665,287; Apr. 10.
Sweatt, Harold W., assignor to Minneapolis Heat Regulator Co., Minneapolis, Minn. Unit-heater control. 1,665,801; Apr. 10.
Swedish Crucible Steel Company. (See Olson, Nels L., assignor.)
Sweeney, James A., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,665,940; Apr. 10.
Symmes, Whitman, assignor to Thomas Day Company, San Francisco, Calif. Detachable electric fixture. 1,665,802; Apr. 10.
Taft-Pierce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
Tanner, Harry L., Brooklyn, N. Y. Coupling device for rotatable elements. 1,665,613; Apr. 10.
Tanner, Wellington L., El Molino, Sonora, Mexico, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making arsenates of manganese and product thereof. Re16,933; Apr. 10.
Tauman, Bernard, Chicago, Ill. Stand for aquarium or the like. Des. 74,902; Apr. 10.
Taylor, Arnold M., and F. A. Buote, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del. Floor filler with pyroxylin base. 1,665,383; Apr. 10.
Taylor, George A., Boston, Mass. Piston. 1,665,229; Apr. 10, 1928.
Taylor, Herman E., Detroit, Mich. Transportation system. 1,665,483; Apr. 10.
Taylor, Lee J., New Bern, N. C. Apparatus and method for cooling carbonated water. 1,665,615; Apr. 10.
Taylor, Paul B., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Hydrocarbon engine. 1,665,288; Apr. 10.
Telling, Charles B., Cleveland, Ohio. Ice-cream-brick container. 1,665,681; Apr. 10.
Templeton, Edwin G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Disengaging device. 1,665,864; Apr. 10.
Templin, Ellis W., Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Motor-vehicle-driving mechanism. 1,665,865; Apr. 10.
Tettens, Oscar, Oerlinghausen Lippe, Germany. Production of unsintered binding means of oil shale and limestone and the like. 1,665,993; Apr. 10.
Thermo Path Company Limited. (See Van der Meersch, André E. M., assignor.)
Thomas, Edwin E., assignor to J. Kiernan, Portland, Oreg. Wrench. 1,666,511; Apr. 10.
Thomas, Edwin E., assignor to J. Kiernan, Portland, Oreg. Hand fire extinguisher. 1,665,512; Apr. 10.
Thomas, Edwin E., assignor to J. Kiernan, Portland, Oreg. Visor attachment for hats and caps. 1,665,513; Apr. 10.
Thompson, Ralph D., Toledo, Ohio. Device for application to the openings of outlet boxes and the like. 1,665,484. Apr. 10.
Thomson, Elihu, Swampscott, assignor of one-half to J. A. McManus, Lynn, Mass. Producing and reproducing sound records. 1,665,331; Apr. 10.
Thorbus, Clarence T., assignor to Richardson Grain Separator Co., Minneapolis, Minn. Grain separator. 1,665,756; Apr. 10.
Tillman, Richard, Mannheim, Germany. Packing device for pressure vessels. 1,665,827; Apr. 10.
Timken, Henry H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Axle construction. 1,665,332; Apr. 10.
Timken Roller Bearing Company, The. (See Schlaupitz, Oswald, assignor.)
Timken Roller Bearing Company, The. (See Timken, Henry H., assignor.)
Timson, William, Soho Foundry, Birmingham, assignor to W. & T. Avery, Limited, Birmingham, England. Automatic or semiautomatic weighing apparatus. 1,665,722; Apr. 10.
Tinnerman, Albert H., Cleveland, Ohio. Stove construction. 1,665,757; Apr. 10.
Todd, George M., Snoqualmie, Wash. Automatic lighter for stoves. 1,665,333; Apr. 10.
Topham, Charles F. (See Glover, W. H., and Topham.)
Toyoda, Kiichiro, Nagoya, Japan. Buffer for the picking arms in weaving looms. 1,665,514; Apr. 10.

Tozier, George H., assignor to Eastman Kodak Company, Rochester, N. Y. Lowering the viscosity of nitrocellulose in solutions by mechanical action. 1,666,049; Apr. 10.
Tractor Grip Wheel Company, The. (See Wine, William E., assignor.)
Traver, Lillian F., Sand Lake, N. Y. Garment. 1,665,232; Apr. 10.
Trembour, Max R., Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y. Sink-head top. 1,665,515; Apr. 10.
Tremper, Charles W., assignor to The Tremper-Shields Co., New Haven, Conn. Air-control device for air-operated sheet-feeding mechanisms. 1,665,723; Apr. 10.
Tremper-Shields Co., The. (See Tremper, Charles W., assignor.)
Trickey, John P., Evanston, and C. S. Miner, assignors to The Quaker Oats Company, Chicago, Ill. Making furfural resins. 1,665,233. Apr. 10.
Trickey, John P., Evanston, and C. S. Miner, assignors to The Quaker Oats Company, Chicago, Ill. Making furfural resins. 1,665,234; Apr. 10.
Trickey, John P., Evanston, and C. S. Miner, assignors to The Quaker Oats Company, Chicago, Ill. Furfuralcohol resins. 1,665,235; Apr. 10.
Trickey, John P., Evanston, and C. S. Miner, assignors to the Quaker Oats Company, Chicago, Ill. Obtaining furane derivatives. 1,665,236; Apr. 10.
Trickey, John P., Evanston, and C. S. Miner, assignors to The Quaker Oats Company, Chicago, Ill. Compound resinous substance and making same. 1,665,237; Apr. 10.
Trico Products Corporation. (See Folberth, F. G. and W. M., assignors.)
Trump, Edward H., Merton Park, London, England, assignors to Radio Corporation of America. Electrical condenser. 1,665,616; Apr. 10.
Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,665,866; Apr. 10.
Truscott, Starr. (See Jacobsohn, I. M., and Truscott.)
Turan, Louis, Brooklyn, N. Y. Container. 1,665,238; Apr. 10.
Turner, Edwin A. (See Lower, N. M., and Turner.)
Turner, Ivan, London, England. Rotary engines and the like. 1,665,994; Apr. 10.
Tuttle, Julius O. and R. C., Sioux City, Iowa. Drummer's game. 1,665,516; Apr. 10.
Tuttle, Roy C. (See Tuttle, Julius O. and R. C.)
Tuttle Silver Company. (See Dolan, Bernard A., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Switch & Signal Company, The. (See Padmore, Bertham R., assignor.)
Union Switch & Signal Company, The. (See Waterman, Frank N., assignor.)
United States Glass Company. (See Northwood, Charles O., assignor.)
U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
United States Tent & Awning Company. (See Dietz, Charles H., assignor.)
Universal Gear Shift Corporation. (See Craig, Alvin M., assignor.)
Universal Oil Products Company. (See Huff, Lyman C., assignor.)
Universal Winding Company. (See Swanson, Ernest R., assignor.)
Upham, Franklin S., Des Moines, Iowa. Toy train coupling. 1,665,758; Apr. 10.
Valentine, Charles W., assignor to The Bagley and Sewall Company, Watertown, N. Y. Paper-making machine. 1,665,614; Apr. 10.
Valleau, James H., Reno, Nev. Vehicle support. 1,665,646; Apr. 10.
Valley Mould & Iron Corporation. (See Perry, John E., assignor.)
Van de Carr, Charles R., jr., Quebec, Quebec, Canada. Method and apparatus for regulating the consistency of pulp stock and the like. 1,665,425; Apr. 10.
Van der Meersch, A. E. M., Chelsea, London, assignor to Thermo Path Company Limited, London England. Electric heater. 1,665,941; Apr. 10.
Van Dorn Iron Works Company, The. (See Whitehouse, John T., assignor.)
Vapor Car Heating Company. (See Gillick, Lawrence H., assignor.)
Varaud, André, Geneva, Switzerland. Mechanical fuse for artillery projectiles. 1,665,899; Apr. 10.
Vasselli, Anthony J., Newark, N. J., assignor, by mesne assignments, to Columbia Phonograph Company, Bridgeport, Conn. Phonograph record and making the same. 1,665,759; Apr. 10.
Vaughan, Olivia E., Newark, N. J. Tennis-racket carrier. 1,665,900; Apr. 10.
Vaught, Keith J., San Diego, Calif. Fence tool. 1,665,760; Apr. 10.
Veenschoten, Vincent V., Erie, Pa. Portable searchlight and mounting therefor. 1,665,803; Apr. 10.
Verdich, Hana P., Ellendale, N. Dak. Advertising light. 1,665,426; Apr. 10.
Versaw, Ernest M., Benton Harbor, Mich. Machine for applying handles to baskets and the like. 1,665,334; Apr. 10.
Victor X-Ray Corporation. (See Wantz, Julius B., assignor.)
Viers, Charles O., and L. D. Sheldon, Toledo, Ohio. Door mounting. 1,665,384; Apr. 10.
Viersen, Ipe A., Okmulgee, Okla. Automobile signal. Des. 74,903; Apr. 10.
Vincent, Harry S., Ridgewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y. Booster motor-truck construction. 1,665,335; Apr. 10.
Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wire fastener. 1,665,761; Apr. 10.
Von Gunten, Jacob, assignor to The Ohio Drilling Company, Massillon, Ohio. Well-casing shoe. 1,665,569; Apr. 10.
Von Korshenewski, Nicolai, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for multiplex directional receiving. 1,666,024; Apr. 10.
Von Reis, Lambert, Herzogenrath, Germany, assignor to Maatschappij tot Beheer en Exploitatie van Octrooien, Amsterdam, Netherlands. Manufacture of raw plate glass on multiroller glass-rolling machines. 1,665,427; Apr. 10.
Vox Maschinen-Aktiengesellschaft. (See Hornauer, Willy, assignor.)
Vulcan Motor Devices Company. (See Stevens, William C., assignor.)
Wachtel, Charles, New Hyde Park, N. Y. Electric boudoir lamp. 1,665,867; Apr. 10.
Wagner, Carl, Fort Morgan, Colo. Ditcher. 1,665,428; Apr. 10.
Walker, Hubert, Royal Oak, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Motor-vehicle bumper and mounting therefor. 1,665,336; Apr. 10.
Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Co., Inc., Belleville, N. J. Carburetor. 1,665,239; Apr. 10.
Wallace, Frank H., and W. H. Compton, Newry, S. C. Rocker-shaft bearing. 1,665,942; Apr. 10.
Wallace & Tiernan Co. (See Wallace, Charles F., assignor.)
Wallace, William G., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Radiator. 1,665,385; Apr. 10.
Walling, Frank E. (See McKee, M., and Roach, assignors.)
Wallis, Marie L., et al., executrices. (See Becker, Edmund.)
Walmer, Irving G., and J. A. Sawyer, Albany, N. Y. Face guard or mask. 1,665,386; Apr. 10.
Walsh, Philip J., San Francisco, Calif. Timing apparatus. 1,665,804; Apr. 10.
Walter, Frank J., assignor of one-half to G. B. Cady, Canastota, N. Y. Hollow punch. 1,665,805; Apr. 10.
Walters, Edward A., Youngstown, Ohio. Tire carrier. 1,665,647; Apr. 10.
Walther, George, Montgomery County, near Dayton, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Metal wheel. 1,665,485; Apr. 10.
Wantz, Julius B., Oak Park, assignor to Victor X-ray Corporation, Chicago, Ill. X-ray cooling system. 1,665,486; Apr. 10.
Ward, Erwin J., assignor to Eastman Kodak Company, Rochester, N. Y. Paster band for roll films. 1,666,050; Apr. 10.
Waream, Charles E., assignor to The American Laundry Machinery Company, Norwood, Ohio. Welded spring pad and making the same. 1,665,762; Apr. 10.
Warmington, Arthur L., Oakland, Calif. Steering wheel. 1,665,337; Apr. 10.
Washburn & Granger, Inc. (See Washburn, Montross, assignor.)
Washburn, Montross, Ossining, assignor to Washburn & Granger, Inc., New York, N. Y. Incinerator. 1,665,487; Apr. 10.
Waterman, Frank N., Summit, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical translating apparatus. 1,665,571; Apr. 10.
Waterous Fire Engine Works. (See Storey, Leonidas P., assignor.)
Waters-Genter Co. (See Forbes, Thomas C., assignor.)
Waters, Harry F., St. Louis, Mo. Valve action for pipe organs. 1,665,868; Apr. 10.
Waters, Lawrence W., Los Angeles, Calif. Electric windshield wiper. 1,665,570; Apr. 10.
Way, William P., Richmond Hill, N. Y. Bag holder and spreader. 1,665,724; Apr. 10.
Weaver, Marvin S., Aberdeen, N. C. Serving food and drink. 1,665,289; Apr. 10.
Weaver, William D., Hillsville, Pa. Screw driver. 1,665,240; Apr. 10.
Webb, George E. (See Lichtenberg, E. H., and Webb.)
Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Discharge mechanism for concrete mixers. 1,665,517; Apr. 10.
Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Rotary discharge chute. 1,665,518; Apr. 10.

Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Concrete-mixing machine. 1,665,519; Apr. 10.
Webster, Albert S. (See Smith, W. H., and Webster.)
Weed, James M., Scotia, N. Y., assignor to General Electric Company. Electric welding. 1,665,869; Apr. 10.
Weidemiller, John H. (See Smith, Charles E. B., assignor.)
Weiland, Henry J. (See Gubelmann, I., Weiland, and Stallmann.)
Weingartner, Anthony E., assignor to American Engineering Company, Philadelphia, Pa. Stoker mechanism. 1,665,943; Apr. 10.
Weiss, Carl W., Brooklyn, N. Y. Universal joint. 1,665,241; Apr. 10.
Welch, Henry. (See Stell, Alfred and J., and Welch.)
Weldfast System, Inc. (See Chase, Frank W., assignor.)
Wellington, George S., assignor of one-half to L. P. Barenchi, Los Angeles, Calif. Automobile signal. 1,665,648; Apr. 10.
Wells, Joel B., Philadelphia, Pa. Garment gauge. 1,665,682; Apr. 10.
Wells, William S., Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J. Shuttle box. 1,665,572; Apr. 10.
Welte Company. (See Cheek, Tolbert F., assignor.)
Wertzberger, Dallas D., Tulsa, Okla. Well-drilling derrick. 1,665,488; Apr. 10.
Wescott, Jay V., assignor to Du-Wel Steel Producta Co., Chicago, Ill. Track guard rail. 1,665,242; Apr. 10.
Westboro Weaving Company. (See Richard, E. C., and Gill, assignors.)
Westco-Chippewa Pump Company. (See Derrick, William I., assignor.)
Western Electric Company. (See Gorton, William S., assignor.)
Western Electric Company. (See Jammer, Jacob S., assignor.)
Western Electric Company. (See Mead, Edward D., assignor.)
Western Electric Company. (See Nottingham, Wayne B., assignor.)
Western Electric Company. (See Oswald, Arthur A., assignor.)
Western Electric Company. (See Peterson, Eugene, assignor.)
Western Electric Company. (See Schmitt, Hugo R., assignor.)
Western Electric Company. (See Schumacher, Earle E., assignor.)
Western Wheeled Scraper Company. (See Morton, Rolla A., assignor.)
Westin, Chester J., Rockaway, N. J., assignor to Wirebounds Patents Company. Machine for use in making boxes. 1,666,035; Apr. 10.
Westinghouse Electric & Manufacturing Company. (See Ashbaugh, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric and Manufacturing Company. (See De Vries, Andrew, assignor.)
Westinghouse Electric & Manufacturing Company. (See Dossert, J. J., and Greaves, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, R. D., and Sels, assignors.)
Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Getz, Benjamin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Guy, Henry L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Knapp, Charles N. F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lenehan, Bernard E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Newmeyer, William L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Peters, William G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rodman, Clarence J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Howard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Söderberg, Carl R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Staege, Stephen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
Westinghouse Lamp Company. (See Amatel, Harold, assignor.)
Westinghouse Lamp Company. (See Marden, John W., assignor.)
Westinghouse Lamp Company. (See Marden, J. W., and Conley, assignors.)
Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
Westinghouse Union Battery Company. (See Norris, P. E., and Aldrich, assignors.)
Wetmore, Laurence, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Shaping device. 1,665,870; Apr. 10.
Wettlaufer, William H. (See Lamotke, Frederick, assignor.)
Wheelan, Robert B., Brooklyn, N. Y. Loud speaker. 1,665,826; Apr. 10.
Wheeler, Bradley P., jr., Buffalo, N. Y. Core for hollow-wall construction. 1,665,573; Apr. 10.
Whitacre-Greer Fireproofing Company, The. (See Borsenberger, Emil E., assignor.)
White, Ira C., Brownsville, Ark. Poultry roost. 1,665,290; Apr. 10.
White, J. J., Manufacturing Company. (See White, Joseph J., assignor.)
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Ring or similar article of manufacture. Des. 74,904; Apr. 10.
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Ring or similar article of manufacture. Des. 74,905; Apr. 10.
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Ring or similar article of manufacture. Des. 74,906; Apr. 10.
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Ring or similar article of manufacture. Des. 74,907; Apr. 10.
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Ring or similar article of manufacture. Des. 74,908; Apr. 10.
White, Joseph J., assignor to J. J. White Manufacturing Company, Providence, R. I. Ring or similar article of manufacture. Des. 74,909; Apr. 10.
White Motor Company, The. (See Jehle, Ferdinand, assignor.)
White, Richard P., Chicago, Ill. Ball ear. 1,665,828; Apr. 10.
White, Richard P., Chicago, Ill. Ball ear for vessels. 1,665,829; Apr. 10.
Whitehouse, John T., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Jail-door-locking mechanism. 1,665,243; Apr. 10.
Whitescarver, Charles T., and G. Bendixen, New York, N. Y. Spreader tie for concrete wall forms. 1,665,649; Apr. 10.
Whitney Mfg. Co., The. (See Dow, Richard F., assignor.)
Whitney, Wiley, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,665,338; Apr. 10.
Whitten, Herbert W. (See Glaser, J. P., Julien, and Whitten.)
Whyte, James C. (See Sloate, A. C., and Whyte.)
Wicks, John, assignor, by mesne assignments, to Automatic Electric Inc., Oak Park, Ill. Telephone system. 1,665,489; Apr. 10.
Wiel, Eli H., assignor to Buckingham & Hecht, San Francisco, Calif. Shoe or boot. 1,665,763; Apr. 10.
Wiley, Andrew J., Boise, Idaho. Metal base for timber poles. 1,665,995; Apr. 10.
Wiley, William R., Mount Clemens, Mich. Built-up piston. 1,665,830; Apr. 10.
Wilkes, William H., New York, N. Y., assignor to National Advertising Corporation, St. Louis, Mo. Coupon bank deposit book. 1,665,574; Apr. 10.
Williams, Dayton L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Breaker,applying device. 1,665,831; Apr. 10.
Williams, James E., Denver, Colo. Whiffletree. 1,665,244; Apr. 10.
Willoughby, Victor. (See Joy, R. W., and Willoughby.)
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Refrigerator car. 1,665,387; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Hopper car. 1,665,388; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake-rod jaw. 1,665,389; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,665,390; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Safety valve. 1,665,391; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Car roof. 1,665,392; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake mechanism. 1,665,393; Apr. 10.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Safety valve. 1,665,394; Apr. 10.
Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Lamp shade. 1,665,617; Apr. 10.
Wilson, Edwin B., Forest Hills, N. Y. Ornamental object. 1,665,618; Apr. 10.

Wilson, Frank, sr., assignor to A. W. Reboul, Los Angeles, Calif. Rail and tie clamp. 1,665,575; Apr. 10.
Wine, William E., assignor to The Tractor Grip Wheel Company, Toledo, Ohio. Traction wheel. 1,666,036; Apr. 10.
Wine, William E., and J. W. Promenschenkel, assignors to The Tractor Grip Wheel Company, Toledo, Ohio. Traction wheel. 1,666,037; Apr. 10.
Wirebounds Patents Company. (See Westin, Charles J., assignor.)
Wise, Frederick, C., and W. Greenwood, London, England, assignors to Alfred Dunhill of London, Inc., New York, N. Y. Flint lighter. Re16,930; Apr. 10.
Witham, Carl A., Minneapolis, Minn. Bag of paper or other flexible material. 1,665,576; Apr. 10.
Wood, Franz J., Des Moines, Iowa. Water-heater attachment for furnaces. 1,665,520; Apr. 10.
Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Refrigerating machine. 1,665,871; Apr. 10.
Wood, John P. N., East Winterhaven, Fla. Fire-pot mold. 1,665,650; Apr. 10.
Woods Brothers Construction Co. (See Howard, Marshall, assignor.)
Woolsey, Charles A., Minneapolis, Minn. Crate. 1,665,245; Apr. 10.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Carburetor. 1,665,395; Apr. 10.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,665,396; Apr. 10.
Wrentmore, Ernest L., deceased, Warren, Ohio; (Mrs.) M. V. Wrentmore, administratrix. Internal-combustion engine. 1,665,521; Apr. 10.
Wrentmore, Maude V., administratrix. (See Wrentmore, Ernest L.)
Wright, Warren C., Chicago, Ill. Flush valve. 1,665,832; Apr. 10.
Wunsch, Felix, assignor to Leeds & Northrup Company, Philadelphia, Pa. Electrical measuring apparatus. 1,665,397; Apr. 10.
Wurlitzer, Rudolph, Manufacturing Company, The. (See Battner, Stephen, assignor.)
Yale & Towne Manufacturing Company, The. (See Soley, Frank, assignor.)
York, Allen B., assignor to M. L. Bruce, Sandpoint, Idaho. Puncturing machine. 1,665,764; Apr. 10.
Young, Arthur, et al., administrators. (See Deppé, W. P., and Summers.)
Young, Harvey L., assignor to J. R. Gammeter, Akron, Ohio. Electrical connection and making the same. 1,665,246; Apr. 10.
Young, Hugh, Mirando City, Tex. Leverage vise. 1,665,247; Apr. 10.
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,665,577; Apr. 10.
Young, L. A., Industries. (See Falls, William A., assignor.)
Youngblood, David F., San Antonio, Tex. Pneumatic cage for prisons, vaults, and the like. 1,665,651; Apr. 10.
Zell, David H., Brooklyn, N. Y. Coin bank. Des. 74,910; Apr. 10.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Shaping machine having constant power traverse. 1,665,398; Apr. 10.
Zork, David, Chicago, Ill. Extension table. 1,665,833; Apr. 10.
Zumbühl, Jules, Basel, Switzerland. Transposing device for keyed instruments. 1,666,025; Apr. 10.
Zuschlag, Theodor, New York, N. Y., assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone system. 1,665,683; Apr. 10.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abdominal support. D. C. Kellogg. 1,665,502; Apr. 10.
Abrasive roll. D. C. Scott. 1,665,609; Apr. 10.
Acid, Making hydrofluoric. W. J. Harshaw and C. S. Parke. 1,665,588; Apr. 10.
Acoustic diaphragm. J. Q. Slye and R. H. Coffren. 1,665,284; Apr. 10.
Addressing machine, Hand. J. S. Duncan and H. E. Hubbard. 1,665,583; Apr. 10.
Adhesive-applying device. W. H. Baynard. 1,666,039; Apr. 10.
Adjustment device, Precision. J. B. Gammeter and C. C. Cadden. 1,665,848; Apr. 10.
Advertising device. R. L. Reichard. 1,665,894; Apr. 10.
Advertising light. H. P. Verdich. 1,665,426; Apr. 10.
Aerial signaling. E. Becker. 1,665,838; Apr. 10.
Aeroplane. N. Bule. 1,665,769; Apr. 10.
Aeroplane. A. A. Nero. 1,665,713; Apr. 10.
Agitator. E. B. Nichols. 1,665,780; Apr. 10.
Air-brake mechanism. C. N. F. Knapp. 1,665,928; Apr. 10.
Aircraft covering. I. M. Jacobsohn and S. Truscott. 1,665,500; Apr. 10.
Airplane. N. M. Sleeper. 1,665,480; Apr. 10.
Airplanes, Tail-skid shoe for. J. F. Haberlin. 1,665,849; Apr. 10.
Air register. C. Strachan and D. J. Irish. 1,665,800; Apr. 10.
Airship, Gas inflated. E. Lempertz. 1,665,886; Apr. 10.
Alarm: *See*—
  Fire alarm.
Alarm device. W. C. Roe. 1,665,677; Apr. 10.
Alkyl ethers of 3'-nitro 4'-hydroxy ortho-benzoyl benzoic acid, Preparing. I. Gubelmann, H. J. Welland, and O. Stallmann. 1,665,541; Apr. 10.
Amplifier. I. F. Byrnes. 1,665,843; Apr. 10.
Amplifier. E. W. Graef. 1,665,699; Apr. 10.
Amplifying repeater. J. S. Jammer. 1,665,501; Apr. 10.
Amusement apparatus. E. Mayette. 1,666,018; Apr. 10.
Amusement apparatus. H. N. Ridgway. 1,665,981; Apr. 10.
Amusement device. M. E. Huth. 1,665,364; Apr. 10.
Anchor mounting, Safety. A. Bardello. 1,665,837; Apr. 10.
Anchor, Rail. M. C. Lenoir. 1,665,814; Apr. 10.
Anticreeper. H. G. Gillmor. 1,665,696; Apr. 10.
Arsenical compound. C. S. Hamilton. 1,665,781; Apr. 10.
Articulator. G. P. Phillips. 1,666,021–2; Apr. 10.
Artificial fogs, Producing. A. V. Jernberg. 1,665,267; Apr. 10.
Asphalt-mixing plant, Portable. E. H. Cummer. 1,665,405; Apr. 10.
Assemblage-point device. H. Arnstein. 1,665,872; Apr. 10.
Auto control, Safety. C. E. Shearon, J. D. Alexander, and L. M. Pearcey. 1,665,281; Apr. 10.
Automatic lock. G. Feeney and T. O'Connor. 1,665,952; Apr. 10.
Automobile. H. Brusch. 1,665,441; Apr. 10.
Automobile. L. Nycz. 1,665,974; Apr. 10.
Automobile heater. E. Aeby. 1,665,725; Apr. 10.
Automobile luggage carrier. M. O'Dea. 1,665,892; Apr. 10.
Automobile signal. I. A. Viersen. Des. 74,903; Apr. 10.
Automobile signal. G. S. Wellington. 1,665,648; Apr. 10.
Automobile turntable. J. G. Austin. 1,665,997; Apr. 10.
Automobiles, Signal system and direction indicator for. C. F. A. Eddy. 1,665,584; Apr. 10.
Awning arm. C. H. Dietz. Des. 74,867–71; Apr. 10.
Axle construction. H. H. Timken. 1,665,332; Apr. 10.
Bag: *See*—
  Punching bag.
Bag holder and spreader. W. P. Way. 1,665,724; Apr. 10.
Bail ear. R. P. White. 1,665,828; Apr. 10.
Balancing machine. C. R. Soderberg. 1,665,938; Apr. 10.
Balancing machine. W. E. Trumpler. 1,665,866; Apr. 10.
Band or tube corrugating and flanging machine, Combination. C. B. Pritchard. Re16,931; Apr. 10.
Bank, Coin. J. H. Stapp. Des. 74,901; Apr. 10.
Bank, Coin. D. H. Zell. Des. 74,910; Apr. 10.
Bank, Savings. Z. M. Speer. 1,665,824; Apr. 10.
Bathtubs and utilizing same, Protecting covering for. R. E. Henry. 1,665,206; Apr. 10.
Battery: *See*—
  Storage battery.
Battery construction, Storage-. C. C. Carpenter. 1,665,772; Apr. 10.
Battery plate and producing same, Storage-. C. W. Jenner. 1,665,962; Apr. 10.
Battery separator, Storage-. P. E. Norris and H. H. Aldrich. 1,665,604; Apr. 10.
Bearing, Ball. C. W. Dake. 1,665,448; Apr. 10.
Bearing, Rocker-shaft. F. H. Wallace and W. H. Compton. 1,665,942; Apr. 10.
Bed, Portable folding. C. Lofman. 1,665,668; Apr. 10.
Belt sander, Double-. C. L. Mattison. 1,665,740; Apr. 10.
Berry box. F. G. Haas. 1,665,359; Apr. 10.
Bimetallic element. H. Scott. 1,665,935; Apr. 10.
Bituminous product and making same. E. Hutzenlaub. 1,665,881; Apr. 10.
Block: *See*—
  Building block. Engraving block.
Board: *See*—
  Piano fall board. Report board.
Boat or drag, Wooden. H. A. Drake. 1,665,449; Apr. 10.
Boiler: *See*—
  Steam boiler. Water-tube boiler.
Boiler construction. F. D. Schneider and H. J. Long. 1,665,608; Apr. 10.
Boiler fire box. J. T. Anthony. 1,665,339; Apr. 10.
Boll-weevil destroyer. C. A. Hellmann. 1,665,960; Apr. 10.
Bolt. M. A. Comeau. 1,665,875; Apr. 10.
Books, Supplemental leaf-attaching device for. B. J. Reese. 1,665,641; Apr. 10.
Bootleg. F. C. and H. B. Lavarack. 1,665,629; Apr. 10.
Bottle. R. Haley. Des. 74,883; Apr. 10.
Bottles, tins, or other containers, Apparatus for filling. H. F. Broadhurst. 1,665,948; Apr. 10.
Bow tie and making the same. G. R. Miller. 1,665,712; Apr. 10.
Box: *See*—
  Berry box. Shuttle box.
  Boiler fire box.
Bracelet, Expansible. F. W. Nittel. 1,666,033; Apr. 10.
Bracket: *See*—
  Dead-end bracket. Shade-supporting bracket.
  Metal bracket.
Bracket or similar article, Curtain pole. J. O. Crawford. Des. 74,864; Apr. 10.
Brake: *See*—
  Hand brake. Vehicle brake.
  Thermostatic brake.
Brake device. O. Peterson. 1,665,753; Apr. 10.
Brake equalizer. H. Ford. 1,665,258; Apr. 10.
Brake mechanism. V. R. Willoughby. 1,665,393; Apr. 10.
Brake mechanism operated by suction. W. O. Kennington. 1,665,306; Apr. 10.
Brake-operating mechanism, Electric. C. E. B. Smith. 1,665,227; Apr. 10.
Brake-rod jaw. V. R. Willoughby. 1,665,389; Apr. 10.
Brake shoe. A. Y. Dodge. 1,665,690; Apr. 10.
Breaker-applying device. D. L. Williams. 1,665,831; Apr. 10.
Buffer. H. S. Anderson and J. B. Brown. 1,665,292; Apr. 10.
Buffer, Manicuring. Z. R. Lucas and G. E. Carpender. 1,665,710; Apr. 10.
Building block. L. J. Campbell. 1,665,442; Apr. 10.
Bumper. F. N. Nutt. 1,665,320; Apr. 10.
Bumper and mounting therefor, Motor-vehicle. H. Walker. 1,665,336; Apr. 10.
Bumper, Motor-vehicle. W. A. Dierker. 1,665,536; Apr. 10.
Bumpers, Attachment for. H. Hamburger. 1,665,780; Apr. 10.
Burner: *See*—
  Incense burner.
Burr cutter. C. E. Pellow. 1,665,474; Apr. 10.
Cabinet, Article. S. R. Side. 1,665,986; Apr. 10.
Cabinet wringer. J. J. Dossert and E. E. Greaves. 1,665,912; Apr. 10.
Cable clamp. E. K. Cole. 1,665,531; Apr. 10.
Cables, Apparatus for lubricating wire. L. G. Gates. 1,665,451; Apr. 10.

Cage, Bird. L. J. Leon. Des. 74,891; Apr. 10.
Cage for prisons, vaults, and the like, Pneumatic. D. F. Youngblood. 1,665,651; Apr. 10.
Cake-splitting machine. J. R. Litty. 1,665,888; Apr. 10.
Calling device. L. L. E. Chauveau. 1,665,622; Apr. 10.
Can and closure. F. J. Costello. 1,665,908; Apr. 10.
Canopy, Bed. W. E. Rawlins. 1,665,980; Apr. 10.
Cap attachment for visors. M. McKee and C. A. Roach. 1,665,750; Apr. 10.
Cap extractor. E. V. Benoit. 1,665,524; Apr. 10.
Car bunk, High-stake. F. W. Chriswell. 1,665,623; Apr. 10.
Car-deck support, Kiln-. C. W. Laachenski. 1,665,631; Apr. 10.
Car, Hopper. V. Willoughby. 1,665,388; Apr. 10.
Car, Mine. V. Willoughby. 1,665,390; Apr. 10.
Car, Refrigerator. V. Willoughby. 1,665,387; Apr. 10.
Car roof. V. Willoughby. 1,665,392; Apr. 10.
Car seal. F. Strahm. 1,665,424; Apr. 10.
Car-tank closure. R. W. Joy and V. Willoughby. 1,665,369; Apr. 10.
Cars, Adjustable blocking for. W. J. Brown. 1,665,439; Apr. 10.
Carbonated water. Method and apparatus for cooling. L. J. Taylor. 1,665,615; Apr. 10.
Carburetor. C. F. Wallace. 1,665,239; Apr. 10.
Carburetor. L. M. Woolson. 1,665,395; Apr. 10.
Carburetors, Air cleaner for. A. C. Bennett. 1,665,434; Apr. 10.
Carburetors, Throttle control for. F. E. Dayes. 1,665,407; Apr. 10.
Card-feed mechanism and method. H. B. Smith. 1,665,937; Apr. 10.
Carrier: *See*—
  Automobile luggage carrier. Tennis-racket carrier.
  Hat carrier. Tire carrier.
Carrier-wave transmission. H. R. Schmitt. 1,665,328; Apr. 10.
Carton, Shipping and display. H. Amatel. 1,665,620; Apr. 10.
Case: *See*—
  Cigarette case. Jewelry case.
Caster. N. L. and F. J. Jarvis. 1,665,882; Apr. 10.
Casting machine, Centrifugal. J. K. Hencken. 1,665,700; Apr. 10.
Casting, Nonferrous. R. L. Binney. 1,665,435; Apr. 10.
Castings, Method and machine for finishing circular. W. Y. Stroh and G. W. Klages. 1,665,286; Apr. 10.
Chafing-strip applier. E. F. Maas. 1,665,889; Apr. 10.
Chain and links therefor, Drive. R. F. Dow. 1,665,808; Apr. 10.
Chassis, Motor-vehicle. J. Shaw. 1,665,610; Apr. 10.
Chloride from sludge, Recovering aluminum. P. Danckwardt. 1,665,406; Apr. 10.
Chute, Leading. F. De Roos. 1,665,493; Apr. 10.
Chute, Rotary discharge. G. E. Webb. 1,665,518; Apr. 10.
Cigar holder and ash receiver. J. Stern. 1,665,612; Apr. 10.
Cigarette case. J. Parsons. 1,665,752; Apr. 10.
Circuit breaker. F. W. Roller. 1,665,223; Apr. 10.
Circuit interrupter. W. L. Newmeyer. 1,665,858; Apr. 10.
Clamp: *See*—
  Cable clamp. Rail and tie clamp.
Clamp. C. H. Fernald. 1,665,877; Apr. 10.
Clams, Device for propagation of. R. C. Adams and J. T. Adams. 1,665,996; Apr. 10.
Cleaner: *See*—
  Window cleaner. Windshield cleaner.
Cleaning apparatus, J. S. Campbell. 1,665,727; Apr. 10.
Cleaning apparatus, Tank-. G. W. Land. 1,666,015; Apr. 10.
Cleaning rod and extracting device. L. F. Smith. 1,665,988; Apr. 10.
Cleansing machine. W. H. Dunn. 1,665,809; Apr. 10.
Clip: *See*—
  Fuse clip.
Clock and lamp, Combined alarm. F. J. T. Hall. 1,665,412; Apr. 10.
Clock mounting. W. D. Clark. 1,665,491; Apr. 10.
Clock with rotary operating members. W. E. Porter. 1,665,476; Apr. 10.
Closure cap, Friction. E. Scofield. 1,665,821; Apr. 10.
Clutch. A. A. Byerlein. 1,665,999; Apr. 10.
Clutch. G. F. Kolb. 1,665,554; Apr. 10.
Clutch drums, Producing. H. S. MacChesney. 1,665,875; Apr. 10.
Clutch mechanism. A. Dow. 1,665,409; Apr. 10.
Coffee-making apparatus. B. W. Canright. 1,665,728; Apr. 10.
Coil, Inductance. T. H. Brennan. 1,665,947; Apr. 10.
Coin-changing machine. W. H. Russell. 1,665,566; Apr. 10.
Coin-paying machine. E. J. Brandt. 1,665,343; Apr. 10.
Coke, Producing a hard low-temperature. K. Jahnke. 1,665,665; Apr. 10.
Combination lock. F. Soley. 1,665,990; Apr. 10.
Combustion method and apparatus. V. Z. Caracristi. 1,665,344; Apr. 10.
Compass indicator for automobiles, etc. O. P. Nolsom. 1,665,715; Apr. 10.
Concrete-floor core. W. S. Haldeman. 1,665,542; Apr. 10.
Concrete mixers, Cement loading, controlling, measuring, and mounting apparatus for. J. F. Robb. 1,665,565; Apr. 10.
Concrete mixers, Discharge mechanism for. G. E. Webb. 1,665,517; Apr. 10.
Concrete mixers, Water-introducing means for. E. H. Lichtenberg and G. E. Webb. 1,665,314; Apr. 10.
Concrete-mixing machine. G. E. Webb. 1,665,519; Apr. 10.
Concrete wall forms, spreader tie for. C. T. Whitescarver and G. Bendixen. 1,665,649; April 10.
Condenser, Electrical. E. H. Trump. 1,665,616; Apr. 10.
Condenser rack. H. I. Danziger. 1,666,044; Apr. 10.
Container. L. A. Lux. 1,665,711; Apr. 10.
Container. L. Turan. 1,665,238; Apr. 10.
Container. J. M. Young. 1,665,577; Apr. 10.
Container and picture frame. Combination. H. A. Kretschmer. Des. 74,889; Apr. 10.
Container, Ice-cream-brick. C. B. Telling. 1,665,681; Apr. 10.
Container, Liquid. L. O. Buist. 1,665,770; Apr. 10.
Convertible body. R. Beringer. 1,665,294; Apr. 10.
Conveyer flight. F. H. Lamb. 1,665,373; Apr. 10.
Core for hollow-wall construction. B. P. Wheeler, jr. 1,665,573; Apr. 10.
Corn roaster. W. Simek. 1,665,225; Apr. 10.
Corn-shucking machine. J. E. Crabill. 1,665,404; Apr. 10.
Coupling: *See*—
  Hose or pipe coupling. Train coupling.
  Shaft coupling.
Coupling device for rotatable elements. H. L. Tanner. 1,665,613; Apr. 10.
Coupon bank deposit book. W. H. Wilkes. 1,665,574; Apr. 10.
Crate. C. A. Woolsey. 1,665,245; Apr. 10.
Crate, Collapsible. T. S. Huston. 1,665,266; Apr. 10.
Crossing signal. J. W. Kennedy. 1,665,592; Apr. 10.
Cultivator. T. A. Moore. 1,665,559; Apr. 10.
Cup-dispensing machine. F. Graffenberger. 1,666,008; Apr. 10.
Curler, Electrical hair. A. H. Opperman. 1,665,472; Apr. 10.
Curling instrument. T. T. Rissinger. 1,665,327; Apr. 10.
Curling iron. F. F. Forshee. 1,665,919; Apr. 10.
Curling-iron heater. H. G. Levy. 1,665,746; Apr. 10.
Current device, Alternating-. B. E. Lenehan. 1,665,854; Apr. 10.
Current generator, Two-voltage direct-. L. Dreyfus. 1,665,691; Apr. 10.
Current units, Protective device for three-phase alternating-. J. D. Lewis. 1,665,313; Apr. 10.
Curtains, draperies, and the like, Rod for. J. Kernes. 1,665,704; Apr. 10.
Cutter: *See*—
  Burr cutter. Strawberry top and runner cutter.
  Grinder cutter.
  Pipe cutter.
Cutting machine. L. E. Lentz. 1,665,213; Apr. 10.
Cutting mechanism for pulp and like machines. C. W. Sponsel. 1,665,644; Apr. 10.
Cutting paper shell blanks from a continuous roll of paper, Mechanism for. W. T. Ayer. 1,665,834; Apr. 10.
Damper. T. Olinger. 1,665,716; Apr. 10.
Dead-end bracket. L. E. Hendee. 1,665,498; Apr. 10.
Decorating apparatus. A. C. Parker. 1,665,321; Apr. 10.
Decorticating machine. F. Michotte. 1,665,971; Apr. 10.
Derrick, Well-drilling. D. D. Wertzberger. 1,665,488; Apr. 10.
Desk accessory. H. A. Feigelman. Des. 74,878; Apr. 10.
Die. G. A. Delf. 1,665,203; Apr. 10.
Die for hollow tile. E. E. Borsenberger. 1,665,342; Apr. 10.
Die head. S. F. Newman. 1,665,973; Apr. 10.
Dilator and applicator appliance, Combination. A. F. Reitz. 1,665,564; Apr. 10.
Disengaging device. E. G. Templeton. 1,665,864; Apr. 10.
Discharge device, System including space. A. A. Oswald. 1,665,674; Apr. 10.
Dishwasher. P. E. Skelton. 1,665,423; Apr. 10.
Disk drill, Rotary. H. H. Holdaway. 1,665,457; Apr. 10.
Disk-forming machines, Method and apparatus for feeding rotating. J. W. Smith. 1,665,823; Apr. 10.
Disk, Pocketed separating. C. C. Ingraham. 1,665,549; Apr. 10.
Disk separator. C. C. Ingraham. 1,665,548; Apr. 10.
Dispensing device, Liquid-. N. S. Hillyard. 1,665,925; Apr. 10.
Display stand. J. A. Lubbers. 1,665,271; Apr. 10.
Ditcher. C. Wagner. 1,665,428; Apr. 10.
Doorframe, Fire-tile. M. Liptak. 1,665,555; Apr. 10.
Door mounting C. O. Viers and L. D. Sheldon 1,665,384; Apr. 10.
Draft appliance. R. A. Morton. 1,665,817; Apr. 10.
Drafting instrument. L. G. Strickland. 1,665,898; Apr. 10.
Dredging pipe and manufacture thereof, Land-. J. J. Kane. 1,665,591; Apr. 10.
Drill: *See*—
  Disk drill.

Drills, Mounting for rock. E. B. Lear. 1,665,269; Apr. 10.
Drilling apparatus, attachment for well-. C. E. Hazel and H. C. Montgomery. 1,665,547; Apr. 10.
Drilling machine. R. M. Galloway and P. C. Burton. 1,665,411; Apr. 10.
Driving composite piles. H. R. Smith. 1,665,228; Apr. 10.
Driving mechanism. S. R. Howard. 1,665,463; Apr. 10.
Dry separating table. R. W. Arms. 1,665,249; Apr. 10.
Drying fruits. H. Heidenhain. 1,665,627; Apr. 10.
Drying press. A. W. Caps. 1,665,403; Apr. 10.
Easer joint. R. S. Bohannan. 1,665,906; Apr. 10.
Egg beater. S. S. Graves. 1,665,879; Apr. 10.
Egg holder. E. E. Pinkerton. 1,665,420; Apr. 10.
Ejector for boilers, Soot and sifting. C. L. Davidson. 1,665,625; Apr. 10.
Elastic connection. R. G. Standerwick. 1,665,897; Apr. 10.
Electric-current transmission. W. S. Gorton. 1,665,698; Apr. 10.
Electric cut out. J. R. Brown. 1,665,841; Apr. 10.
Electric fixture, Detachable. W. Symmes. 1,665,802; Apr. 10.
Electric furnace for treating ores, shales, etc. F. E. Hatch. 1,665,546; Apr. 10.
Electric heater. W. S. Johnson and J. W. Sheffer. 1,665,367; Apr. 10.
Electric heater. M. K. Purdy and W. H. Reagle. 1,665,561; Apr. 10.
Electric heater. A. E. M. Van der Meersch. 1,665,941; Apr. 10.
Electric iron. G. Browning. 1,665,768; Apr. 10.
Electric-iron cord control. B. E. Matthews. 1,665,316; Apr. 10.
Electrical connection and making the same. H. L. Young. 1,665,246; Apr. 10.
Electrical network and its operation. E. Peterson. 1,665,325; Apr. 10.
Electromagnetic device. E. D. Mead. 1,665,318; Apr. 10.
Electromagnetic detecting device. C. E. Godkin. 1,665,662; Apr. 10.
Electromechanical interlock. T. Brady. 1,665,526; Apr. 10.
Electron-discharge device. W. A. Ruggles. 1,665,896; Apr. 10.
Electron-discharge device and circuit therefor. E. E. Schumacher. 1,665,508; Apr. 10.
Electron-emission material, Activation of. J. W. Marden and J. E. Conley. 1,665,636; Apr. 10.
Elevator: *See*—
Sucker-rod elevator.
Engine: *See*—
Hydrocarbon engine. Internal-combustion engine.
Engine. H. M. Crane. 1,665,298; Apr. 10.
Engine and the like, Rotary. I. Turner. 1,665,994; Apr. 10.
Engine-turning machine. F. J. Kristofek and W. F. Benson. 1,665,372; Apr. 10.
Engines, Cooling system for internal-combustion. C. F. Kettering. 1,665,307; Apr. 10.
Engines, Lubrication system for internal-combustion. F. Jehle. 1,665,366; Apr. 10.
Engraving block. H. Plummer. 1,665,819; Apr. 10.
Excavating and producing foundations. G. B. Sipe. 1,665,797; Apr. 10.
Exhaust trap. A. J. Culp. 1,666,005; Apr. 10.
Expansion-joint material. C. J. Pater. 1,665,718; Apr. 10.
Extension table. D. Zork. 1,665,833; Apr. 10.
Extractor: *See*—
Cap extractor.
Eyeglasses. J. Gaspari. Des. 74,879; Apr. 10.
Fabric: *See*—
Structure fabric.
Face-spraying device. M. Landberg. 1,665,744; Apr. 10.
Fastener. W. M. Hunter. 1,665,303; Apr. 10.
Fastener, Wire. G. F. Voight. 1,665,761; Apr. 10.
Faucet and vent, Combination. H. Aebli. 1,665,490; Apr. 10.
Feed-roller support. C. S. Lenston. 1,665,596; Apr. 10.
Fender-guard plate. R. H. Dane. 1,665,492; Apr. 10.
Fender, Safety. H. Brusch. 1,665,251; Apr. 10.
Filing device, Paper-. F. J. Kline. 1,665,705; Apr. 10.
Films, Paster band for roll. E. J. Ward. 1,666,050; Apr. 10.
Filter. R. Clade and H. B. Ensign. 1,665,845; Apr. 10.
Finger ring. M. C. Lang. Des. 74,890; Apr. 10.
Fire alarm. S. Giangrasso. 1,665,956; Apr. 10.
Fire alarm, Automatic. J. and W. H. Siddall. 1,665,381; Apr. 10.
Firearms, Device for cleaning. D. C. Hooker. 1,665,961; Apr. 10.
Firecracker machine. J. B. Decker. 1,665,300; Apr. 10.
Fire extinguisher, Hand. E. E. Thomas. 1,665,512; Apr. 10.
Fire-pot mold. J. P. N. Wood. 1,665,650; Apr. 10.
Fire wall. M. Liptak. 1,665,556; Apr. 10.
Fish grapple. A. E. Glessale. 1,665,661; Apr. 10.
Flatiron. E. D. Campbell. 1,665,295; Apr. 10.
Flexible joint. A. B. Clisson. 1,665,655; Apr. 10.
Flexible joint. L. H. Gillick. 1,665,810; Apr. 10.
Floor construction. T. J. Foster. 1,666,061; Apr. 10.
Floor filler with pyroxylin base. A. M. Taylor and F. A. Buote. 1,665,383; Apr. 10.
Floor jointing or tightening device. F. W. Arzt. 1,665,430; Apr. 10.
Floor scraper. N. Binger. 1,665,766; Apr. 10.
Fluid heating. J. E. Bell. 1,666,028; Apr. 10.
Fly swatter. J. A. Lubbers. 1,665,270; Apr. 10.
Flushing system. C. Fabian. 1,665,777; Apr. 10.
Fork or similar article. B. A. Dolan. Des. 74,874; Apr. 10.
Frame: *See*—
Door frame. Seat frame.
Necktie frame.
Fuel, Balanced motor. E. F. Chandler. 1,665,621; Apr. 10.
Fuel-burning furnace, Pulverized-. J. Anderson. 1,665,390; Apr. 10.
Fuel economizer. F. Lamotke. 1,665,630; Apr. 10.
Fuel-supply means for boilers, Automatic. R. H. Beaumont. 1,666,027; Apr. 10.
Furane derivatives, Obtaining. J. P. Trickey and C. S. Miner. 1,665,236; Apr. 10.
Furnace: *See*—
Fuel burning furnace. Steam boiler furnace.
Furnace front. D. J. Irish. 1,665,786; Apr. 10.
Furnace-regulator unit. A. H. McCulloch. 1,665,599; Apr. 10.
Furnaces, Cooling brickwork of. A. E. Getz. 1,665,205; Apr. 10.
Furnaces, Water-heater attachment for. F. J. Wood. 1,665,520; Apr. 10.
Fuse. N. J. Conrad. 1,665,445; Apr. 10.
Fuse clip. N. J. Conrad. 1,665,446; Apr. 10.
Fuse, Electric. H. T. Bussmann. 1,665,528; Apr. 10.
Fuse for artillery projectiles, Mechanical. A. Varaud. 1,665,899; Apr. 10.
Fuse, Percussion. O. Junghans. 1,665,666; Apr. 10.
Game board. J. Chadillon. Des. 74,862; Apr. 10.
Game, Card. A. L. Becket. 1,665,903; Apr. 10.
Game, Drummer's. J. O. and R. C. Tuttle. 1,665,516; Apr. 10.
Garment. J. Pollak. 1,665,507; Apr. 10.
Garment. L. F. Traver. 1,665,232; Apr. 10.
Garment gauge. J. B. Wells. 1,665,682; Apr. 10.
Gauge: *See*—
Garment gauge. Wheel-pitch gauge.
Profile gauge.
Gear, Coaster-wagon steering. A. C. Carlson. 1,665,729; Apr. 10.
Gear of electric switches, Operating. A. Allan and H. W. Clothier. 1,665,291; Apr. 10.
Gear shift. A. M. Craig. 1,665,909; Apr. 10.
Gear, Transmission. S. W. Holdener. 1,665,701; Apr. 10.
Generator: *See*—
Current generator.
Glass and its manufacture. E. E. Fisher. 1,665,693–4; Apr. 10.
Glass feeder. V. E. Hofmann and L. D. Soubier. 1,665,362; Apr. 10.
Glass, Manufacture of strengthened. P. H. Head. 1,665,413; Apr. 10.
Glass on multiroller glass-rolling machines, Manufacture of raw plate. L. Von Reis. 1,665,427; Apr. 10.
Glass or the like, Smoothing and polishing. P. J. M. Escole. 1,665,776; Apr. 10.
Glissometer. C. J. Rodman. 1,665,933; Apr. 10.
Glove. F. X. Sturm. 1,666,023; Apr. 10.
Goblet or similar article. C. O. Northwood. Des. 74,893; Apr. 10.
Golf club. E. C. Boyce. 1,665,523; Apr. 10.
Golf club. W. J. Hadden. 1,665,811; Apr. 10.
Golf-club grip. J. A. Novak. 1,665,791; Apr. 10.
Governor for motors. K. B. Noble. 1,665,714; Apr. 10.
Grain separator. C. T. Thorbus. 1,665,756; Apr. 10.
Grating. H. Denni. 1,665,846; Apr. 10.
Grinder cutter. J. H. Kershner. 1,666,014; Apr. 10.
Grommets, Apparatus for making. C. W. Leguillon. 1,665,853; Apr. 10.
Grouping units, System of. E. T. Hoch. 1,665,499; Apr. 10.
Guard or mask, Face. I. G. Walmer and J. A. Sawyer. 1,665,386; Apr. 10.
Guide, Cord. A. S. Spidel. 1,665,510; Apr. 10.
Guide, Drop. W. M. Kelly. 1,665,305; Apr. 10.
Gun-cleaning rod. C. W. Dake. 1,665,257; Apr. 10.
Hammock. P. A. Knappe. 1,665,553; Apr. 10.
Hand brake. W. H. Sauvage. 1,665,862; Apr. 10.
Handle: *See*—
Trunk handle.
Harvester, Ensilage. F. Blecke. 1,665,401; Apr. 10.
Hat carrier, Inverted-edge. J. Bernstein. 1,665,839; Apr. 10.
Hat-clipping machine. F. E. Kauffmann. Re16,928; Apr. 10.
Headdress, Woman's. L. Ruffo. 1,665,380; Apr. 10.
Heater: *See*—
Automobile heater. Electric heater.
Curling-iron heater. Water heater.
Heater. H. L. Guy. 1,665,356; Apr. 10.
Heater. J. Hicks. 1,665,924; Apr. 10.
Heater control, Unit-. H. W. Sweatt. 1,665,801; Apr. 10.
Heating apparatus. W. D. Stratton. 1,665,992; Apr. 10.

Heating attachment, Electrical. E. C. Dwyer and W. O. Dwyer. 1,665,950; Apr. 10.
Hoist, Autotruck mechanical dump. W. N. Birney. 1,665,340; Apr. 10.
Holder, Contact. J. T. Jannette. 1,665,550; Apr. 10.
Holder for manicure preparations and the like. W. Meyer. 1,665,788; Apr. 10.
Holder for paper rolls. J. A. Hoegger. 1,665,738; Apr. 10.
Holder, Paper. J. A. Hoegger. 1,665,739; Apr. 10.
Holding device. L. C. Ganny and H. Goldberg. 1,666,045; Apr. 10.
Horseshoe rands, Making. O. T. Crafts. 1,665,579; Apr. 10.
Hose or pipe coupling. J. J. Jones. 1,665,812; Apr. 10.
Hosiery, Manufacturing full-fashioned. E. O. Nebel. 1,665,972; Apr. 10.
Humidifying device. D. Handelan. 1,665,455; Apr. 10.
Hydraulic jack. A. J. McDonell. 1,665,633; Apr. 10.
Hydrocarbon engine. P. B. Taylor. 1,665,288; Apr. 10.
Ignition tester. W. J. Slifer. 1,665,567; Apr. 10.
Ignition timer and distributor. H. L. Hosterman. 1,665,265; Apr. 10.
Imprinting device. D. D. Madden. 1,666,029; Apr. 10.
Incense burner. W. Evans. 1,665,650; Apr. 10.
Incinerator. M. Washburn. 1,665,487; Apr. 10.
Inclosable or folding wringer. W. G. Peters. 1,665,932; Apr. 10.
Indicator: *See*—
Light indicator. Liquid-level indicator.
Indicator for automatic slowness testers. M. O. Schur. 1,666,034; Apr. 10.
Induction motor. F. S. Kingston. 1,665,742; Apr. 10.
Infusing and filtering coffee, tea, and the like, Apparatus for. E. N. Bachelder. 1,665,199; Apr. 10.
Ingot mold and stool. J. E. Perry. 1,665,275; Apr. 10.
Injector. Exhaust-steam. J. F. Griffin. 1,665,587; Apr. 10.
Inking mechanism or machines for franking postal matter and the like. U. Kohler. 1,665,884; Apr. 10.
Internal-combustion engine. H. E. Le Mesurier. 1,665,885; Apr. 10.
Internal-combustion engine. T. E. Murray, jr. 1,665,468; Apr. 10.
Internal-combustion engine. G. H. Roose. 1,665,421; Apr. 10.
Internal-combustion engine. C. E. Sargent. 1,665,607; Apr. 10.
Internal-combustion engine. L. M. Woolson. 1,665,396; Apr. 10.
Internal-combustion engine. E. L. Wrentmore. 1,665,521; Apr. 10.
Iron: *See*—
Curling iron. Electric iron.
Irons, Heating element for electric. W. A. Rankin. 1,665,219; Apr. 10.
Jack: *See*—
Hydraulic jack. Pneumatic jack.
Lifting jack.
Jack. W. E. Rawlings. 1,665,979; Apr. 10.
Jar top. N. G. Netherland. 1,665,602; Apr. 10.
Jewelry case. T. Catala. 1,666,001; Apr. 10.
Jewelry setting. F. C. Joseph. Des. 74,888; Apr. 10.
Joint: *See*—
Easer joint. Rail joint.
Flexible joint. Universal joint.
Pipe joint.
Joint construction, Frame-. C. Mautner. 1,665,816; Apr. 10.
Joint or coupling, Universal. H. Clark. 1,665,734; Apr. 10.
Knife structure. A. Z. Gatewood. 1,665,955; Apr. 10.
Knitted fabric. M. D. Brown. Des. 74,861; Apr. 10.
Knitting machine. N. R. Pechin. 1,665,976; Apr. 10.
Knitting machine, Circular-. H. L. Davis. 1,665,255; Apr. 10.
Knitting machine, Reverse-plaiting. C. Epps. 1,666,056; Apr. 10.
Lace trimming for doily or the like. L. Dinkelspiel. Des. 74,872–3; Apr. 10.
Lace web and making the same. J. Spalding. 1,665,230; Apr. 10.
Laminated annular articles, Method of and apparatus for making. M. W. Esch. 1,665,585; Apr. 10.
Lamp base or article of similar nature. W. Hurster. Des. 74,886; Apr. 10.
Lamp, Electric boudoir. C. Wachtel. 1,665,867; Apr. 10.
Lamp, Incandescent. A. B. Smith. 1,665,799; Apr. 10.
Lamp, License-plate. B. H. Pfeifer. 1,665,276; Apr. 10.
Lamp, Portable electric. J. Kernes. 1,665,703; Apr. 10.
Lamp, Signal. I. Alexander. Des. 74,859; Apr. 10.
Lavatory. J. C. Griffis. Des. 74,880; Apr. 10.
Leverage vise. H. Young. 1,665,247; Apr. 10.
Lifting jack. A. C. Hopkins. 1,665,863; Apr. 10.
Light: *See*—
Advertising light. Pilot light.
Light indicator, Automatic automobile. C. I. Randle and F. S. Anderson. 1,665,640; Apr. 10.
Light screen and ventilator. L. Simon. 1,665,679; Apr. 10.
Lighter, Electric cigar. G. Parker. 1,665,792; Apr. 10.
Lighter, Flint. F. C. Wise and W. Greenwood. Re16,930; Apr. 10.
Lighter for stoves, Automatic. G. M. Todd. 1,665,333; Apr. 10.
Lighting fixture, Wall-bracket. H. Abrams. Des. 74,853; Apr. 10.
Lighting fixture, Wall-bracket. H. Abrams. Des. 74,855; Apr. 10.
Lighting-fixture, Wall-bracket. H. Abrams. Des. 74,858; Apr. 10.
Lighting-fixture wall bracket. T. Shapiro. Des. 74,898; Apr. 10.
Lighting fixtures, Candle cup for. H. Abrams. Des. 74,854; Apr. 10.
Lighting fixtures, Loop for. H. Abrams. Des. 74,857; Apr. 10.
Lighting fixtures or analogous articles, Bracket plate for. J. Horowitz. Des. 74,885; Apr. 10.
Lighting fixtures, Plate for. H. Abrams. Des. 74,856; Apr. 10.
Lighting standards, Head for. A. De Vries. Des. 74,866; Apr. 10.
Linoleum floor mat. A. C. Sloate and J. C. Whyte. Des. 74,899; Apr. 10.
Liquid-level indicator. F. A. Carmona and A. M. Sands. 1,665,530; Apr. 10.
Liquid-level indicator. W. Kusters. 1,665,667; Apr. 10.
Liquids, Clarifying device for. A. L. Rasey. Re16,932; Apr. 10.
Liquids, Distribution of. J. E. Noeggerath. 1,665,931; Apr. 10.
Lock: *See*—
Automatic lock. Trunk lock.
Combination lock.
Locking mechanism, Jail-door-. J. T. Whitehouse. 1,665,243; Apr. 10.
Locomotive. G. K. Davol. 1,665,910; Apr. 10.
Locomotive booster apparatus. F. R. Peters. 1,665,324; Apr. 10.
Locomotive stoker. N. M. Lower and E. A. Turner. 1,665,748; Apr. 10.
Locomotive whistle. R. C. Morehouse. 1,665,671; Apr. 10.
Loom tube frame and spool. J. A. Coyle and W. B. Cooper. 1,665,447; Apr. 10.
Looms, Attachment for. C. E. Neisler, jr. 1,665,274; Apr. 10.
Looms, Buffer for the picking arms in weaving. K. Toyoda. 1,665,514; Apr. 10.
Loud speaker. R. B. Wheelan. 1,665,820; Apr. 10.
Lubricating system. M. Koehler. 1,665,964; Apr. 10.
Lumber-stamping device. J. J. Rettmer. 1,665,220; Apr. 10.
Machine for applying handles to baskets and the like. E. M. Versaw. 1,665,334; Apr. 10.
Machine for bundling-currency. F. W. Chase. 1,665,731; Apr. 10.
Machine for bundling paper currency. F. W. Chase. 1,665,730; Apr. 10.
Machine for counterboring brake linings and the like. G. R. Cady. 1,665,771; Apr. 10.
Machine for forming balls. G. O. Hodge. 1,665,361; Apr. 10.
Machine for rolling metallic disks. E. A. Nelson. 1,665,818; Apr. 10.
Machine for setting or applying belt fasteners and the like. J. K. Diamond. Re16,925; Apr. 10.
Machine for use in making boxes. C. J. Westin. 1,666,035; Apr. 10.
Magnetic chuck. F. L. Simmons. 1,665,226; Apr. 10.
Manganese and product thereof, Making arsenates of. W. L. Tanner. Re16,933; Apr. 10.
Manipulator table for rolling mills. N. C. Rendleman. 1,665,606; Apr. 10.
Manure spreader. E. C. F. Schaefer. Re16,929; Apr. 10.
Marker, Stocking. C. T. La Mont. 1,665,706; Apr. 10.
Measuring apparatus, Electrical. F. Wunsch. 1,665,397; Apr. 10.
Measuring device for fitting shoes, Foot-. E. J. Bliss. 1,666,040; Apr. 10.
Mending fabric articles. H. Liedtke. 1,665,968; Apr. 10.
Metal bands around packing cases and other packages, Apparatus for tensioning and sealing. A. C. Payne. 1,665,323; Apr. 10.
Metal bracket, Combination. H. C. Hanna. 1,665,782; Apr. 10.
Metal halides, Preparation of. J. W. Marden. 1,665,634; Apr. 10.
Metal, Method of and apparatus for disintegrating bulky scrap. J. E. Bing. 1,665,806; Apr. 10.
Metal powders, Purification of. J. W. Marden. 1,665,635; Apr. 10.
Metal sheets, Shearing. G. E. Mirfield. 1,665,319; Apr. 10.
Metal wheel. G. Walther. 1,665,485; Apr. 10.
Metals, Purifying. J. J. Conlin. 1,665,844; Apr. 10.
Metallic bobbin base. C. C. Nixon and J. M. McLemore. 1,665,930; Apr. 10.
Meter: *See*—
Torsion meter.
Milk and cream separator. W. A. and A. L. Dean. 1,665,657; Apr. 10.
Mine and railway tie plate. J. T. Morris. 1,665,419; Apr. 10.
Mixing apparatus. A. P. Grunn. 1,665,260; Apr. 10.
Modulation system. F. Gerth. 1,665,350; Apr. 10.

Molstener for cigar boxes. E. C. Hake. 1,665,663; Apr. 10.
Mold: *See*—
Fire-pot mold.
Molded article. A. J. Bastian. 1,665,902; Apr. 10.
Molds for columns with bases, Apparatus for forming. F. H. Hunt and F. N. Ropp. 1,665,365; Apr. 10.
Motor: *See*—
Induction motor. Wave motor.
Motor. H. F. Deny. 1,665,581; Apr. 10.
Motor especially for driving clocks, Synchronous. R. Michl. 1,665,890; Apr. 10.
Motors, Short-circuiting device for electric. H. L. Johnston and M. K. Akers. 1,665,304; Apr. 10.
Mouse and rat trap, Combination. F. J. Ebel. 1,665,951; Apr. 10.
Multicolor screens, Making. C. E. K. Mees. 1,666,048; Apr. 10.
Multiplane traction device. A. E. Holcomb. 1,665,302; Apr. 10.
Multiplex directional receiving. Arrangement for. N. von Korshenewski. 1,666,024; Apr. 10.
Multipressure regulator. S. B. Redfield. 1,665,279; Apr. 10.
Music-roll tab. W. F. Koch. 1,665,963; Apr. 10.
Musical instrument, Automatic. T. F. Cheek. 1,665,905; Apr. 10.
Musical instrument, Automatic. C. F. Stoddard. 1,665,863; Apr. 10.
Nail setter. E. F. Malouf. 1,665,669; Apr. 10.
Necktie frame, Bow-. W. F. Smith. 1,665,509; Apr. 10.
Needle-and-suture assembly, Making. H. D. Morton and M. Parker. 1,665,216; Apr. 10.
Needle, Sewing. H. I. Lippard. Re16,926; Apr. 10.
Nipple chuck and pipe bender. R. A. Schmitt. 1,665,643; Apr. 10.
Nitrocellulose in solutions by mechanical action, Lowering the viscosity of. G. H. Tozier. 1,666,049; Apr. 10.
Nozzle, Sanitary douche. W. Novack. 1,665,790; Apr. 10.
Nozzle, Spray. R. M. Strong. 1,665,482; Apr. 10.
Nut cracker. J. F. Miller. 1,665,557; Apr. 10.
Nut, Lock. P. W. Dieter. 1,665,807; Apr. 10.
Oil, Antisludging means for. D. C. Cox. 1,665,845; Apr. 10.
Oil-burning system. J. W. Cannon. 1,665,443; Apr. 10.
Oil shale and limestone and the like, Production of unsintered binding means of. O. Tettens. 1,665,993; Apr. 10.
Oiler, Air-line. C. C. Hansen. 1,665,497; Apr. 10.
Oils, Apparatus for and process of distilling. C. B. Buerger. 1,666,042; Apr. 10.
Oils, Distilling hydrocarbon. W. P. Deppé and L. L. Summers. 1,666,051; Apr. 10.
Ophthalmic mounting. G. H. Day. 1,665,911; Apr. 10.
Optical speedometer. G. Ramsey. 1,665,278; Apr. 10.
Organ. B. Mauro. 1,666,032; Apr. 10.
Organ, Valve action for pipe. H. F. Waters. 1,665,868; Apr. 10.
Organs and pianos, Chromatic scale and solo-note-selecting device for. J. W. Klein. 1,665,593; Apr. 10.
Organs, Electro-pneumatic combination stop action for. G. H. Chapman. 1,665,254; Apr. 10.
Ornamental object. E. B. Wilson. 1,665,618; Apr. 10.
Ornamental surface and forming the same. R. J. Greene. 1,665,354; Apr. 10.
Outlet boxes and the like, Device for application to the openings of. R. D. Thompson. 1,665,484; Apr. 10.
Oval jar. C. F. Onthank. Des. 74,894; Apr. 10.
Oven, Baking. M. Johnson. 1,665,551; Apr. 10.
Package. F. W. Chase. 1,665,732; Apr. 10.
Packing. G. F. Murphy. 1,665,377; Apr. 10.
Packing device for pressure vessels. R. Tillmann. 1,665,827; Apr. 10.
Pad for pressing machines. P. N. Braun and S. T. Hart. 1,665,654; Apr. 10.
Pallet and making the same. C. B. Cushwa. 1,665,299; Apr. 10.
Pants holder. F. A. Rose. 1,665,983; Apr. 10.
Paper feed and cutting mechanism. S. E. Chapman. 1,665,444; Apr. 10.
Paper, Imprinted. D. D. Madden. 1,666,030; Apr. 10.
Paper-making machine. C. W. Valentine. 1,665,614; Apr. 10.
Paper, Method of and apparatus for making gummed. W. H. Smith, and A. S. Webster. 1,665,611; Apr. 10.
Paper or other flexible material, Bag of. C. A. Witham. 1,665,576; Apr. 10.
Paper, Producing imprinted. D. D. Madden. 1,666,031; Apr. 10.
Papering and buffing machine, Sand. E. Primeaux. 1,665,676; Apr. 10.
Pelorus. L. A. Brinkman. 1,665,527; Apr. 10.
Permanent-wave apparatus. A. L. Burleson, and N. P. Samantas. 1,665,253; Apr. 10.
Phonograph record and making the same. A. J. Vasselli. 1,665,759; Apr. 10.
Photographic button. R. E. Olsen. 1,665,605; Apr. 10.
Photographic-film cartridge. B. A. Slocum. 1,665,481; Apr. 10.
Photographic-film reel and manufacturing the same. A. S. Howell. 1,665,207; Apr. 10.
Photographic-printing machine. B. D. Chamberlin. 1,666,052; Apr. 10.
Photographic-printing machine. A. K. Chapman. 1,666,053; Apr. 10.
Piano fall board. S. Battner. 1,665,653; Apr. 10.
Piano keyboard, Foldable pocket. A. Raab. 1,665,563; Apr. 10.
Picture book, Moving-. R. A. Loederer. 1,665,747; Apr. 10.
Piers, breakwaters, etc., Producing subaqueous foundation. G. B. Sipe. 1,665,795; Apr. 10.
Piers, Providing and placing. G. B. Sipe. 1,665,796; Apr. 10.
Piles in interlocked relation, Producing and placing. G. B. Sipe. 1,665,798; Apr. 10.
Piling. M. Howard. 1,665,462; Apr. 10.
Pillowcase. J. Derk. Des. 74,865; Apr. 10.
Pilot light. J. T. Smith. 1,665,987; Apr. 10.
Pipe connection. H. W. Clarke. 1,665,346; Apr. 10.
Pipe cutter. C. H. Lamotte. 1,665,212; Apr. 10.
Pipe, Device for cutting. J. Levy. 1,665,707; Apr. 10.
Pipe joint. L. C. Huff. 1,665,208; Apr. 10.
Pipe-swaging device. A. C. Ekman. 1,665,915; Apr. 10.
Piston. G. A. Taylor. 1,665,229; Apr. 10.
Piston and connecting rod construction. L. H. Noah. 1,665,672; Apr. 10.
Piston, Built-up. W. R. Wiley. 1,665,830; Apr. 10.
Piston construction. W. C. Brower. 1,665,438; Apr. 10.
Plant for the generation of high-pressure steam, Traveling. O. H. Hartmann. 1,665,543; Apr. 10.
Plate. R. Haley. Des. 74,881; Apr. 10.
Plate, Hot. E. R. Rayburn. Des. 74,896; Apr. 10.
Plow, Rotary type of. A. R. Cook. 1,665,532; Apr. 10.
Plow, Two-way. K. C. Livermore. 1,666,016; Apr. 10.
Plows, Lateral-swing control for tractor-drawn. C. G. Strandlund. 1,665,330; Apr. 10.
Plows, Planter attachment for. L. Binger. 1,665,873; Apr. 10.
Pneumatic jack. R. D. Scott. 1,665,985; Apr. 10.
Pole holder and oarlock, Fish-. E. Eck. 1,665,914; Apr. 10.
Poles, Metal base for timber. A. J. Wiley. 1,665,995; Apr. 10.
Porcelain and enameled ware, Protecting. T. H. Mittendorf. 1,665,215; Apr. 10.
Post-base trimmer. H. O. Allison. 1,665,726; Apr. 10.
Potato-chip machine. J. J. McCarthy. 1,666,019; Apr. 10.
Pottery-making method. A. E. Radford. 1,665,978; Apr. 10.
Pouring and lifting device. M. W. Goldberg. 1,665,452; Apr. 10.
Powder and making, Dispersing. E. R. Allen and W. E. Kaufmann. 1,665,945; Apr. 10.
Power-amplifying system. E. W. Kellogg. 1,665,883; Apr. 10.
Power shovel. E. E. Peterson. 1,665,378; Apr. 10.
Power-transmission system. W. C. Stevens. 1,665,825; Apr. 10.
Power transmission, Variable-speed. A. Dow. 1,665,408; Apr. 10.
Power-transmitting mechanism. R. B. Bagby. 1,665,835; Apr. 10.
Preparation for cleaning metal preparatory to painting. J. D. Klinger and C. L. Boyle. 1,665,465; Apr. 10.
Press: *See*—
Drying press. Punch press.
Printing press. Screw press.
Press. F. Menne. 1,666,020; Apr. 10.
Priming means. A. Hollander and W. L. Forward. 1,665,460; Apr. 10.
Printing device, Changeable. J. C. Osborne. 1,665,717; Apr. 10.
Printing plates, Making etched. H. H. Brunings. 1,665,842; Apr. 10.
Printing press, Sheet-. M. A. Droitcour. 1,666,004; Apr. 10.
Processing apparatus. W. L. Conrad. 1,665,624; Apr. 10.
Profile gauge. R. A. Stockton. 1,665,721; Apr. 10.
Projection apparatus. L. V. Foster. 1,665,660; Apr. 10.
Projection apparatus. C. M. Fox. 1,665,410; Apr. 10.
Projection system. L. A. Jones and E. E. Richardson. 1,666,047; Apr. 10.
Puller: *See*—
Wheel puller.
Pulley block and operating pulley blocks in sky-line system. C. T. Haseman. 1,665,545; Apr. 10.
Pulp stock and the like, Method and apparatus for regulating the consistency of. C. R. Van de Carr, jr. 1,665,425; Apr. 10.
Pump. P. H. Davis. 1,665,686; Apr. 10.
Pump. W. I. Derrick. 1,665,687–9; Apr. 10.
Pump. A. E. Paige. 1,665,675; Apr. 10.
Pump, Acid. A. Hollander. 1,665,458; Apr. 10.
Pump, Air. E. O. Koenig and G. W. Brautigam. 1,665,965; Apr. 10.
Pump attachment for motor vehicles. B. D. Barton. 1,665,765; Apr. 10.
Pump, Combined low and high pressure oil. C. W. Manzel. 1,665,670; Apr. 10.
Pump, Diaphragm. C. I. Longenecker. 1,665,709; Apr. 10.
Pump-packing means. A. Hollander and W. L. Forward. 1,665,459; Apr. 10.

Pump, Pressure-packed. E. W. Patterson. 1,665,473; Apr. 10.
Pump, Sand-tester. G. F. Le Bus. 1,665,967; Apr. 10.
Pump, Tandem single-acting. E. W. Patterson. 1,665,639; Apr. 10.
Pump, Variable-discharge. O. H. Ensign. 1,665,692; Apr. 10.
Pumps, Gas extractor for. H. M. Green. 1,665,540; Apr. 10.
Pumps, Relief mechanism for. L. P. Storey. 1,665,382; Apr. 10.
Punch, Hollow. F. J. Walter. 1,665,805; Apr. 10.
Punch press. O. Schlaupitz. 1,665,820; Apr. 10.
Punching bag. D. McNamara. 1,665,969; Apr. 10.
Puncturing machine. A. B. York. 1,665,764; Apr. 10.
Quick-make and quick-break switch. F. L. Bryant. 1,665,529; Apr. 10.
Rack: *See*—
Condenser rack. Umbrella and cane rack.
Rack for motor vehicles, Baggage. E. J. Hall and A. G. Hawkes. 1,665,358; Apr. 10.
Radiator. W. G. Wallace. 1,665,385; Apr. 10.
Radiator ornament, Automobile. A. L. Sohm. Des. 74,900; Apr. 10.
Radiator shutter. L. G. Garnsey. 1,665,695; Apr. 10.
Radiodetector. J. Sieplan. 1,665,936; Apr. 10.
Radio receiving sets, Station-selector dial. N. Nystrom. 1,665,891; Apr. 10.
Radio receiving system. P. E. Edelman. 1,665,847; Apr. 10.
Radio signaling system. M. Lock. 1,665,632; Apr. 10.
Radio tube socket. W. H. Eggers. 1,665,876; Apr. 10.
Rail and tie clamp. F. Wilson, sr. 1,665,575; Apr. 10.
Rail bond. E. M. Deems. 1,665,347; Apr. 10.
Rail joint. C. A. Allen. 1,665,652; Apr. 10.
Railway sign. W. H. B. Lavarack and B. A. Lundy. 1,665,374; Apr. 10.
Range, Combination coal and electric. F. F. Forshee. 1,665,920; Apr. 10.
Razor-blade holder. L. W. Baker. 1,665,836; Apr. 10.
Receptacle, Cooking, freezing, and storing. C. S. Humphrey. 1,666,012; Apr. 10.
Receptacle for golf players' accessories. E. J. McGraw. 1,665,214; Apr. 10.
Records, Producing and reproducing sound. E. S. Thomson. 1,665,331; Apr. 10.
Reel: *See*—
Switching-cord reel.
Refrigerating apparatus. F. G. Keyes. 1,665,870; Apr. 10.
Refrigerating machine. J. J. Wood. 1,665,871; Apr. 10.
Refrigerating machines, Regulating device for. K. Glüssel. 1,665,878; Apr. 10.
Register: *See*—
Air register.
Regulating system. M. Herklotz. 1,665,852; Apr. 10.
Regulator: *See*—
Multipressure regulator.
Regulator system. R. D. Evans. 1,665,917; Apr. 10.
Regulator system. S. A. Staege. 1,665,939; Apr. 10.
Remedy from dihydroxy-diamino-arseno-benzene-monomethylene sulphonic acid, Manufacturing a new syphilis. T. Iwadare. 1,665,787; Apr. 10.
Report board. E. R. Spiegel. 1,665,568; Apr. 10.
Resinous substance and making same, Compound. J. P. Trickey and C. S. Miner. 1,665,237; Apr. 10.
Resins, Furfuralcohol. J. P. Trickey and C. S. Miner. 1,665,235; Apr. 10.
Resins, Making furfural. J. P. Trickey and C. S. Miner. 1,665,233–4; Apr. 10.
Ring or similar article of manufacture. J. J. White. Des. 74,904–9; Apr. 10.
Road scarifier. D. V. Ramazzotti. 1,665,277; Apr. 10.
Roaster: *See*—
Corn roaster.
Roaster and mixer, Combination. A. E. Fredrickson. 1,665,778; Apr. 10.
Robber trap. E. M. Rocha. 1,665,982; Apr. 10.
Rod: *See*—
Gun-cleaning rod.
Roll for cane mills, crushers, and the like. A. de la Hisba and E. Garcia. 1,666,055; Apr. 10.
Roller support. W. K. Liggett. 1,665,418; Apr. 10.
Rolling machine. J. M. Barr. 1,665,522; Apr. 10.
Roofing. O. A. Heppes. 1,666,046; Apr. 10.
Roofing element and making same. T. Robinson. 1,665,222; Apr. 10.
Roost, Poultry. I. C. White. 1,665,290; Apr. 10.
Rubber and other thermoplastic substances, Producing articles from. A. T. Gustafson. 1,665,855; Apr. 10.
Rubber articles, Method of and apparatus for vulcanizing. L. A. Laursen. 1,665,312; Apr. 10.
Rubber articles, Vulcanizing method and apparatus for. L. A. Laursen. 1,665,311; Apr. 10.
Sanding, scouring, and buffing machine. L. L. Hartwell. 1,665,589; Apr. 10.
Sash stop and pulley guard. J. P. Glaser, L. F. Julien, and H. W. Whitten. 1,665,697; Apr. 10.
Saw, Coping. F. P. Maxson. 1,665,817; Apr. 10.
Saxophone cord. A. S. Lang. 1,665,745; Apr. 10.
Scaffold, Window. N. Stramaglia. 1,665,991; Apr. 10.
Scale with micrometer mechanism, Azimuth. T. A. Conlon. 1,665,656; Apr. 10.
Scouring machine for washing fabrics of wool and their mixtures. F. C. Planell. 1,665,977; Apr. 10.
Screen. F. J. Plym. 1,665,475; Apr. 10.
Screens, Guide construction for. H. Dixson. 1,665,775; Apr. 10.
Screw driver. W. D. Weaver. 1,665,240; Apr. 10.
Screw press. R. Craig. 1,665,202; Apr. 10.
Scroll support, Detachable. L. E. Myers. 1,665,272; Apr. 10.
Sealing mechanism for window frames and sashes. H. E. Campbell. 1,666,043; Apr. 10.
Searchlight and mounting therefor, Portable. V. V. Veenschoten. 1,665,803; Apr. 10.
Seat back. F. H. Gibbs. 1,665,352; Apr. 10.
Seat frame. F. H. Gibbs. 1,665,351; Apr. 10.
Separator: *See*—
Battery separator. Grain separator.
Disk separator. Milk and cream separator.
Separator and making the same. W. S. Gould and W. B. Osborne. 1,666,007; Apr. 10.
Serving food and drink. M. S. Weaver. 1,665,289; Apr. 10.
Shade-cord holder. W. J. Foster. 1,665,953; Apr. 10.
Shade, Lamp. E. B. Wilson. 1,665,617; Apr. 10.
Shade-supporting bracket. J. L. Montgomery. 1,665,929; Apr. 10.
Shaft coupling. L. Rieger. 1,665,895; Apr. 10.
Shaping device. L. Wetmore. 1,665,870; Apr. 10.
Shaping machine having constant power traverse. W. F. Zimmermann. 1,665,398; Apr. 10.
Sharpener, Harrow-disk. T. Fox. 1,665,954; Apr. 10.
Shearing machine, Fur-. M. S. Newman. 1,665,217; Apr. 10.
Sheet-feeding mechanisms, Air-control device for air-operated. C. W. Tremper. 1,665,723; Apr. 10.
Shingle and shingle construction. G. E. Conway. 1,665,774; Apr. 10.
Shingle, Composition. H. A. Garber. 1,665,450; Apr. 10.
Shingle, Self-spacing. C. W. Mortimer. 1,665,601; Apr. 10.
Shingles, Cutting. C. W. Mortimer. 1,665,600; Apr. 10.
Shockers, Swinging carrier for corn. F. T. Bookmyer. 1,665,767; Apr. 10.
Shoe, Arch-supporting. J. Jones. 1,665,741; Apr. 10.
Shoe or boot. E. H. Wiel. 1,665,763; Apr. 10.
Shoes, Method of and machine for attaching counters to turn. M. L. Dodge. 1,665,582; Apr. 10.
Shovel: *See*—
Power shovel.
Shuttle. E. C. Richard and H. Gill. 1,665,221; Apr. 10.
Shuttle box. W. S. Wells. 1,665,572; Apr. 10.
Sifter, Flour. A. Gschwindt. 1,665,454; Apr. 10.
Sign plate. C. H. Orr. Des. 74,895; Apr. 10.
Signal: *See*—
Automobile signal. Traffic signal.
Crossing signal. Vehicle signal.
Signal. F. M. Crystler. 1,666,003; Apr. 10.
Signaling system. F. J. Singer. 1,665,283; Apr. 10.
Signaling systems, Arrangement of carrier channels in multiplex. W. B. Nottingham. 1,665,673; Apr. 10.
Silk filaments by drawing, Producing artificial-. K. Grunert. 1,665,453; Apr. 10.
Silk, Production of artificial. W. H. Glover and C. F. Topham. 1,665,958; Apr. 10.
Silica gels and making the same. H. N. Holmes and J. A. Anderson. 1,665,264; Apr. 10.
Sink-head top. M. P. Trembour. 1,665,515; Apr. 10.
Skate wheel. H. Casler. 1,665,874; Apr. 10.
Ski attachment. C. Dumais. 1,665,537; Apr. 10.
Slitting roll of machines for forming expanded metal. H. M. Gersman and W. H. Klocke. 1,665,349; Apr. 10.
Slub catcher or yarn cleaner. E. R. Swanson. 1,665,287; Apr. 10.
Slug-casting machines, Quad block for. A. Archer. 1,665,248; Apr. 10.
Snow, Apparatus for the removal of. R. P. and S. W. McClave. 1,665,503; Apr. 10.
Snowplow. C. W. Clark. 1,665,733; Apr. 10.
Snow removal apparatus. E. B. Cadwell. 1,665,685; Apr. 10.
Socket, Adjustable candelabrum. E. H. Freeman. 1,665,779; Apr. 10.
Socket, Electric. E. H. Freeman. 1,665,495; Apr. 10.
Sorting machine. W. W. Lasker and J. Mueller. 1,665,595; Apr. 10.
Sound-neutralizing ventilator. A. M. Kennedy. 1,665,211; Apr. 10.
Sound-projecting apparatus. E. Grissinger. 1,666,057; Apr. 10.
Sound projector. E. Grissinger. 1,665,058–9; Apr. 10.
Sound-reproducing device, Magnetic. Z. Jeffries. 1,665,740; Apr. 10.
Spark arrester for cupolas or the like. P. Pritchard. 1,665,754; Apr. 10.
Spectacle temple. J. A. Sweeney. 1,665,940; Apr. 10.
Speed-regulator system. J. H. Ashbaugh. 1,665,901; Apr. 10.
Spinning and twisting frames, Device relating to ring. R. Setzer. 1,665,422; Apr. 10.
Spinning, doubling, and like machines, Doffing mechanism for cap. A. and J. Stell and H. Welch. 1,665,720; Apr. 10.

Spool carrier for plaiting, knotwork, bobbin, and lace-making machines. A. Hombrecher. 1,665,783; Apr. 10.
Spoon or similar article. G. N. Allen. Des. 74,860; Apr. 10.
Spoon or similar article. E. N. Cornell. Des. 74,863; Apr. 10.
Spoon or similar article. H. Hebbard. Des. 74,884; Apr. 10.
Spoon or similar article. S. V. James. Des. 74,887; Apr. 10.
Spraying apparatus. C. G. Shields. 1,665,224; Apr. 10.
Spring: *See*—
Temperature-compensating spring.
Spring collet chuck. E. F. Atkins. 1,665,250; Apr. 10.
Spring pad and making the same, Welded. C. E. Waream. 1,665,762; Apr. 10.
Spring structure. W. A. Falla. 1,665,539; Apr. 10.
Spring wheel. F. W. Montgomery. 1,665,558; Apr. 10.
Sprinkler. J. H. Keys. 1,665,371; Apr. 10.
Sprinkler systems, Signal-alarm device for. J. G. Nolen. 1,665,561; Apr. 10.
Square, Leveling. W. Midgley. 1,665,504; Apr. 10.
Staff and mounting therefor. W. A. Davis. 1,665,535; Apr. 10.
Stake retainer or the like. M. E. Moore. Des. 74,892; Apr. 10.
Stamping device. A. J. Marks. 1,665,597; Apr. 10.
Stamping device. D. B. Miller. 1,665,467; Apr. 10.
Stand: *See*—
Display stand.
Stand for aquarium or the like. B. Tauman. Des. 74,902; Apr. 10.
Starter for electric motors. W. C. O'Brien. 1,665,562; Apr. 10.
Steam boiler, Automatic electric. O. A. Sandborgh. 1,665,793; Apr. 10.
Steam-boiler furnace. W. A. Gilchrist. 1,665,923; Apr. 10.
Steering mechanism. C. R. Short. 1,665,282; Apr. 10.
Steering wheel. A. L. Warmington. 1,665,337; Apr. 10.
Stencil sheets, Manufacture of. A. B. Davis. 1,665,580; Apr. 10.
Sterilizing bearings for shafting. W. H. Jackson. 1,666,013; Apr. 10.
Stock-feed stop, Positive. J. Karmazin. 1,665,813; Apr. 10.
Stocking. O. F. Boehme. 1,665,946; Apr. 10.
Stocking protector. B. B. Lininger. 1,666,017; Apr. 10.
Stoker mechanism. A. E. Weingartner. 1,665,043; Apr. 10.
Storage battery. P. E. Norris. 1,665,603; Apr. 10.
Stove construction. A. H. Tinnerman. 1,665,757; Apr. 10.
Stove, Gas. A. J. Reedy. Des. 74,897; Apr. 10.
Strainer. W. M. Dillon. 1,665,494; Apr. 10.
Strawberry top and runner cutter. J. Bechthold. 1,665,998; Apr. 10.
Stress breaker. N. A. Oscher. 1,665,975; Apr. 10.
Structure, Fabric. E. L. Benedict. 1,665,433; Apr. 10.
Sucker-rod elevator. E. E. Greve. 1,665,259; Apr. 10.
Switch: *See*—
Quick-make and quick-break switch.
Switch mechanism. W. S. Anderson. 1,665,429; Apr. 10.
Switching-cord reel, Automatic. J. J. Gough. 1,665,737; Apr. 10.
System of distribution. D. C. Prince. 1,665,893; Apr. 10.
Table: *See*—
Dry separating table. Extension table.
Tabulating machines, Feeding mechanism for. J. Powers. 1,665,218; Apr. 10.
Talking machine, Electromagnetic. W. Hornauer. 1,665,784; Apr. 10.
Talking machine, Portable cabinet. H. W. K. de Brey. 1,666,054; Apr. 10.
Tank-car-dome closure. R. W. Joy. 1,665,368; Apr. 10.
Telegraph printer. H. L. Krum. 1,665,594; Apr. 10.
Telegraph system, Grounded duplex. S. I. Cory. 1,665,296–7; Apr. 10.
Telephone system. C. E. Lomax. 1,665,708; Apr. 10.
Telephone system. M. B. Stazak. 1,665,231; Apr. 10.
Telephone system. W. Whitney, Incorporated. 1,665,338; Apr. 10.
Telephone system. J. Wicks. 1,665,489; Apr. 10.
Telephone system. T. Zuschlag. 1,665,683; Apr. 10.
Telephone system, Automatic. D. R. Middleton. 1,665,466; Apr. 10.
Telephone system, Automatic switchboard. L. L. E. Chauveau. 1,665,773; Apr. 10.
Telephone system, Carrier-wave. C. A. Boddie. 1,665,904; Apr. 10.
Telephone system, Multioffice. M. L. Nelson. 1,665,273; Apr. 10.
Temperature-compensating spring. J. Patrick. 1,665,322; Apr. 10.
Tennis-racket carrier. O. E. Vaughan. 1,665,900; Apr. 10.
Tennis racket, Restretchable. H. May. 1,665,598; Apr. 10.
Textile fabric. G. F. Erhard. Des. 74,876; Apr. 10.
Thermostat. V. A. Boker. 1,665,341; Apr. 10.
Thermostat. L. W. Schnepp. 1,665,719; Apr. 10.
Thermostatic brake. F. N. Connet. 1,665,201; Apr. 10.
Threads, Device for singeing. A. Mettler. 1,665,970; Apr. 10.
Ticket holder. M. H. A. Duncan. 1,666,006; Apr. 10.
Tie holder. R. H. Ridgeway. 1,665,477; Apr. 10.
Tiering machine. B. Stockfleth and F. W. Burger. 1,665,680; Apr. 10.
Timing apparatus. P. J. Walsh. 1,665,804; Apr. 10.
Tire beads, Method and apparatus for the manufacture of. S. W. Alderfer. 1,666,038; Apr. 10.
Tire boot. M. P. Cole. 1,666,002; Apr. 10.
Tire boot. M. O. Haney. 1,666,009; Apr. 10.
Tire carrier. E. A. Walters. 1,665,647; Apr. 10.
Tire, Vehicle. D. N. Booth. 1,665,840; Apr. 10.
Tires, Holder for. F. A. Lind. 1,665,887; Apr. 10.
Toaster, Bread. T. C. Forbes. 1,665,735; Apr. 10.
Tongs, Passing or back-up. B. P. Hoffman. 1,665,301; Apr. 10.
Tool, Fence. K. J. Vaught. 1,665,760; Apr. 10.
Tool holder and other receptacle for use on motor vehicles. H. B. Sankey. 1,665,642; Apr. 10.
Tool, Marking. F. Bittner. 1,665,400; Apr. 10.
Tool, Razor-strop-dressing. J. G. Dick. 1,665,658; Apr. 10.
Tool, Rivet-finishing. B. Neill. 1,665,751; Apr. 10.
Tools, Combination holder and guard for. F. Goertz and W. C. Rothe. 1,665,256; Apr. 10.
Tools, Guide for broaching. C. C. Hansen. 1,665,496; Apr. 10.
Tooth and making same, Artificial molar. A. Gysi. 1,665,357; Apr. 10.
Torsion meter. S. Shimizu. 1,665,822; Apr. 10.
Towel dispenser. J. O. Hunt. 1,665,628; Apr. 10.
Toy, Mechanical. J. J. Becker. 1,665,578; Apr. 10.
Toy train coupling. F. S. Upham. 1,665,758; Apr. 10.
Toy, Wheeled. J. Ekstein. Des. 74,875; Apr. 10.
Toy, Wheeled. L. E. Myers, A. C. Carlson, and C. S. Bates. 1,665,469; Apr. 10.
Track guard rail. J. V. Wescott. 1,665,242; Apr. 10.
Traction device. S. G. Scholz. 1,665,478; Apr. 10.
Traction wheel. W. E. Wine. 1,666,036; Apr. 10.
Traction wheel. W. E. Wine and J. W. Promenschenkel. 1,666,037; Apr. 10.
Tractor, Shop. F. W. Burger and B. Stockfleth. 1,665,684; Apr. 10.
Traffic-controlling apparatus, Railway-. B. R. Padmore. 1,665,860; Apr. 10.
Traffic signal. F. Buchanan. 1,666,051; Apr. 10.
Traffic signal, Variable. R. O. Nelson. 1,665,560; Apr. 10.
Transfer system for heavy metal plates. C. L. Huston. 1,665,209; Apr. 10.
Translating apparatus, Electrical. F. N. Waterman. 1,665,571; Apr. 10.
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CLASSIFICATION OF PATENTS

ISSUED APRIL 10, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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38: 1,665,214
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208— 42: 1,665,469
184: 1,665,537
209— 61: 1,665,756
96: 1,665,548
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110: 1,665,595
209— 215: R. 16,932
358: 1,665,454
467: 1,665,249
210— 51. 5: 1,665,657
149: 1,665,494
165: 1,665,345
211— 24: 1,665,887
63: 1,665,590
156: 1,665,271
212— 95: 1,665,545
214— 18: 1,666,027
90: 1,665,378
215— 39: 1,665,821
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100: 1,665,829
217— 36: 1,665,245
43: 1,665,266
219— 4: 1,665,461
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19: 1,665,735
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32: 1,665,792
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220— 1: 1,665,456
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24: 1,665,827
39: 1,665,908
53: 1,665,577
55: 1,665,369
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66: 1,665,608
91: 1,665,828
95: 1,665,012
221— 28: 1,665,490
223— 30: R. 16,928
37: R. 16,926
61: 1,665,983
224— 4: 1,665,491
5: 1,665,745
29: 1,665,358
1,665,642
1,665,647
1,665,892
45: 1,665,900
226— 44: 1,665,907
98: 1,665,948
229— 6: 1,665,770
229— 23: 1,665,359
29: 1,665,420
53: 1,665,576
230— 25: 1,665,279
232: 1,665,871
234— 1: 1,666,040
236— 37: 1,665,801
238— 19: 1,665,242
174: 1,665,906
207: 1,665,652
305: 1,665,575
330: 1,665,696
1,665,814
240— 1: 1,665,538
10. 5: 1,665,803
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52: 1,665,779
81: 1,665,703
108: 1,665,617
241— 1: 1,666,017
242— 55. 2: 1,665,738
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68: 1,665,272
71: 1,665,207
121: 1,665,930
244— 2: 1,665,849
6: 1,665,886
12: 1,665,480
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1,665,709
14: 1,665,533
246— 37: 1,665,869
194: 1,665,281
453: 1,665,419
247— 1: 1,665,629
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248— 20: 1,665,498
30. 5: 1,665,316
250— 6: 1,665,674
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27. 5: 1,665,626
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251— 50: 1,665,436
132: 1,665,934
252— 1: 1,665,267
253— 8: 1,665,198
157: 1,665,329
254— 17: 1,665,430
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254— 81: 1,665,525
88: 1,665,646
93: 1,665,985
102: 1,665,363
131: 1,665,979
149: 1,665,393
176: 1,665,862
255— 21: 1,665,365
45: 1,665,269
71: 1,665,457
257— 125: 1,665,385
132: 1,665,695
224: 1,665,356
250— 101: 1,665,959
107: 1,665,260
128: 1,665,262
131: 1,665,879
133: 1,665,780
260— 2: 1,665,233
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14: 1,665,781
15: 1,665,787
64: 1,665,541
148: 1,666,049
261— 41: 1,665,395
63: 1,665,239
116: 1,665,455
262— 8: 1,665,277
263— 16: 1,665,546
44: 1,665,205
13: 1,665,322
264— 11: 1,665,933
265— 25: 1,665,822
48: 1,665,722
267— 20: 1,665,610
1,665,897
271— 2. 3: 1,665,596
26: 1,665,723
44: 1,665,218
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60: 1,665,305
74: 1,666,004
272— 1: 1,666,018
56. 5: 1,665,981
76: 1,665,969
273— 73: 1,665,598
79: 1,665,523
80: 1,665,811
81: 1,665,791
102: 1,665,364
134: 1,665,516
152: 1,665,903
274— 2: 1,666,054
275— 3: R. 16,929
278— 93: 1,665,244
279— 7: 1,665,643
279— 58: 1,665,250
280— 19: 1,665,449
33. 12: 1,665,330
1,665,817
33. 15: 1,665,758
87. 5: 1,665,729
90: 1,665,282
166: 1,665,441
179: R. 16,927
281— 3: 1,665,641
283— 59: 1,665,574
285— 9: 1,665,655
86: 1,665,812
92: 1,665,810
122: 1,665,346
287— 20. 5: 1,665,389
288— 1: 1,665,208
292— 31: 1,665,303
324: 1,665,424
293— 25: 1,665,251
55: 1,665,320
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294— 91: 1,665,250
296— 45: 1,665,294
61: 1,665,493
297— 11: 1,665,719
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298— 21: 1,665,340
299— 61: 1,665,371
96: 1,665,512
115: 1,665,744
140: 1,665,224
143: 1,665,482
301— 9: 1,665,485
22: 1,665,437
24: 1,665,880
36: 1,665,471
303— 58: 1,665,586
86: 1,665,913
304— 14: 1,665,991
305— 9: 1,665,302
13: 1,666,036
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308— 12: 1,665,418
21: 1,665,942
134: 1,666,013
173: 1,665,332
181: 1,665,957
190: 1,665,874
201: 1,665,448
312— 44: 1,666,008
61: 1,665,628
146: 1,665,986

April 17, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aeschbach, F., S. A., Aarau, Switzerland. Electrical baking stoves and parts thereof. 241,022; Apr. 17; Serial No. 255,215; published Jan. 31, 1928. Class 21.

Air Line Carrier Co., Chicago, Ill., to The Lamson Company, Syracuse, N. Y., successor. Cash carriers and package carriers. 69,336; renewed June 9, 1928.

Aktienbrauerei zum Löwenbräu in München, Munich, Germany. Lager beer. 80,527; renewed Aug. 31, 1927.

Albaugh Bros. Dover & Co., to Albaugh-Dover Manufacturing Company, Chicago, Ill., successor. Cream separators. 63,113; renewed June 4, 1927.

Alberta Mills, Inc., Philadelphia, Pa. Worsted cloth garments. 241,189; Apr. 17; Serial No. 257,772; published Feb. 7, 1928. Class 39.

American Malt Company, The, Baltimore, Md. Malt syrup. 241,088; Apr. 17; Serial No. 258,712; published Feb. 7, 1928. Class 46.

American News Company, The, to The American News Company, Inc., New York, N. Y., successor. Writing paper, writing tablets, and pads and envelops. 68,717; renewed Apr. 28, 1928.

Ansonia Bootery, Inc., New York, N. Y. Shoes. 241,128; Apr. 17; Serial No. 254,026; published Jan. 31, 1928. Class 39.

Apasco Purchase and Sales Corporation, New York, N. Y. Golf balls. 241,197; Apr. 17; Serial No. 257,396; published Feb. 7, 1928. Class 22.

Apollinaris Company, Limited, The, London, England. Beverages. 241,035; Apr. 17; Serial No. 255,950; published Feb. 7, 1928. Class 45.

Apollinaris Company, Limited, The, London, England. Beverages. 241,037; Apr. 17; Serial No. 255,951; published Feb. 7, 1928. Class 45.

Aristocrat Corporation of America, New York, N. Y. Radio loud speakers. 241,024; Apr. 17; Serial No. 258,206; published Jan. 31, 1928. Class 21.

Artop Specialties, Rochester, N. Y. Kaleidoscopes for amusement purposes. 241,182; Apr. 17; Serial No. 258,014; published Feb. 7, 1928. Class 22.

Auto Vita Manufacturing Co., Chicago, Ill. Penetrating oil. 241,038; Apr. 17; Serial No. 256,162; published Jan. 31, 1928. Class 15.

Balloid Basler Celluloidwarenfabrik A.-G. Therwil (Balloid Fabrique Bâloise d'Articles en Celluloid S. A. Therwil) (Balloid Basle Celluloid Manufactures Ltd. Therwil), Therwil, near Basel, Switzerland. All kinds of ornaments for the hair. 241,132; Apr. 17; Serial No. 251,379; published Jan. 17, 1928. Class 40.

Barbasol Company, The, Indianapolis, Ind. Lotion. 241,079; Apr. 17; Serial No. 257,852; published Jan. 31, 1928. Class 6.

Bates Thompson, Incorporated, New York, N. Y. Men's hats. 241,127; Apr. 17; Serial No. 254,164; published Jan. 31, 1928. Class 39.

Bay City Milling Co., Bay City, Mich. Wheat flour. 241,150; Apr. 17; Serial No. 256,041; published Feb. 7, 1928. Class 46.

Bear Brand Hosiery Co. (See Paramount Knitting Company, assignor.)

Bearium Bearings, Inc., Buffalo, N. Y. Lead and alloys. 241,054; Apr. 17; Serial No. 242,811; published Jan. 31, 1928. Class 14.

Belknap Hardware & Manufacturing Company, Louisville, Ky. Electric dash lamps and electric timers for internal-combustion engines. 241,057; Apr. 17; Serial No. 249,256; published Jan. 31, 1928. Class 21.

Bendzsa, A. S., Crown Point, Ind. Canned tomato salad. 241,080; Apr. 17; Serial No. 257,854; published Feb. 7, 1928. Class 46.

Bernard & Co., assignor to Bernard & Co. (Leith Distillery) Ltd., Leith, England. Whisky. 31,559; renewed May 17, 1928.

Bernard, Glen A., New York, N. Y., to Pierre A. Bernard, Nyack, N. Y., successor. Printed books, pamphlets, and magazine. 67,098; renewed Jan. 14, 1928.

Big Store Co., The, Cincinnati, Ohio. Sporting goods. 241,208; Apr. 17; Serial No. 249,507; published Jan. 31, 1928. Class 22.

Bingo Products Corporation. (See Renu Products Corporation.)

Blaustein, Lewis, doing business as General Flour Company, Baltimore, Md. Wheat flour. 241,089; Apr. 17; Serial No. 258,715; published Feb. 7, 1928. Class 46.

Bleistift-Fabrik vorm. Johann Faber A.-G., Nuremberg, Germany. Pencils, erasing rubber, and penholders. 67,088; renewed Jan. 14, 1928.

Bleistift-Fabrik vorm. Johann Faber A.-G., Nuremberg, Germany. Pencils and erasing rubber. 67,089; renewed Jan. 14, 1928.

Bleistift-Fabrik vorm. Johann Faber A.-G., Nuremburg, Germany. Pencils. 67,090; renewed Jan. 14, 1928.

Blish Milling Company, Seymour, Ind. Self-rising wheat flour. 241,092; Apr. 17; Serial No. 250,965; published Feb. 7, 1928. Class 46.

Blish Milling Company, Seymour, Ind. Self-rising wheat flour. 241,093; Apr. 17; Serial No 250,968; published Feb. 7, 1928. Class 46.

Blish Milling Company, Seymour, Ind. Self-rising wheat flour. 241,158; Apr. 17; Serial No. 250,964; published Feb. 7, 1928. Class 46.

Blish Milling Company, Seymour, Ind. Wheat flour. 241,159; Apr. 17; Serial No. 250,963; published Feb. 7, 1928. Class 46.

Blud-Rub Manufacturing Company, Indianapolis, Ind. Massage machines. 241,100; Apr. 17; Serial No. 259,275; published Feb. 14, 1928. Class 44.

Borgfeldt, Geo., & Co., New York, N. Y. Toy marbles. 241,230; Apr. 17; Serial No. 258,793; published Jan. 31, 1928. Class 22.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 241,028; Apr. 17; Serial No. 257,962; published Feb. 7, 1928. Class 39.

Boyle, John, & Co. Inc., New York, N. Y. Cotton duck. 70,412; renewed Aug. 25, 1928.

Brandauer, C., & Co., to C. Brandauer & Company, Limited, Birmingham, England, successor. Steel pens. 31,433; renewed Mar. 22, 1928.

Brookes & Adams Limited, Hockley, Birmingham, England. Table hollow ware of all kinds. 241,067; Apr. 17; Serial No. 252,678; published Jan. 31, 1928. Class 2.

Brown, George J., doing business as Brown's Pharmacy, Scranton, Pa. Salve. 241,106; Apr. 17; Serial No. 248,390; published Jan. 31, 1928. Class 6.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Tobacco. 241,061; Apr. 17; Serial No. 250,875; published Jan. 31, 1928. Class 17.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Tobacco. 241,062; Apr. 17; Serial No. 250,878; published Jan. 31, 1928. Class 17.

Buescher Band Instrument Co., Elkhart, Ind. Band and orchestra instruments. 241,033; Apr. 17; Serial No. 255,293; published Dec. 20, 1927. Class 26.

Buffalo Toy and Tool Works. (See Labin, Frank.)

Burki, Peter, Lucerne, Switzerland. Cheese. 241,069; Apr. 17; Serial No. 253,490; published Jan. 31, 1928. Class 46.

Caliendo, Joseph, New York, N. Y. Abdominal or stomach belts. 241,043; Apr. 17; Serial No. 257,343; published Jan. 24, 1928. Class 44.

California Tanning Company, St. Louis, Mo. Leather shoe laces. 241,130; Apr. 17; Serial No. 251,714; published Feb. 7, 1928. Class 40.

Calvet, J., & Cie. S. A. R. L., Bordeaux, France. Claret, Burgundy, and sauterne wines. 241,027; Apr. 17; Serial No. 258,064; published Feb. 7, 1928. Class 47.

Cambridge Rubber Company, Cambridge, Mass. Rubber overshoes. 241,031; Apr. 17; Serial No. 257,274; published Jan. 31, 1928. Class 39.

Campbell Coal Company, Atlanta, Ga. Dental moulding and orthopedic plasters. 241,021; Apr. 17; Serial No. 257,783; published Jan. 31, 1928. Class 44.

Carque Pure Food Co. Inc., Los Angeles, Calif. Breakfast cereal. 241,141; Apr. 17; Serial No. 259,197; published Feb. 7, 1928. Class 46.

Carstens, Evelyn C., Woodhaven, N. Y. Hair-color restorer, beauty creams, lotions, etc. 241,073; Apr. 17; Serial No. 257,524; published Feb. 7, 1928. Class 6.

Casey, Michael J., Seattle, Wash. Aprons and uniforms. 241,207; Apr. 17; Serial No. 250,834; published Feb. 7, 1928. Class 39.

Central Stamping Company, The, New York, N. Y. Stamped sheet-metal ware. 69,879; renewed July 14, 1928.

Century Specialty Co., Chicago, Ill. Cuff buttons and parts thereof. 241,099; Apr. 17; Serial No. 258,112; published Jan. 31, 1928. Class 28.

Chamberlain Company, The, Pittsburgh, Pa. Cleansing substance. 241,271; Apr. 17. Class 6.

Chesnin, Leis & Co., Inc., New York, N. Y. Gowns, princess slips, chemise, etc. 241,160; Apr. 17; Serial No. 257,345; published Feb. 7, 1928. Class 39.

Cisco, Inc., New York, N. Y. Gentlemen's mufflers. 241,226; Apr. 17; Serial No. 258,899; published Feb. 7, 1928. Class 39.

Clean Eze Polish Company. (See Goble, Daniel L.)

Climax Molybdenum Company, New York, N. Y. Alloys of iron. 241,185; Apr. 17; Serial No. 257,918; published Feb. 7, 1928. Class 14.

Cohen, A., & Sons Corp., New York, N. Y. Toilet sets. 241,241; Apr. 17. Class 40.

Cohn, H. C., and Company, Rochester, N. Y. Necktles. 68,186; renewed Mar. 10, 1928.

Colman, J. & J., Limited. (See Stickney & Poor Spice Co., assignor.)

Compagnie de la Source Perrier Les Bouillens, Vergese, Gard, France. Mineral waters and aerated table waters. 241,063; Apr. 17; Serial No. 250,677; published Jan. 31, 1928. Class 46.

Cranford, John N., doing business as Sovereign Products, Omaha, Nebr. Furniture polish and polish for all varnished surfaces. 241,720; Apr. 17; Serial No. 258,116; published Feb. 7, 1928. Class 16.

Crofut & Knapp Co., The, South Norwalk, Conn. Felt hats for men. 241,251; Apr. 17. Class 39.

Crouse-Hinds Company as assignee of Appleton Electric Company, assignor to Crouse Hinds Company, Syracuse, N. Y. Outlet bushings for electric wiring purposes. 67,753; renewed Feb. 18, 1928.

Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Pastes and powders for beautifying and preserving the teeth, skin, etc., and perfumery. 241,026; Apr. 17; Serial No. 258,168; published Jan. 31, 1928. Class 6.

David & Blum, Inc., New York, N. Y. Gloves. 241,176; Apr. 17; Serial No. 254,576; published Feb. 7, 1928. Class 39.

Dealer's Refrigerator Company, San Francisco, Calif. Show-case refrigerators, refrigerator doors, etc. 241,094; Apr. 17; Serial No. 251,655; published Feb. 7, 1928. Class 31.

De Nobili Cigar Company, New York, N. Y. Cigars, cigarettes, etc. 241,071; Apr. 17; Serial No. 254,388; published Feb. 7, 1928. Class 17.

Diamond Chain and Manufacturing Company, Indianapolis, Ind. Machine-drive chains. 241,217; Apr. 17; Serial No. 237,314; published Feb. 14, 1928. Class 13.

Dickinson Cord Tire Corporation, Nutley, N. J. Tire casings. 241,052; Apr. 17; Serial No. 222,500; published Jan. 31, 1928. Class 85.

Diel-Grund Company, The, St. Louis, Mo. Hosiery. 241,118; Apr. 17; Serial No. 236,306; published Dec. 27, 1927. Class 39.

Dunn, John J., doing business as Veg-E-Dine Co., New York, N. Y. Vegetable food product. 241,188; Apr. 17; Serial No. 257,791; published Feb. 7, 1928. Class 46.

Duradex Company, The, New York, N. Y. Card indexes, guide cards, etc. 241,209; Apr. 17; Serial No. 247,363; published July 5, 1927. Class 37.

Duro Manufacturing Company, Charleston, Ill. Paint. 241,174; Apr. 17; Serial No. 254,998; published Jan. 31, 1928. Class 16.

Durst Milling Company, The, Dayton, Ohio. Wheat flour. 70,342; renewed Aug. 25, 1928.

Ebon Dress Company, Inc., New York, N. Y. Dresses. 241,058; Apr. 17; Serial No. 249,268; published July 26, 1927. Class 39.

Ely & Walker Dry Goods Company, St. Louis, Mo. Hosiery, gloves, and underwear. 241,129; Apr. 17; Serial No. 252,420; published Feb. 7, 1928. Class 39.

Emmental Cheese Corporation, New York, N. Y. Cheese. 241,142; Apr. 17; Serial No. 258,939; published Feb. 7, 1928. Class 46.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing tackle. 241,214; Apr. 17; Serial No. 241,709; published Feb. 7, 1928. Class 22.

Eskilstuna Jernmanufaktur Aktiebolag, Eskilstuna, Sweden. Cutlery. 241,053; Apr. 17; Serial No. 242,419; published Jan. 31, 1928. Class 23.

Excello Rubber Company Inc., New York, N. Y. Rubber clothing, waterproof clothing, etc. 241,169; Apr. 17; Serial No. 256,403; published Feb. 7, 1928. Class 39.

Excello Rubber Company, Inc., New York, N. Y. Rubber and oilskin articles of clothing. 241,267; Apr. 17. Class 39.

Eynard, J., & Cie., Paris, France. Chirurgical instruments. 241,215; Apr. 17; Serial No. 241,333; published Feb. 14, 1928. Class 44.

F. & H. Radio Laboratories. (See Furnberg, Carl W.)

Fidelity Hop & Malt Corporation, Chicago, Ill. Malt syrup for food purposes. 241,143; Apr. 17; Serial No. 258,808; published Feb. 7, 1928. Class 46.

Firestone Tire and Rubber Company, The, Akron, Ohio. Tires and inner tubes. 241,051; Apr. 17; Serial No. 258,941; published Feb. 7, 1928. Class 85.

Fischer-Jelenko Inc., New York, N. Y. Lounging gowns, bath robes, and beach capes. 241,224; Apr. 17; Serial No. 258,320; published Feb. 7, 1928. Class 39.

Fitch, Fred W., Boone, assignor to F. W. Fitch Company, Des Moines, Iowa. Hair tonic, dandruff remover, and shampoo preparations. 69,936; renewed July 21, 1928.

Fleron, M. M., & Son, Inc., Trenton, N. J. Lightning arresters, glass insulators, lead-in bushings, and aerial outfits. 241,249; Apr. 17. Class 21.

Forest Electric Co., Inc., Newark, N. J. Battery chargers, rectifiers, etc. 241,256; Apr. 17. Class 21.

Forsell, John E., doing business as Old Trusty Company, Clay Center, Nebr. Storage batteries. 241,020; Apr. 17; Serial No. 257,795; published Jan. 31, 1928. Class 21.

Franco Corset Company, New York, N. Y. Corset and brassière. 241,125; Apr. 17; Serial No. 254,964; published Feb. 7, 1928. Class 39.

Frank, Harry, New York, N. Y. Dresses. 241,034; Apr. 17; Serial No. 255,590; published Jan. 10, 1928. Class 39.

Friedlander Bros., Moultrie, Ga. Overalls, dress and work shirts, etc. 241,263; Apr. 17. Class 39.

Fuller Brush Company, The, Hartford, Conn. Furniture polish and floor wax. 241,222; Apr. 17; Serial No. 258,261; published Jan. 31, 1928. Class 16.

Furnberg, Carl W., doing business as F. & H. Radio Laboratories, Fargo, N. Dak. Booster device for bringing the aerial into resonance with the incoming frequency. 241,243; Apr. 17. Class 21.

Galey & Lord, Inc., New York, N. Y. Cotton and rayon fabrics. 241,065; Apr. 17; Serial No. 251,664; published Feb. 7, 1928. Class 42.

Gawronski, Stanley, Elizabeth, N. J. Palliative for asthma, colds, coughs, etc. 241,090; Apr. 17; Serial No. 257,059; published Feb. 7, 1928. Class 6.

Gebrüder Adt Aktiengesellschaft, Wachtersbach, Germany. Round basins, oval baths, jugs, etc. 241,178; Apr. 17; Serial No. 254,351; published Feb. 14, 1928. Class 2.

General Cable Corporation. (See Standard Underground Cable Company, assignor.)

General Flour Company. (See Blaustein, Lewis.)

Glaser, Leo, New York, N. Y. Suits, overcoats, and topcoats, Boys'. 241,244; Apr. 17. Class 39.

Glaser Shoe Company, assignor to Glaser Shoe Company, San Francisco, Calif. Shoes. 241,250; Apr. 17. Class 39.

Glickman, Simon S., doing business as Glico Hosiery Co., Albany, N. Y. Hosiery. 241,212; Apr. 17; Serial No. 243,087; published Feb. 7, 1928. Class 39.

Glico Hosiery Co. (See Glickman, Simon S.)

Goble, Daniel L., doing business as Clean Eze Polish Company, Birmingham, Ala. Polish. 241,200; Apr. 17; Serial No. 253,500; published Feb. 7, 1928. Class 16.

Godman, H. C., Company, The, Columbus, Ohio. Shoes. 241,181; Apr. 17. Serial No. 258,025; published Feb. 7, 1928. Class 39.

Graton & Knight Company, Worcester, Mass. Leather soles for boots and shoes. 241,171; Apr. 17; Serial No. 255,913; published Feb. 7, 1928. Class 39.

Graybar Electric Company, Inc., New York, N. Y. Solder. 241,203–5; Apr. 17; Serial Nos. 251,750–2; published Feb. 7, 1928. Class 14.

Greenough, Byron, & Company, Portland, Me. Hats and caps. 241,245; Apr. 17. Class 39.

Gregory, Paul, New York, N. Y. Medicine. 241,081; Apr. 17; Serial No. 258,180; published Feb. 7, 1928. Class 6.

Greif, L., & Bro. Incorporated, Baltimore, Md. Topcoats, overcoats, coats, etc. 241,259; Apr. 17. Class 39.

Grigsby-Grunow-Hinds Co., Chicago, Ill. Battery eliminators. 241,258; Apr. 17. Class 21.

Grose, Henry B., Augusta, Ga. Dentifrice. 241,083; Apr. 17; Serial No. 258,227; published Feb. 7, 1928. Class 6.

Gypsy Dyes, Inc., Chicago, Ill. Paint. 241,196; Apr. 17; Serial No. 257,409; published Feb. 7, 1928. Class 16.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 241,070; Apr. 17; Serial No. 253,886; published Jan. 31, 1928. Class 42.

Haft, Morris W., & Bros. Inc., New York, N. Y. Dresses, coats, and suits. 241,180; Apr. 17; Serial No. 258,080; published Feb. 7, 1928. Class 39.

Hagemeister, Johanne, doing business as J. Hagemeister & Son, Bedford Hills, N. Y. Preparation for the treatment of gallstones. 241,152; Apr. 17; Serial No. 252,260; published Jan. 31, 1928. Class 6.

Haines, Mahlon N., York, Pa. Shoes. 241,124; Apr. 17; Serial No. 254,967; published Dec. 20, 1927. Class 39.

Haines Shoe Company, York, Pa. Shoes. 241,115; Apr. 17; Serial No. 254,968; published Dec. 20, 1927. Class 39.

Herman Brothers Company, Lincoln, Nebr., assignor, by mesne assignments, to The Knorr Mercantile Company, Wichita, Kans. Clothing. 68,255; renewed Mar. 17, 1928.

Herman, Joseph M., Shoe Co., Millis, Mass. Shoes. 241,184; Apr. 17; Serial No. 257,982; published Feb. 7, 1928. Class 39.

Hermann & Kuhn Mfg. Company, Memphis, Tenn. Dresses. 241,194; Apr. 17; Serial No. 257,580; published Feb. 7, 1928. Class 39.

High Grade Products Distributing Co. (See Perloff, Solomon B., assignor.)

Highland Mills, Inc., Little Falls, N. Y. Hosiery. 241,248; Apr. 17. Class 39.

Hildebrand Chocolate Company, Inc., New York, N. Y. Chocolate, fancy articles, etc. 241,133; Apr. 17; Serial No. 249,275; published Feb. 7, 1928. Class 46.

Hirschberg & Company, New York, N. Y. Men's and boys' golf caps. 241,123; Apr. 17; Serial No. 255,808; published Jan. 31, 1928. Class 39.

Hirshfield, M., doing business as M. Hirshfield & Company and M. Hirshfield & Co., Los Angeles, Calif. Clothing. 241,179; Apr. 17; Serial No. 254,280; published Feb. 7, 1928. Class 39.

Holt & Company, Inc. (See Norris, J. Olney, assignor.)

Holtzman, Jacob, New York, N. Y. Dresses. 241,165; Apr. 17; Serial No. 256,778; published Feb. 7, 1928. Class 39.

Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, etc. 241,030; Apr. 17; Serial No. 257,926; published Jan. 31, 1928. Class 39.

Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, overshoes, and soled canvas shoes. 241,122; Apr. 17; Serial No. 256,123; published Jan. 31, 1928. Class 39.

Horst, Fred F., doing business as Horst Chemical Co., Bellingham, Wash. Vanilla flavoring for food purposes. 241,144; Apr. 17; Serial No. 258,746; published Feb. 7, 1928. Class 46.

Horton, Sidney, New York, N. Y. Butter. 241,116; Apr. 17; Serial No. 239,709; published Feb. 7, 1928. Class 46.

Huette, W. B., Shoe Company, St. Louis, Mo. Boots and shoes and hosiery. 241,238; Apr. 17. Class 39.

Hunt, Philip A., Company, Brooklyn, N. Y. Paint remover. 241,235; Apr. 17; Serial No. 259,175; published Feb. 7, 1928. Class 16.

Hunt, Robert W., Co., Chicago, Ill. Rail anchors, reinforcement bars, tie plates, etc. 241,201; Apr. 17; Serial No. 252,710; published Feb. 7, 1928. Class 14.

Hutto Engineering Company, Inc., Detroit, Mich. Devices for grinding cylinders manually or by power. 241,260–1; Apr. 17. Class 23.

International Milling Company. (See Western Flour Mill Company, assignor.)

Iodinol Chemical Company, The, Omaha, Nebr. Iodine. 241,105; Apr. 17; Serial No. 248,498; published Feb. 7, 1928. Class 6.

Jerrold Co., The, Saginaw, Mich. Clothing. 241,126; Apr. 17; Serial No. 254,290; published Jan. 31, 1928. Class 39.

Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 241,068; Apr. 17; Serial No. 252,904; published Feb. 7, 1928. Class 9.

K-B-F Corporation, Chicago, Ill. Lamp shades. 241,168; Apr. 17; Serial No. 256,409; published Feb. 14, 1928. Class 34.

Kennedy, Rosamond L., London, England. Brassières, corsets, camisoles, etc. 241,131; Apr. 17; Serial No. 251,620; published Feb. 7, 1928. Class 39.

Ken-Wel Sporting Goods Co., Inc., Utica, N. Y. Athletic and sporting goods. 241,191; Apr. 17; Serial No. 257,757; published Jan. 31, 1928. Class 22.

Kerafol Company, The, Newark, N. J. Textile material with flexible waterproof coating. 31,907; Aug. 30, 1928. Class 50.

Key-Tag Checking System Company, The, Cleveland, Ohio. Laundry checking and identifying appliances, etc. 241,254; Apr. 17. Class 24.

Kiesel, Helen C., doing business as the Succulenta Company, Scranton, Pa. Concentrated substitute for green feed. 241,113; Apr. 17; Serial No. 241,576; published Feb. 7, 1928. Class 46.

Kil-O-Mite Chemical Co. (See Nichols, Robert C.)

Klosters Aktiebolag, Langshyttan, Sweden. Iron and steel, etc. 241,210; Apr. 17; Serial No. 246,758; published Feb. 7, 1928. Class 14.

Knorr Mercantile Company, The. (See Herman Brothers Company, assignor.)

Knott, William R., New Brunswick, N. J. Cleaning and polishing preparations. 241,175; Apr. 17; Serial No. 254,803; published Feb. 7, 1928. Class 16.

Kodowa Refrigerator Co., Ltd., The Hague, Netherlands. Ice boxes, ice machines, etc. 241,167; Apr. 17; Serial No. 256,526; published Feb. 14, 1928. Class 31.

Kohn & Company, Newark, N. J. Jewelry. 241,041–2; Apr. 17; Serial Nos. 257,102–3; published Jan. 31, 1928. Class 28.

Koko Maricopas Company Limited, London, England. Hair wash. 70,258; renewed Aug. 18, 1928.

Kraft Cheese Company, Chicago, Ill., now by change of name Kraft-Phenix Cheese Company. Cheese. 241,112; Apr. 17; Serial No. 243,708; published Apr. 5, 1927. Class 46.

Kuhn, H. Dale, doing business as H. Dale Kuhn Laboratory, H. Dale Kuhn Druggist, and Kuhn Drug Company, Shelby, Ohio. Compounds for use in pickling vegetables. 241,110; Apr. 17; Serial No. 245,846; published Feb. 7, 1928. Class 46.

Kurzman, Inc., New York, N. Y. Gloves. 241,029; Apr. 17; Serial No. 257,930; published Jan. 31, 1928. Class 39.

Kussy, Herman, to Hermann Kussy Company, Newark, N. J., successor. Canned fruits and vegetables, tapioca, corn starch, and extract of vanilla. 70,415; renewed Aug. 25, 1928.

Labin, Frank, doing business as Buffalo Toy and Tool Works, Buffalo, N. Y. Toy Ferris wheel. 241,211; Apr. 17; Serial No. 245,351; published Jan. 31, 1928. Class 22.

Lachman, G., Co., Inc., Philadelphia, Pa. Stamped goods. 241,139; Apr. 17; Serial No. 241,166; published Feb. 7, 1928. Class 40.

Lack Manufacturing Company, Paducah, Ky. Display racks or fixtures for displaying neckties. 241,270; Apr. 17. Class 32.

Lambert, Louis F., Coatesville, Pa. Fresh mushrooms, mushroom spawn, and preserved mushrooms. 241,247; Apr. 17. Class 46.

Lamson Company, The. (See Air Line Carrier Co.)

Larned, Carter & Company, Detroit, Mich. Clothing. 241,216; Apr. 17; Serial No. 240,082; published Feb. 7, 1928. Class 39.

Lazarus-Meyer Co., Inc., New York, N. Y. Ladies' hats. 241,262; Apr. 17. Class 39.

Legg, A. M., Shoe Company, Pontiac, Ill. Shoes. 241,258; Apr. 17. Class 39.

Leyland Motors Limited, Leyland, England. Motor vehicles, motor chassis, etc. 241,064; Apr. 17; Serial No. 251,565; published Jan. 31, 1928. Class 19.

Linden, John, Cleveland, Ohio. Medical preparation. 31,718; renewed June 21, 1928.

Lindenthal, H. M., and Sons, assignor to Ed V. Price & Co., Chicago, Ill. Coats, pants, vests, and overcoats. 68,051; renewed Mar. 3, 1928

Lionel Trading Co. Inc., New York, N. Y. Rouge and powder compacts. 241,075; Apr. 17; Serial No. 257,106; published Feb. 7, 1928. Class 6.

Livermeal Corporation, Wilmington, Del., and New York, N. Y. Prepared dietary food. 241,078; Apr. 17; Serial No. 257,737; published Feb. 7, 1928. Class 46.

Lyons, Leon, doing business as Lyons Hose Protector Company, Omaha, Nebr. Hose protector. 241,266; Apr. 17. Class 39.

Maconochie Bros. Ltd., London, England. Pickles. 69,026; renewed May 12, 1928.

Maggi Co., The, Kempttal, Zurich, Switzerland. Bouillon cubes. 241,135; Apr. 17; Serial No. 244,170; published Feb. 7, 1928. Class 46.

Maggi Co., The, Kempttal, Zurich, Switzerland. Bouillon cubes. 241,136–7; Apr. 17; Serial Nos. 244,168–9; published Jan. 31, 1928. Class 46.

Maggi Co., The, Kempttal, Zurich, Switzerland. Canned soups. 241,138; Apr. 17; Serial No. 244,167; published Feb. 7, 1928. Class 46.

Malan, Gordon T., Philadelphia, Pa. Meter-record cards. 241,257; Apr. 17. Class 37.

Marti, Hugh A., Company, Long Beach, Calif. Sanitary pads. 241,173; Apr. 17; Serial No. 255,186; published Feb. 7, 1928. Class 44.

Maybach-Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Automobiles and launches. 241,218; Apr. 17; Serial No. 224,824; published Feb. 14, 1928. Class 19.

McLoughlin Manufacturing Company, Indianapolis, Ind. Textile-fabric underwear. 241,265; Apr. 17. Class 39.

McQuade, John, & Company, Inc., Brooklyn, N. Y. Paint. 241,234; Apr. 17; Serial No. 259,129; published Feb. 7, 1928. Class 16.

Meyerson Brothers, Council Bluffs, Iowa. Wheat flour. 241,147; Apr. 17; Serial No. 256,531; published Feb. 7, 1928. Class 46.

Mimlin Chemical Corporation, Philadelphia, Pa. Antiseptic solution. 241,140; Apr. 17; Serial No. 259,248; published Feb. 7, 1928. Class 6.

Miller, Fred G., doing business as Miller Mfg. Co., Washington, Ill. Fasteners for overshoes. 241,109; Apr. 17; Serial No. 246,492; published Jan. 31, 1928. Class 40.

Moore-Lowry Flour Mills Company, The, Rosedale Station, Kansas City, Kans. Wheat flour. 241,120; Apr. 17; Serial No. 232,094; published Nov. 9, 1926. Class 46.

Morrell, John, & Co., Ottumwa, Iowa. Hams, shoulders, boneless butts, etc. 241,193; Apr. 17; Serial No. 257,584; published Feb. 7, 1928. Class 46.

Morrison Fountain Pen Co., New York, N. Y. Fountain pens and pencils. 241,268; Apr. 17. Class 37.

Moscow, Frank, doing business as Scientific Lubricants Co., Chicago, Ill. Lubricating oils and greases. 241,255; Apr. 17. Class 15.

Mueller Brass Company, Port Huron, Mich. Metal pipe, pipe fittings, bolts, etc. 241,170; Apr. 17; Serial No. 256,135; published Feb. 14, 1928. Class 13.

Munroe Shoe Company, Inc., The, Auburn, Me. Boots, shoes, and slippers. 241,177; Apr. 17; Serial No. 254,357; published Feb. 7, 1928. Class 39.

Muralo Company, Inc., The, New Brighton, N. Y. Surfacing compound for filling imperfections. 241,186; Apr. 17; Serial No. 257,888; published Feb. 7, 1928. Class 16.

Mustad, O., & Søn, Oslo, Norway. Nails and horseshoe nails. 241,252; Apr. 17. Class 13.

Namm, A. I., & Son, Brooklyn, N. Y. Men's and boys' shoes, slippers, gloves, leggings, etc. 241,184; Apr. 17; Serial No. 248,011; published Aug. 30, 1927. Class 39.

National India Rubber Company, Bristol, R. I. Rubber boots and shoes, and rubber soles. 68,955; renewed May 12, 1928.

National India Rubber Company, Bristol, R. I. Rubber water bottles and rubber syringe bags. 69,524; renewed June 16, 1928.

Neumann, Morton G., Chicago, Ill. Face powder, rouge, lip stick, etc. 241,151; Apr. 17; Serial No. 252,393; published Jan. 31, 1928. Class 6.

Newman Pharmacal Company, Louisville, Ky. Antiseptic and deodorant powder. 241,087; Apr. 17; Serial No. 258,585; published Feb. 7, 1928. Class 6.

New Process Company, Warren, Pa. Bath robes. 241,163; Apr. 17; Serial No. 257,114; published Feb. 7, 1928. Class 39.

"New Way" Motor Company, The, Lansing, Mich. Stationary and marine internal-combustion engines. 68,206; renewed Mar. 17, 1928.

New York Quinine & Chemical Works Limited, New York, N. Y., assignor to The New York Quinine and Chemical Works, Inc., Brooklyn, N. Y. Chemicals. 68,898; renewed May 5, 1928.

Nichols, Robert C., doing business as Kil-O-Mite Chemical Co., Athens, Ala. General disinfectant against certain insects. 241,108; Apr. 17; Serial No. 246,923; published Feb. 7, 1928. Class 6.

Nickols Manufacturing Company, Inc., Seattle, Wash. Frocks, dresses, and aprons. 241,240; Apr. 17. Class 39.

Noilly Prat & Cie., Marseille, France. Vermuth. 241,048; Apr. 17; Serial No. 258,535; published Jan. 31, 1928. Class 49.

Norris, J. Olney, Baltimore, Md., assignor, by mesne assignments, to Holt & Company, Inc., New York, N. Y. Wheat flour. 68,917; renewed May 5, 1928.

Norvell-Shapleigh Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Lawn mowers. 68,001; renewed Mar. 3, 1928.

Norvell-Shapleigh Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Hammers. 68,011; renewed Mar. 3, 1928.

Norvell-Shapleigh Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Noncutting pliers, noncutting pincers, wrenches, and putty knives. 68,012; renewed Mar. 3, 1928.

Norvell-Shapleigh Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Picks, grub hoes, trowels, shovels, and spades. 68,013; renewed Mar. 3, 1928.

Norvell-Shapleigh Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Ice skates. 68,052; Mar. 3, 1928. Class 22.

Ogden and Shimer, assignors, by mesne assignments, to Harry C. Ogden, Middletown, N. Y. Toilet cream. 66,522; renewed Dec. 10, 1927.

Ogden and Shimer, assignor, by mesne assignments, to Harry C. Ogden, Middletown, N. Y. Cough mixture. 66,647; renewed Dec. 17, 1927.

Old Trusty Company. (See Forsell, John E.)

Pacent Radio Corporation, New York, N. Y. Electric reproducer. 241,060; Apr. 17; Serial No. 250,260; published Jan. 24, 1928. Class 21.

Paramount Knitting Company, assignor to Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 69,087; renewed May 19, 1928.

Parfumerie Caron. (See Daltroff, E., & Cie.)

Parke, L. H., Company, Philadelphia, Pa. Furniture cream. 241,223; Apr. 17; Serial No. 258,278; published Jan. 31, 1928. Class 16.

Parkington, J. R., & Co., Ltd., London, England. Port and sherry wines. 241,055; Apr. 17; Serial No. 247,386; published Feb. 7, 1928. Class 47.

Parkington, J. R., & Co., Ltd., London, England. Port wine. 241,056; Apr. 17; Serial No. 247,387; published Feb. 7, 1928. Class 47.

Payne, George C., San Jose, Calif. Fresh pears. 241,049; Apr. 17; Serial No. 258,589; published Jan. 31, 1928. Class 46.

Pearl Waist Co. Inc. (See Quinn, John F.)

Peerless Carbon Black Company, The, Pittsburgh, Pa. Carbon black. 241,183; Apr. 17; Serial No. 257,994; published Jan. 31, 1928. Class 16.

Perkins Dry Goods Company, Dallas, Tex. Overalls and work pants, etc. 241,264; Apr. 17. Class 39.

Perloff, Solomon B., assignor to The High Grade Products Distributing Co., Philadelphia, Pa. Malt sirup and extract. 241,111; Apr. 17; Serial No. 245,579; published Jan. 31, 1928. Class 46.

Pfeiffer, Fredrick, sr., Freeport, N. Y. Games. 241,202; Apr. 17; Serial No. 252,566; published Feb. 7, 1928. Class 22.

Pike, Willis, assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Raisins and dried fruits. 68,785; renewed Apr. 28, 1928.

Pioneer Pacific Worsted Co., The, Los Angeles and Long Beach, Calif. Knitted and textile fabrics of wool. 241,050; Apr. 17; Serial No. 254,473; published Jan. 31, 1928. Class 42.

Planten, H., & Son Inc., Brooklyn, N. Y. Medicine. 241,072; Apr. 17; Serial No. 257,558; published Jan. 31, 1928. Class 6.

Price, Ed. V., & Co. (See Lindenthal, H. M., and Sons, assignor.)

Propper Silk Hosiery Mills, Inc., New York, N. Y. Silk hosiery. 241,242; Apr. 17. Class 39.

Purity Oats Company, Keokuk, Iowa. Stock feed. 241,076–7; Apr. 17; Serial Nos. 257,597–8; published Feb. 7, 1928. Class 46.

Quinn, John F., to Pearl Waist Co. Inc., Cohoes, N. Y., successor. Knitted waists. 68,317; renewed Mar. 24, 1928.

R. G. S. Novelty Co. Inc., New York, N. Y. Children's knitted sweaters, pants, caps, etc. 241,192; Apr. 17; Serial No. 257,599; published Feb. 7, 1928. Class 46.

R & H Platinum Works, Inc., Perth Amboy, N. J. Jewelry. 241,039; Apr. 17; Serial No. 256,685; published Jan. 31, 1928. Class 28.

Randall Graphite Products Corporation, Wilmington, Del., and Chicago, Ill. Piston rings. 241,018; Apr. 17; Serial No. 258,040; published Feb. 7, 1928. Class 35.

Ra-Tor Mining & Manufacturing Co., Tyrone, N. Mex. Pine containing radium or a radium compound. 241,074; Apr. 17; Serial No. 257,440; published Feb. 7, 1928. Class 6.

Reckitt & Sons Limited, Hull, England, assignor to Reckitts (U. S. A.), Ltd., Hull, England, and New Brunswick, N. J. Blue for laundry purposes. 69,593; renewed June 23, 1928.

Rees-Scott Company, Ltd., The, New Orleans, La. Timber, logs, lumber, and lumber manufactures. 70,069; renewed July 28, 1928.

Regnatz Inc., Lakewood, Ohio. Pickles, noodles, fruit preserves, cakes, and pastries. 241,104; Apr. 17; Serial No. 250,712; published Feb. 7, 1928. Class 46.

Renu Products Corporation, doing business as Bingo Products Corporation, Portland, Oreg. Carpet and rug cleaner. 241,107; Apr. 17; Serial No. 247,211; published Dec. 6, 1927. Class 4.

Rice-Stix Dry Goods Company, St. Louis, Mo. Dresses. 241,228–9; Apr. 17; Serial Nos. 258,496–7; published Feb. 7, 1928. Class 39.

Richter, Friedrich A., Rudolstadt, Germany, and New York, N. Y., assignor to F. Ad. Richter & Co., New York, Brooklyn, N. Y. Medicines. 68,934–5; renewed May 5, 1928.

Robeson Rochester Corporation, Rochester, N. Y. Electric sadirons. 241,044; Apr. 17; Serial No. 257,382; published Jan. 31, 1928. Class 21.

Rodes-Rapier Co. Inc., Louisville, Ky. Hats and caps. 241,025; Apr. 17; Serial No. 258,193; published Jan. 31, 1928. Class 39.

Rogers, Wm. A., Limited, Toronto, Ontario, Canada, and Niagara Falls, N. Y. Silver-plated flatware, hollow ware, and tableware. 68,369; renewed Mar. 31, 1928.

Rosenberg Brothers & Co., Rochester, N. Y. Coats, pants, vests, and overcoats. 241,219; Apr. 17; Serial No. 223,606; published Feb. 7, 1928. Class 39.

Rothschild, Maurice L., Incorporated, Chicago, Ill. Shoes. 241,023; Apr. 17; Serial No. 258,236; published Feb. 7, 1928. Class 39.

Sagner & Silber, Baltimore, Md. Clothing. 241,269; Apr. 17. Class 39.

Save-All Pie Plate Co., Inc., New York, N. Y. Pie plates. 241,231; Apr. 17; Serial No. 258,834; published Feb. 14, 1928. Class 13.

Schlieper, Carl, Remscheid, Germany. Axes, hatchets, chisels, etc. 241,006; Apr. 17; Serial No. 251,931; published Feb. 7, 1928. Class 28.

Schmidt, Charles D., New York, N. Y. Antiskid chains and parts. 241,239; Apr. 17. Class 13.

Schoelles, Philip O., doing business as P. O. Schoelles & Co., Apalachicola, Fla. Insecticides. 241,091; Apr. 17; Serial No. 257,036; published Feb. 7, 1928. Class 6.

Schwartz Brothers Dental Laboratory Co., St. Louis, Mo. Cast tooth crowns. 241,232; Apr. 17; Serial No. 258,836; published Feb. 14, 1928. Class 44.

Scientific Lubricants Co. (See Moscow, Frank.)

Scoville, Brown & Company, Wellsville, N. Y. Olives, salad dressing, rice, macaroni, etc. 241,059; Apr. 17; Serial No. 249,931; published Jan. 24, 1928. Class 46.

Seidel, Ad., & Sons, Chicago, Ill. Cake mixes. 241,145; Apr. 17; Serial No. 256,747; published Feb. 7, 1928. Class 46.

Shapiro Kenney, Inc., Los Angeles, Calif. Men's suits and overcoats and trousers and knickers. 241,101; Apr. 17; Serial No. 258,140; published Feb. 7, 1928. Class 39.

Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company, assignor.)

Sherwin-Williams Company, The, Cleveland, Ohio. Paint and varnish compositions. 241,213; Apr. 17; Serial No. 242,500; published Feb. 7, 1928. Class 16.

Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric refrigerating apparatus and parts thereof. 241,080; Apr. 17; Serial No. 258,557; published Feb. 7, 1928. Class 31.

Simmons Hardware Company, St. Louis, Mo., to Simmons Hardware Company, New Haven, Conn. Lanterns. 70,440; renewed Sept. 1, 1928.

Smith, Charles L., New York, N. Y. Arch supports for shoes. 241,236; Apr. 17; Serial No. 259,428; published Feb. 14, 1928. Class 44.

Société des Etablissements Louis Rigal, Roquefort, France. Cheeses. 241,148–9; Apr. 17; Serial Nos. 256,267–8; published Feb. 7, 1928. Class 46.

Societe le Ripolin (Societe Anonyme, Francaise de Peintures Laquees et d'Enduits Sous-Marins, Procedes Lefranc & Briegieb Reunis), Paris, France. Mixed paints and varnishes. 67,337; renewed Jan. 28, 1928.

Sovereign Products. (See Crawford, John N.)

Sportcraft Knitting & Mfg. Co., Seattle, Wash. Shooting coats. 241,164; Apr. 17; Serial No. 257,039; published Feb. 7, 1928. Class 39.

Square D Company, Detroit, Mich. Motor starters, switches, transformers, etc. 241,047; Apr. 17; Serial No. 258,241; published Jan. 31, 1928. Class 21.

Standard Underground Cable Company, Pittsburgh, Pa., assignor to General Cable Corporation, New York, N. Y. Electrical conductors and cables. 69,871; renewed July 14, 1928.

Stevens, Chas. A., & Bros., Chicago, Ill. Perfumes. 241,095–8; Apr. 17; Serial Nos. 252,118–21; published Jan. 31, 1928. Class 6.

Stevens, Chas. A., & Bros., Chicago, Ill. Perfumes. 241,153–7; Apr. 17; Serial Nos. 252,122–6; published Jan. 31, 1928. Class 6.

Steves, Vernon, Oakland, Calif. Ultra-violet-ray-processed foods. 241,146; Apr. 17; Serial No. 256,549; published Feb. 7, 1928. Class 46.

Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle bumpers. 241,172; Apr. 17; Serial No. 255,576; published Feb. 14, 1928. Class 19.

Stickney & Poor Spice Co., Boston, Mass., assignor to J. & J. Colman, Limited, London, England. Mustard. 241,117; Apr. 17; Serial No. 238,317; published Feb. 7, 1928. Class 46.

Street, R. B., & Co., Inc., Chicago, Ill. Ironing boards. 241,287; Apr. 17; Serial No. 259,510; published Feb. 14, 1928. Class 24.

Succulenta Company, The. (See Kiesel, Helen C.)

Sun-Maid Raisin Growers of California. (See Pike, Willis, assignor.)

Swift and Company, Chicago, Ill., and St. Paul, Minn., to Swift and Company, Chicago, Ill. Meats and compounds. 31,578; renewed May 24, 1928.

Syndicate Trading Company, New York, N. Y. Dresses. 241,166; Apr. 17; Serial No. 256,751; published Feb. 7, 1928. Class 39.

Terri, Inc., New York, N. Y. Empty compact containers, rouge containers, powder containers, etc. 241,190; Apr. 17; Serial No. 257,765; published Feb. 14, 1928. Class 2.

Terry, Collin, doing business as C. Terry Herb Co., New York, N. Y. Systemic tonic and regulator tea. 241,272; Apr. 17. Class 6.

Thermo Mills, Inc., Hudson, N. Y. Gloves, stockings, sweaters, etc. 241,206; Apr. 17; Serial No. 251,586; published Feb. 7, 1928. Class 39.

Tomato Products Company, Paoli, Ind. Essence or juice prepared from tomatoes. 241,085; Apr. 17; Serial No. 258,302; published Feb. 7, 1928. Class 46.

Townsend Manufacturing Company, Inc., New York, N. Y. Pads for use in the permanent waving of hair. 241,019; Apr. 17; Serial No. 257,907; published Jan. 31, 1928. Class 44.

Trahanas Co., Lowell, Mass. Food product. 241,114; Apr. 17; Serial No. 240,575; published Feb. 7, 1928. Class 46.

Turner, Margaret D., Los Angeles, Calif. Pies. 241,084; Apr. 17; Serial No. 258,243; published Feb. 7, 1928. Class 46.

Twinzy Toy Company, Battle Creek, Mich. Toy dolls and figures. 241,233; Apr. 17; Serial No. 259,086; published Feb. 7, 1928. Class 22.

Underberg, Hubert, doing business as H. Underberg-Albrecht, Rheinberg, Germany. Stomachic. 241,103; Apr. 17; Serial No. 250,768; published Feb. 7, 1928. Class 6.

Vacuum Oil Company, Rochester, N. Y., to Vacuum Oil Co., New York, N. Y. Lubricating oils. 31,861; renewed Aug. 9, 1928.

Veg-E-Dine Co. (See Dunn, John J.)

Vertex Hosiery Mills, Inc., Weissport, Pa. Hosiery. 241,246; Apr. 17. Class 39.

Vic & Herman Inc., Bronx, N. Y. Overcoats, topcoats, and suits. 241,221; Apr. 17; Serial No. 258,201; published Feb. 7, 1928. Class 39.

Volpe Brothers, Laredo, Tex. Coffee, coffee substitute, tea, etc. 241,102; Apr. 17; Serial No. 250,878; published Feb. 7, 1928. Class 46.

Vulcan Last Company, The, doing business as Vulcan Golf Company, Portsmouth, Ohio. Golf clubs. 241,225; Apr. 17; Serial No. 258,385; published Jan. 31, 1928. Class 22.

Warner Brothers Company, The, Bridgeport, Conn. Hose supporters. 68,840; renewed Apr. 28, 1928.

Warner, C. B. & V. K., Red Oak, Ark. Mange medicine for animals. 241,082; Apr. 17; Serial No. 258,203; published Feb. 7, 1928. Class 6.

Waverly Oil Works Company, Pittsburgh, Pa. Lubricating oils, greases, and gasoline. 241,046; Apr. 17; Serial No. 257,610; published Jan. 31, 1928. Class 15.

Weber, Frank C., & Company, Chicago, Ill. Malt syrup and hop syrup. 241,036; Apr. 17; Serial No. 256,025; published Jan. 31, 1928. Class 46.

Western Clock Mfg. Co., The, assignor to Western Clock Company, La Salle, Ill. Watches and clocks. 69,766; renewed July 7, 1928.

Western Flour Mill Company, Davenport, Iowa, assignor, by mesne assignments, to International Milling Company, Minneapolis, Minn. Flours made from wheat. 69,474; renewed June 16, 1928.

Western Woolen Mills, Stayton, Oreg. Manufactured woolen goods. 241,045; Apr. 17; Serial No. 257,391; published Jan. 17, 1928. Class 42.

Whipple Co-Operative Company, assignor, by mesne assignments, to Lewis E. Whipple, Natick, Mass., trustee of The Whipple Company. Mincemeat. 57,618; renewed Nov. 13, 1926.

Wholey Boiler Works, Incorporated, Providence, R. I. Steam heating boilers. 241,195; Apr. 17; Serial No. 257,460; published Feb. 14, 1928. Class 34.

Wiener Brothers and Sprokin, Philadelphia, Pa. Boys' and men's clothing. 241,119; Apr. 17; Serial No. 236,298; published Dec. 13, 1927. Class 39.

Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Domestic refrigerating machines. 241,227; Apr. 17; Serial No. 258,443; published Feb. 14, 1928. Class 31.

Wilson, Mancell, Company, Dallas, Tex. Hats. 241,121; Apr. 17; Serial No. 257,107; published Jan. 31, 1928. Class 39.

Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 241,198; Apr. 17; Serial No. 257,395; published Feb. 7, 1928. Class 22.

Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 241,199; Apr. 17; Serial No. 257,393; published Feb. 7, 1928. Class 22.

Wolf, J., Manufacturing Co., Inc., New York, N. Y. Radio antennæ, loud speakers, etc. 241,040; Apr. 17; Serial No. 256,850; published Jan. 31, 1928. Class 21.

Yvette Co., New York, N. Y. Hair pieces. 241,032; Apr. 17; Serial No. 257,262; published Jan. 17, 1928. Class 40.

Zahnfabrik Wienand Söhne & Co. Gesellschaft mit beschr. Haftung, Sprendlingen, Germany. Artificial teeth and sets of teeth. 241,161–2; Apr. 17; Serial Nos. 257,212–13; published Feb. 14, 1928. Class 44.

Zwirn, Charles, doing business as Charles Zwirn Co., New York, N. Y. Ladies' and misses' dresses. 241,187; Apr. 17; Serial No. 257,837; published Feb. 7, 1928. Class 39.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alberta Candy Company, Inc., San Francisco, Calif. White Cap Marshmallows. For Candy. 33,838; Apr. 17.

Beckett Candy Co., Shelby, Ohio. Orientals. For Candy. 33,839; Apr. 17.

Carnation Milk Products Co., Oconomowoc, Wis.; Chicago, Ill.; and Seattle, Wash. Carnation 'From Contented Cows.' For Evaporated Milk. 33,840; Apr. 17.

Delux Tobacco Company, Portsmouth, Ohio. Romance. For Cigarettes. 33,841; Apr. 17.

Hagerling, Fred J., St. Louis, Mo. Thunderbolt. For Tire Patches. 33,842–4; Apr. 17.

Heide, Henry, Inc., New York, N. Y. Heide's Candies of Quality 10-G-3. For Candy. 33,845; Apr. 17.

Jacobs, W. W., doing business as Jacobs Remedy Company, Louisville, Ky. Jacobs Remedy. For Remedy for Coughs and Colds. 33,846; Apr. 17.

Kolberg, A. O., McAllen, Tex. All O. K. For Vegetables. 33,847; Apr. 17.

Land Owners Packing Co., Los Angeles and San Francisco, Calif. Hind's Royal. For Canned Figs. 33,848; Apr. 17.

Lewis, Frank P., Cigar Co., Peoria, Ill. Lewis' Single Binder, Straight 5¢ Cigar. For Cigars. 33,849; Apr. 17.

Loeb, H. A., & Co., Chicago, Ill. Miss America Human Hair Net. For Hair Nets. 33,850; Apr. 17.

Long, Dennis B., Battle Creek, Mich. Toni-Kaps. For Tonic Capsules. 33,851; Apr. 17.

Long, Dennis B., Battle Creek, Mich. Lax-Kaps. For Laxative Capsules. 33,852; Apr. 17.

Milwaukee Paper Box Co., The, Milwaukee, Wis. Zion Ocean-Flyer Pops. For Candy. 33,853; Apr. 17.

Milwaukee Paper Box Co., The, Milwaukee, Wis. Aunt Edna's Chateau Chocolates. For Candy. 33,854; Apr. 17.

Milwaukee Paper Box Co., The, Milwaukee, Wis. Aunt Edna's Gay Paree Chocolates. For Candy. 33,855; Apr. 17.

Milwaukee Paper Box Co., The, Milwaukee, Wis. Aunt Edna's Seaside Chocolates. For Candy. 33,856; Apr. 17.

National Fox & Wolf Scent Supply Co., Chilhowee, Mo. Shultz Animal Compound. For Lure for Foxes, Wolves, and Coyotes. 33,857; Apr. 17.

Noyes, Helen M., Carthage, Ill., and New York, N. Y. Junoy. Fragrant Depilatory. For Depilatory. 33,858; Apr. 17.

Pfefferkorn, Samuel L., doing business as Louis Pfefferkorn, Baltimore, Md. Mi-Own. For Coffee. 33,859; Apr. 17.

Radio Questionaire Corp., Boston, Mass. Radio Questionaire. For an Educational and Amusement Device. 33,860; Apr. 17.

Rath Packing Company, The, Waterloo, Iowa. Rath's Black Hawk Pork Dainties. For Smoked Butts. 33,861; Apr. 17.

Red Bird Chilli Company, St. Joseph, Mo. Red Bird. For Chili Con Carne. 33,862; Apr. 17.

Reisner, Max, Cleveland, Ohio. Cough-Nix. For Cough Medicine. 33,863; Apr. 17.

Sackett, Hubert, New York, N. Y. Sackett Smoking Tobacco De-Nicotined. For Tobacco Products For Smoking. 33,864; Apr. 17.

Silva Bros., Mills, Calif. Silva-Bros. For Grape Syrup. 33,865; Apr. 17.

Stevens-Wiley Mfg. Co., Inc., The, Philadelphia, Pa. Korn Kure. For Compounds for Treating Corns. 33,866; Apr. 17.

Super Service Corporation, Omaha, Nebr. Super Service. For Powdered Graphite. 33,867; Apr. 17.

Super Service Corporation, Omaha, Nebr. Super Service. For Tire Talc. 33,868; Apr. 17.

Super Service Corporation, Omaha, Nebr. Super Service. For Flake Graphite. 33,869; Apr. 17.

Super Service Corporation, Omaha, Nebr. Super Service. For Touch-Up Enamel. 33,870; Apr. 17.

Super Service Corporation, Omaha, Nebr. Super Service. For Tire Plaster Patches. 33,871; Apr. 17.

Westcott, Slade & Balcom Company, Providence, R. I. Mur-Cop. For Paint. 33,872; Apr. 17.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden Chemical Co., Inc., doing business as Elizabeth Arden, New York, N. Y. The Day You Discover You Have a Square Face. For Venetian Toilet Preparations. 10,776; Apr. 17.

C. G. Spring & Bumper Company, The, Detroit, Mich. Strength. For Vehicle Bumpers. 10,777; Apr. 17.

Clamp Nail Company, Chicago, Ill. They Always Hold. For Clamp Nails. 10,778; Apr. 17.

Cotton Belt Manufacturing Company, Rocky Mount, N. C. Dixie King. For Mattresses. 10,779; Apr. 17.

Ford Motor Company, Detroit, Mich. Greater Even Than Its Beauty Is The Performance of the New Ford Car. For Automobiles. 10,780; Apr. 17.

Ford Motor Company, Detroit, Mich. The New Ford Car—An Announcement of Unusual Importance to Every Automobile Owner. For Automobiles. 16,781; Apr. 17.

Ford Motor Company, Detroit, Mich. Important Facts About The New Ford Car. For Automobiles. 10,782; Apr. 17.

Ford Motor Company, Detroit, Mich. New Ford Car Exceeds All Expectations. For Automobiles. 10,783; Apr. 17.

Ford Motor Company, Detroit, Mich. More Than a New Automobile More Than a New Model. For Automobiles. 10,784; Apr. 17.

Ford Motor Company, Detroit, Mich. First Pictures of the New Ford Car. For Automobiles. 10,785; Apr. 17.

Smith, J. Hungerford, Co., Rochester, N. Y. Suggestions. For Soda-Fountain Supplies. 10,786; Apr. 17.

Whipple, Robert L., Worcester, Mass. In All History Never Before Such Good Bread. For Bread. 10,787; Apr. 17.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott Laboratories, North Chicago, Ill. Expectorant and sedative. 262,586; Apr. 17. Class 6.

Alco Valve Company, St. Louis, Mo. Control valve, a water-regulating valve, and an ammonia filter for refrigerating apparatus. 260,666; Apr. 17. Class 31.

Alpha Delta Pi, Ames, Iowa. Fraternity badges, lapel buttons, pins, cuff links, clasps, etc. 244,341; Apr. 17. Class 28.

Ament, Lucy C., New York, N. Y. Dolls. 261,473; Apr. 17. Class 22.

American Crayon Company, The, Sandusky, Ohio. Emulsion for wall covering. 260,482; Apr. 17. Class 16.

American Home Bureau. (See Brown, Irving L.)

American Signs Corporation, Kalamazoo, Mich. Luminous electric signs. 261,601; Apr. 17. Class 21.

American Stores Company, Philadelphia, Pa. Gelatin dessert. 262,012; Apr. 17. Class 46.

Armstrong Mfg. Co., The, Bridgeport, Conn. Stocks and dies, bolts, and rods, bushings, collars, and handles, nipple holders, rackets, and threading machines, etc. 258,790; Apr. 17. Class 23.

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa. Asbestos board. 261,476; Apr. 17. Class 12.

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa. Impregnated asbestos board. 261,477; Apr. 17. Class 12.

Bamberger, L., & Company, Newark, N. J. Lotions for the hair. 262,690; Apr. 17. Class 6.

Barth & Guttman, New York, N. Y. Cotton piece goods. 259,756; Apr. 17. Class 42.

Bartles-Maguire Oil Company, The, Milwaukee, Wis. Gasoline, motor oil, and other lubricating oils and greases. 262,198; Apr. 17. Class 15.

Bartleson, John H., doing business as Health-Thrift Products Co., Asheville, N. C. Laxative and diuretic compound. 262,046; Apr. 17. Class 6.

Bates Manufacturing Company, Lewiston, Me. Cotton piece goods and bedspreads. 261,096; Apr. 17. Class 42.

Bellerose, Albert R., doing business as Stoppo Products Company, Hartford, Conn. Preparation. 262,387; Apr. 17. Class 6.

Benjamin, E. V., Company, Inc., The, doing business as Maginnis Cotton Mills, New Orleans, La. Shirts, overalls, jackets, pants, etc. 260,549; Apr. 17. Class 39.

Bethesda Mineral Spring Company, Waukesha, Wis. Natural mineral spring water. 258,249; Apr. 17. Class 45.

Blossom Products, Inc., New York, N. Y. Union suits, pajamas, bathing suits, etc. 247,257; Apr. 17. Class 39.

Blue Diamond Trading Stamp Company, Rochester, N. Y. Trading stamps. 261,481; Apr. 17. Class 38.

Board of Trustees of The Philadelphia Museums, doing business as Philadelphia Commercial Museum, Philadelphia, Pa. Monthly magazine. 262,591; Apr. 17. Class 38.

Bohemian Malt Sales Co. Inc., New Orleans, La. Non-alcoholic, cereal malt beverage. 236,724; Apr. 17. Class 48.

Bourjois, Inc., New York, N. Y. Perfume, toilet water, bath powder, etc. 243,131; Apr. 17. Class 6.

Bradley's Laboratory, Motoaka, W. Va. Preparations for the treatment of headaches, colds, etc. 262,149; Apr. 17. Class 6.

Bragg-Kliesrath Corporation, New York and Long Island City, N. Y. Power actuators for operating brake mechanism. 261,038; Apr. 17. Class 23.

Broderick, Elizabeth M., doing business as Elizabeth Marie, Philadelphia, Pa. Astringents, bleach creams, hand lotions, etc. 261,694; Apr. 17. Class 6.

Bronx Board Of Trade, Inc., The, New York, N. Y. Periodical. 262,285; Apr. 17. Class 38.

Brown, Irving L., doing business as American Home Bureau, Chicago, Ill. Annual publication. 261,695; Apr. 17. Class 38.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Smoking and chewing tobacco and cigarettes. 262,286; Apr. 17. Class 17.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Tobacco and cigarette. 262,288; Apr. 17. Class 17.

Browning-Drake Corporation, Cambridge, Mass. Radio receiving sets and radio receiver construction kits and parts thereof. 254,790; Apr. 17. Class 21.

Bruggmann, Gustav A., Zurich, Switzerland. Air-bubble attachments for vacuum cleaners. 256,280; Apr. 17. Class 23.

Buffalo Electro-Chemical Co., Inc., Tonawanda, N. Y. Hydrogen peroxide. 258,570; Apr. 17. Class 6.

Burton-Dixie Corporation, Chicago, Ill. Mattresses, pillows, cushions, and box springs. 262,390; Apr. 17. Class 32.

Burton, R. E., & Son, North Weymouth, Mass. Auto top-patching cement. 262,593; Apr. 17. Class 5.

California Farm and Bureau, Los Angeles, Calif. Monthly publication. 262,595; Apr. 17. Class 38.

California Petroleum Corporation, Los Angeles, Calif. Gasoline. 241,392; Apr. 17. Class 15.

Carbone, Incorporated, Boston, Mass. Monthly publications. 262,392; Apr. 17. Class 38.

Cataract Chemical Company, Inc., Buffalo, N. Y. Chemical products for the filling, bleaching, and conditioning of leather. 261,349; Apr. 17. Class 6.

Cedar Grove Shoe Mfg. Co., Cedar Grove, Wis. Shoes. 260,083; Apr. 17. Class 39.

Chaput, Henry E., M. D., Holyoke, Mass. Medicinal compound. 262,059; Apr. 17. Class 6.

Cockburn & Co. Ltd., Glasgow, Scotland. Medicated inhaler. 257,147; Apr. 17. Class 6.

Columbian Rope Company, Auburn, N. Y. Rope of vegetable fiber. 262,062; Apr. 17. Class 7.

Conover-Mast Corporation, New York, N. Y. Monthly periodical or trade paper. 260,675; Apr. 17. Class 38.

Consolidated Machine Tool Corporation of America, Rochester, N. Y. Punches, shears, bending and straightening rolls, flanging clamps, and plate planers. 261,700; Apr. 17. Class 23.

Coudurier, Fructus, & Descher, Lyon, France. Silks and metal and velvets and metal in the piece. 257,055; Apr. 17. Class 42.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cribben & Sexton Co., Chicago, Ill. Gas ranges and parts thereof. 254,384; Apr. 17. Class 34.

Curtiss Candy Company, The, Chicago, Ill. Shelled, salted, and glaced whole and broken nuts, and popped pop corn. 253,695; Apr. 17. Class 46.

Daily Pantagraph, The, Bloomington, Ill. Daily newspapers. 258,403; Apr. 17. Class 38.

Day-Nite, Inc., Waukesha, Wis. Headlight-testing photometers. 261,490; Apr. 17. Class 26.

De Bar, Harold L., Los Angeles, Calif. Vaginal syringes and ointment applicators. 262,295; Apr. 17. Class 44.

Decker, Jacob E., & Sons, Mason City, Iowa. Ham and bacon. 262,155; Apr. 17. Class 46.

Delbon, Frank G., Brooklyn, N. Y. Leather shanks and combined leather shanks of leather and metal for use in shoes. 258,624; Apr. 17. Class 30.

Delux Tobacco Company, Portsmouth, Ohio. Cigarettes. 262,557; Apr. 17. Class 17.

Detroit Chemical Laboratories. (See Jordan, Calvin C.)

Devil Laboratories Company. (See Seligman, Sely S.)

Doak, J., and Company, Philadelphia, Pa. Injections for the treatment of anæmia, cancer, goitre, etc. 243,692; Apr. 17. Class 6.

Drew Line Company, Fort Atkinson, Wis. Barn and stable equipment and equipment for chicken houses, hogpens, and other farm buildings. 230,288; Apr. 17. Class 13.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polishes and cleaning materials. 261,180; Apr. 17. Class 4.

Eastern Lacquer Company, Lynn and Wakefield, Mass. Lacquer, lacquer enamels, stains, etc. 257,973; Apr. 17. Class 16.

Eaton, Charles A., Company, Brockton, Mass. Leather, rubber, or fabric or combinations of such materials. 259,484; Apr. 17. Class 39.

Eavenson, J., & Sons, Incorporated, Philadelphia, Pa. Soap. 261,181; Apr. 17. Class 4.

Ecker, Will J., jr., St. Louis, Mo. Greeting cards, printed books, and booklets. 244,064; Apr. 17. Class 38.

Editor & Publisher Co., The, New York, N. Y. Newspapers issued weekly. 260,677; Apr. 17. Class 38.

Editor & Publisher Co., The, New York, N. Y. Annual newspaper journals. 261,867; Apr. 17. Class 38.

Editor & Publisher Co., The, New York, N. Y. Newspaper journals. 261,868; Apr. 17. Class 38.

Editor & Publisher Co., The, New York, N. Y. Annual newspaper journals. 261,869; Apr. 17. Class 38.

Edson Keith-Chicago Mercantile Company, Chicago, Ill. Ladies' hats. 256,720; Apr. 17. Class 39.

Egal Metal Products Company, The, Baltimore, Md. Aluminum alloys. 262,352; Apr. 17. Class 14.

Elizabeth Marie. (See Broderick, Elizabeth M.)

Ellis, J. E., Limited, Horsforth, near Leeds, England. Rouges, lipsticks, face creams, etc. 262,451; Apr. 17. Class 6.

Ely & Walker Dry Goods Company, St. Louis, Mo. Sweaters and bathing suits. 170,811; Apr. 17. Class 39.

England, August O., West Chester, Pa. Candies, fancy cakes, ice cream, etc. 244,006; Apr. 17. Class 46.

England, Klein & Levy, Incorporated, New York, N. Y. Finger rings and mountings, scarf pins, brooches, bar pins, pendants, and clasps. 260,006; Apr. 17. Class 28.

Erlanger, N., Blumgart & Co., Inc., New York, N. Y. Piece goods made of cotton, artificial silk, and combination thereof. 262,906; Apr. 17. Class 42.

Ever-Grip Manufacturing Company. (See Young, Charles M.)

Excellent Mfg. Co. (See Nowak, Walter.)

Fairchild Bros. & Foster, New York, N. Y. Extract. 262,396; Apr. 17. Class 6.

Fastidious Company, The, San Francisco, Calif. Bidets. 253,322; Apr. 17. Class 44.

Favorite-Apparatebau-Gesellschaft m. b. H., Berlin, Germany. Physical, optical, geodetical, nautical, electrotechnical instruments. 206,615; Apr. 17. Class 26.

Federal Container Company, Philadelphia, Pa. Boxes and shipping cases of fibrous material. 261,183; Apr. 17. Class 2.

Fer-Don, Monroe A., doing business as Fer-Don, Indianapolis, Ind. Antiseptic oral hygiene. 261,618; Apr. 17. Class 6.

Feu Mermanos, Ayamonte, Spain. Canned fish. 207,451; Apr. 17. Class 46.

Field Glove Company, Bloomington, Ind. Gloves. 255,650; Apr. 17. Class 39.

First National Laboratories, Incorporated, Lehighton, Pa. Liniment. 260,816; Apr. 17. Class 6.

Frangos, M., doing business as Lancaster Chocolate Specialty Co., Lancaster, Pa. Nuts and fruits and all kinds of candies. 253,747; Apr. 17. Class 46.

Frankenfelder, Maximilian C., New York, N. Y. Cheese. 258,682; Apr. 17. Class 46.

Gabriel & Jos. Sedlmayr, Spaten-Franziskaner-Leistbräu A.-G. München, München, Germany. Malt syrups and malt extracts. 258,502; Apr. 17. Class 46.

Gamewell Company, The, Newton Upper Falls, Mass. Electrical fire-alarm systems and parts thereof. 258,867; Apr. 17. Class 21.

Garfinkel, B. J., doing business as Good-Will Malt and Hops Supply Company, Harrisburg, Pa. Malt syrup. 262,398; Apr. 17. Class 46.

General Appliance Corporation, San Francisco, Calif. Electric-circuit interrupters or flashers. 243,852; Apr. 17. Class 21.

General Japanning & Enameling Corporation, New York, N. Y. Radiator cabinets. 258,810; Apr. 17. Class 32.

General Phonograph Corporation, New York, N. Y. Talking machine and phonograph records. 157,268; Apr. 17. Class 36.

Ger Company, The, New York, N. Y. Men's clothing. 261,504; Apr. 17. Class 39.

Gibbs, T. R., doing business as T. R. Gibbs Pharmacy, Belhaven, N. C. Medicine. 262,603; Apr. 17. Class 6.

Goodrich, B. F., Company, The, New York, N. Y. Adhesives. 261,625; Apr. 17. Class 5.

Good-Will Malt and Hops Supply Company. (See Garfinkel, B. J.)

Gould, M. P., Company, Inc., New York, N. Y. House organ. 262,399; Apr. 17. Class 38.

Gould Storage Battery Co., Inc., Depew, N. Y. Storage batteries and parts thereof. 261,876; Apr. 17. Class 21.

Grabel, Robert E., doing business as Master Dentifrice Laboratories, Inc., Borden Springs, Ala. Medicinal powder for the treatment and relief of pyorrhea. 262,025; Apr. 17. Class 6.

Graff Company, Inc., The, New York, N. Y. Men's suits. 260,942; Apr. 17. Class 39.

Graham Bolt & Nut Company, Neville Island, Pa. Nuts. 254,965; Apr. 17. Class 13.

Graton & Knight Company, Worcester, Mass. Belts and belting. 261,957; Apr. 17. Class 35.

Green Table Pad Corp., The, New York and Brooklyn, N. Y. Heatproof and waterproof table pads. 259,954; Apr. 17. Class 50.

Greene, B. D. Marx, San Francisco, Calif. Magazines, magazine articles, and newspaper articles. 262,654; Apr. 17. Class 38.

Griffith-Durney Co., San Francisco, Calif. Canned fruits and canned fish. 260,268; Apr. 17. Class 46.

Grinnell Company, Inc., Providence, R. I. Pipe fittings, valves, and cocks, sprinkler cabinets, etc. 249,267; Apr. 17. Class 13.

Gross, Ilona K., doing business as Ilona Mfg. Co., San Francisco, Calif. Hats, coats, suits, etc. 257,408; Apr. 17. Class 39.

Guaranteed Parts Co., Inc., New York, N. Y. Replacement parts for ignition systems. 261,809; Apr. 17. Class 21.

Hamilburg-Shaw Corporation, New York, N. Y. White-gold and platinum finger rings, bar pins, and bracelets. 260,121; Apr. 17. Class 28.

Hays, Jane D., Chicago, Ill. Restorative medical plaster. 261,192; Apr. 17. Class 6.

Health-Thrift Products Co. (See Bartleson, John H.)

Heinz, H. J., Company, Pittsburgh, Pa. Pickles, chow-chow, baked beans, etc. 260,226; Apr. 17. Class 46.

Heinz, H. J., Company, Pittsburgh, Pa. Rice flakes. 261,879; Apr. 17. Class 46.

Hickman, R. H., Company, Stowe Township, Allegheny County, Pa. Chewing gum. 261,005; Apr. 17. Class 46.

Hicks, Linzy, doing business as Hicks Ice Cream Company, Lexington, Ky. Frozen confections. 260,824; Apr. 17. Class 46.

Hipp, Didisheim Co., Inc., New York, N. Y. Watches, watchcases, watch movements, and parts thereof. 260,683; Apr. 17. Class 27.

Hixbie & Co. Inc., New York, N. Y. Hats, caps, suits, coats, neckties, etc. 259,556; Apr. 17. Class 39.

Hogan Milling Company, The, Junction City, Kans. Wheat flour. 256,437; Apr. 17. Class 46.

Hookless Fastener Company, Meadville, Pa. Separable fasteners. 261,816; Apr. 17. Class 13.

Household Guide Corporation, New York, N. Y. Publication. 256,344; Apr. 17. Class 38.

Humpty Dumpty Stoop-No-More Stores, Inc., Wilmington, Del., and McAllen, Tex. Display trays. 259,682; Apr. 17. Class 32.

Humpty Dumpty Stoop-No-More Stores, Inc., Wilmington, Del., and McAllen, Tex. Advertisement-holding frames. 260,123; Apr. 17. Class 32.

Husband, William P., jr., assignor to The Stearnes Company, Chicago, Ill. Matches. 260,944; Apr. 17. Class 9.

Ideal Shoe Mfg. Co., Milwaukee, Wis. Shoes. 236,039; Apr. 17. Class 39.

Ilona Mfg. Co. (See Gross, Ilona K.)

International Resistance Company, Philadelphia, Pa. Electrical resistance devices. 253,150; Apr. 17. Class 21.

Italian Vineyard Co., Guasti and Los Angeles, Calif. Cooking sherry compounded with salt, wine, jelly, etc. 255,180; Apr. 17. Class 46.

Izod, A. J., Limited, London, England. Outer vests for hunting, etc. 257,582; Apr. 17. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

J. & J. Cash, Inc., South Norwalk, Conn. Woven labels of cotton and silk. 261,861; Apr. 17. Class 40.
Johnson, J. W., Company, Chicago, Ill. Waterproofed shower curtains for shower baths. 257,683; Apr. 17. Class 13.
Johnston Dry Goods Co., Birmingham, Ala. Overalls, coveralls, work shirts, and pants. 262,403; Apr. 17. Class 39.
Jordan, Calvin C., doing business as Detroit Chemical Laboratories, Detroit, Mich. Medicines. 262,610; Apr. 17. Class 6.
Kabler Shoe Co. Inc., The, New York, N. Y. Hosiery. 239,036; Apr. 17. Class 39.
Katsafanas Coffee Company, Pittsburgh, Pa. Coffee. 262,464; Apr. 17. Class 46.
Kaufmann, Max & Co., Inc., New York, N. Y. Cotton piece goods. 259,118; Apr. 17. Class 42.
Klein, E. A., doing business as Klein's Will-Kill Exterminator Co., Milwaukee, Wis. Insecticide. 261,758; Apr. 17. Class 6.
Knobby Krafters, The. (See Nerney, Lester W.)
Kodel Radio Corporation, The, Cincinnati, Ohio. Periodical publications. 261,818; Apr. 17. Class 38.
Kornhandler & Kane, Inc., New York, N. Y. Misses,' women's and children's dresses. 261,006; Apr. 17. Class 39.
Kornhandler & Kane, Inc., New York, N. Y. Ladies' and misses' dresses. 262,092; Apr. 17. Class 39.
La Maroquinerie Nationale, Soc. Ame., Brussels, Belgium. Gloves of leather. 259,497; Apr. 17. Class 39.
Lancaster Chocolate Specialty Co. (See Frangos, M.)
Lange, William L., New York, N. Y. Banjos, banjo ukeleles, guitars, etc. 261,367; Apr. 17. Class 36.
Laxear, George A., Irvington, N. J. Penetrating graphite oil. 248,849; Apr. 17. Class 15.
Leavell Coal Company, Tulsa, Okla. Coal. 258,417; Apr. 17. Class 1.
Lefax, Philadelphia, Pa. Periodical issues. 261,967; Apr. 17. Class 38.
Leveen, Hilda, doing business as Trinity Pharmacal Co., Boston, Mass. Ointments. 250,246; Apr. 17. Class 6.
Levinson, Isaac D., Detroit, Mich. Compound. 256,731; Apr. 17. Class 6.
Levy, A. & J. Zentner Co. (See Wood Curtis Company, assignor.)
Lineol Aktiengesellschaft, Brandenburg-on-the-Havel, Germany. Toy soldiers, animals, menageries, and farms. 260,029; Apr. 17. Class 22.
Looboyle Refining Company, Tulsa, Okla., and Joplin, Mo. Gasoline and lubricating oils. 259,367; Apr. 17. Class 15.
Lyons, Jay F., Los Angeles, Calif. Ice-cream powder. 243,382; Apr. 17. Class 46.
Madame Helena Rubinstein. (See Titus, Helena J.)
Madison, Dr. Rodney, doing business as Dr. Rodney Madison Laboratories, assignor to Dr. Rodney Madison Laboratories, Incorporated, Los Angeles, Calif. Electric or magnetic belts, solenoids, and bipolar applicators. 244,875; Apr. 17. Class 44.
Maestro Metal Products Co., Inc., Jamestown, N. Y. Portable medicine cabinets. 253,812; Apr. 17. Class 32.
Maginnis Cotton Mills. (See Benjamin, E. V., Company, Inc., The.)
Mallard, Albert E., Detroit, Mich. Tablets and capsules. 261,639; Apr. 17. Class 6.
Mansfield, E. R., Co., doing business as Adele Millar, Los Angeles, Calif. Almond-meal compound, acne cream, perfumes, etc. 258,529; Apr. 17. Class 6.
Marcus Brush Co. Inc., New York, N. Y. Paint brushes. 260,952; Apr. 17. Class 29.
Master Dentifrice Laboratories, Inc. (See Grabel, Robert E.)
McEwen, Irving, Omaha, Nebr. Cutworm and gopher repellent and seed-corn disinfectant. 262,239; Apr. 17. Class 6.
Mead Johnson & Company, Evansville, Ind. Activated ergasterol, an antirachitic substance containing vitamin D. 261,897; Apr. 17. Class 6.
Meagher, Matthew C., Bethlehem, Pa. Frozen confection. 246,042; Apr. 17. Class 46.
Megill, Alfred L., doing business at The Edward L. Megill Co., Brooklyn, N. Y. Gauge pins, feed guides, etc. 254,193; Apr. 17. Class 26.
Merchant & Evans Company, Philadelphia, Pa. Gravity roof ventilators. 261,582; Apr. 17. Class 34.
Merz, L. V., doing business as L. V. Merz & Co., Chicago, Ill. Adhesive powder. 262,618; Apr. 17. Class 6.
Messenger Publishing Company, Chicago, Illinois. Wall calendar. 261,519; Apr. 17. Class 38.
Millar, Adele. (See Mansfield, E. R., Co.)
Miller Cereal Mills, Omaha, Nebr. Dry paste. 249,232; Apr. 17. Class 5.
Minnesota Macaroni Co., St. Paul, Minn. Alimentary pastes. 261,977; Apr. 17. Class 46.
Morris, E., Mfg. Co., Detroit, Mich. Toilet combs of rubber, celluloid, and horn. 260,693; Apr. 17. Class 40.
Morse, A. G., Co., Chicago, Ill. Candy. 252,107; Apr. 17. Class 46.
Mountain City Knitting Mills, Chattanooga, Tenn. Hosiery. 262,476; Apr. 17. Class 39.
National Hair Cloth Co., New York, N. Y., and Philadelphia, Pa. Piece goods. 260,904; Apr. 17. Class 42.
National Wool Growers Association, The, Salt Lake City, Utah. Periodical. 258,093; Apr. 17. Class 38.
NEA Service, Inc., Cleveland, Ohio. Comic strip. 262,621; Apr. 17. Class 38.
Nerney, Lester W., doing business as The Knobby Krafters, Attleboro, Mass. Bracelets, brooches, lingerie fasteners, etc. 261,072; Apr. 17. Class 28.
Nichiro Gyogyo Kabushiki Kaisha, Tokyo, Japan. Canned fish, shellfish, beef, etc. 259,210; Appr. 17; Class 46.
Nicomede, Jacob W., doing business as Nicomede Music Co., Altoona, Pa. Banjo and mandolin picks. 261,073; Apr. 17. Class 36.
Nodashoyu-Kabushikikaisha, Noda-Machi, Higashikatsushika-Gun, Chiba-Ken, Japan. Soy, sauce, vinegar, soy-extract, etc. 243,823. Apr. 17. Class 46.
Nowak, Walter, doing business as Excellent Mfg. Co., Buffalo, N. Y. Furniture and piano polish. 238,647; Apr. 17. Class 16.
Ord Milling Company, The, Ord, Nebr. Wheat flour. 204,044; Apr. 17. Class 46.
Oro Watch Co., New York, N. Y. Watches and watch movements. 262,479; Apr. 17. Class 27.
Outlet Company, The, Providence, R. I. Men's clothing. 261,016; Apr. 17. Class 39.
Pacific Legion, Inc., The, Portland, Ore. Monthly magazine. 261,679; Apr. 17. Class 38.
Pacific Northwest Paper Mills, Inc., Portland, Oreg. Safety paper. 256,579; Apr. 17. Class 37.
Palmolive-Peet Company, The, Chicago, Ill. Saponaceous shaving cream. 253,906; Apr. 17. Class 4.
Pan Pacific Products, Incorporated, Los Angeles, Calif. Tooth paste. 261,981; Apr. 17. Class 6.
Panama Mfg. Co., Inc., New York, N. Y. Cotton and woolen piece goods and combinations. 258,586; Apr. 17. Class 42.
Paradise & Solove, Chicago, Illinois. Overalls, coveralls, work coats for men's wear, jackets, and children's play suits. 261,074; Apr. 17. Class 39.
Parfumerie St. Denis, New York, N. Y. Astringents, bleach creams, rouges, etc. 261,281; Apr. 17. Class 6.
Patent Cereals Co., The, Geneva, N. Y. Stock feed made of hominy and molasses. 262,814; Apr. 17. Class 46.
Pedrick, Caggie, doing business as The Pedrick Laboratories, Inc., Tulsa, Okla. Specific for skin diseases of dogs. 254,008; Apr. 17. Class 6.
Penn Battery Company, Lock Haven, Pa. Storage batteries. 260,463; Apr. 17. Class 21.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Tablecloths, scarfs, pillow tubing, pillowcases, pillow covers, towels, and curtains. 261,926; Apr. 17. Class 42.
Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 255,045; Apr. 17. Class 28.
Philadelphia Commercial Museum. (See Board of Trustees of the Philadelphia Museums.)
Pilsner Brewing Co., The, Cleveland, Ohio. Malt syrup. 262,118; Apr. 17. Class 46.
Pioneer Paper Company, Los Angeles, Calif. Mulch paper. 252,167; Apr. 17. Class 37.
Porcelain Enamel and Manufacturing Company, Baltimore, Md. Monthly magazine. 262,380; Apr. 17. Class 38.
Postindex Company Inc., Jamestown, N. Y. File cabinets. 259,421; Apr. 17. Class 32.
Prager, L. W., & Son, New York, N. Y. Overcoats and topcoats. 243,888; Apr. 17. Class 39.
Pullman Car and Manufacturing Corporation, Chicago, Ill. Ferrous metal castings. 261,587; Apr. 17. Class 14.
Pure Oil Company, The, Chicago Ill. Kerosene, benzine, distillate, and lubricating oils and greases. 242,208; Apr. 17. Class 15.
Quality Jly. Co., New York, N. Y. Platinum jewelry. 261,144; Apr. 17. Class 28.
Quicksheen Polish Co., Prospect Park, N. J. Liquid polish for automobiles and furniture. 259,874; Apr. 17. Class 16.
Red Ball Company, The, Madrid, Iowa. Antiseptic and germicidal preparation. 261,767; Apr. 17. Class 6.
Regal Candy Stores Co., Inc., New York, N. Y. Sugar-toasted peanuts. 261,210; Apr. 17. Class 46.
Reiner & Berkow, Inc., New York, N. Y. Bracelets, brooches, bar pins, etc. 260,242; Apr. 17. Class 28.
Richardson Corporation, Rochester, N. Y. Nonalcoholic, maltless beverages. 259,336; Apr. 17. Class 45.
Ronch, W. R., & Co., Grand Rapids, Mich. Canned fruits, fish, and vegetables, etc. 261,685; Apr. 17. Class 46.
Rock Island Brewing Company, Rock Island, Ill. Malt syrup for food purposes. 261,282; Apr. 17. Class 46.
Rohde, Hans H., San Francisco, Calif. Medicinal salve. 262,329; Apr. 17. Class 6.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Soap. 260,962; Apr. 17. Class 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Royal Feed & Milling Co., doing business as Royal-Stafolife Mills, Memphis, Tenn., and Meridian, Miss. Laying mash and hen feed. 262,123; Apr. 17. Class 46.
Royal-Stafolife Mills. (See Royal Feed & Milling Co.)
Royster, F. S., Guano Co., Norfolk, Va. Fertilizers. 261,285; Apr. 17. Class 10.
Rubenstein, Helena, Inc., New York, N. Y. Face creams. 262,563; Apr. 17. Class 6.
St. Lawrence County Cheese Producers Co-Op. Ass'n. Inc. Gouverneur, N. Y. Cheese, butter, and milk. 222,413; Apr. 17. Class 46.
Samarotto, Louis, New York, N. Y. Olive oil. 262,124; Apr. 17. Class 46.
Sawyer, Jennie K., Dallas, Tex. Sandwiches. 261,523; Apr. 17. Class 46
Sayer, Robert W., Atlanta, Ga. Maltless beverages and extracts for making the same. 259,926; Apr. 17. Class 45.
Schneider Sisters Company, Chicago, Ill. Face cream, complexion powder, cream lotion, etc. 243,889; Apr. 17. Class 6.
Scholl Mfg. Co. Inc., Chicago, Ill. Arch supports. 260,915–17; Apr. 17. Class 44.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Liniment. 262,126; Apr. 17. Class 6.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 262,333; Apr. 17. Class 44.
Scocos, Dionisia, New York, N. Y. Medicinal preparation. 262,265; Apr. 17. Class 6.
Scudders-Gale Grocer Company, The, St. Louis, Mo. Coffee. 261,591; Apr. 17. Class 46.
Seligman, Sely S., doing business as Devil Laboratories Company, Cincinnati, Ohio. Chemical preparation. 262,183; Apr. 17. Class 6.
Sentry Safety Control Corporation, Philadelphia, Pa. Motion-picture-projecting machine. 261,214; Apr. 17. Class 26.
Servel, Inc., Evansville, Ind. Mechanical refrigerators and parts. 261,527; Apr. 17. Class 31.
Service Station Equipment Company, Bryan, Ohio. Combination automatic mechanical lift and service rack for automobiles and the like. 259,971; Apr. 17. Class 23.
Shubda, Habib, Brooklyn, N. Y. Salted pistachio nuts. 261,689; Apr. 17. Class 46.
Sidenberg, G., & Co. Inc., New York, N. Y. Cotton piece goods, silk piece goods, etc. 262,822; Apr. 17. Class 42.
Smith, Herman A., doing business as Universal Plow and Foundry Company, Florence, S. C. Plows and parts thereof. 258,509; Apr. 17. Class 23.
Smith & Nichols, Incorporated, New York, N. Y. Candles. 244,578; Apr. 17. Class 15.
Societa Anonima del Linoleum di Giubiasco (Svizzera), Giubiasco, Switzerland. Linoleum. 256,018; Apr. 17. Class 20.
Southern Manufacturing Co., The, Richmond, Va. Baking powder. 239,604; Apr. 17. Class 6.
Spalding Publications, Inc., The, Mount Morris, Ill. Monthly magazine. 261,398; Apr. 17. Class 38.
Specialty Glass Co. (See Wagenseller, Paul W.)
Spitz, Arnatein & Co. Inc., New York, N. Y. Candles. 260,146; Apr. 17. Class 46.
Spitz, Edward E., Boston, Mass. Face lotions, cold cream, massage cream, etc. 255,540; Apr. 17. Class 6.
Splitdorf Radio Corporation, Newark, N. J. Phonographs and nonelectric phonographic reproducers. 257,712; Apr. 17. Class 36.
Sprucolite Corporation, Bloomfield, N. J. Pulleys, gears, rolls, wheels, and blocks. 262,533; Apr. 17. Class 23.
Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Enameled ware and includes enameled plumbing fixtures. 253,296; Apr. 17. Class 13.
Stearnes Company, The. (See Husband, William P., jr., assignor.)
Steffens, Alfredo, Barranquilla, Columbia. Preparation for the treatment of coughs, colds, etc. 258,932; Apr. 17. Class 6.
Stoppo Products Company. (See Bellerose, Albert R.)
Stransky Products Corp., New York, N. Y. Mailing envelopes. 262,270; Apr. 17. Class 37.
Strauss & Strauss, New York, N. Y. Finger rings. 261,777; Apr. 17. Class 28.
Swift and Company, Chicago, Ill. Fore quarters and hind quarters of fresh beef. 256,551; Apr. 17. Class 46.
Syndicate Trading Co., New York, N. Y. Aluminum teakettles, preserving kettles, frying pans, etc. 256,838; Apr. 17. Class 13.
Taylor Bros. Mfg. Co., Los Angeles, Calif. Storage-battery clamps. 258,890; Apr. 17. Class 21.
Times Published Co., Detroit, Mich. Newspaper section. 262,432; Apr. 17. Class 38.
Titus, Helena J., doing business as Madam Helena Rubinstein, New York, N. Y. Rouges and lipsticks. 251,588–90; Apr. 17. Class 6.
Trinity Pharmacal Co. (See Leveen, Hilda.)
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 259,932; Apr. 17. Class 2.
Union Special Machine Company, Chicago, Ill. Sewing machines. 260,601; Apr. 17. Class 23.
United States Ozone Company, Chicago, Ill. Apparatus for ionizing air in connection with general ventilation. 260,781; Apr. 17. Class 21.
Universal Battery Company, Chicago, Ill. Socket power units. 256,754; Apr. 17. Class 21.
Universal Food Products Co., Chicago, Ill. Malt syrup for food purposes. 239,835; Apr. 17. Class 46.
Universal Motor Company, Oshkosh, Wis. Internal-combustion engines for marine or stationary use or for power purposes in any capacity. 260,300; Apr. 17. Class 23.
Universal Plow and Foundry Company. (See Smith, Herman A.)
Universe Products Co. (See Weinberg, Jesse L.)
Upjohn Company, The, Kalamazoo, Mich. Effervescent salt for the treatment of rheumatism. 246,137; Apr. 17. Class 6.
Val Blatz Brewing Co., Milwaukee, Wis. Malt syrup. 262,495; Apr. 17. Class 46.
Vassilaros, John A., New York, N. Y. Coffee. 262,044; Apr. 17. Class 46.
Vee Cheese Co., Cleveland, Ohio. Cheese. 262,830; Apr. 17. Class 48.
Villa Morét, Inc., San Francisco, Calif. Timing and cueing pads for musicians. 258,846; Apr. 17. Class 37.
Vrabek, Rudolph, New York, N. Y. Waterproof hosiery. 261,025; Apr. 17. Class 39.
Vulcan Last Company, The, doing business as Vulcan Golf Company, Portsmouth, Ohio. Golf balls. 262,838–9; Apr. 17. Class 22.
Vulcan Match Co., Inc., New York, N. Y. Matches. 262,136; Apr. 17. Class 9.
Wadsworth Watch Case Company, The, Dayton Ky. Belt buckles, strap buckles, and metal wrist-watch straps. 244,376; Apr. 17. Class 28.
Wagenseller, Paul W., doing business as Specialty Glass Co., Chicago, Ill. Glassware. 257,042; Apr. 17. Class 33.
Walker and Forbes, Inc., Mamaroneck, N. Y. Stuffing-box packing. 259,151; Apr. 17. Class 85.
Watkins, J. R., Company, The, Winona, Minn. Tablets for preventing diarrhea, roup, etc., in poultry. 262,192; Apr. 17. Class 6.
Wayagamack Pulp & Paper Company, Limited, Three Rivers, Canada. Newsprint paper. 261,541; Apr. 17. Class 37.
Weil, Gustav, doing business as Zarol Medical Research, New York, N. Y. Tonic and nerve restorative. 262,275; Apr. 17. Class 6.
Weinberg, Jesse L., doing business as Universe Products Co., New York, N. Y. Malt beverage. 257,208; Apr. 17. Class 48.
Weinman Bros. and Scher, New York, N. Y. Finger rings. 261,411; Apr. 17. Class 28.
West Coast Soap Company, Oakland, Calif. Soap. 245,124; Apr. 17. Class 4.
West Virginia Pulp and Paper Company, New York, N. Y. Fiber board for electrical insulation. 261,088; Apr. 17. Class 21.
Western Business Papers, Inc., Los Angeles, Calif. Monthly magazine. 262,638; Apr. 17. Class 38.
Western States Grocery Co., Oakland, Calif. Coffee. 262,386; Apr. 17. Class 46.
Whitlock, Magdalen S., Clarendon, Va. Hand cream. 262,139; Apr. 17. Class 6.
Wilhelm, Henry, Snyder, Tex. Store furniture. 262,541; Apr. 17. Class 32.
Willis, W. Norman, Louisville, Ky. Coal. 258,156; Apr. 17. Class 1.
Wilson & Co., Chicago, Ill. Oleomargarine. 262,843; Apr. 17. Class 46.
Wood Curtis Company, Sacramento, Calif., assignor to A. Levy & J. Zentner Co. Carrots, beets, turnips, etc. 200,795; Apr. 17. Class 46.
Wood, John T., New York, N. Y., and Springfield, Mass. Monthly magazine. 262,498; Apr. 17. Class 38.
Wuille, Dan, & Company, Incorporated, New York, N. Y. Fresh apples. 237,791; Apr. 17. Class 46.
Yeastpirin Limited, London, England. Yeast preparation. 259,432; Apr. 17. Class 6.
York, Lula R., Philadelphia, Pa. Preparation for growing hair. 261,728; Apr. 17. Class 6.
Young, Charles M., doing business as Ever-Grip Manufacturing Company, New Britain, Conn. Self-closing repair links. 261,296; Apr. 17. Class 13.
Zarol Medical Research. (See Weil, Gustav.)
Zelinski, Frank, Merrill, Wis. Salve. 260,039; Apr. 17. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Timber, logs, lumber, and lumber manufactures. Bees-Scott Company, Ltd. 70,069; renewed July 28, 1928.

CLASS 2.

Basins, oval baths, jugs, etc., Round. Gebrüder Adt Aktiengesellschaft. 241,178; Apr. 17; Serial No. 254,351; published Feb. 14, 1928.
Containers, rouge containers, etc., Empty compact. Terri, Inc. 241,190; Apr. 17; Serial No. 257,765; published Feb. 14, 1928.
Hollow ware of all kinds, Table. Brookes & Adams Limited. 241,067; Apr. 17; Serial No. 252,678; published Jan. 31, 1928.

CLASS 4.

Carpet and rug cleaner. Renu Products Corporation. 241,107; Apr. 17; Serial No. 247,211; published Dec. 6, 1927.

CLASS 6.

Antiseptic and deodorant powder. Newman Pharmacal Company. 241,087; Apr. 17; Serial No. 258,585; published Feb. 7, 1928.
Antiseptic solution. Mifflin Chemical Corporation. 241,140; Apr. 17; Serial No. 259,248; published Feb. 7, 1928.
Blue for laundry purposes. Reckitt & Sons Limited. 69,593; renewed June 23, 1928.
Chemicals. New York Quinine & Chemical Works Limited. 68,898; renewed May 5, 1928.
Cleansing substance. Chamberlain Company. 241,271; Apr. 17.
Cough mixture. Ogden and Shimer. 66,647; renewed Dec. 17, 1927.
Cream, Toilet. Ogden and Shimer. 66,522; renewed Dec. 10, 1927.
Dentifrice. H. B. Grose. 241,083; Apr. 17; Serial No. 258,227; published Feb. 7, 1928.
Disinfectant. R. C. Nichols. 241,108; Apr. 17; Serial No. 246,928; published Feb. 7, 1928.
Hair-color restorer, beauty creams, lotions, etc. E. C. Carstens. 241,073; Apr. 17; Serial No. 257,524; published Feb. 7, 1928.
Hair wash. Koko Maricopas Company Limited. 70,258; renewed Aug. 18, 1928.
Insecticides. P. O. Schoelles. 241,091; Apr. 17; Serial No. 257,852; published Jan. 31, 1928.
Iodine. Iodinol Chemical Company. 241,105; Apr. 17. Serial No. 248,498; published Feb. 7, 1928.
Lotion. Barbasol Company. 241,079; Apr. 17; Serial No. 257,852; published Jan. 31, 1928.
Medical preparation. J. Linden. 31,713; renewed June 21, 1928.
Medicine. P. Gregory. 241,081; Apr. 17; Serial No. 258,180; published Feb. 7, 1928.
Medicine. H. Planten & Son Inc. 241,072; Apr. 17; Serial No. 257,558; published Jan. 31, 1928.
Medicine, Mange. C. B. & V. K. Warner. 241,082; Apr. 17; Serial No. 258,203; published Feb. 7, 1928.
Medicines. F. A. Richter. 68,934–5; renewed May 5, 1928.
Palliative for asthma, bronchitis, etc. S. Gawronski. 241,090; Apr. 17; Serial No. 257,059; published Feb. 7, 1928.
Pastes and powders for beautifying and preserving the teeth, skin, etc., and perfumery. E. Daltroff & Cie. 241,090; Apr. 17; Serial No. 257,059; published Feb. 31, 1928.
Perfumes. Chas. A. Stevens & Bros. 241,095–8; Apr. 17; Serial Nos. 252,118–21; published Jan. 31, 1928.
Perfumes. Chas. A. Stevens & Bros. 241,153–7; Apr. 17; Serial Nos. 252,122–6; published Jan. 31, 1928.
Powder, rouge, lip stick, etc., Face. M. G. Neumann. 241,151; Apr. 17; Serial No. 252,393; published Jan. 31, 1928.
Preparation for the treatment of gallstones. J. Hagemeister. 241,152; Apr. 17; Serial No. 252,260; published Jan. 31, 1928.
Radium or a radium compound, Plac containing. Ra-Tor Mining & Manufacturing Co. 241,074; Apr. 17; Serial No. 257,440; published Feb. 7, 1928.
Rouge and powder compacts. Lionel Trading Co. Inc. 241,075; Apr. 17; Serial No. 257,106; published Feb. 7, 1928.
Salve. G. J. Brown. 241,106; Apr. 17; Serial No. 248,390; published Jan. 31, 1928.
Stomachic. H. Underberg. 241,103; Apr. 17; Serial No. 250,768; published Feb. 7, 1928.
Tonic and regulator tea, Systemic. C. Terry. 241,272; Apr. 17.
Tonic dandruff-remover and shampoo preparations, Hair. F. W. Fitch. 69,936; renewed July 21, 1928.

CLASS 9.

Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. 241,068; Apr. 17; Serial No. 252,904; published Feb. 7, 1928.

CLASS 13.

Chains and parts, Antiskid. C. D. Schmidt. 241,239; Apr. 17.
Chains, Machine drive. Diamond Chain and Manufacturing Company. 241,217; Apr. 17; Serial No. 237,314; published Feb. 14, 1928.
Metal ware, Stamped sheet-. Central Stamping Company. 69,879; renewed July 14, 1928.
Nails and horseshoe nails. O. Mustad & Søn. 241,252; Apr. 17.
Pipe, pipe fittings, bolts, etc., Metal. Mueller Brass Company. 241,170; Apr. 17; Serial No. 256,135; published Feb. 14, 1928.
Plates, Pie. Save-All Pie Plate Co. 241,231; Apr. 17; Serial No. 258,834; published Feb. 14, 1928.

CLASS 14.

Alloys of iron. Climax Molybdenum Company. 241,185; Apr. 17; Serial No. 257,918; published Feb. 7, 1928.
Iron and steel. Klosters Aktiebolag. 241,210; Apr. 17; Serial No. 246,758; published Feb. 7, 1928.
Lead and alloys. Bearium Bearings, Inc. 241,054; Apr. 17; Serial No. 242,811; published Jan. 31, 1928.
Rail anchors, reinforcement bars, tie plates, etc. Robert W. Hunt Co. 241,201; Apr. 17; Serial No. 252,710; published Feb. 7, 1928.
Solder. Graybar Electric Company. 241,203–5; Apr. 17; Serial Nos. 251,750–2; published Feb. 7, 1928.

CLASS 15.

Oil, Penetrating. Auto Vita Manufacturing Co. 241,038; Apr. 17; Serial No. 256,162; published Jan. 31, 1928.
Oils and greases, Lubricating. F. Moscow. 241,255; Apr. 17.
Oils, greases, and gasoline, Lubricating. Waverly Oil Works Company. 241,046; Apr. 17; Serial No. 257,610; published Jan. 31, 1928.
Oils, Lubricating. Vacuum Oil Company. 31,861; renewed Aug. 9, 1928.

CLASS 16.

Carbon black. Peerless Carbon Black Company. 241,183; Apr. 17; Serial No. 257,994; published Jan. 31, 1928.
Cleaning and polishing preparations. W. R. Knott. 241,175; Apr. 17; Serial No. 254,803; published Feb. 7, 1928.
Cream, Furniture. L. H. Parke Company. 241,223; Apr. 17; Serial No. 258,278; published Jan. 31, 1928.
Paint. Duro Manufacturing Company. 241,174; Apr. 17; Serial No. 254,998; published Jan. 31, 1928.
Paint. Gypsy Dyes, Inc. 241,196; Apr. 17; Serial No. 257,409; published Feb. 7, 1928.
Paint. John McQuade & Company. 241,234; Apr. 17; Serial No. 259,129; published Feb. 7, 1928.
Paint and varnish. Sherwin-Williams Company. 241,213; Apr. 17; Serial No. 242,506; published Feb. 7, 1928.
Paint remover. Philip A. Hunt Company. 241,235; Apr. 17; Serial No. 259,175; published Feb. 7, 1928.
Paints and varnishes, Mixed. Societe le Ripolin (Societe Anonyme Francaise de Peintures Laquees et d'Enduits Sous-Marins, Procedes Lafranc & Briegleb Reunis). 67,337; renewed Jan. 28, 1928.
Polish. J. N. Crawford. 241,220; Apr. 17; Serial No. 258,116; published Feb. 7, 1928.
Polish. D. L. Goble. 241,200; Apr. 17; Serial No. 253,500; published Feb. 7, 1928.
Polish and floor wax, Furniture. Fuller Brush Company. 241,222; Apr. 17; Serial No. 258,261; published Jan. 31, 1928.
Surfacing compound. Muralo Company. 241,186; Apr. 17; Serial No. 257,888; published Feb. 7, 1928.

CLASS 17.

Cigars, cigarettes, etc. De Nobili Cigar Company. 241,071; Apr. 17; Serial No. 254,388; published Feb. 7, 1928.
Tobacco. Brown & Williamson Tobacco Corporation. 241,061; Apr. 17; Serial No. 250,375; published Jan. 31, 1928.
Tobacco. Brown & Williamson Tobacco Corporation. 241,062; Apr. 17; Serial N. 250,378; published Jan. 31, 1928.

CLASS 19.

Automobiles and launches. Maybach-Motorenbau Gesellschaft mit beschränkter Haftung. 241,218; Apr. 17; Serial No. 224,824; published Feb. 14, 1928.
Bumpers, Vehicle. Stewart-Warner Speedometer Corporation. 241,172; Apr. 17; Serial No. 255,576; published Feb. 14, 1928.
Vehicles, motor chassis, etc., Motor. Leyland Motors Limited. 241,064; Apr. 17; Serial No. 251,565; published Jan. 31, 1928.

CLASS 21.

Batteries, Storage. J. E. Forsell. 241,020; Apr. 17; Serial No. 257,795; published Jan. 31, 1928.

Battery chargers, rectifiers, etc. Forest Electric Co. 241,256; Apr. 17.
Battery eliminators. Grigsby-Grunow-Hinds Co. 241,253; Apr. 17.
Booster device for bringing the aerial into resonance with the incoming frequency. C. W. Furnberg. 241,243; Apr. 17.
Bushings for electric wiring purposes, Outlet. Crouse-Hinds Company. 67,753; renewed Feb. 18, 1928.
Cables, Electrical conductors and. Standard Underground Cable Company. 69,871; renewed July 14, 1928.
Electric reproducers. Pacent Radio Corporation. 241,060; Apr. 17; Serial No. 250,260; published Jan. 24, 1928.
Electric sadirons. Robeson Rochester Corporation. 241,044; Apr. 17; Serial No. 257,382; published Jan. 31, 1928.
Lamps and timers, Electric. Belknap Hardware & Manufacturing Company. 241,057; Apr. 17; Serial No. 249,256; published Jan. 31, 1928.
Lightning arresters, glass insulators, lead-in bushings, and aerial outfits. M. M. Fleron & Son, Inc. 241,249; Apr. 17.
Radio antennæ, loud speakers, etc. J. Wolf Manufacturing Co. 241,040; Apr. 17; Serial No. 256,850; published Jan. 31, 1928.
Radio loud speakers. Aristocrat Corporation of America. 241,024; Apr. 17; Serial No. 258,206; published Jan. 31, 1928.
Starters, switches, transformers, etc. Square D Company. 241,047; Apr. 17; Serial No. 258,241; published Jan. 31, 1928.
Stoves and parts thereof, Electrical baking. F. Aeschbach S. A. 241,022; Apr. 17; Serial No. 255,215; published Jan. 31, 1928.

CLASS 22.

Athletic and sporting goods. Ken-Wel Sporting Goods Co. 241,191; Apr. 17; Serial No. 257,757; published Jan. 31, 1928.
Fishing tackle. Enterprise Manufacturing Company. 241,214; Apr. 17; Serial No. 241,700; published Feb. 7, 1928.
Games. F. Pfeiffer, sr. 241,202; Apr. 17; Serial No. 252,566; published Feb. 7, 1928.
Golf balls. Apasco Purchase and Sales Corporation. 241,197; Apr. 17; Serial No. 257,396; published Feb. 7, 1928.
Golf clubs. Vulcan Last Company. 241,225; Apr. 17; Serial No. 258,385; published Jan. 31, 1928.
Golf clubs. Wilson-Western Sporting Goods Company. 241,198; Apr. 17; Serial No. 257,395; published Feb. 7, 1928.
Golf clubs. Wilson-Western Sporting Goods Company. 241,199; Apr. 17; Serial No. 257,393; published Feb. 7, 1928.
Kaleidoscopes for amusement purposes. Artop Specialties. 241,182; Apr. 17; Serial No. 258,014; published Feb. 7, 1928.
Skates, Ice. Norvell-Shapleigh Hardware Company. 68,052; renewed Mar. 3, 1928.
Sporting goods, Juvenile. Big Store Co. 241,208; Apr. 17; Serial No. 249,567; published Jan. 31, 1928.
Toy dolls and figures. Twinzy Toy Company. 241,233; Apr. 17; Serial No. 259,086; published Feb. 7, 1928.
Toy ferris wheel. F. Labin. 241,211; Apr. 17; Serial No. 245,351; published Jan. 31, 1928.
Toy marbles. Geo. Borgfeldt & Co. 241,230; Apr. 17; Serial No. 258,793; published Jan. 31, 1928.

CLASS 23.

Axes, hatchets, chisels, etc. C. Schlieper. 241,066; Apr. 17; Serial No. 251,931; published Feb. 7, 1928.
Cash carriers and package carriers. Air Line Carrier Co. 69,836; renewed June 9, 1928.
Cutlery. Eskilstuna, Jernmanufaktur Aktiebolag. 241,053; Apr. 17; Serial No. 242,419; published Jan. 31, 1928.
Engines, Stationary, marine, and internal-combustion. "New Way" Motor Company. 68,206; renewed Mar. 17, 1928.
Grinding cylinders manually or by power, Devices for. Hutto Engineering Company. 241,260–1; Apr. 17.
Hammers. Norvell-Shapleigh Hardware Company. 68,011; renewed Mar. 3, 1928.
Mowers, Lawn. Norvell-Shapleigh Hardware Company. 68,001; renewed Mar. 3, 1928.
Picks, grub hoes, trowels, shovels, and spades. Norvell-Shapleigh Hardware Company. 68,013; renewed Mar. 3, 1928.
Pliers, pincers, wrenches, and putty knives, Noncutting. Norvell-Shapleigh Hardware Company. 68,012; renewed Mar. 3, 1928.
Separators, Cream. Albaugh Bros. Dover & Co. 68,113; renewed June 4, 1927.

CLASS 24.

Ironing boards. R. R. Street & Co. 241,237; Apr. 17; Serial No. 259,510; published Feb. 14, 1928.
Laundry checking and identifying appliances, etc. Key-Tag Checking System Company. 241,254; Apr. 17.

CLASS 27.

Watches and clocks. Western Clock Mfg. Co. 69,766; renewed July 7, 1928.

CLASS 28.

Buttons, and parts thereof, Cuff. Century Specialty Co. 241,099; Apr. 17; Serial No. 258,112; published Jan. 31, 1928.
Jewelry. Kohn & Company. 241,041–2; Apr. 17; Serial No. 257,102–3; published Jan. 31, 1928.
Jewelry. R & H Platinum Works, Inc. 241,039; Apr. 17; Serial No. 256,685; published Jan. 31, 1928.
Silver-plated flatware, hollow ware, and tableware. Wm. A. Rogers, Limited. 68,369; renewed Mar. 31, 1928.

CLASS 31.

Ice boxes, ice machines, etc. Kodowa Refrigerator Co. 241,167; Apr. 17; Serial No. 250,526; published Feb. 14, 1928.
Refrigerating apparatus and parts thereof, Electric. Siemens-Schuckertwerke Aktiengesellschaft. 241,086; Apr. 17; Serial No. 258,557; published Feb. 7, 1928.
Refrigerating machines, Domestic. Williams Oil-O-Matic Heating Corporation. 241,227; Apr. 17; Serial No. 258,443; published Feb. 14, 1928.
Refrigerators, refrigerator doors, etc., Shoe-case. Dealer's Refrigerator Company. 241,094; Apr. 17; Serial No. 251,655; published Feb. 7, 1928.

CLASS 32.

Display racks or fixtures for displaying neckties. Lack Manufacturing Company. 241,270; Apr. 17.

CLASS 34.

Boilers, Steam heating. Wholey Boiler Works, Incorporated. 241,195; Apr. 17; Serial No. 257,460; published Feb. 14, 1928.
Lamp shades. K-B-F Corporation. 241,168; Apr. 17; Serial No. 256,409; published Feb. 14, 1928.
Lanterns. Simmons Hardware Company. 70,440; renewed Sept. 1, 1928.

CLASS 35.

Piston rings. Randall Graphite Products Corporation. 241,018; Apr. 17; Serial No. 258,040; published Feb. 7, 1928.
Tire casings. Dickinson Cord Tire Corporation. 241,052; Apr. 17; Serial No. 222,500; published Jan. 31, 1928.
Tires and inner tubes. Firestone Tire and Rubber Company. 241,051; Apr. 17; Serial No. 258,941; published Feb. 7, 1928.

CLASS 36.

Band and orchestra instruments. Buescher Band Instrument Co. 241,033; Apr. 17; Serial No. 255,293; published Dec. 20, 1927.

CLASS 37.

Card indexes, guide cards, etc. Duradex Company. 241,209; Apr. 17; Serial No. 247,363; published July 5, 1927.
Cards, Meter-record. G. T. Malan. 241,257; Apr. 17.
Paper, tablets and pads, and envelops, Writing. American News Company. 68,717; renewed Apr. 28, 1928.
Pencils. Bleistift-Fabrik vorm. Johann Faber A.-G. 67,090; renewed Jan. 14, 1928.
Pencils and erasing rubber. Bleistift-Fabrik vorm. Johann Faber A.-G. 67,089; renewed Jan. 14, 1928.
Pencils, erasing rubber, and penholders. Bleistift-Fabrik vorm. Johann Faber A.-G. 67,088; renewed Jan. 14, 1928.
Pens and pencils, Fountain. Morrison Fountain Pen Co. 241,268; Apr. 17.
Pens, Steel. C. Brandauer & Co. 31,433; renewed Mar. 22, 1928.

CLASS 38.

Books, pamphlets, and magazines. G. A. Bernard. 67,098; renewed Jan. 14, 1928.

CLASS 39.

Aprons and uniforms. M. J. Casey. 241,207; Apr. 17; Serial No. 250,834; published Feb. 7, 1928.
Bath robes. New Process Company. 241,163; Apr. 17; Serial No. 257,114; published Feb. 7, 1928.
Boots and shoes and soles, Rubber. National India Rubber Company. 68,955; renewed May 12, 1928.
Boots and shoes, etc., Rubber. Hood Rubber Company. 241,030; Apr. 17; Serial No. 257,926; published Jan. 31, 1928.
Boots and shoes, rubber overshoes, and rubber-soled canvas shoes, Rubber. Hood Rubber Company. 241,122; Apr. 17; Serial No. 250,123; published Jan. 31, 1928.
Boots, shoes, and hosiery. W. B. Huette Shoe Company. 241,238; Apr. 17.
Boots, shoes, and slippers. Munroe Shoe Company. 241,177; Apr. 17; Serial No. 254,357; published Feb. 7, 1928.
Brassières, corsets, camisoles, etc. R. L. Kennedy. 241,131; Apr. 17; Serial No. 251,620; published Feb. 7, 1928.
Caps, Men's and boys' golf. Hirschberg & Company. 241,123; Apr. 17; Serial No. 255,808; published Jan. 31, 1928.
Clothing. Herman Brothers Company. 68,255; renewed Mar. 17, 1928.
Clothing. M. Hirshfield. 241,179; Apr. 17; Serial No. 254,280; published Feb. 7, 1928.

Clothing. Jerrold Co. 241,126; Apr. 17; Serial No. 254,290; published Jan. 31, 1928.
Clothing. Larned, Carter & Company. 241,216; Apr. 17; Serial No. 240,082; published Feb. 7, 1928.
Clothing, Men's and boys'. Sagner & Silber. 241,269; Apr. 17.
Clothing, Rubber and oilskin articles of. Excello Rubber Company. 241,267; Apr. 17.
Clothing, waterproof clothing, etc., Rubber. Excello Rubber Company Inc. 241,169; Apr. 17; Serial No. 256,403; published Feb. 7, 1928.
Coats, pants, vests, and overcoats. H. M. Lindenthal and Sons. 68,051; renewed Mar. 8, 1928.
Coats, pants, vests, and overcoats. Rosenberg Brothers & Co. 241,219; Apr. 17; Serial No. 223,606; published Feb. 7, 1928.
Coats, Shooting. Sportcraft Knitting & Mfg. Co. 241,164; Apr. 17; Serial No. 257,039; published Feb. 7, 1928.
Corset and brassière, Combination. Franco Corset Company. 241,125; Apr. 17; Serial No. 254,964; published Feb. 7, 1928.
Dresses. Ebon Dress Company. 241,058; Apr. 17; Serial No. 249,268; published July 26, 1927.
Dresses. H. Frank. 241,034; Apr. 17; Serial No. 255,596; published Jan. 10, 1928.
Dresses. Hermann & Kuhn Mfg. Company. 241,194; Apr. 17; Serial No. 257,580; published Feb. 7, 1928.
Dresses. J. Holtzman. 241,165; Apr. 17; Serial No. 256,778; published Feb. 7, 1928.
Dresses. Rice-Stix Dry Goods Company. 241,228–9; Apr. 17; Serial No. 258,496–7; published Feb. 7, 1928.
Dresses. Syndicate Trading Company. 241,166; Apr. 17; Serial No. 256,751; published Feb. 7, 1928.
Dresses. C. Zwirn. 241,187; Apr. 17; Serial No. 257,837; published Feb. 7, 1928.
Dresses, coats, and suits. Morris W. Haft & Bros. Inc. 241,180; Apr. 17; Serial No. 258,080; published Feb. 7, 1928.
Frocks, dresses, and aprons. Nickols Manufacturing Company. 241,240; Apr. 17.
Garments, Worsted cloth. Alberta Mills, Inc. 241,189; Apr. 17; Serial No. 257,772; published Feb. 7, 1928.
Gloves. David & Blum, Inc. 241,176; Apr. 17; Serial No. 254,576; published Feb. 7, 1928.
Gloves. Kurzman, Inc. 241,029; Apr. 17; Serial No. 257,930; published Jan. 31, 1928.
Gloves and mittens. Boss Manufacturing Company. 241,028; Apr. 17; Serial No. 257,962; published Feb. 7, 1928.
Gloves, stockings, sweaters, etc. Thermo Mills, Inc. 241,206; Apr. 17; Serial No. 251,586; published Feb. 7, 1928.
Gowns, bath robes, and beach capes, Lounging. Fischer-Jelenko Inc. 241,224; Apr. 17; Serial No. 258,320; published Feb. 7, 1928.
Gowns, princess slips, chemise, etc. Chesnin, Leis & Co. 241,160; Apr. 17; Serial No. 257,345; published Feb. 7, 1928.
Hats. Mancell Wilson Company. 241,121; Apr. 17; Serial No. 257,107; published Jan. 31, 1928.
Hats and caps. Byron Greenough & Company. 241,245; Apr. 17.
Hats and caps. Rodes-Rapier Co. Inc. 241,025; Apr. 17; Serial No. 258,193; published Jan. 31, 1928.
Hats, Felt. Crofut & Knapp Co. 241,251; Apr. 17.
Hats, Ladies'. Lazarus-Meyer Co. 241,262; Apr. 17.
Hats, Men's. Bates Thompson, Incorporated. 241,127; Apr. 17; Serial No. 254,164; published Jan. 31, 1928.
Hose protector. L. Lyons. 241,266; Apr. 17.
Hosiery. Diel-Grund Company. 241,118; Apr. 17; Serial No. 236,306; published Dec. 27, 1927.
Hosiery. S. S. Glickman. 241,212; Apr. 17; Serial No. 243,087; published Feb. 7, 1928.
Hosiery. Highland Mills, Inc. 241,248; Apr. 17.
Hosiery. Paramount Knitting Company. 69,087; renewed May 10, 1928.
Hosiery. Vertex Hosiery Mills, Inc. 241,246; Apr. 17.
Hosiery, gloves, and underwear. Ely & Walker Dry Goods Company. 241,129; Apr. 17; Serial No. 252,420; published Feb. 7, 1928.
Hosiery, Silk. Propper Silk Hosiery Mills, Inc. 241,242; Apr. 17.
Mufflers, Gentlemen's. Cisco, Inc. 241,226; Apr. 17; Serial No. 258,399; published Feb. 7, 1928.
Neckties. H. C. Cohn and Company. 68,186; renewed Mar. 10, 1928.
Overalls and work pants, etc. Perkins Dry Goods Company. 241,264; Apr. 17.
Overalls, dress and work shirts, etc. Friedlander Bros. 241,263; Apr. 17.
Overcoats, topcoats, and suits. Vic & Herman Inc. 241,221; Apr. 17; Serial No. 258,201; published Feb. 7, 1928.
Overshoes, Rubber. Cambridge Rubber Company. 241,031; Apr. 17; Serial No. 257,274; published Jan. 31, 1928.
Shoes. Ansonia Bootery, Inc. 241,128; Apr. 17; Serial No. 254,026; published Jan. 31, 1928.
Shoes. Glaser Shoe Company. 241,250; Apr. 17.
Shoes. H. C. Godman Company. 241,181; Apr. 17; Serial No. 258,025; published Feb. 7, 1928.
Shoes. Haines Shoe Company. 241,115; Apr. 17; Serial No. 254,968; published Dec. 20, 1927.
Shoes. M. N. Haines. 241,124; Apr. 17; Serial No. 254,967; published Dec 20, 1927.
Shoes. Joseph M. Herman Shoe Co. 241,184; Apr. 17; Serial No. 257,982; published Feb. 7, 1928.
Shoes. A. M. Legg Shoe Company. 241,258; Apr. 17.
Shoes. Maurice L. Rothschild, Incorporated. 241,023; Apr. 17; Serial No. 582,236 published Feb. 7, 1928.
Shoes, slippers, gloves, etc. A. I. Namm & Son. 241,134; Apr. 17; Serial No. 248,011; published Aug. 30, 1927.
Soles for boots and shoes, Leather. Graton & Knight Company. 241,171; Apr. 17; Serial No. 255,913; published Feb. 7, 1928.
Suits, coats, and overcoats. Wiener Brothers and Sporkin. 241,119; Apr. 17; Serial No. 236,298; published Dec. 13, 1927.
Suits, overcoats, and topcoats, Boy's. L. Glaser. 241,244; Apr. 17.
Suits, overcoats, and trousers, and knickers, Men's. Shapiro Kenney, Inc. 241,101; Apr. 17; Serial No. 258,140; published Feb. 7, 1928.
Supporters, Hose. Warner Brothers Company. 68,840; renewed Apr. 28, 1928.
Sweaters, pants, caps, etc., Children's knitted. R. G. S. Novelty Co. Inc. 241,192; Apr. 17; Serial No. 257,599; published Feb. 7, 1928.
Topcoats, overcoats, coats, etc. L. Greif & Bro. Incorporated. 241,259; Apr. 17.
Underwear, Textile-Fabric. McLoughlin Manufacturing Company. 241,265; Apr. 17.
Waists, Knitted. J. F. Quinn. 68,317; renewed Mar. 24, 1928.

CLASS 40.

Fasteners for overshoes. F. G. Miller. 241,109; Apr. 17; Serial No. 246,492; published Jan. 31, 1928.
Hair pieces. Yvette Co. 241,032; Apr. 17; Serial No. 257,262; published Jan. 17, 1928.
Laces, Leather shoe. California Tanning Company. 241,130; Apr. 17; Serial No. 251,714; published Feb. 7, 1928.
Ornaments for the hair, All kinds of. Balloid Basler Celluloidwarenfabrik A.-G. Therwil (Balloid Fabrique Bâloise d'Articles en Celluloid S. A. Therwil) (Balloid Basle Celluloid Manufactures Ltd. Therwil). 241,132; Apr. 17; Serial No. 251,379; published Jan. 17, 1928.
Stamped goods. G. Lachman Co. 241,139; Apr. 17; Serial No. 241,166; published Feb. 7, 1928.
Toilet sets. A. Cohen & Sons Corp. 241,241; Apr. 17.

CLASS 42.

Cotton duck. John Boyle & Co., Inc. 70,412; renewed Aug. 25, 1928.
Fabrics, Cotton and rayon. Galey & Lord, Inc. 241,065; Apr. 17; Serial No. 251,664; published Feb. 7, 1928.
Knitted and textile fabrics of wool. Pioneer Pacific Worsted Co. 241,050; Apr. 17; Serial No. 254,473; published Jan. 31, 1928.
Piece goods. Haas Brothers Fabrics Corporation. 241,070; Apr. 17; Serial No. 253,886; published Jan. 31, 1928.
Woolen goods, Manufactured. Western Woolen Mills. 241,045; Apr. 17; Serial No. 257,391; published Jan. 17, 1928.

CLASS 44.

Arch supports for shoes. C. L. Smith. 241,236; Apr. 17; Serial No. 259,428; published Feb. 14, 1928.
Belts, Abdominal or stomach. J. Caliendo. 241,043; Apr. 17; Serial No. 257,343; published Jan. 24, 1928.
Chirurgical instruments. J. Eynard & Cie. 241,215; Apr. 17; Serial No. 241,333; published Feb. 14, 1928.
Dental moulding and orthopedic plasters. Campbell Coal Company. 241,021; Apr. 17; Serial No. 257,783; published Jan. 31, 1928.
Massage machines. Blud-Rub Manufacturing Company. 241,100; Apr. 17; Serial No. 259,275; published Feb. 14, 1928.
Pads for use in the permanent waving of hair. Townsend Manufacturing Company. 241,019; Apr. 17; Serial No. 257,907; published Jan. 31, 1928.
Sanitary pads. Hugh A. Marti Company. 241,173; Apr. 17; Serial No. 255,186; published Feb. 7, 1928.
Teeth and sets of teeth, Artificial. Zahnfabrik Wienand Söhne & Co. Gesellschaft mit beschr. Haftung. 241,161–2; Apr. 17; Serial Nos. 257,212–3; published Feb. 14, 1928.
Tooth crowns, Cast. Schwartz Brothers Dental Laboratory Co. 241,232; Apr. 17; Serial No. 258,836; published Feb. 14, 1928.
Water bottles and syringe bags, Rubber. National India Rubber Company. 69,524; renewed June 16, 1928.

CLASS 45.

Beverages. Apollinaris Company. 241,035; Apr. 17; Serial No. 255,950; published Feb. 7, 1928.
Beverages. Apollinaris Company. 241,037; Apr. 17; Serial No. 255,951; published Feb. 7, 1928.
Waters and aerated table waters, Mineral. Compagnie de la Source Perrier. 241,063; Apr. 17; Serial No. 250,677; published Jan. 31, 1928.

CLASS 46.

Bouillon cubes. Maggi Co. 241,135; Apr. 17; Serial No. 244,170; published Feb. 7, 1928.

Bouillon cubes. Maggi Co. 241,136–7; Apr. 17; Serial Nos. 244,168–9; published Jan. 31, 1928.
Butter. S. Horton. 241,116; Apr. 17; Serial No. 239,709; published Feb. 7, 1928.
Cake mixes. Ad. Seidel & Sons. 241,145; Apr. 17; Serial No. 256,747; published Feb. 7, 1928.
Canned soups. Maggi Co. 241,138; Apr. 17; Serial No. 244,167; published Feb. 7, 1928.
Canned tomato salad. A. S. Bendzsa. 241,080; Apr. 17; Serial No. 257,854; published Feb. 7, 1928.
Cereal, Breakfast. Carque Pure Food Co. Inc. 241,141; Apr. 17; Serial No. 259,197; published Feb. 7, 1928.
Cheese. P. Burki. 241,069; Apr. 17; Serial No. 253,490; published Jan. 31, 1928.
Cheese. Emmental Cheese Corporation. 241,142; Apr. 17; Serial No. 258,939; published Feb. 7, 1928.
Cheese. Kraft Cheese Company. 241,112; Apr. 17; Serial No. 243,708; published Apr. 5, 1927.
Cheeses. Société des Etablissements Louis Rigal. 241,148–9; Apr. 17; Serial No. 256,267–8; published Feb. 7, 1928.
Chocolate, fancy articles made of chocolate, etc. Hilliebrand Chocolate Company. 241,133; Apr. 17; Serial No. 249,275; published Feb. 7, 1928.
Coffee, coffee substitute, tea, etc. Volpe Brothers. 241,102; Apr. 17; Serial No. 250,878; published Feb. 7, 1928.
Essence or juice prepared from tomatoes. Tomato Products Company. 241,085; Apr. 17; Serial No. 258,302; published Feb. 7, 1928.
Feed, Concentrated substitute for green. H. C. Kiesel. 241,113; Apr. 17; Serial No. 241,576; published Feb. 7, 1928.
Feed, Stock. Purity Oats Company. 241,076–7; Apr. 17; Serial No. 257,597–8; published Feb. 7, 1928.
Flavoring for food purposes, Vanilla. F. F. Horst. 241,144; Apr. 17; Serial No. 258,746; published Feb. 7, 1928.
Flour, Self-rising wheat. Blish Milling Company. 241,092; Apr. 17; Serial No. 250,965; published Feb. 7, 1928.
Flour, Self-rising wheat. Blish Milling Company. 241,093; Apr. 17; Serial No. 250,968; published Feb. 7, 1928.
Flour, Self-rising wheat. Blish Milling Company. 241,158; Apr. 17; Serial No. 250,964; published Feb. 7, 1928.
Flour, Wheat. Bay City Milling Co. 241,150; Apr. 17; Serial No. 256,041; published Feb. 7, 1928.
Flour, Wheat. L. Blaustein. 241,089; Apr. 17; Serial No. 258,715; published Feb. 7, 1928.
Flour, Wheat. Blish Milling Company. 241,159; Apr. 17; Serial No. 250,963; published Feb. 7, 1928.
Flour, Wheat. Durst Milling Company. 70,342; renewed Aug. 25, 1928.
Flour, Wheat. Meyerson Brothers. 241,147; Apr. 17; Serial No. 256,531; published Feb. 7, 1928.
Flour, Wheat. Moore-Lowry Flour Mills Company. 241,120; Apr. 17; Serial No. 232,094; published Nov. 9, 1926.
Flour, Wheat. J. O. Norris. 68,917; renewed May 5, 1928.
Flours made from wheat. Western Flour Mill Company. 69,474; renewed June 16, 1928.
Food, Prepared dietary. Livermeal Corporation. 241,078; Apr. 17; Serial No. 257,737; published Feb. 7, 1928.
Food product. Trahanas Co. 241,114; Apr. 17; Serial No. 240,575; published Feb. 7, 1928.
Food product in powdered form, Vegetable. J. J. Dunn. 241,188; Apr. 17; Serial No. 257,791; published Feb. 7, 1928.
Foods, Ultra-violet-ray-processed. V. Steves. 241,146; Apr. 17; Serial No. 256,549; published Feb. 7, 1928.
Fruits and vegetables, tapioca, cornstarch, extract of vanilla, Canned. H. Kussy. 70,415; renewed Aug. 25, 1928.
Hams, shoulders, boneless butts, etc. John Morrell & Co. 241,193; Apr. 17; Serial No. 257,584; published Feb. 7, 1928.
Meats and compounds. Swift and Company. 31,578; renewed May 24, 1928.
Mincemeat. Whipple Co-Operative Company. 57,618; renewed Nov. 13, 1926.
Mushrooms, mushroom spawn, and preserved mushrooms, Fresh. L. F. Lambert. 241,247; Apr. 17.
Mustard. Stickney & Poor Spice Co. 241,117; Apr. 17; Serial No. 238,817; published Feb. 7, 1928.
Olives, salad dressing, rice, macaroni, etc. Scoville, Brown & Company. 241,059; Apr. 17; Serial No. 249,931; published Jan. 24, 1928.
Pears, Fresh. G. C. Payne. 241,049; Apr. 17; Serial No. 258,589; published Jan. 31, 1928.
Pies. M. D. Turner. 241,084; Apr. 17; Serial No. 258,243; published Feb. 7, 1928.
Pickles. Maconochie Bros. Ltd. 69,026; renewed May 12, 1928.
Pickles, noodles, fruit preserves, cake, and pastries. Regnatz Inc. 241,104; Apr. 17; Serial No. 250,712; published Feb. 7, 1928.
Raisins and dried fruit. W. Pike. 68,785; renewed Apr. 28, 1928.
Syrup and extract, Malt. S. B. Perloff. 241,111; Apr. 17; Serial No. 245,579; published Jan. 31, 1928.
Syrup for food purposes, Malt. Fidelity Hop & Malt Corporation. 241,143; Apr. 17; Serial No. 258,808; published Feb. 7, 1928.
Syrup, Malt. American Malt Company. 241,088; Apr. 17; Serial No. 258,712; published Feb. 7, 1928.
Syrup, Malt and hop. Frank C. Weber & Company. 241,036; Apr. 17; Serial No. 256,025; published Jan. 31, 1928.
Vegetables, Compounds for use in pickling. H. D. Kuhn. 241,110; Apr. 17; Serial No. 245,846; published Feb. 7, 1928.

CLASS 47.

Wine, Port. J. R. Parkington & Co. 241,056; Apr. 17; Serial No. 247,387; published Feb. 7, 1928.
Wines, Claret, Burgundy, and sauterne. J. Calvet & Cie. S. A. R. L. 241,027; Apr. 17; Serial No. 258,064; published Feb. 7, 1928.
Wines, Port and cherry. J. R. Parkington & Co. 241,055; Apr. 17; Serial No. 247,386; published Feb 7, 1928.

CLASS 48.

Beer, Lager. Aktienbrauerei zum Löwenbräu in München. 30,527; renewed Aug. 31, 1927.

CLASS 49.

Vermuth. Noilly Prat & Cie. 241,048; Apr. 17; Serial No. 258,535; published Jan 31, 1928.
Whisky. Bernard & Co. 31,559; renewed May 17, 1928.

CLASS 50.

Textile material with flexible waterproof coating. Keratol Company. 31,907; renewed Aug. 30, 1928.

ALPHABETICAL LIST OF LABELS.

All O. K. For Vegetables. A. O. Kolberg. 33,847; Apr. 17.
Aunt Edna's Chateau Chocolates. For Candy. Milwaukee Paper Box Co. 33,854; Apr. 17.
Aunt Edna's Gay Paree Chocolates. For Candy. Milwaukee Paper Box Co. 33,855; Apr. 17.
Aunt Edna's Seaside Chocolates. For Candy. Milwaukee Paper Box Co. 33,856; Apr. 17.
Carnation 'From Contented Cows.' For Evaporated Milk. Carnation Milk Products Co. 33,840; Apr. 17.
Cough-Nix. For Cough Medicine. M. Reisner. 33,863; Apr. 17.
Heide's Candies of Quality 10-G-3. For Candy. Henry Heide, Inc. 33,845; Apr. 17.
Hind's Royal. For Canned Figs. Land Owners Packing Co. 33,848; Apr. 17.
Jacobs Remedy. For Remedy for Coughs and Colds. W. W. Jacobs. 33,846; Apr. 17.
Junoy, Fragrant Depilatory. For Depilatory. H. M. Noyes. 33,858; Apr. 17.
Korn Kure. For Compounds for Treating Corns. Stevens-Wiley Mfg., Co. 33,866; Apr. 17.
Lax-Kaps. For Laxative Capsules. D. B. Long. 33,852; Apr. 17.
Lewis' Single Binder, Straight 5¢ Cigar. For Cigars. Frank P. Lewis Cigar Co. 33,849; Apr. 17.
Mi-Own. For Coffee. S. L. Pfefferkorn. 33,859; Apr. 17.
Miss America Human Hair Net. For Hair Nets. H. A. Loeb & Co. 33,850; Apr. 17.
Mur-Cop. For Paint. Westcott, Slade & Balcom Company. 33,872; Apr. 17.
Orientals. For Candy. Beckett Candy Co. 33,839; Apr. 17.
Radio Questionaire. For an Educational and Amusement Device. Radio Questionaire Corp. 33,860; Apr. 17.
Rath's Black Hawk Pork Dainties. For Smoked Butts. Rath Packing Company. 33,861; Apr. 17.
Red Bird. For Chili con Carne. Red Bird Chilli Company. 33,862; Apr. 17.
Romance. For Cigarettes. Delux Tobacco Company. 33,841; Apr. 17.
Sackett Smoking Tobacco De-Nicotined. For Tobacco Products for Smoking. H. Sackett. 33,864; Apr. 17.
Shultz Animal Compound. For Lure for Foxes, Wolves, and Coyotes. National Fox & Wolf Scent Supply Co. 33,857; Apr. 17.
Silva-Bros. For Grape Syrup. Silva Bros. 33,865; Apr. 17.
Super Service. For Powdered Graphite. Super Service Corporation. 33,867; Apr. 17.
Super Service. For Tire Talc. Super Service Corporation. 33,868; Apr. 17.
Super Service. For Flake Graphite. Super Service Corporation. 33,869; Apr. 17.

Super Service. For Touch-Up Enamel. Super Service Corporation. 33,870; Apr. 17.
Super Service. For Tire Plaster Patches. Super Service Corporation. 33,871; Apr. 17.
Thunderbolt. For Tire Patches. F. J. Hagerling. 33,842–4; Apr. 17.
Toni-Kaps. For Tonic Capsules. D. B. Long. 33,851; Apr. 17.
White Cap Marshmallows. For Candy. Alberta Candy Company. 33,838; Apr. 17.
Zion Ocean-Flyer Pops. For Candy. Milwaukee Paper Box Co. 33,853; Apr. 17.

ALPHABETICAL LIST OF PRINTS.

Dixie King. For Mattresses. Cotton Belt Manufacturing Company. 10,779; Apr. 17.
First Pictures of the New Ford Car. For Automobiles. Ford Motor Company. 10,785; Apr. 17.
Greater Even Than Its Beauty is the Performance of the New Ford Car. For Automobiles. Ford Motor Company. 10,780; Apr. 17.
Important Facts About the New Ford Car. For Automobiles. Ford Motor Company. 10,782; Apr. 17.
In All History Never Before Such Good Bread. For Bread. R. L. Whipple. 10,787; Apr. 17.
More Than a New Automobile More Than a New Model. For Automobiles. Ford Motor Company. 10,784; Apr. 17.
New Ford Car Exceeds All Expectations. For Automobiles. Ford Motor Company. 10,783; Apr. 17.
Strength. For Vehicle Bumpers. C. G. Spring & Bumper Company. 10,777; Apr. 17.
Suggestions. For Soda-Fountain Supplies. J. Hungerford Smith Co. 10,786; Apr. 17.
The Day You Discover You Have A Square Face. For Venetian Toilet Preparations. Arden Chemical Co. 10,776; Apr. 17.
The New Ford Car—An Announcement of Unusual Importance to Every Automobile Owner. For Automobiles. Ford Motor Company. 10,781; Apr. 17.
They Always Hold. For Clamp Nails. Clamp Nail Company. 10,778; Apr. 17.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Adam, Matthew A. (See Baillie, R., and Adam.)
Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. System for binaural transmission of signals. 1,666,158; Apr. 17.
Airship Guarantee Company, Limited. (See Wallis, Barnes N., assignor.)
Aldrich, Alonzo, and E. E. Berry, assignors to Beloit Iron Works, Beloit, Wis. Steam fitting. 1,666,637; Apr. 17.
Alexander, Earl C., assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing. 1,666,250; Apr. 17.
Alexander, Harry, Allentown, Pa. Cigarette. 1,666,062; Apr. 17.
Alexanian, Mihran H., Coytesville, N. J. Platen roller for typewriters. 1,666,403; Apr. 17.
Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thrust bearing. 1,666,521; Apr. 17.
Allison, Murrell G. (See Roos, C. K., and Allison.)
Alspaugh, James S., Columbus, Ohio. Speed-equalizing means for motor-vehicle transmission shafts. 1,666,766; Apr. 17.
Ament, Lucy C., New York, N. Y. Liquid-dispensing pump. 1,666,064; Apr. 17.
American Aluminum Ware Company. (See Brucker, Henry, assignor.)
American Cyanamid Company. (See Buchanan, G. H., and Osborne, assignors.)
American Meter Company. (See Stockton, Wholston V., jr., assignor.)
American Mine Door Co., The. (See Gurney, Albert J., assignor.)
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Maynard, Albert E., assignor.)
American Pulverizer Company. (See Elzemeyer, Ernst H., assignor.)
American Sales Book Company. (See Phillips, Arthur H., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
Anderson, Adolph B. (See Gallet, M., and Anderson.)
Anderson, Arthur N. (See Anderson, Edward P. and A. N.)
Anderson, Edward P. and A. N., Tumwater, Wash. Combined ironing board and table. 1,666,548; Apr. 17.
Anderson, James, Elizabeth, N. J. Clamp. 1,666,079; Apr. 17.
Anderson, Olaf R., Pasadena, Calif. Magnetic motor. 1,666,065; Apr. 17.
Andis, Mathew, Racine, Wis. Electric motor. 1,666,588; Apr. 17.
Andrews, Chester E., Carnegie, assignor to The Selden Company, Pittsburgh, Pa. Temperature-regulating system. 1,666,251; Apr. 17.
Andrews, Edward F., Chicago, Ill. Volume-control system for radioreceivers. 1,666,522; Apr. 17.
Andrews, George M., 2d. (See Peirce, J. R., 3d, and Andrews.)
Annen, James E., assignor to The National Paper Can Company, Milwaukee, Wis. Method and apparatus for making fibrous containers. 1,666,767; Apr. 17.
Appel, Venie W. (See Wood, Alexander P., assignor.)
Arca Regulators, Incorporated. (See Carlstedt, Ragnar, assignor.)
Arca Regulators, Inc. (See Söderberg, Sten E. B., assignor.)
Arlington Mills. (See Harding, Frank E., assignor.)
Armstrong, Ulysses S., New Kensington, assignor to Armstrong & White, Pittsburgh, Pa. Filing device. 1,666,229; Apr. 17.
Armstrong & White. (See Armstrong, Ulysses S., assignor.)
Arnt, Herald P., Lakewood, assignor of one-fourth to C. B. Muller, Cleveland, Ohio. Hollow-spoke end connection. 1,666,615; Apr. 17.
Ashbridge, Noel, Wanstead, England, assignor to Radio Corporation of America. Resistance coil. 1,666,066; Apr. 17.
Atlas Manufacturing Corporation. (See Witt, Murray, assignor.)
Aubrey, Andrew W., Los Angeles, Calif. Towel rack. 1,666,063; Apr. 17.
Auspitzer, Alfred J., Hamburg, Germany, assignor to Research Corporation, New York, N. Y. Agricultural implement. 1,666,841; Apr. 17.
Auto Pneumatic Action Company. (See La Joie, H. J., Urquhart, and Pokorny, assignors.)
Babbitt, Edwin V., Fairhaven, Mass. Doll. Des. 74,911; Apr. 17.
Bacon, Raymond F., et al. (See Frieden, Alexander, assignor.)
Bacso, Peter, Astoria, N. Y. Window regulator for vehicles. 1,666,481; Apr. 17.
Bailey, Richard W., Altrincham, England, assignor to Westinghouse Electric & Manufacturing Company. Treatment of steam to reduce or prevent corrosion. 1,666,523; Apr. 17.
Baillie, Robert, and M. A. Adam, London, England, said Baillie assignor to said Adam. Machine for making dry-cell elements. 1,666,067; Apr. 17.
Baker, Joseph, Sons & Perkins Company. (See Harber, Laurence S., assignor.)
Baker, Phillip, Mattapan, Mass., assignor to Paramount Bedding Machine Co., of Boston. Mattress-filling machine. 1,666,549; Apr. 17.
Baldwin, Clarence D., Bellingham, Wash. Embroidery-hoop holder. 1,666,323; Apr. 17.
Bandur, Adolph F., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Treating magnetizable materials. 1,666,191; Apr. 17.
Bankers Savings & Credit System Company, The. (See Baughman, O. F., and Habart, assignors.)
Bankoff, Abraham. (See Rhodes, W. A., and Bankoff.)
Bany, Herman, Scotia, N. Y., assignor to General Electric Company. System of electric distribution. 1,666,435; Apr. 17.
Barber-Colman Company. (See Colman, Howard D., assignor.)
Baril, Joseph R. (See Bohnhardt, Charles F. H., assignor.)
Barkelj, Jean A. H., Los Angeles, Calif. Internal-combustion engine. 1,666,159; Apr. 17.
Barkelj, Jean A. H., Los Angeles, Calif. Sleeve-valve internal-combustion engine. 1,666,160; Apr. 17.
Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,666,230; Apr. 17.
Barron, Bernard M. (See Clement, H., and Barron.)
Bartelstone, Louis, Flatbush, N. Y. Splice-laminating glass. 1,666,252; Apr. 17.
Bartlett Hayward Company, The. (See Fast, Gustave, assignor.)
Bartling, Friedrich. (See Honigmann, L., and Bartling.)
Barton, Vincent, Cadillac, Mich. Wrench. 1,666,879; Apr. 17.
Bassett, Cyrus W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator signal system. 1,666,589; Apr. 17.
Bassick Company, The. (See Johnson, John A., assignor.)
Bauert, William H., Roseville, near Sydney, New South Wales, Australia. Foot mat and luggage and like carrier device for motor road vehicles. 1,666,364; Apr. 17.
Baughman, Orland F., and J. Habart, Lakewood, assignors to The Bankers Savings & Credit System Company, Cleveland, Ohio. Coin bank or receptacle. 1,666,524; Apr. 17.
Baum, Erich, H. Deutsch, W. O. Herrmann, and M. Mugdan, Munich, Germany, assignors to Consortium für elektrochemische Industrie G. m. b. H., Munich, Bavaria. Production of vinylacetate. 1,666,482; Apr. 17.
Bayer, Leo J., St. Louis, Mo. Soot blower for boilers. 1,666,080; Apr. 17.
Beaumont Manufacturing Company. (See Beaumont, Robert H., assignor.)
Beaumont, Robert H., Radnor, assignor to Beaumont Manufacturing Company, Philadelphia, Pa. Ash hopper for boilers. 1,666,768; Apr. 17.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-plate-molding apparatus. 1,666,616; Apr. 17.
Beck, Stephen E., St. Louis, Mo. Ironing or pressing machine pad. 1,666,870; Apr. 17.
Becker, Morris. (See Goldstein, Isidore M., assignor.)
Beisel, Rex B., Garden City, and W. L. Gilmore, Mineola, N. Y., assignors to Curtiss Aeroplane & Motor Company, Inc. Airplane. 1,666,769; Apr. 17.

Bell, John E., deceased, Brooklyn; L. R. Bell, executrix, Jackson Heights, assignor to Foster Wheeler Corporation, New York, N. Y. Sectional water back. 1,666,483; Apr. 17.
Bell, Lola R., executrix. (See Bell, John E.)
Bell Telephone Laboratories, Incorporated. (See Clokey, Allison A., assignor.)
Bellar, David. (See Rhodes, W. A., and Bellar.)
Belluzzo, Giuseppe, assignor to Società Italiana Ernesto Breda, Milan, Italy. Steam turbine locomotive. 1,666,590; Apr. 17.
Beloit Iron Works. (See Aldrich, A., and Berry, assignors.)
Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
Bennett, Alonzo W., New Haven, Conn. Steam turbine. 1,666,068; Apr. 17.
Bennett, Earl J., Stittville, N. Y., assignor to H. R. Tobey. Warp-knitted fabric and making same. 1,666,638; Apr. 17.
Bernhard, Richard, assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa. Thrust roller. 1,666,436; Apr. 17.
Berry, Earl E. (See Aldrich, A., and Berry.)
Bethlehem Shipbuilding Corporation, Ltd. (See Scott, George N., assignor.)
Betts, Benjamin B., St. Louis, Mo. Rail anchor. 1,666,114; Apr. 17.
Blax Flexible Shaft Co. (See Schmid, R., and Wezel, assignors.)
Biederman, William, Sesekinika, Ontario, Canada. Projecting spring trap for trapping fur-bearing animals. 1,666,728; Apr. 17.
Biek, William G., and G. D. Rice, Dowagiac, Mich. Electric fixture. 1,666,729; Apr. 17.
Bilhartz, Charles, Strasburg, France. Machine for the production of textile fabrics. 1,666,591; Apr. 17.
Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Delivery guide. 1,666,161; Apr. 17.
Bixby, Walter. (See Hathaway, E. F., and Bixby.)
Björnson, Björn G., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater circuits. 1,666,676; Apr. 17.
Black, T. C. (See Splering, Charles W., assignor.)
Blake, James E., Co. (See Blake, William H., assignor.)
Blake, William H., assignor to James E. Blake Co., Attleboro, Mass. Hairbrush. 1,666,081; Apr. 17.
Blincoe, Felix H., Long Beach, assignor of one-fourth to G. M. Peterson, Los Angeles, Calif. Stem-gripping pruning shears. 1,666,253; Apr. 17.
Bliss, E. W., Company. (See Gueritey, Charles, assignor.)
Bloxham, Arthur, Montreal, Quebec, Canada. Roof flashing. 1,666,231; Apr. 17.
Boatright, Lenore, Sausalito, Calif. Radiator cap. Des. 74,912; Apr. 17.
Bodmer, Albert, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Permanent-finish vegetable material and producing same. 1,666,082; Apr. 17.
Bodmer, Albert, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Vegetable yarn and fabric with woollike effects. 1,666,083; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Body frame for lighting fixtures or similar articles. Des. 74,913; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Canopy for electric-lighting fixtures or similar articles. Des. 74,914; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Chandelier or similar article. Des. 74,915; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Electric wall bracket plate or similar article. Des. 74,916; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Chandelier or similar article. Des. 74,917; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Electric wall bracket plate or similar article. Des. 74,918; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Chandelier or similar article. Des. 74,919; Apr. 17.
Boehringer, John A., Springfield, assignor to Star Chandelier Co., Inc., New York, N. Y. Electric wall bracket plate or similar article. Des. 74,920; Apr. 17.
Bohnhardt, Charles F. H., assignor of one-half to J. R. Baril, Long Beach, Calif. Floating roof and sealing means therefor. 1,666,525; Apr. 17.
Bolens, Harry W. (See Strite, George T., assignor.)
Bolles, William B., Milwaukee, Wis. Fastening device for emergency-exit doors. 1,666,677; Apr. 17.
Bolling, John E., assignor to Drying Systems, Inc., Chicago, Ill. Thermostat. 1,666,192; Apr. 17.
Boltersdorf, Josef. (See Seybold, C., and Boltersdorf.)
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,666,115;
Borkowicz, John. (See Borkowicz, William, assignor.)
Borkowicz, William, assignor of one-fourth to J. Borkowicz, Baltimore, Md. Oil burner. 1,666,069; Apr. 17.
Bostaph, Harvey P., Detroit, Mich. Thread cutter. 1,666,162; Apr. 17.
Bouillon, Constant, assignor to The Hendry Machine Company, Torrington, Conn. Clamping mechanism for machine tools. 1,666,484; Apr. 17.
Box Patents Corporation. (See Shafer, Carl R., assignor.)
Boykin, Robert O., assignor to N. R. Vail, Los Angeles, Calif. Cake former for continuous rotary filters. 1,666,279; Apr. 17.
Boynton, Sidney H., Los Angeles, Calif. Making mosaic. 1,666,232; Apr. 17.
Bradbury, Clifford C., Glencoe, Ill., assignor to Hydraulic Brake Company, Detroit, Mich. Nonexpansive hose. 1,666,365; Apr. 17.
Bradford, Charles W., Southgate, Calif. Oil radiator. 1,666,485; Apr. 17.
Bradley, William T., Linn, Mo. Sharpening apparatus. 1,666,678; Apr. 17.
Brainard, George C., J. A. Fitch, and E. E. Wolters, assignors to The General Fireproofing Company, Youngstown, Ohio. Fireproof safe construction. 1,666,486; Apr. 17.
Brandes Laboratories, Inc. (See Ray, John N., assignor.)
Brandwein, Henry G., Chicago, Ill. Mattress. 1,666,280; Apr. 17.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Stencil duplicating machine. 1,666,193; Apr. 17.
Breeze, Fred, jr., Wyoming, Ohio, assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Packing asphalt. 1,666,730; Apr. 17.
Brennan, Michael J., St. Paul, Minn. Axle-generator belt remover. 1,666,592; Apr. 17.
Bridge & Beach Manufacturing Company. (See Bridge, George L., assignor.)
Bridge, George L., Clayton, assignor to Bridge & Beach Manufacturing Company, St. Louis, Mo. Combined radiating and circulating gas heater. 1,666,679; Apr. 17.
Briggs Manufacturing Company. (See Kennedy, Elmer M., assignor.)
Bright, Maurice S., Houston, Tex. Adjustable tray support. 1,666,084; Apr. 17.
Bright Star Battery Company. (See Koretzky, Harry M., assignor.)
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Air-cooled internal-combustion engine. 1,666,194; Apr. 17.
Brookins Manufacturing Company. (See Brookins, Walter R., assignor.)
Brookins, Walter R., assignor to Brookins Manufacturing Company, Dayton, Ohio. Liquid measure. 1,666,085; Apr. 17.
Broomhall, Harley, assignor to The Shelby Metal Products Company, Shelby, Ohio. Knob mounting. 1,666,731; Apr. 17.
Brophy, John P., Cleveland Heights, assignor to The Cleveland Automatic Machine Company, Cleveland, Ohio. Automatic stay-bolt-threading machine. 1,666,732; Apr. 17.
Brown, Francis N., jr., assignor of one-half to F. N. Brown, sr., El Paso, Tex. Casting machine. 1,666,843; Apr. 17.
Brown, Frank N., sr. (See Brown, Francis N., jr., assignor.)
Brucker, Henry, Newark, N. J., assignor to American Aluminum Ware Company. Spool. 1,666,404; Apr. 17.
Buben, William, St. Louis, Mo. Camera-holding stand. 1,666,770; Apr. 17.
Buchanan, Guy H., Westfield, and J. L. Osborne, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Manufacturing formic acid. 1,666,437; Apr. 17.
Buchheit, Albert J., et al. (See Fullenlove, McClellan C., assignor.)
Buchheit, William, et al. (See Fullenlove, McClellan C., assignor.)
Büchner, Oswald, Hongg, near Zurich, Switzerland. Daylight projecting screen. 1,666,808; Apr. 17.
Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Dynamometer. 1,666,680; Apr. 17.
Budd, Edward G., Manufacturing Company. (See Kleinsmith, Frederick, assignor.)
Budd Wheel Company. (See Hunt, J. Harold, assignor.)
Budd Wheel Company. (See Tarbox, John P., assignor.)
Buhrle, Joseph H., Ruffs Dale, Pa. Toy gun. 1,666,771; Apr. 17.
Bunnell, Earl C., Stratford, Conn. Eyelash applicator. 1,666,116; Apr. 17.
Burgess, Frank, Wollaston, Mass. Adjustable self-aligning bearing. 1,666,593; Apr. 17.
Burgess, Harry A., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanical wave filter. 1,666,681; Apr. 17.
Burn, John F., London, and J. S. Lancaster, Warwick, England. Rotary mixing machine. 1,666,824; Apr. 17.
Burnham Chemical Company. (See Burnham, George B., assignor.)
Burnham, George B., assignor to Burnham Chemical Company, Reno, Nev. Washing salts. 1,666,733; Apr. 17.

Burrell, Ellis B., Baltimore, Md. Case for licenses, etc. 1,666,117; Apr. 17.
Busse, Harry H., Cleveland, Minn. Condenser assembly control. 1,666,682; Apr. 17.
Butler, Emanuel L., Detroit, Mich. Street indicator. 1,666,550; Apr. 17.
Butler, James B., and J. J. Drumm, Dublin, Irish Free State. Treating vegetable produce. 1,666,551; Apr. 17.
Butler, William J., Cranston, assignor to Henry Lederer & Bro., Inc., Providence, R. I. Cigar lighter. 1,666,809; Apr. 17.
C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Husen, assignors.)
Cadieux, Joseph O., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Hospital signal switch. 1,666,639; Apr. 17.
Caldwell, Louis P., Kansas City, Mo. Vegetable-matter drier. 1,666,617; Apr. 17.
Caldwell, Myron H., and I. Green, New York; said Green assignor to Arthur C. E. Hamilton, Mount Vernon, N. Y. Magazine pencil. 1,666,405; Apr. 17.
California Cyanide Company. (See Neuls, Joseph D., assignor.)
Calkins, William G., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Hydraulic-brake solution. 1,666,871; Apr. 17.
Campbell, Henry C. (See Lane, James H., assignor.)
Campbell, James H., Cambridge, assignor of one-half to J. D. Moore, Boston, Mass. Heater. 1,666,233; Apr. 17.
Campbell, Samuel J., assignor to Hudson & Sharp Machine Company, Green Bay, Wis. Article forming and folding machine. 1,666,086; Apr. 17.
Campobasso, Gerard. (See Campobasso, Thomas and G.)
Campobasso, Thomas and G., Barre, Vt. Nipple. 1,666,772; Apr. 17.
Campodonico, John J., Stockton, Calif. Traction wheel. 1,666,526; Apr. 17.
Carhart, Elizabeth M., Jewell, Va. Closure means for bottles. 1,666,683; Apr. 17.
Carlson, Albin, Degerhamn, Sweden. Briquetting. 1,666,618; Apr. 17.
Carlson, Elnar C., Two Harbors, Minn. Crowbar attachment. 1,666,842; Apr. 17.
Carlstedt, Ragnar, Stockholm, Sweden, assignor to Arca Regulators, Incorporated, New York, N. Y. Electric power regulation. 1,666,438; Apr. 17.
Carr, Arthur J., et al. (See Foster, Clarence B., assignor.)
Carroll, J. B., Company. (See Des Enfants, Ernest C., assignor.)
Carstens, H., Mfg. Co. (See Carstens, Herbert H., assignor.)
Carstens, Herbert H., Oak Park, assignor to H. Carstens Mfg. Co., Chicago, Ill. Vaginal douche. 1,666,684; Apr. 17.
Carter, Richard H. (See Perl, A. H. F., and Carter.)
Centeno V., Melchor, Caracas, Venezuela. Nail straightener. 1,666,844; Apr. 17.
Central Scientific Company. (See Hornberger, Carl S., assignor.)
Central Scientific Company. (See Klopsteg, Paul E., assignor.)
Central Scientific Company. (See Sherrill, Richard M., assignor.)
Cereghino, Joseph, Los Angeles, Calif. Can opener. 1,666,366; Apr. 17.
Chamberlain, Paul A., assignor to Mohawk Corporation of Illinois, Chicago, Ill. Radiocondenser. 1,666,163; Apr. 17.
Chappell, Fred B., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y. Apparatus for aerating and screening liquid. 1,666,164; Apr. 17.
Checconi, Eligio, Pueblo, Colo. Perambulator. 1,666,439; Apr. 17.
Chevalier, John F. (See Griswold, A. A., and Goddard, assignors.)
Chicago Mica Company. (See Frederick, Louis T., assignor.)
Chicago Pump Company. (See Durdin, Augustus C., jr., assignor.)
Chicago, Pump Company. (See Lindemann, Clarence W., assignor.)
Chicago Railway Signal & Supply Company. (See McCarthy, Daniel J., assignor.)
Chilman, Ivar, Hoquiam, Wash. Gurdy. 1,666,552; Apr. 17.
Chisholm, Lester B., Melrose, assignor to Everlastik, Inc., Chelsea, Mass. Woven elastic fabric. 1,666,325; Apr. 17.
Chisholm, Lester B., Melrose, assignor to Everlastik, Inc., Chelsea, Mass. Fabric. 1,666,686; Apr. 17.
Christman, Peter J., Green Bay, Wis. Interfolding machine. 1,666,553; Apr. 17.
Christophel, Carl E., Penri River, assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding machine. 1,666,165; Apr. 17.
Christy, Joseph E. and J. F. Sloan, Barton, Ohio. Crosstie. 1,666,810; Apr. 17.
Chrysler Corporation. (See Calkins, William G., assignor.)
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)
Clark, Harry A., Wichita Falls, Tex. Chain-reversing mechanism. 1,666,845; Apr. 17.
Clark, Paul L., Brooklyn, N. Y. Apparatus for the electrical transmission of visual images. 1,666,594; Apr. 17.
Clark Thread Company, The. (See Hart, Joseph J., assignor.)
Clark Thread Company, The. (See Mowat, James R., assignor.)
Clark, Walter B., Lincoln Park, assignor of one-half to I. D. Lawrence, Detroit, Mich. Window shield. 1,666,773; Apr. 17.
Clausing, Louis F., Burlingame, assignor to Royal Metal Works, San Francisco, Calif. Heating device. 1,666,367; Apr. 17.
Clement, Hans, New York, and B. M. Barron, Mount Vernon, N. Y., assignors to General Optical Company, Inc. Optical instrument. 1,666,406; Apr. 17.
Clements, Thomas H., assignor of one-half to F. C. Millard Engineering Company, Los Angeles, Calif. Controlling and measuring gas supply. 1,666,487; Apr. 17.
Cleveland Automatic Machine Company, The. (See Brophy, John P., assignor.)
Clinton, Otto M. (See Craft, W. J., and Clinton.)
Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Press. 1,666,734; Apr. 17.
Clokey, Allison A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Duplex telegraph system. 1,666,195; Apr. 17.
Clough, Newsome H., Chelmsford, England, assignor to Radio Corporation of America. Tuning system. 1,666,685; Apr. 17.
Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Cutting slots in metal. 1,666,166; Apr. 17.
Coddington, Edwin D., North Milwaukee, Wis. Wall construction and method of and apparatus for building same. 1,666,554; Apr. 17.
Colgrove, Charles E., Toronto, Ontario, Canada. Paperboard-cutting machine. 1,666,687; Apr. 17.
Colgrove, Joseph P., Buffalo, N. Y. Razor-blade holder. 1,666,118; Apr. 17.
Collier, Freeman E., assignor to Foley Saw Tool Company, Incorporated, Minneapolis, Minn. Tilting saw guide. 1,666,087; Apr. 17.
Collins, Thomas A., et al. (See Foster, Clarence B., assignor.)
Colloidal Equipment Corporation. (See Cunniff, Bernard, assignor.)
Colman, Howard D., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Textile apparatus. 1,666,735; Apr. 17.
Colomb, Henri, Tavannes, Switzerland. Stem winding mechanism for watches. 1,666,774; Apr. 17.
Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Congoleum-Nairn, Inc. (See Fauser, Oscar W., assignor.)
Connecticut Telephone & Electric Company, The. (See Cadieux, Joseph O., assignor.)
Connolly, John L., New York, N. Y. Railway rail, wheel, and brake shoe. 1,666,167; Apr. 17.
Conrad, Frank A., St. Paul, Minn. Hot-air furnace. 1,666,736; Apr. 17.
Consolidated Machine Tool Corporation of America. (See Trosch, Alfred, assignor.)
Consolidated Steel Strapping Company. (See Leslie, John W., assignor.)
Consortium für Elektrochemische Industrie G. m. b. H. (See Baum, E., Deutsch, Herrmann, and Mugdan, assignors.)
Continental Can Company. (See Hodgson, William W., assignor.)
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Cook, Thomas R., assignor to The Hudson Coal Company, Scranton, Pa. Journal box, bearing, wheel, and axle assembly. 1,666,368; Apr. 17.
Cook, William N., New York, N. Y., assignor to E. B. Meyrowitz, Inc. Goggle nose bridge. 1,666,407; Apr. 17.
Cooper, Dennis S., Abilene, Tex. Knee pad. 1,666,846; Apr. 17.
Cooper, Harold M., Marshalltown, Iowa. Gasoline reserve. 1,666,254; Apr. 17.
Copeland, Eugene A., assignor to The Samuel Winslow Skate Manufacturing Company, Worcester, Mass. Skate roller. 1,666,168; Apr. 17.
Copp, Benjamin F., Albuquerque, N. Mex. Key holder. 1,666,776; Apr. 17.
Corey, William G., San Francisco, and C. A. Trow, Conlinga, Calif. Hydraulic pumping power. 1,666,255; Apr. 17.
Coster, Dirk, Haarlem, Netherlands, and G. von Hevesy, Copenhagen, Denmark, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven. Separation of hafnium and zirconium. 1,666,446; Apr. 17.
Cottier, Robert G., Bradford, Ontario, Canada. Machine for laying bricks. 1,666,555; Apr. 17.
Côte, Albert B., Philadelphia, Pa. Battery-element extractor. 1,666,847; Apr. 17.
Craft, William J., Los Angeles, and O. M. Clinton, Glendale, Calif. Automobile speed-warning signaling device. 1,666,441; Apr. 17.

Craig, Milton A., R. P. Steen, and S. A. Logsdon, Lima, Ohio. Fluid-pressure locking means for car doors. 1,666,775; Apr. 17.
Crankless Engines Limited. (See Michell, Anthony G. M., assignor.)
Cravin, Austin O., Chicago, Ill. Gauge. 1,666,556; Apr. 17.
Crawshaw, Richard, Drumright, Okla. Apparatus for extracting oil from shale. 1,666,488; Apr. 17.
Cross, Walter M., Kansas City, Mo. Converting petroleum hydrocarbons. 1,666,119; Apr. 17.
Crown Fuel Saver Company. (See Harter, Lloyd E., assignor.)
Crystal Refrigerating Co. (See Hammond, Earl R., assignor.)
Cullen, Julien F., Portland, Oreg. Manufacture of cushion-tired wheels. 1,666,234; Apr. 17.
Culp, John W., Johnstown, Pa. Mechanical toy. 1,666,527; Apr. 17.
Cummer, Robert L., Toronto, Ontario, Canada. Dental floss holder. 1,666,877; Apr. 17.
Cunniff, Bernard, assignor to Colloidal Equipment Corporation, New York, N. Y. Disintegrator. 1,666,640; Apr. 17.
Cuno Engineering Corporation, The. (See Wolfson, Sidney L., assignor.)
Cuntz, Herman F., Hartford, Conn. Vertical beacon. 1,666,196; Apr. 17.
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Coil. 1,666,120; Apr. 17.
Curtiss Aeroplane & Motor Company. (See Beisel, R. B., and Gilmore, assignors.)
Curtiss Aeroplane & Motor Company. (See Wait, William, jr., assignor.)
Cutler-Hammer Mfg. Co., The. (See Meuer, George J., assignor.)
Dahlgren, Charles J., East Orange, N. J. Buckle. 1,666,528; Apr. 17.
Dahlgren, Charles J., East Orange, N. J. Buckle. 1,666,529; Apr. 17.
Dallas, Charles D., Chicago, Ill. Lightning rod. 1,666,326; Apr. 17.
Dalton, Hubert, Stamford, Conn. Curtain holder. 1,666,408; Apr. 17.
Dalton, Hubert, Stamford, Conn. Curtain holder. 1,666,409; Apr. 17.
Dalton, Hubert, Stamford, Conn. Curtain holder. 1,666,410; Apr. 17.
Dalton, William, Glenville, N. Y. Railroad-track structure. 1,666,688; Apr. 17.
Davis, Freeman and L., Centerville, Iowa. Amalgamator. 1,666,121; Apr. 17.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Let-off for terry looms. 1,666,872; Apr. 17.
Davis, Loyd. (See Davis, Freeman and L.)
Dayton Pump & Mfg. Company, The. (See Eickmeyer, Earl E., assignor.)
De Boer, Jan H. (See Van Arkel, A. E., and de Boer.)
De Boer, Jan H., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Separation of hafnium and zirconium. 1,666,811; Apr. 17.
Debrie, André L. V. C., Paris, France. Stand for cinematographic and photographic view taking apparatus. 1,666,848; Apr. 17.
Deckel, Friedrich, and M. Geiger, assignors to the firm: Friedrich Deckel, Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Camera shutter. 1,666,557; Apr. 17.
Deckel, Friedrich, Präzisionsmechanik und Maschinenbau. (See Deckel, F., and Geiger, assignors.)
Dehling, Mary R., Wausau, Wis. Dust-laying broom. 1,666,369; Apr. 17.
Deibert, Ambrose E., Seattle, Wash. Mail box. 1,666,281; Apr. 17.
De Leeuw, Adolph L., Plainfield, N. J., assignor of one-half to A. F. Nathan, New York, N. Y. Gear grinder. 1,666,737; Apr. 17.
De Mattia Brothers, Inc. (See De Mattia, Peter, assignor.)
De Mattia, Peter, Passaic, assignor to De Mattia Brothers, Inc., Garfield, N. J. Collapsible core. 1,666,689; Apr. 17.
Dennis, William J., Chicago, Ill. Weather strip. 1,666,327; Apr. 17.
Dennis, William J., Chicago, Ill. Weather strip. 1,666,328; Apr. 17.
Denniston, Jonathan W., Bedford, Ind. Circuit closer. 1,666,122; Apr. 17.
De Rose, Albert, Gilroy, Calif. Mop. 1,666,371; Apr. 17.
Des Enfants, Ernest C., assignor to J. B. Carroll Company, Chicago, Ill. Toy computing device and number-revealing game. 1,666,641; Apr. 17.
Detwiler, Daniel W., Rosebud, Alberta, Canada. Grain cleaner. 1,666,370; Apr. 17.
Deutsch, Hans. (See Baum, E., Deutsch, Herrmann, and Mugdan.)
Dexter Folder Company. (See Christophel, Carl E., assignor.)
Diamond Match Company, The. (See Zomnir, J. E., and Pfersch, assignors.)
Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)
Dillingham, Frederick A., assignor to The Toy Sunshade Company, Troy, Ohio. Windshield. 1,666,642; Apr. 17.
Dispenza, Andrew J. (See Noll, Theobald H., assignor.)
Dobson & Barlow Limited. (See Hartley, Walter, assignor.)
Dodd, Alphonse M., Warwick, assignor to Phenix Lace Mills, Phenix, R. I. Lace. Des. 74,921; Apr. 17.
Dodge, Adiel Y., assignor to Bendix Brake Company, South Bend, Ind. Brake-operating means. 1,666,558; Apr. 17.
Doherty, Henry L. (See Laird, Wilbur, G., assignor.)
Doherty Research Company. (See Skillman, Edward, assignor.)
D'Olier, Henry, jr., Bridgeport, Conn. Electric connecter socket. 1,666,411; Apr. 17.
Dolmatch, Aaron, Bayonne, N. J. Expandible vaginal syringe. 1,666,197; Apr. 17.
Donle Electrical Products Corporation. (See Donle, Harold P., assignor.)
Donle, Harold P., assignor to Donle Electrical Products Corporation, Meriden, Conn. Audiofrequency amplifier. 1,666,412; Apr. 17.
Dorange, Louis V., Kansas City, Mo. Cooling attachment for permanent-waving apparatus. 1,666,160; Apr. 17.
Dorgan, Ralph O., Mobile, Ala. Automatic electric railroad-crossing gate. 1,666,559; Apr. 17.
Dormer, John A., and J. G. Malone, Detroit, Mich. Crushing machine. 1,666,530; Apr. 17.
Douglas, Harry A. (See Watts, Felix J., assignor.)
Downes-Martin, Lelia. Christchurch, England. Match box, ash tray, and other boxes and trays. 1,666,294; Apr. 17.
Draper, Clare H., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Shuttle-feeler thread cutter. 1,666,442; Apr. 17.
Draper, Clare H., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Shuttle-tension-controlling mechanism for looms. 1,666,443; Apr. 17.
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Draper, Clare H., assignor.)
Draper Corporation. (See Merrill, Charles F., assignor.)
Draper Corporation. (See Northrop, Jonas, assignor.)
Dressel, Henry M., Chicago, Ill. Loud speaker. 1,666,198; Apr. 17.
Drevitson, Carl B., Somerville, Mass. Skate. 1,666,690; Apr. 17.
Droitcour, Michael A., Edgewood, R. I. Sheet-delivery apparatus. 1,666,489; Apr. 17.
Drumm, James J. (See Butler, J. B., and Drumm.)
Dryer, William P., Schenectady, N. Y., assignor to General Electric Company. Emergency governor mechanism for prime movers. 1,666,490; Apr. 17.
Drying Systems, Inc. (See Bolling, John E., assignor.)
Duplex Electric Company. (See Williams, John P., assignor.)
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Durdin, Augustus C., jr., assignor to Chicago Pump Company, Chicago, Ill. Duplex pumping apparatus. 1,666,873; Apr. 17.
Durupt, Jean B., Jeuxey, by Epinal, assignor to Societe Pellaumail-Moutel & Cie., Cholet, France. Machine for drawing out the yarn from textile fabrics for the production of openwork. 1,666,812; Apr. 17.
Eaton, Doris M., Springfield, Mass. Ash tray or similar article. Des. 74,922; Apr. 17.
Eberhardt, Edward L., Edwardsville, Ill. Manicuring implement. 1,666,619; Apr. 17.
Ebihara, Keikichi. (See Okochi, M., and Ebihara.)
Economy Products Corporation. (See Voight, George E., assignor.)
Eddy, Lawrence R., Manasquan, N. J. Kite. 1,666,813; Apr. 17.
Edeleanu, Lazar, K. Pfeiffer, K. Gress, and P. Jodeck, Berlin, Germany. Refining heavy mineral oils by means of sulphur dioxide in a continuous operation. 1,666,560; Apr. 17.
Edelman, Max., assignor to E. M. Shapiro, Sellersville, Pa. Cutting machine. 1,666,643; Apr. 17.
Egan, John J., and E. Gregor, assignors to McCallum Hosiery Company, Northampton, Mass. Plating attachment. 1,666,123; Apr. 17.
Eickmeyer, Earl E., assignor to The Dayton Pump & Mfg. Company, Dayton, Ohio. Gasoline pump. 1,666,644; Apr. 17.
Eisele, Julius. (See Griesbach, R., and Eisele.)
Ekstrom, Gustaf H., Rockford, assignor to C. P. Parker, trustee, Evanston, Ill. Rubbing machine. 1,666,256; Apr. 17.
Electric Storage Battery Company, The. (See Stone, Walter B., assignor.)
Electrolux Servel Corporation. (See Von Platen, B. C., and Munters, assignors.)
Elevator Supplies Company. (See Bassett, Cyrus W., assignor.)
Elliott-Fisher Company. (See Julihn, Louis G., assignor.)
Elzemeyer, Ernst H., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizing machine. 1,666,124; Apr. 17.
Emerson, Dean A., assignor to The Star Pin Company, Derby, Conn. Display carton. 1,666,691; Apr. 17.

England, Eric C. G., London, England. Motor vehicle. 1,666,814; Apr. 17.
England, Eric C. G., London, England. Motor vehicle. 1,666,815; Apr. 17.
Engström, Dag A., Stockholm, Sweden. Card register. 1,666,125; Apr. 17.
Epstein, Harris, Rockaway Beach, N. Y. Folding umbrella. 1,666,692; Apr. 17.
Essex, Frank C., and J. E. Maxson, assignors of one-third to D. S. McNeil, Picher, Okla. Sectional mold liner for type-setting machines. 1,666,595; Apr. 17.
Evans, Israel, San Bernardino, Calif. Hose-coupling tool. 1,666,491; Apr. 17.
Everlastik, Inc. (See Chisholm, Lester B., assignor.)
Fagan, Ray C., Spangler, Pa. Pressure-fluctuating alarm for mines. 1,666,282; Apr. 17.
Falk, Pierre R., New York, N. Y. Air circulating and heating apparatus. 1,666,816; Apr. 17.
Fallon, William J., jr., Boston, Mass. Welting and making same. 1,666,444; Apr. 17.
Farley, George E., assignor to Service Equipment Co., Southgate, Calif. Combined tire-inflating valve and gauge. 1,666,283; Apr. 17.
Farr, Joseph W., Oak Park, Ill. Roofing. 1,666,088; Apr. 17.
Farver, Warner E., et al. (See Kaser, Walter I., assignor.)
Fast, Gustave, Annapolis, assignor to The Bartlett Hayward Company, Baltimore, Md. Flexible shaft coupling. 1,666,445; Apr. 17.
Fauser, Oscar W., Bellerose, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 74,823; Apr. 17.
Federal Pressed Steel Company. (See Tinker, Herbert W., assignor.)
Feisthamel, Frederick L., et al. (See Foster, Clarence B., assignor.)
Fejes, Jenö, Budapest, Hungary. Vehicle brake. 1,666,372; Apr. 17.
Feldheim, Felix S., Evanston, assignor of one-half to V. Karbowski, Chicago, Ill. Spring steel tire. 1,666,373; Apr. 17.
Feldman, David A. (See Will, A. J., and Feldman.)
Fereday, Horace, Spanish Fork, Utah. Vehicle brake. 1,666,817; Apr. 17.
Ferree, Marvin, New York, N. Y., and J. Wissmar, Cleveland, Ohio, assignors, by mesne assignments, to Telepix Corporation of America. Receiving paper and receiving solution for telautography. 1,666,329; Apr. 17.
Ferree, Marvin, New York, N. Y., and J. Wissmar, Cleveland, Ohio, assignors to Telepix Corporation of America. Needle holder for telautographic apparatus. 1,666,330; Apr. 17.
Fidelity Machine Company. (See Larkin, Walter, assignor.)
Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)
Finkelstein, Mendel. (See Saunders, L. E., and Finkelstein.)
First Trust & Savings Bank of Pasadena, trustee. (See Key, James, F., assignor.)
Fischer, Frank, Larchmont, N. Y., and A. F. Van Pelt, Interlaken, N. J., assignor to Grant Oil Burner Corporation, Wilmington, Del. Electrical safety control circuit for automatic burner equipment. 1,666,331; Apr. 17.
Fisher, Alfred J., assignor to General Motors Corporation, Detroit, Mich. Door stile for automobile bodies. 1,666,446; Apr. 17.
Fisher, James, New Orleans, La. Cane harvester. 1,666,818; Apr. 17.
Fitch, Jason A. (See Brainard, G. C., Fitch, and Wolters.)
Fitzpatrick, Francis W., Evanston, Ill. Building unit and construction. 1,666,199; Apr. 17.
Fitzpatrick, James R., New York, N. Y. Vehicle side and window washing machine. 1,666,170; Apr. 17.
Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined salt and pepper shaker. Des. 74,924; Apr. 17.
Flintkote Company, The. (See Breeze, Fred, jr., assignor.)
Flintkote Company, The. (See Stolp, Charles, jr., assignor.)
Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Automatic windshield cleaner. 1,666,126; Apr. 17.
Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,666,127; Apr. 17.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Foley Saw Tool Company. (See Collier, Freeman E., assignor.)
Foltz, Ira W., Chicago, Ill. Furnace. 1,666,200; Apr. 17.
Forbes, John S., Philadelphia, Pa. Method of and apparatus for evaporating and distilling. 1,666,777; Apr. 17.
Ford, Edward, Plate Glass Company, The. (See Platt, Archie W., assignor.)
Formica Insulation Company, The. (See Lytle, Robert W., assignor.)
Forrester, Charles H., sr., et al. (See Kamedish, Peter B., assignor.)
Foss, William A. (See Schlipp, Charles P., assignor.)
Foster, Clarence B., Glendale, assignor of one-sixth to F. L. Feisthamel, one-sixth to A. J. Carr, and one-sixth to T. A. Collins, Los Angeles, Calif. Fabricated-derrick construction. 1,666,413; Apr. 17.
Foster, Clarence B., Glendale, assignor of one-sixth to F. L. Feisthamel, one-sixth to A. J. Carr, and one-sixth to T. A. Collins, Los Angeles, Calif. Fabricated derrick construction. 1,666,413; Apr. 17.
Foster, Harry C., assignor to Indiana Lamp Corporation, Connersville, Ind. Connecter for electric circuits. 1,666,089; Apr. 17.
Foster, Theodore W., & Brother Company. (See Noble, Arthur H., assignor.)
Foster Wheeler Corporation. (See Bell, John E., assignor.)
Franco, Attilio, Milan, Italy. Steam generator. 1,666,128; Apr. 17.
Franson, Fritz H., Denver, Colo. Building construction. 1,666,235; Apr. 17.
Frantz, Walter A., Cleveland, Ohio. Time switch. 1,666,129; Apr. 17.
Frederick, Louis T., assignor to Chicago Mica Company, Valparaiso, Ind. Mica-separating machine. 1,666,130; Apr. 17.
Freeman, Ella M. (See Weeden, Arthur W., assignor.)
Frieden, Alexander, Mount Vernon, assignor of one-third to R. F. Bacon and one-third to A. Hirsch, New York, N. Y. Recovery of camphor. 1,666,645; Apr. 17.
Fry, Benjamin L., assignor to National Sales Machine Company, St. Louis, Mo. Coin-controlled vending machine. 1,666,596; Apr. 17.
Fry, Benjamin L., assignor to National Sales Machine Company, St. Louis, Mo. Vending machine. 1,666,849; Apr. 17.
Fuerth, Sydney W., Maplewood, N. J. Sight instrument for automobiles. 1,666,236; Apr. 17.
Fullenlove, McClellan C., Toledo, Ohio, assignor of thirty per cent to A. J. Buchheit and twenty-five per cent to W. V. Ghislin, Park Ridge, Ill., and twenty per cent to W. Buchheit, Asbury Park, N. J. Motion-picture-projection apparatus. 1,666,131; Apr. 17.
Fuller, Albert M., Pittsburgh, Pa. Automatically-adjustable grinding wheel. 1,666,237; Apr. 17.
Furnivall, William H. G., D. B. McLaren, and E. J. Laschinger, Johannesburg, Transvaal, South Africa. Exhaust silencer. 1,666,257; Apr. 17.
G. & G. Atlas Systems. (See Stoetzel, Joseph J., assignor.)
Gahlert, Franz J., Dresden-Lischwitz, Germany. After-treatment of freshly-spun artificial silk. 1,666,090; Apr. 17.
Galbreath, William W., assignor to The Youngstown Pressed Steel Company, Warren, Ohio. Lath-spacing nail. 1,666,561; Apr. 17.
Gallagher, Charles R., Fullerton, assignor to Universal Holding Company, Los Angeles, Calif. Floating deck or cover for oil tanks. 1,666,415; Apr. 17.
Gallet, Maurice, and A. B. Anderson, Poughkeepsie, N. Y. Aeroplane. 1,666,132; Apr. 17.
Gatti, Tony C., Pascagoula, Miss. Garden tool. 1,666,374; Apr. 17.
Gaus, Wilhelm, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-Main, Germany. Composition to be used in connection with antiknock compounds. 1,666,693; Apr. 17.
Gaus, Wilhelm, and W. Wild, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengessischaft, Frankfort-on-Main, Germany. Producing mixtures of nitrogen and hydrogen. 1,666,694; Apr. 17.
Gavaza, George V., Quincy, Mass. Siphon pump. 1,666,850; Apr. 17.
Geiger, Martin. (See Deckel, F., and Geiger.)
General Electric Company. (See Bany, Herman, assignor.)
General Electric Company. (See Dryer, William P., assignor.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Electric Company. (See Weinfield, Benjamin S., assignor.)
General Fireproofing Company, The. (See Brainard, G. C., Fitch, and Wolters, assignors.)
General Motors Corporation. (See Fisher, Alfred J., assignor.)
General Motors Corporation. (See Hinger, J. A., Mayer, and Wilson, assignors.)
General Optical Company. (See Clement, H., and Barron, assignors.)
Gentile, Domenico, Rome, N. Y. Automotive appliance. 1,666,492; Apr. 17.
Geoghegan, George E., Lawrence, Mass. Shuttle-checking mechanism for looms. 1,666,620; Apr. 17.
Gerstenberger, Albin. (See Möller, F., Moritz, and Gerstenberger.)
Ghislin, Walter V., et al. (See Fullenlove, McClellan C., assignor.)
Gibson, Clark A., assignor to Sta-Rite Hair Pin Company, Shelbyville, Ill. Hair clasp and producing the same. 1,666,133; Apr. 17.
Gilchrist, William A., Chicago, Ill. Construction of furnace walls and arches. 1,666,284; Apr. 17.
Giles, Julian A., Derby, Conn. Wrench. 1,666,091; Apr. 17.
Gilmer, L. H., Co. (See Lewis, C. W., assignor.)

Gilmore, William L. (See Beisel, R. B., and Gilmore.)
Gisholt Machine Company. (See Lundberg, Nils I., assignor.)
Gits, Jules P., Chicago, Ill. Pneumatic-tire valve. 1,666,562; Apr. 17.
Glauber, Myron J., Los Angeles, Calif. Diverter valve. 1,666,531; Apr 17.
Glenco Products Company. (See Jackson, Royal W., assignor.)
Glens Falls Machine Works. (See Chappell, Fred B., assignor.)
Goddard, Alvin C. (See Griswold, A. A., and Goddard.)
Goetze, Albin F., assignor to Morgan Knitting Mills, Inc., Newark, N. J. Knit scarf. 1,666,819; Apr. 17.
Goldschmidt, Stefan, Karlsruhe, Germany. Oxidation of alcohol. 1,666,447; Apr. 17.
Goldstein, Isidore M., assignor to Morris Becker, Brooklyn, N. Y. Jumping rope. 1,666,201; Apr. 17.
Gollnick, Paul A., assignor to Spiegel, May, Stern Co., Chicago, Ill. Sheet-handling mechanism. 1,666,171; Apr. 17.
Gollnick, Paul A., assignor to Spiegel, May Stern Company, Chicago, Ill. Tray. 1,666,172; Apr. 17.
Gomme, Ebenezer, High Wycombe, England. Furniture fitment. 1,666,646; Apr. 17.
Gong Bell Manufacturing Company. (See Watrous, Clifford M., assignor.)
Good, John F., Knoxville, Tenn. Display-tray construction for show cases. 1,666,851; Apr. 17.
Government and the People of the United States of America, The. (See Nelson, Elnathan K., assignor.)
Grant Oil Burner Corporation. (See Fischer, F., and Van Pelt, assignors.)
Grasselli Dyestuff Corporation. (See Metzger, Richard, assignor.)
Graydon, Alexander, Buffalo, N. Y. Washing machine. 1,666,238; Apr. 17.
Grebehem, Hugo, Herbsleben, Germany. Safety device for preventing railway accidents. 1,666,695; Apr. 17.
Green, Ida. (See Caldwell, M. H., and Green.)
Greenwood, Dolphice H., Los Angeles, Calif. Combination sucker-rod elevator and spider. 1,666,621; Apr. 17.
Gregor, Eugene. (See Egan, J. J., and Gregor.)
Gress, Karl. (See Edeleanu, L., Pfeiffer, Gress, and Jodeck.)
Griessbach, Robert, and J. Eisele Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Utilization of lignin. 1,666,696; Apr. 17.
Griffin, Alvah M., assignor to Universal Holding Company, Los Angeles, Calif. Floating deck. 1,666,416; Apr. 17.
Grigsby-Grunow-Hinds Co. (See Osborn, Jesse C., assignor.)
Grimm, George E., assignor to The Willys-Overland Company, Toledo, Ohio. Cowl ventilator. 1,666,874; Apr. 17.
Griswold, Albert A., Povidence, R. I., and A. C. Goddard, Richmond Hill, N. Y.; said Goddard assignor, by mesne assignments, to J. F. Chevalier, Brookline, Mass. Wire-cutting mechanism. 1,666,134; Apr. 17.
Griswold, Frank W., Minneapolis, Minn. Traffic signal. Des. 74,925; Apr. 17.
Gross, Benjamin & Edward J., Co. (See Gross, Benjamin, assignor.)
Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co. Inc., New York, N. Y. Finger ring or article of similar nature. Des. 74,926; Apr. 17.
Grosse, Friedrich, Jena, Germany. Slot-shutter mechanism for photographic cameras. 1,666,852; Apr. 17.
Grossmann, Gustav, Berlin, Germany. Diathermic apparatus. 1,666,697; Apr. 17.
Gueritey, Charles, Passaic, N. J., assignor to E. W. Bliss Company, Brooklyn, N. Y. Can-heading machine. 1,666,239; Apr. 17.
Guethler, William, Philadelphia, Pa. Dough mixer. 1,666,698; Apr. 17.
Guiducci, Igino, Tivoli, Rome, Italy. Lock nut. 1,666,375; Apr. 17.
Gurney, Albert J., assignor to The American Mine Door Co., Canton, Ohio. Wire anchor. 1,666,493; Apr. 17.
Habart, Joseph. (See Baughman, O. F., and Habart.)
Hackstedde, Herbert H., Cincinnati, Ohio. Mixing machine. 1,666,285; Apr. 17.
Hagen, Sigurd, Drammen, Norway. Instrument for setting up profiles. 1,666,563; Apr. 17.
Hagen, Walter, assignor to L. A. Young Company, Detroit, Mich. Golf ball. 1,666,699; Apr. 17.
Hahn, Elmer L., McAllen, Tex. Toilet-article holder. 1,666,564; Apr. 17.
Haines, Winfield S., assignor to P. G. Seigle, Dunmore, Pa. Exhaust nozzle. 1,666,376; Apr. 17.
Hall, Elbert J., Piedmont, Calif. Flexible coupling. 1,666,494; Apr. 17.
Hall, Frank J., et al. (See Iserman, S., Vernet, and Moses, assignors.)
Hall, Leslie S., assignor to Williams Tool Corporation, Erie, Pa. Belt-tensioning device for threading machines and the like. 1,666,135; Apr. 17.
Halleck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Forging machine. 1,666,287; Apr. 17.
Hamilton, Arthur C. E. (See Caldwell, M. H., and Green, assignors.)
Hamm, Karl, Hartford, Conn. Steam boiler. 1,666,202; Apr. 17.
Hammond, Earl R., assignor to Crystal Refrigerating Co., Fremont, Nebr. Refrigerator door. 1,666,258; Apr. 17.
Hands, Henry J., Chiswick, London, assignor to Spicers, Limited, London, England. Cellulose-derivative film and making the same. 1,666,377; Apr. 17.
Harber, Laurence S., assignor to Joseph Baker Sons & Perkins Company, Inc., White Plains, N. Y. Dough treating. 1,666,647; Apr. 17.
Hardenstein, Hellon D., Oklahoma City, Okla. Game. 1,666,448; Apr. 17.
Harding, Frank E., assignor to Arlington Mills, Lawrence, Mass. Slub catcher and tension for doubling machines. 1,666,565; Apr. 17.
Harlan, James M., Dayton, Wash. Harrow attachment. 1,666,778; Apr. 17.
Harner, John E., Dodge City, Kans. Child's toy. 1,666,378; Apr. 17.
Harnsberger, Audley E., Columbus, Ohio, assignor to The Pure Oil Company, Chicago, Ill. Distilling oils. 1,666,597; Apr. 17.
Harrington, Elmore H., New Smyrna, Fla. Tobacco stick. 1,666,648; Apr. 17.
Harris, Archer H., Akron, Ohio. Vulcanizer. 1,666,649; Apr. 17.
Harris, Isaac, Detroit, Mich. Spark plug. 1,666,853; Apr. 17.
Harris, Leland D., Salt Lake City, Utah. Loud speaker. 1,666,854; Apr. 17.
Harris, William W. New York, N. Y. Gravity-operated figure toy. 1,666,417; Apr. 17.
Harrison, Cecil B., assignor to R. West and K. P. West, San Francisco, Calif. Record tray. 1,666,700; Apr. 17.
Harshberger, Norman P., Chicago, Ill. Shingle machine. 1,666,203; Apr. 17.
Harshberger, Norman P., Chicago, Ill. Shingle. 1,666,204; Apr. 17.
Hart, Joseph J., assignor to The Clark Thread Company, Newark, N. J. Bundling machine. 1,666,205; Apr. 17.
Harter, Lloyd E., assignor to Crown Fuel Saver Company, Richmond, Ind. Steam-actuated air injector. 1,666,136; Apr. 17.
Hartley, Ralph V. L., South Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Modulation system. 1,666,206; Apr. 17.
Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission circuit. 1,666,738; Apr. 17.
Hartley, Walter, assignor to Dobson & Barlow Limited, Bolton, England. Waste-collecting device for combing and like machines. 1,666,379; Apr. 17.
Hathaway, Edgar F., Wellesley, and W. Bixby, assignors to Shawmut Engineering Company, Dorchester, Mass. Mechanism for and method of handling yarns or the like. 1,666,650; Apr. 17.
Hawley, Charles G., Chicago, Ill. Steepled radiant-heat steam boiler. 1,666,532; Apr. 17.
Hawley, Charles G., Chicago, Ill. Steam-boiler header. 1,666,566; Apr. 17.
Hawley, Charles G., Chicago, Ill. Radiant-heat steam boiler and setting. 1,666,567; Apr. 17.
Healy, James H. (See Ruff, D. C., 2d, and Healy.)
Healy, James H., et al. (See Ruff, D. C., 2d, and Healy, assignors.)
Healy, John A., et al. (See Ruff, D. C., 2d, and Healy, assignors.)
Heberlein Patent Corporation. (See Bodmer, Albert, assignor.)
Heck, Clarence P., and J. R. Sater, Hope, Ind. Envelope opener. 1,666,533; Apr. 17.
Hegerland, Mike, Woodville, Wis. Hay-loading device. 1,666,092; Apr. 17.
Heide, Henry, New York, N. Y. Pipe chain vise. 1,666,173; Apr. 17.
Heinle, Albert G., Crafton, assignor of three-eighths to T. A. McQuaide, Pittsburgh, Pa. Apparatus for making chains. 1,666,380; Apr. 17.
Heinrich Lanz Aktiengesellschaft. (See Huber, Fritz, assignor.)
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plural-channel secrecy system. 1,666,651; Apr. 17.
Hele-Shaw, Henry S., R. C. B. Stillman, and J. A. Pickard, London, England. Rotary filter. 1,666,381; Apr. 17.
Helmrich, Carl, New York, N. Y. Combined towel service and advertising device. 1,666,288; Apr. 17.
Henceroth, George C., Independence, Kans. Flowing gas wells. 1,666,779; Apr. 17.
Henderson, James W., and G. H. Wilson, Dunmore, Pa. Check holder. 1,666,820; Apr. 17.
Hendry Machine Company, The. (See Bouillon, Constant, assignor.)
Herrmann, Willy O. (See Baum, E., Deutsch, Herrmann, and Mugdan.)
Herzog, Robert. (See Pungs, L., and Herzog.)
Hess, Frank W., Freeport, Ill. Curtain stretcher. 1,666,622; Apr. 17.

Heuer, Henry, Cobb, Wis. Harvester. 1,666,137; Apr. 17.
Hickey, Daniel W., et al. (See Ruff, D. C., 2d, and Healy, assignors.)
Hickok Manufacturing Company. (See Houghtaling, Guy R., assignor.)
Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Toilet-accessory cabinet. 1,666,652; Apr. 17.
Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Metal box and cover. 1,666,653; Apr. 17.
Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag and like lock. 1,666,654; Apr. 17.
Hiester, Fay, Bremen, Ind. Merchandise-display unit. 1,666,821; Apr. 17.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens polisher. 1,666,701; Apr. 17.
Hinger, John A., D. B. Mayer, and J. Wilson, Cleveland, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich. Fluid-pressure control for presses. 1,666,449; Apr. 17.
Hinkle, Andy, Atlanta, Ga. Picker-stick check. 1,666,822; Apr. 17.
Hirsch, Alcan, et al. (See Frieden, Alexander, assignor.)
Hirsch, Edwin W., Chicago, Ill. Bladder-pressure-testing apparatus. 1,666,332; Apr. 17.
Hitt, Thomas G., Seattle, Wash. Revolving rocket. 1,666,534; Apr. 17.
Hitt, Thomas G., Seattle, Wash. Rocket. 1,666,598; Apr. 17.
Hochriem, Gustav F., assignor to Rhodes-Hochriem Manufacturing Co., Chicago, Ill. Weight-adjusting mechanism for weighting scales. 1,666,655; Apr. 17.
Hodges, James A. (See McFarland, Ernest H., assignor.)
Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expansible pipe joint. 1,666,495; Apr. 17.
Hodgson, William W., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Metal container. 1,666,702; Apr. 17.
Hoffman, Louis, Duluth, Minn., assignor, by mesne assignments, to Steam Pressing Iron Company. Pressing implement. 1,666,599; Apr. 17.
Hoffmeister, Halesia D., Los Angeles, Calif. Music chart. 1,666,382; Apr. 17.
Holden, Arthur P., and P. Morgan, Toronto, Ontario, Canada. Burning oil. 1,666,207; Apr. 17.
Holland, Elmer R., San Francisco, Calif. Golf putter. 1,666,174; Apr. 17.
Holley, Marion S., Enterprise, Kans. Self-locking chicken coop. 1,666,855; Apr. 17.
Holliday Life Saving Headlight Co. (See Holliday, Thomas C., assignor.)
Holliday, Thomas C., Canton, assignor to Holliday Life Saving Headlight Co., Jackson, Miss. Tiltable and dirigible headlight. 1,666,856; Apr. 17.
Hollowell, Everet, Kansas City, Kans. Piston kicker. 1,666,286; Apr. 17.
Holman, Arthur T., and P. M., Camborne, assignors to Holman Brothers Limited, Camborne, Cornwall, England. Rock drill and like tool. 1,666,383; Apr. 17.
Holman Brothers Limited. (See Holman, Arthur T. and P. M., assignors.)
Holman, Percy M. (See Holman, Arthur T. and P. M.)
Holweck, Fernand, Paris, France. Thermionic apparatus. 1,666,450; Apr. 17.
Honigmann, Ludwig, Bad Tolz, and F. Bartling, Munich, Germany. Ring oven with revolving hearth. 1,666,656; Apr. 17.
Hoover, Edgar B., Spokane, Wash. Tying device. 1,666,623; Apr. 17.
Hopkins, William R., St. Louis, Mo. Collapsible metal awning. 1,666,657; Apr. 17.
Hopkins, William W. (See McMurtrie, John F., assignor.)
Hornberger, Carl S., assignor to Central Scientific Company, Chicago, Ill. McLeod-type pressure gauge. 1,666,739; Apr. 17.
Horstkotte, Frederick W., Portland, Oreg. Stack shaper. 1,666,451; Apr. 17.
Houghtaling, Guy R., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Ornamented article and making the same. 1,666,138; Apr. 17.
Hoyt Heater Company. (See Hoyt, Robert C., assignor.)
Hoyt, Robert C., Oakland, assignor to Hoyt Heater Company, Los Angeles, Calif. Water-heater base. 1,666,093; Apr. 17.
Hoyt, Robert C., Oakland, assignor to Hoyt Heater Company, Los Angeles, Calif. Water-heater gas burner. 1,666,094; Apr. 17.
Huber, Charles J., Baltimore, Md. Furnace. 1,666,418; Apr. 17.
Huber, Fritz, assignor to Heinrich Lanz Aktiengesellschaft, Mannheim, Germany. Motor vehicle with horizontal engine. 1,666,208; Apr. 17.
Hubert, Barney A., Pine Lawn, Mo. Flower and plant box. 1,666,240; Apr. 17.
Hudson Coal Company, The. (See Cook, Thomas R., assignor.)
Hudson & Sharp Machine Company. (See Campbell, Samuel J., assignor.)
Hughes, Merrill H. (See Unglesby, Lewis H., assignor.)
Hughes Tool Company. (See MacDonald, Archie A., assignor.)
Hughes Tool Company. (See Wellensiek, Louis H., assignor.)
Hult, Oscar W., Stockholm, Sweden. Operating explosive engines. 1,666,384; Apr. 17.
Hunt, Fay, New York, N. Y. Derrick. 1,666,857; Apr. 17.
Hunt, J. Harold, assignor to Budd Wheel Company, Philadelphia, Pa. Heavy-duty disk-wheel structure. 1,666,703; Apr. 17.
Hunt, William F., New Brighton, N. Y., assignor to The Oxweld Railroad Service Company. Outdoor lamp. 1,666,209; Apr. 17.
Hunter, William N., Blanchester, Ohio. Combined hand bag and grip. 1,666,704; Apr. 17.
Hydraulic Brake Company. (See Bradbury, Clifford C., assignor.)
Hyrup, Hans K., Los Angeles, Calif. Wrench. 1,666,740; Apr. 17.
I. G. Farbenindustrie Aktiengesellschaft. (See Gaus, Wilhelm, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Gaus, W., and Wild, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Griessbach, R., and Eisele, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kuss, Ernst, assignor.)
Iceless Automatic Refrigerator Company. (See Jankus, Jack C., assignor.)
Indiana Lamp Corporation. (See Foster, Harry C., assignor.)
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Ingersoll-Rand Company. (See Lear, Earl B., assignor.)
Ingersoll-Rand Company. (See Mock, John F., assignor.)
Ingersoll-Rand Company. (See Smith, William A., Jr., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
Irvine, Malcolm M., Glasgow, Scotland. Generator for electric-arc welding. 1,666,452; Apr. 17.
Irving Iron Works Company. (See Voskamp, John A., assignor.)
Irwin, James B., Denver, Colo. Locomotive mover. 1,666,780; Apr. 17.
Iserman, Samuel, Summit, N. J., W. Vernet, and E. G. Moses, New York, N. Y., assignors, by mesne assignments, to F. J. Hull and L. B. Rattermann, Cincinnati, Ohio. Fuel for use in internal-combustion engines. Re16,937; Apr. 17.
Isoyama, Naokichi, Los Angeles, Calif. Collapsible tray for egg crates. 1,666,333; Apr. 17.
Israel, Elias, New York, N. Y. Apparatus for cutting hat sweat leathers. 1,666,658; Apr. 17.
Iversen, Trygve, Chicago, Ill. Milk-bottle container. 1,666,289; Apr. 17.
Jackson, Alvin L., Logan, Okla. Gum-stick holder. 1,666,095; Apr. 17.
Jackson, Avis, East St. Louis, Ill. Glare or light shield. 1,666,568; Apr. 17.
Jackson, Royal W., assignor to Glenco Products Company, Quincy, Ill. Hand duster. 1,666,096; Apr. 17.
Jacobs, Daniel B., Salt Lake City, Utah. Garter. 1,666,823; Apr. 17.
Jahn, Augustus H., Pittsburgh, Pa. Vacuum tube. 1,666,858; Apr. 17.
Jakopets, Gyruro E. B., assignor to J. Salley, Chicago, Ill. Permutation padlock. 1,666,453; Apr. 17.
Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 74,927; Apr. 17.
Jankus, Jack C., Scranton, Pa., assignor, by mesne assignments, to Iceless Automatic Refrigerator Company. Turning plug. 1,666,496; Apr. 17.
Jensen, Louis, assignor to United Autographic Register Company, Chicago, Ill. Autographic-register cash drawer. 1,666,385; Apr. 17.
Jett, George C., assignor of two-fifths to W. H. Stiemke, Milwaukee, Wis. Tractor steering mechanism. 1,666,210; Apr. 17.
Jodeck, Paul. (See Edeleanu, L., Pfeiffer, Gress, and Jodeck.)
Johnson, Alfred H., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,666,741; Apr. 17.
Johnson, Alfred H., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,666,742; Apr. 17.
Johnson, Allan R. P., Toronto, Ontario, Canada. Signal faceplate. 74,928; Apr. 17.
Johnson, Charles A., Sacramento, Calif. Automobile steering master. 1,666,386; Apr. 17.
Johnson, Hjalmar F., Bismarck, N. Dak. Fence-post puller. 1,666,454; Apr. 17.
Johnson, John A., Meriden, assignor to The Bassick Company, Bridgeport, Conn. Truck for stoves or the like. 1,666,139; Apr. 17.
Johnson, Otto W., assignor, by mesne assignments, to Krimpwire Company, Oakland, Calif. Self-furring plaster netting. 1,666,535; Apr. 17.
Johnson, Titian W., Potomac Beach, Va. Brief bag. 1,666,878; Apr. 17.
Johnson, Warren B., Lubbock, Tex. Short-stem milo-maize header. 1,666,824; Apr. 17.
Johnston, Andrew L., jr., assignor to Off'N'On Chain Corporation, Newark, N. J. Antiskid chain. 1,666,497; Apr. 17.
Johnston, Harry L., Indianola, Iowa. Ankle brace. 1,666,290; Apr. 17.

Jones, George I., Buffalo, N. Y., assignor to Oxweld Acetylene Company. Torch tip. 1,666,387; Apr. 17.
Jones, Rolland R., Minneapolis, Minn. Impression tray. 1,666,097; Apr. 17.
Jorden, John, Oakley, Kans. Power-operated wrench. 1,666,600; Apr. 17.
Julian, Evelyn. (See Tomasulo, Nestor N., assignor.)
Julihn, Louis G., Washington, D. C., assignor to Elliott-Fisher Company. Form-locating means. 1,666,140; Apr. 17.
Kadernaschka, William. (See Pruett, C. D., and Kadernaschka.)
Kamedish, Peter B., assignor of one-third to S. T. Starr and one-third to C. H. Forrester, ar., Winnipeg, Manitoba, Canada. Attachment to locomotive. 1,666,388; Apr. 17.
Kanowitz, Lena, New York, N. Y. Protective covering device. 1,666,601; Apr. 17.
Kaplan, Morris L., Hazelton, Pa. Shirt-making system. 1,666,291; Apr. 17.
Karbowiski, Victor. (See Feldheim, Felix S., assignor.)
Kaser, Walter I., assignor of one-third to T. G. Macpherson and one-third to W. E. Farver, Baltic, Ohio. Transmission. 1,666,781; Apr. 17.
Kaufman, Joseph S. (See Mackey, J. C., and Kaufman.)
Kaul, George P., Detroit, Mich. Bathing cap. 1,666,098; Apr. 17.
Keaton, Robert H., San Francisco, Calif. Tire. Des. 74,929; Apr. 17.
Kelch, James W., and J. J. Sunday, Detroit, Mich; said Sunday assignor to said Kelch. Register. 1,666,569; Apr. 17.
Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Windshield hinge. 1,666,211; Apr. 17.
Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Kempf, Henry, and A. Kiefer, Cincinnati, Ohio. Fishing-rod holder. 1,666,705; Apr. 17.
Kendall, William G., Newark, N. J. Powder press. 1,666,212; Apr. 17.
Kennedy, Elmer M., assignor to Briggs Manufacturing Company, Detroit, Mich. Window guide. 1,666,175; Apr. 17.
Kenkyujo, Zaidan H. R. (See Okochi, M., and Ebihara, assignors.)
Kersten, Jacob, Allegan, Mich. Sound-amplifying construction. 1,666,570; Apr. 17.
Kersten, Jacob, Kalamazoo, Mich. Sound-amplifying horn. 1,666,571; Apr. 17.
Key, James F., Sierra Madre, assignor to First Trust & Savings Bank of Pasadena, trustee, Pasadena, Calif. Piston-pressure gauge. 1,666,419; Apr. 17.
Kiefer, Albert. (See Kempf, H., and Kiefer.)
Kilbride, John J., Scotch Plains, N. J. Window cleaner. 1,666,782; Apr. 17.
King, Edwin D., jr., Valdosta, Ga. Sterilizer. 1,666,825; Apr. 17.
Kingman, Russell B., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Decorative ornament. 1,666,099; Apr. 17.
Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Master radial-drill speed box. 1,666,422; Apr. 17.
Klee Josef, and A. Schneider, Munich, Germany. Lifting jack for vehicles. 1,666,455; Apr. 17.
Klein, Juan, St. Louis, Mo. Piston-cleaning tool. 1,666,572; Apr. 17.
Kleinhammer, William H. (See Morehouse, F. B., and Kleinhammer.)
Kleinsmith, Frederick, Indianapolis, Ind., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Operating means for automobile door latches. Re16,938; Apr. 17.
Klopsteg, Paul E., assignor to Central Scientific Company, Chicago, Ill. McLeod-type pressure gauge. 1,666,743; Apr. 17.
Knudsen, Carl H., Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del. Work-piece-supporting fixture for turning machines. 1,666,292; Apr. 17.
Knudsen Motor Corporation, The. (See Knudsen, Carl H., assignor.)
Kobe, Inc. (See Coberly, Clarence J., assignor.)
Koretzky, Harry M., assignor to Bright Star Battery Company Inc., Hoboken, N. J. Flash light. 1,666,420; Apr. 17.
Kothny, Gottdank L., Strafford, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Ejector control. 1,666,141; Apr. 17.
Kraft, Abraham, Farmington, Minn. Grain-harvester attachment. 1,666,706; Apr. 17.
Krantz, Hubert, Aachen, Germany. Device for returning water of condensation to boilers. 1,666,573; Apr. 17.
Krause, Joseph W., Brooklyn, N. Y. Brassière. 1,666,421; Apr. 17.
Kraut, Max, assignor to New England Panama Hat Company Inc., New York, N. Y. Flexible straw hat. 1,666,875; Apr. 17.
Kravitt, Irwin H., Philadelphia, Pa. Lamp stand. Des. 74,930; Apr. 17.
Krenke, Otto A., assignor of one-half to E. L. Powers, Port Huron, Mich. Shock absorber. 1,662,259; Apr. 17.
Kries, John, Brooklyn, N. Y. Locking device. 1,666,783; Apr. 17.
Krimpwire Company. (See Johnson, Otto W., assignor.)
Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Soldering machine. 1,666,707; Apr. 17.
Kunin, Paul, Minneapolis, Minn. Hair-curling apparatus. 1,666,574; Apr. 17.
Kuss, Ernst, Mannheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of paraformaldehyde. 1,666,708; Apr. 17.
Kvare, Olea, McIntosh, Minn. Clothes carrier. 1,666,536; Apr. 17.
Ladd, George T., Pittsburgh, Pa., assignor to Ladd Water Tube Boiler Company, New York, N. Y. Boiler. 1,666,659; Apr. 17.
Ladd Water Tube Boiler Company. (See Ladd, George T., assignor.)
Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Gas-absorption apparatus. 1,666,744; Apr. 17.
La Joie, Hubert J., East Orange, N. J., Urquhart and F. Pokorny, assignors to Auto Pneumatic Action Company, New York, N. Y. Expression-controlling mechanism for pneumatically-operated musical instruments. 1,666,602; Apr. 17.
Lake, James, jr., Brooklyn, N. Y. Crossbar for motor-cycle handlebars. Des. 74,931; Apr. 17.
Lake, James, jr., Brooklyn, N. Y. Stabilizer for motor-cycle front forks. Des. 74,932; Apr. 17.
Lambert, Edmond H. (See Skinner, R. L., and Lambert.)
Lambert, Helen H., executrix. (See Lambert, Henry M.)
Lambert, Henry M., deceased, Portland, Oreg.; H. H. Lambert, executrix. Making pneumatic tires. 1,666,883; Apr. 17.
Lammens, Robert B., Los Angeles, Calif. Staining and hardening concrete and the like. 1,666,423; Apr. 17.
Lampre, Celestin, Cleveland, Ohio. Equalizing mechanism for four-wheel brakes. 1,666,881; Apr. 17.
Lancaster, John S. (See Burn, J. F., and Lancaster.)
Lane, James H., assignor of one-half to H. C. Campbell, Benton Harbor, Mich. Rotatable tool and feeding mechanism therefor. 1,666,624; Apr. 17.
Lansingh, Van R. (See Mackey, J. C., and Kaufman, assignors.)
Lantz, Robert, Paris, and A. Wahl, Enghien, assignors of one-half to Societe Anonyme des Matieres Colorantes & Produits Chimiques de Saint-Denis, Paris, France. Manufacture of new derivatives of naphthoquinones. 1,666,241; Apr. 17.
La Porte, Joseph, Lomita, Calif. Parachute container and ejector for aeroplanes. 1,666,456; Apr. 17.
Larkin, Walter, Norristown, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Vertical striper for wire-circular-rib-knitting machines. 1,666,784; Apr. 17.
Larrowe Milling Company. (See Wertenbruch, Antony, assignor.)
Larson, Charles, Chicago, Ill. Scraper. 1,666,334; Apr. 17.
Laschinger, Edgar J. (See Furnivall, W. H. G., McLaren, and Laschinger.)
Lauer, Frederick W., Chicago, Ill. Flask. Des. 74,933; Apr. 17.
Laurence, I. D. (See Clark, Walter B., assignor.)
Lavick, Samuel B., Chicago, Ill. Combined display stand and case. Des. 74,934; Apr. 17.
League, Robert A., Greenville, S. C. Price-tag holder and attaching device. 1,666,859; Apr. 17.
Lear, Earl B., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer for rock drills. 1,666,176; Apr. 17.
Lederer, Henry, & Bro., Inc. (See Butler, William J., assignor.)
Lee, Robert E., Cincinnati, Ohio. Gravity-feed bottle cooling and dispensing cabinet. 1,666,575; Apr. 17.
Leet, Lynn T., Montreal, Quebec, Canada. Coin-controlled mechanism for use with vending machines. 1,666,242; Apr. 17.
Leiper, John, assignor to New York Mills Corporation, New York Mills, N. Y. Pile fabric. Des. 74,935; Apr. 17.
Leitch, William B., et al. (See Ruhren, John J., assignor.)
Leland, George H., Dayton, Ohio. Brush lifter for electric motors or the like. 1,666,457; Apr. 17.
Leland, George H., Dayton, Ohio. Centrifugal device. 1,666,458; Apr. 17.
Leland, George H., Dayton, Ohio. Brush-lifting mechanism for electric motors or the like. 1,666,459; Apr. 17.
Lemay, Arthur, Brooklyn, N. Y. Eyeglasses. 1,666,826; Apr. 17.
Lentz, Richard, Los Angeles, Calif. Automatic slicing, toasting, and buttering machine. 1,666,335; Apr. 17.
Leslie, John W., Evanston, assignor to Consolidated Steel Strapping Company, Chicago, Ill. Loading freight cars. 1,666,213; Apr. 17.
Letchford, Percy H., Winnipeg, Manitoba, Canada. Heel for boots or shoes. 1,666,603; Apr. 17.
Leventhal, Mitchell, Brooklyn, N. Y. Lock frame or similar article. Des. 74,936; Apr. 17.

Lewis, C. W., Glenside, assignor to L. H. Gilmer Co., Philadelphia, Pa. Portable merchandising case. 1,666,537; Apr. 17.
Lindemann, Clarence W., assignor to Chicago Pump Company, Chicago, Ill. Float-operated electric-switch-actuating mechanism. 1,666,498; Apr. 17.
Ling, Stephen G., Spokane, Wash. Piston-ring tool. 1,666,460; Apr. 17.
Little, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Coating cores. 1,666,214; Apr. 17.
Logsdon, Sanford A. (See Craig, M. A., Steen, and Logsdon.)
Lord, Charles A., Los Angeles, Calif. Apparatus for sinking oil wells. 1,666,461; Apr. 17.
Lorenz, C., Aktiengesellschaft. (See Pungs, L., and Herzog, assignors.)
Lorton, Frank D., St. Louis, Mo., assignor to E. Nathan, trustee. Camp-fire outfit. 1,666,293; Apr. 17.
Lösel, Franz, Brunn, Czechoslovakia. Elastic-fluid multistage disk-wheel turbine. 1,666,625; Apr. 17.
Lösel, Franz, Brunn, Czechoslovakia. Elastic-fluid turbine. 1,666,626; Apr. 17.
Lösel, Franz, Brunn, Czechoslovakia. High-pressure-turbine casing or housing. 1,666,627; Apr. 17.
Lösel, Franz, Brunn, Czechoslovakia. Method and device for determining the expansion line of steam turbines. 1,666,628; Apr. 17.
Loud, George A., assignor to Loud Slide Valve Engine Co., Fitchburg, Mass. Cam mechanism for actuating valves. 1,666,709; Apr. 17.
Loud, George A., Brookline, assignor to Loud Slide Valve Engine Co., Fitchburg, Mass. Internal-combustion engine. 1,666,710; Apr. 17.
Loud Slide Valve Engine Co. (See Loud, George A., assignor.)
Lovis, William. (See Tully, E. E., and Lovis.)
Lucas, Francis F., East Orange, N. J. Photomicrographic camera. 1,666,499; Apr. 17.
Lumb, Louis N., Astoria, N. Y. Bed lock. 1,666,424; Apr. 17.
Lumley, Frank E., Omaha, Nebr. Valve. 1,666,629; Apr. 17.
Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Gas producer. 1,666,604; Apr. 17.
Lundberg, Nils I., assignor to Gisholt Machine Company, Madison, Wis. Metal-working tool. 1,666,500; Apr. 17.
Lynds, Fred H., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh machine. 1,666,745; Apr. 17.
Lyon, Claude A., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,666,260; Apr. 17.
Lytle, Robert W., assignor to The Formica Insulation Company, Cincinnati, Ohio. Silent gear and method of manufacture. 1,666,576; Apr. 17.
M S Co. (See Nitel, Frederick W., assignor.)
Maag, August, Company, The. (See Will, A. J., and Feldman, assignors.)
MacDonald, Archie A., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex. Rolling milling tool. 1,666,711; Apr. 17.
Mackey, James C., Paterson, N. J., and J. S. Kaufman, New York, assignors of one-third to V. Lansingh, Pelham, N. Y. Treating silk. 1,666,501; Apr. 17.
Macpherson, Thomas G., et al. (See Kaser, Walter I., assignor.)
Maier, George, Evansville, Ind. Combination desk and dressing table. Des. 74,937; Apr. 17.
Makin, John S., Philadelphia, Pa. Auxiliary water heater. 1,666,660; Apr. 17.
Mallard, Logan L., Norfolk, Va. Toy target game. 1,666,336; Apr. 17.
Mallory, Bonnie L., Cleveland Heights, Ohio. Shock absorber. 1,666,261; Apr. 17.
Malone, James G. (See Donner, J. A., and Malone.)
Mancos, George E., Richmond, Va. Inner-tube tester. 1,666,712; Apr. 17.
Mander, James L., Winnipeg, Manitoba, Canada. Cup and saucer. 1,666,389; Apr. 17.
Mann, Frederick E., Cherrydale, Va. Crystal detector. 1,666,462; Apr. 17.
Mann, Regina, New London, Conn. Citrus-fruit-serving dish. Des. 74,938; Apr. 17.
Manning, Edward, assignor to Manning Manufacturing Company, Rutland, Vt. Drip valve. 1,666,243; Apr. 17.
Manning Manufacturing Company. (See Manning, Edward, assignor.)
Maranda, Vincent, Montreal, Quebec, Canada. Tooth extractor. 1,666,860; Apr. 17.
March, Carl, Chicago, Ill. Flycatcher. 1,666,785; Apr. 17.
Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Dial indicator for gasoline pumps, etc. 1,666,100; Apr. 17.
Marley, Donald, Los Angeles, Calif. Vehicle brake system. 1,666,390; Apr. 17.
Martin, Ida K., Minneapolis, Minn. Flag stand. Des. 74,939; Apr. 17.
Marvel Carbureter Company, The. (See Redmond, Albert G., assignor.)
Marvin, Ward W., Royal Oak, Mich. Internal-combustion engine. 1,666,295; Apr. 17.
Massey Concrete Products Corporation. (See Alexander, Earl C., assignor.)
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Seat. 1,666,391; Apr. 17.
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Seat. 1,666,392; Apr. 17.
Mattes, Leo A., Berkeley, Calif. Insect-poison feeder. 1,666,538; Apr. 17.
Maxson, Joe E. (See Essex, F. C., and Maxson.)
May, Otto A., Albuquerque, N. Mex. Lock. 1,666,786; Apr. 17.
Mayer, David B. (See Hinger, J. A., Mayer, and Wilson.)
Mayhood, Reginald G. W., San Leandro, Calif. Combination ventilator and canopy. 1,666,101; Apr. 17.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Fluid-abradant-supplying means. 1,666,713; Apr. 17.
Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Bevel-edging machine. 1,666,746; Apr. 17.
McCabe, Frank E., Chagrin Falls, assignor to The Rathbone Machine Company, Cleveland, Ohio. Molding machine. 1,666,577; Apr. 17.
McCabe, Frank E., Chagrin Falls, assignor to The Rathbone Machine Company, Cleveland, Ohio. Automatic control for the ramming heads of molding machines. 1,666,578; Apr. 17.
McCallum Hosiery Company. (See Egan, J. J., and Gregor, assignors.)
McCarthy, Daniel J., Elgin, assignor to Chicago Railway Signal & Supply Company, Carpentersville, Ill. Signal-light-supporting structure. 1,666,102; Apr. 17.
McCormick Bros. Company. (See Ostler, Clarence M., assignor.)
McCrink, Patrick J., Detroit, Mich. Rim spreader. 1,666,142; Apr. 17.
McDade, James E., Chicago, Ill. Memorization device. 1,666,337; Apr. 17.
McDonald, James, assignor to White Fuel Oil Engineering Corporation, New York, N. Y. Liquid-fuel-burning furnace. 1,666,747; Apr. 17.
McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Sandwich tray or similar article. Des. 74,940; Apr. 17.
McFarlan, Kenneth S., Pewee Valley, Ky. Scooter. 1,666,827; Apr. 17.
McFarland, Ernest H., assignor of one-half to J. A. Hodges, Louisburg, N. C. Air testing and inflating means. 1,666,861; Apr. 17.
McGilvray, Bernard, Quincy, Mass. Wrench. 1,666,103; Apr. 17.
McGogy, Donald H., McMinnville, Oreg. Pump. 1,666,463; Apr. 17.
McHenry, Nell E., Denison, Iowa. Road signal. 1,666,862; Apr. 17.
McLaren, David B. (See Furnivall, W. H. G., McLaren, and Laschinger.)
McLaughlin, Bernard E., Melrose Park, Ill. Adjustable straightedge. 1,666,244; Apr. 17.
McLellan, Joseph R., Wichita, Kans. Money till. 1,666,605; Apr. 17.
McMurtrie, John F., assignor of one-half to W. W. Hopkins, Springfield, Mass. Steering gear for motor vehicles. 1,666,104; Apr. 17.
McNiel, D. S. (See Essex, F. C., and Maxson, assignors.)
McQuaide, Thomas A. (See Heinle, Albert G., assignor.)
Mecklenburg, John C., Hancock, Minn. Cultivator shovel. 1,666,393; Apr. 17.
Mellor, Joseph W., Stoke-on-Trent, England. Manufacture of pottery or the like. 1,666,828; Apr. 17.
Mergott, J. E., Co. (See Hiering, William C., assignor.)
Merrick, Frank W., Boston, Mass. Sewing machine. 1,666,177; Apr. 17.
Merrill, Charles F., assignor to Draper Corporation, Hopedale, Mass. Spinning-ring traveler. 1,666,714; Apr. 17.
Metal Textile Corporation. (See Kingman, Russell B., assignor.)
Metzger, Richard, Heidelberg, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing preparation for cellulose esters. 1,666,715; Apr. 17.
Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,666,338; Apr. 17.
Meyer, Percy B., London, England. Rail anchor or anti-creep device for railway rails. 1,666,716; Apr. 17.
Meyrowitz, E. B., Inc. (See Cook, William N., assignor.)
Michelin, André J., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Pneumatic-pressure gauge. 1,666,787; Apr. 17.
Michelin et Cie. (See Michelin, André J., assignor.)
Michell, Anthony G. M., assignor to Crankless Engines Limited, Melbourne, Victoria, Australia. Swash plate or slant-type reciproco-rotary mechanism. 1,666,539; Apr. 17.
Mickley, Joseph K., Western Springs, Ill., assignor to The Union Switch & Signal Company, Swissvale, Pa. Motor-controlling apparatus. 1,666,748; Apr. 17.
Miglin, Ben E., Archbald, Pa. Roaster. 1,666,394; Apr. 17.

Milliard, F. C., Engineering Company. (See Clements, Thomas H., assignor.)
Miller, Henry J., San Francisco, Calif. Sanitary receptacle for cigar, cigarette, and match stubs. 1,666,215; Apr. 17.
Miller, Louallen F., Minneapolis, Minn. Luminescent fuse plug. 1,666,339; Apr. 17.
Miller, Louis S., Los Angeles, Calif. Apparatus for sharpening handsaws. 1,666,395; Apr. 17.
Miller, S. E., trustee. (See Shiek, Daniel W., assignor.)
Miller, Tillie, Cheyenne, Wyo. Composition of matter for use in edging fabrics. 1,666,143; Apr. 17.
Miller, Wesley H. (See Young, J. H., and Miller.)
Mills, Harry A., and W. D. Pyle, Denver, Colo. Sound transmitter. 1,666,262; Apr. 17.
Mills Novelty Company. (See Peterson, Oscar, assignor.)
Mitchell, Robert B., assignor to Union Steel Products Company, Albion, Mich. Anchoring element for concrete construction. 1,666,340; Apr. 17.
Mock, John F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,666,425; Apr. 17.
Moffett, Patrick F., Worcester, Mass. Implement for teaching fingering. 1,666,464; Apr. 17.
Mohawk Corporation of Illinois. (See Chamberlain, Paul A., assignor.)
Möller, Franz, Zella-Mehlis, M. Moritz, and A. Gerstenberger, Chemnitz, Germany. Scaring pistol. 1,666,579; Apr. 17.
Monosmith, Clayton E. and D. J., Spencer, and O. B. Monosmith, Lorain, assignors of one-fourth to G. W. Saywell, Cleveland, Ohio. Carburetor. 1,666,296; Apr. 17.
Monosmith, David J. (See Monosmith, Clayton E., D. J., and O. B.)
Monosmith, Olney B. (See Monosmith, Clayton E., D. J., and O. B.)
Moore, George L., Chicago, Ill. Pumping lubricating cup. 1,666,502; Apr. 17.
Moore, James D. (See Campbell, James H., assignor.)
Morehouse, Frank B., and W. H. Kleinhammer, San Francisco, Calif., assignors to Trayway Mfg. Co. Wringer. 1,666,749; Apr. 17.
Morgan Construction Company. (See Lummis, Charles W., assignor.)
Morgan Knitting Mills. (See Goetze, Albin F., assignor.)
Morgan, Philip. (See Holden, A. P., and Morgan.)
Moritz, Martin. (See Möller, F., Moritz, and Gerstenberger.)
Morton, Edmund R., assignor to Western Electric Company, Incorporated, New York, N. Y. Inductance coil. 1,666,661; Apr. 17.
Morton Manufacturing Company. (See Smouse, John B., assignor.)
Moses, Edmund Q. (See Iserman, S., Vernet, and Moses.)
Mosler, Arthur R., New York, N. Y. Box. 1,666,105; Apr. 17.
Motor Products Corporation. (See Kellogg, Homer G., assignor.)
Mowat, James R., Kearny, assignor to The Clark Thread Company, Newark, N. J. Support for thread cops. 1,666,216; Apr. 17.
Mugdan, Martin. (See Baum, E., Deutsch, Herrmann, and Mugdan.)
Muller, Curt B. (See Arnt, Herald P., assignor.)
Munters, Carl G. (See Von Platen, B. C., and Munters.)
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Music Master Corporation. (See Zilger, Arno, assignor.)
Myers, Lewis E., Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and H. H. Rockwell, trustees. Portable combination desk. 1,666,263; Apr. 17.
Myers, Marion C., Tenino, Wash. Tire boot or patch. 1,666,863; Apr. 17.
N. V. Philips' Gloeilampenfabrieken. (See de Boer, Jan H., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Coster, D., and von Heveesy, assignors.)
N. V. Philips' Gloeilampenfabrieken. (See Van Arkel, A. E., and de Boer, assignors.)
Nadel, Harry, New York, N. Y. Holding device. 1,666,662; Apr. 17.
Nagel, Theodore, Brooklyn, N. Y. Fuel material. 1,666,663; Apr. 17.
Nagin, Harry, assignor to The Tri-Lok Company, Pittsburgh, Pa. Trend carrier. 1,666,341; Apr. 17.
Nancolas, William L., Modesto, Calif. Hair-waving implement. 1,666,217; Apr. 17.
Nathan, Albert F. (See De Leeuw, Adolph L., assignor.)
Nathan, Emil, trustee. (See Lorton, Frank D., assignor.)
National Paper Can Company, The. (See Annen, James E., assignor.)
National Sales Machine Company. (See Fry, Benjamin L., assignor.)
National Standard Company. (See Johnson, Alfred H., assignor.)
National Tube Company. (See Weller, George L., assignor.)
Nelson, Elnathan K., Takoma Park, Md., assignor to The Government and the People of the United States of America. Manufacture of thymal from umbelluione. 1,666,342; Apr. 17.
Neptune Meter Company. (See Marden, William L., assignor.)
Neuls, Joseph D., Los Angeles, Calif., assignor to California Cyanide Company, Inc., New York, N. Y. Dispensing apparatus. 1,666,178; Apr. 17.
Neuvert, David, Herington, Kans. Concrete-tile-manufacturing machine. 1,666,606; Apr. 17.
New England Panama Hat Company Inc. See Kraut, Max, assignor.)
Newlin, James C., jr., Bryn Mawr, Pa. Watch holder. 1,666,664; Apr. 17.
New Martinsville Glass Mfg. Co. (See McEldowney, Robert E., assignor.)
New York Mills Corporation. (See Leiper, John, assignor.)
News Projection Corporation. (See Proctor, Barton A., assignor.)
Nieberding, Anthony A., Brookpark, Ohio. Heater. Des. 74,941; Apr. 17.
Niethamer, Edward, Bay City, Mich. Street indicating and announciating device. 1,666,503; Apr. 17.
Nittel, Frederick W., Attleboro Falls, assignor to M S Co., Attleboro, Mass. Watch bracelet end hook. 1,666,864; Apr. 17.
Noble, Arthur H., Pawtucket, R. I., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Vanity case. Des. 74,942; Apr. 17.
Noll, Theobald H., Bronx, N. Y., assignor to A. J. Dispenza. Electrical steam generation. Re16,935; Apr. 17.
Norman, Max, Brooklyn, N. Y. Spoon. 1,666,106; Apr. 17.
Normandale, Clarence L., Yeovil, England. Top for motor vehicles. 1,666,297; Apr. 17.
Norris, Arthur J., Greenwich, Conn. Curtain ring. 1,666,298; Apr. 17.
Norris, Charles C., Riverside, Calif. Ventilating seat for toilet bowls. 1,66,465; Apr. 17.
Northern Trust Company, The, et al. (See Myers, Lewis E., assignor.)
Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Clutch mechanism for looms. 1,666,717; Apr. 17.
Norton, Stuart E. (See Shevlin, J. P., and Norton.)
Nystrom, Karl F., Chicago, Ill. Car construction. 1,666,299; Apr. 17.
Off'N'On Chain Corporation. (See Johnston, Andrew L., jr., assignor.)
Okochi, Masatosi, and K. Ebihara, assignors to Z. H. R. Kenkyujo, Tokyo, Japan. Manufacturing piston rings. 1,666,343; Apr. 17.
Olaneta, Harold, Brooklyn, N. Y. Flash light. 1,666,264; Apr. 17.
Olson, Jens, Lewiston, Idaho. Wheel tightener. 1,666,829; Apr. 17.
Oneida Community, Limited. (See Purchas, Frederick A., assignor.)
Orange Lighting Fixture Manufacturing Co. (See Seidell, Alfred P., assignor.)
Orsett, Coy, Boston, Mass. Combined automobile body and hood. Des. 74,943; Apr. 17.
Osborn, Jesse C., assignor to Grigsby-Grunow-Hinds Co., Chicago, Ill. Connection for timing devices for automobiles. 1,666,665; Apr. 17.
Osborne, John L. (See Buchanan, G. H., and Osborne.)
Ostler, Clarence M., Fort Wayne, assignor to McCormick Bros. Company, Albany, Ind. Sifter. 1,666,830; Apr. 17.
Overbury, Frederick C. (See Rahr, C. E., and Overbury.)
Ovestrud, Melvin, assignor of one-half to Twin City Forge & Foundry Company, Stillwater, Minn. Tie-plate punching and shearing press. 1,666,344; Apr. 17.
Ovestrud, Melvin, assignor of one-half to Twin City Forge & Foundry Company, Stillwater, Minn. Bending press for tie-plate flanges. 1,666,345; Apr. 17.
Oxweld Acetylene Company. (See Jones, George I., assignor.)
Oxweld Railroad Service Company, The. (See Hunt, William F., assignor.)
Packer, Eldredge H., San Francisco, Calif. Piston ring. 1,666,750; Apr. 17.
Page, Albert E. (See Scott, R. W., and Page.)
Page, Charles E., Los Angeles, Calif. Coffee maker. 1,666,070; Apr. 17.
Pagendarm, John F. (See Shannon, J. W., and Pagendarm.)
Palumbo, Joseph J., Astoria, N. Y. Game device. 1,666,788; Apr. 17.
Pandolfo, Carmelo, Montevideo, Uruguay. Electric heater. 1,666,831; Apr. 17.
Paramount Bedding Machine Co., of Boston. (See Baker, Phillip, assignor.)
Park, John H., Harrisburg, Pa. Screen. 1,666,580; Apr. 17.
Parker, C. Paul, trustee. (See Ekstrom, Gustaf H., assignor.)
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Bolt guide. 1,666,751; Apr. 17.
Paul, Jennie H. (See Paul, William R. and J. H.)

Paul, William R. and J. H., Amarillo, Tex. Combined mop and wringer. 1,666,346; Apr. 17.
Pavia, Luigi, Allentown, Pa. Shuttle. 1,666,540; Apr. 17.
Peerless Machine Corporation. (See Scovill, James P., assignor.)
Peets, Elbert, Cleveland, Ohio. Closing cavities in trees. 1,666,245; Apr. 17.
Peirce, John R., 3d, and G. M. Andrews, 2d, Phoenixville, Pa. Flower sconce or similar article. Des. 74,944; Apr. 17.
Pelton, Louis, Chicago, Ill. Bathing suit. 1,666,504; Apr. 17.
Pender, Harold, Philadelphia, Pa. Engine-starting apparatus. 1,666,396; Apr. 17.
Perl, Albert H. F., and R. H. Carter, Ladbroke Grove, London, England. Hand-operated shearing device. 1,666,832; Apr. 17.
Perryman Electric Company. (See Perryman, George H., assignor.)
Perryman, George H., assignor to Perryman Electric Company, Inc., New York, N. Y. Grid for vacuum tubes. 1,666,071; Apr. 17.
Pescara, Raul P., Paris, France, assignor to The Pescara & Raymond Corporation, Dover, Del. Motor-compressor apparatus. 1,666,630; Apr. 17.
Pescara & Raymond Corporation, The. (See Pescara, Raul P., assignor.)
Peters, Edward C., Detroit, Mich. Rotary pump. 1,666,466; Apr. 17.
Peterson, Alfred T., Crooked Rivers, Saskatchewan, Canada. Vehicle braking mechanism. 1,666,349; Apr. 17.
Peterson, Glenn M. (See Blincoe, Felix H., assignor.)
Peterson, John M., Milwaukee, Wis. Radio appliance. 1,666,505; Apr. 17.
Peterson, Joseph A., College Station, Tex. Pliers. 1,666,467; Apr. 17.
Peterson, Oscar, assignor to Mills Novelty Company, Chicago, Ill. Brake device. 1,666,144; Apr. 17.
Petri, Gunther H., Boston, Mass. Forming machine. 1,666,752; Apr. 17.
Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Process and apparatus for separating gasoline from crude oil. 1,666,300; Apr. 17.
Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Process and apparatus for distilling mineral oil. 1,666,301; Apr. 17.
Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Process and apparatus for distilling mineral oil. 1,666,302; Apr. 17.
Pew, Joseph N., jr., Ardmore, assignor to Sun Oil Company, Philadelphia, Pa. Oil tank. 1,666,666; Apr. 17.
Pew, Joseph N., jr., Ardmore, assignor to Sun Oil Company, Philadelphia, Pa. Oil tank. 1,666,667; Apr. 17.
Pfeiffer, Karl. (See Edeleanu, L., Pfeiffer, Gress, and Jodeck.)
Pfersch, Clarence L. (See Zomnir, J. E., and Pfersch.)
Phelix, Otto E., Tully, N. Y. Globe manipulator. 1,666,468; Apr. 17.
Phenix Lace Mills. (See Dodd, Alphonse M., assignor.)
Phillips, Arthur H., Hempstead, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding sales book. 1,666,506; Apr. 17.
Phillips, John X., jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield clearner. 1,666,107; Apr. 17.
Phillips, John X., jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,666,108; Apr. 17.
Platt, James L., assignor to P. S. Warriner, Wilkes-Barre, Pa. Tire-chain clip. 1,666,397; Apr. 17.
Pickard, Joseph A. (See Hele-Shaw, H. S., Stillman, and Pickard.)
Pierce, George W., Lincoln, Nebr. Visible toaster. 1,666,398; Apr. 17.
Pitt, William L., Cleveland, Ohio. Dusting apparatus. 1,666,350; Apr. 17.
Platt, Archie W., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Continuous glass-polishing means. 1,666,347; Apr. 17.
Platt, Joseph, Detroit, Mich. Amplifier. 1,666,303; Apr. 17.
Playfoot, Edward J., Galeton, Pa. Game. 1,666,718; Apr. 17.
Pobanz, George W., Geneseo, Ill. Belt-applying tool. 1,666,789; Apr. 17.
Pokorny, Frank. (See La Joie, H. J., Urquhart, and Pokorny.)
Powers, Ernest L. (See Krenke, Otto A., assignor.)
Price, Sidney L., London, England. Lamp for use on motor vehicles and for other purposes. 1,666,876; Apr. 17.
Privott, John H., and B. C. Williams, Norfolk, Va. Grate. 1,666,790; Apr. 17.
Proctor, Barton A., assignor, by mesne assignments, to News Projection Corporation, New York, N. Y. Projecting machine. 1,666,304; Apr. 17.
Proctor, Barton A., assignor to News Projection Corporation, New York, N. Y. News-projection machine. 1,666,305; Apr. 17.
Proctor, Barton A., assignor to News Projection Corporation, New York, N. Y. Tension control for ticker tape. 1,666,306; Apr. 17.
Proctor, Barton A., assignor to News Projection Corporation, New York, N. Y. Jump-absorbing mechanism. 1,666,307; Apr. 17.
Proctor, Barton A., assignor to News Projection Corporation, New York, N. Y. Mechanism for controlling the tension of ticker tape. 1,666,308; Apr. 17.
Prosperity Company, The. (See Clisson, Albert B., assignor.)
Pruett, Curtis D., Dallas, and W. Kadernaschka, Troup, Tex. Railway cattle guard. 1,666,348; Apr. 17.
Pudaloff, Joseph. (See Zica, John, assignor.)
Puffe, Henry D., Seattle, Wash. Auto carrier rack 1,666,507; Apr. 17.
Pungs, Leo, and R. Herzog, Berlin, assignors to C. Lorenz Aktiengeselischaft, Berlin-Tempelhof, Germany. High-frequency telegraphing apparatus. 1,666,753; Apr. 17.
Purchas, Frederick A., McGraw, assignor to Oneida Community, Limited, Oneida, N. Y. Tray or the like. 1,666,668; Apr. 17.
Pure Oil Company, The. (See Harnsberger, Audley E., assignor.)
Pyle, William D. (See Mills, H. A., and Pyle.)
Quinn, James A., Montreal, Quebec, Canada. Curling iron. 1,666,469; Apr. 17.
Radel, John J., Newark, N. J. Telephone instrument. 1,666,399; Apr. 17.
Radio Corporation of America. (See Ashbridge, Noel, assignor.)
Radio Corporation of America. (See Clough, Newsome H., assignor.)
Radio Patents Corporation. (See Schmierer, Johannes M., assignor.)
Rahe, William, Cincinnati, Ohio. Automobile bumper. 1,666,754; Apr. 17.
Rahr, Chester E., Brookline, Mass., and F. C. Overbury, Hillsdale, N. J. Roofing. 1,666,755; Apr. 17.
Rainaud, Henry E., Meriden, Conn. Process and apparatus for spinning metal tubes. 1,666,581; Apr. 17.
Ranger, Arthur W., London, England. Sheet-delivery apparatus for use on printing machines. 1,666,246; Apr. 17.
Rassmann, F., Manufacturing Company. (See Rassmann, Hugo C., assignor.)
Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Water-bowl construction for cattle. 1,666,791; Apr. 17.
Rathbone Machine Company, The. (See McCabe, Frank E., assignor.)
Rattermann, L. B., et al. (See Iserman, S., Vernet, and Moses, assignors.)
Ray, John N., assignor, by mesne assignments, to Brandes Laboratories, Inc., Newark, N. J. Magnometer. 1,666,309; Apr. 17.
Raymond, Achille F., Grenoble, France. Fastening button. 1,666,582; Apr. 17.
Reaves, William P., Greensboro, N. C. Reflecting and refracting device for stereoscopes. 1,666,145; Apr. 17.
Reaves, William P., Greensboro, N. C. Reflecting and refracting device for stereoscopes. 1,666,146; Apr. 17.
Redmond, Albert G., Indianapolis, Ind., assignor to The Marvel Carbureter Company, Flint, Mich. Air heater for charge-forming devices. 1,666,147; Apr. 17.
Reeves, Dache M., Lee Hall, Va. Precision altimeter. 1,666,179; Apr. 17.
Regan Safety Devices Company, The. (See Lyon, Claude A., assignor.)
Remington Typewriter Company. (See Barney, Edwin E., assignor.)
Remondy, Léon E., Paris, France. Percussion fuse. 1,666,792; Apr. 17.
Research Corporation. (See Auspitzer, Alfred J., assignor.)
Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Perfume bottle and cap. 1,666,541; Apr. 17.
Rhodes-Hochriem Manufacturing Co. (See Hochriem, Gustav E., assignor.)
Rhodes, William A., and A. Bankoff, Brooklyn, N. Y. Radiant-energy collector for aerials. 1,666,834; Apr. 17.
Rhodes, William A., and D. Bellar, Brooklyn, N. Y. Vacuum tube. 1,666,883; Apr. 17.
Rice, George D. (See Biek, W. G., and Rice.)
Rice, Mary E. (See Snyder, Harry F., assignor.)
Rick, Herbert R., Kent, Ohio. Grave vault. 1,666,148; Apr. 17.
Riker, Andrew L., Fairfield, Conn. Ventilator. 1,666,218; Apr. 17.
Robbins, Leroy V., Baton Rouge, La., assignor to Standard Oil Development Company. Apparatus for removing coke from stills. 1,666,865; Apr. 17.
Robertson, H. H., Company. (See Young, J. H., and Miller, assignors.)
Robinson, Joseph, New York, N. Y. Automatic trainpipe coupling. 1,666,310; Apr. 17.
Robles, Charles, Brooklyn, N. Y. Amusement device. 1,666,219; Apr. 17.
Rockwell, Harold H., et al. (See Myers, Lewis E., assignor.)
Rogers, Wardneigh T., Bird City, Kans. Ironing board. 1,666,607; Apr. 17.

Rollin, Simon, Tulle, assignor to Societe Anonyme des Anciens Etablissements Hatot, Paris, France. Electric striking mechanism. 1,666,351; Apr. 17.

Roos, Carlisle K., and M. G. Allison, Fort Dodge, Iowa, assignors to United States Gypsum Company, Chicago, Ill. Light-weight gypsum products. 1,666,180; Apr. 17.

Rose, Harry M., Philadelphia, Pa. Place-card support. 1,666,400; Apr. 17.

Rosenfeld, Joseph E., Battle Creek, Mich. Tongue-blade holder. 1,666,265; Apr. 17.

Rosenzweig, Siegfried, New York, N. Y. Mounting for machinery. 1,666,149; Apr. 17.

Rosenzweig, Siegfried, New York, N. Y. Insulating unit for deadening vibration and sound. 1,666,311; Apr. 17.

Rost, Friedrich, Kusnacht, near Zurich, Switzerland. Valve. 1,666,583; Apr. 17.

Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Split pulley. 1,666,352; Apr. 17.

Royal Metal Works. (See Clausing, Louis F., assignor.)

Ruff, De Witt C., 2d, St. Paul, and J. H. Healy, Mahtomedi, assignors to J. A. and J. H. Healy and D. W. Hickey, St. Paul, Minn. Radiator hanger. 1,666,866; Apr. 17.

Ruhren, John J., Guttenberg, N. J., assignor to H. S. Vipond, and W. B. Leitch, Montreal, Canada. Warp tension and let-off. 1,666,835; Apr. 17.

Runyan, William B., Dayton, Ohio. Metallurgical briquette and using it. 1,666,312; Apr. 17.

Ruths, Johannes, Djursholm, Sweden. Steam plant. 1,666,426; Apr. 17.

Salley, Jack. (See Jakopets, Gyuro E. B., assignor.)

Salterini, John B., New York, N. Y. Bridge lamp. Des. 74,945; Apr. 17.

Salterini, John B., New York, N. Y. Bridge lamp. Des. 74,946; Apr. 17.

Sanford, Don A., deceased; G. L. Sanford, administratrix, Washington, D. C. Electric switch. 1,666,470; Apr. 17.

Sanford, Grata L., administratrix. (See Sanford, Don A.)

Sanguinetti, Adolphus, Stockport, England. Controlling means of variable-speed gearing for motor vehicles having handle bars. 1,666,793; Apr. 17.

Sann, Otto, Johnstown, Pa. Grinding machine. 1,666,313; Apr. 17.

Santee, Elmer V., Williamson, N. Y. Stone gatherer. 1,666,836; Apr. 17.

Sarazin, Frank L., Wabash, Minn. Combined bolt and nut lock. 1,666,608; Apr. 17.

Sass, Carl, Hamburg-Harvestehude, Germany. Cleansing box for use in sewerage pipes. 1,666,756; Apr. 17.

Saunders, Lewis E., Enstwood, South Australia, and M. Finkelstein, Sydney, New South Wales, Australia. Disinfecting device for water-closets and the like. 1,666,669; Apr. 17.

Sater, John R. (See Heck, C. P., and Sater.)

Sawyer, Emerson D., Chicago, Ill. Yieldable barrier. 1,666,508; Apr. 17.

Saywell, George W. (See Monosmith, Clayton E., D. J., and O. B., assignors.)

Scally, George, Chicago, Ill. Safety device for locks. 1,666,542; Apr. 17.

Schaper, Harry C., St. Louis, Mo., assignor, by mesne assignments, to Schaper Scale Company. Even-balance-indicating scale. 1,666,314; Apr. 17.

Schaper Scale Company. (See Schaper, Harry C., assignor.)

Scharf, Joachim B., Chicago, Ill. Storage-battery flushing and refilling device. 1,666,837; Apr. 17.

Schelf, Adolph C., Colp, Ill. Wrench. 1,666,353; Apr. 17.

Schilpp, Charles P., Cleveland Heights, assignor to W. A. Foss, Cleveland, Ohio. Spinner. 1,666,072; Apr. 17.

Schindler, Linus P., Hamburg, Germany. Safety device for printing machines. 1,666,584; Apr. 17.

Schlossareck, Hugo G. A., Yonkers, N. Y. Flytrap. 1,666,509; Apr. 17.

Schmid, Richard, and W. Wezel, Stuttgart, Germany, assignors to Biax Flexible Shaft Co., Incorporated. Portable polishing tool. 1,666,181; Apr. 17.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Stoker-blower control mechanism. 1,666,510; Apr. 17.

Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Stuffing machine. 1,666,631; Apr. 17.

Schmidt, William R., Beemer, Nebr. Firewood-splitting machine. 1,666,795; Apr. 17.

Schmierer, Johannes M., Gross-Lichterfelde, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y. Electrical operating apparatus. 1,666,182; Apr. 17.

Schneider, Alfons. (See Klee, J., and Schneider.)

Schnoebelen, Clement A., Cedar Rapids, Iowa. Lightning-rod air terminal bracket. 1,666,670; Apr. 17.

Schuldt, Clarence, Des Plaines, Ill. Electric cord swivel connecter. 1,666,247; Apr. 17.

Schuldt, Clarence, Des Plaines, Ill. Three-way lamp socket. 1,666,248; Apr. 17.

Schultz, Ferdinand H., Council Bluffs, Iowa. Bottle opener. 1,666,249; Apr. 17.

Schultz, George W., Bowers, Pa. Telephone muffler. 1,666,220; Apr. 17.

Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table for radio receiving sets and the like. Des. 74,947; Apr. 17.

Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table for radio receiving sets and the like. Des. 74,948; Apr. 17.

Schwerdtfeger, Frederick W., New York, N. Y. Airship landing station. 1,666,354; Apr. 17.

Schwendner, Anthony F., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker. 1,666,512; Apr. 17.

Scott, George N., West New Brighton, N. Y., assignor to Bethlehem Shipbuilding Corporation, Ltd. Oil-burning attachment for furnace fronts. 1,666,511; Apr. 17.

Scott, Robert W., Babylon, and A. E. Page, Brooklyn, assignors to Scott & Williams Inc., New York, N. Y. Apparatus for and method of knitting. 1,666,794; Apr. 17.

Scott & Williams Inc. (See Scott, R. W., and Page, assignors.)

Scovill, James P., Troy, assignor, by mesne assignments, to Peerless Machine Corporation, New York, N. Y. Tobacco-stemming machine. 1,666,719; Apr. 17.

Scovill, James P., Troy, assignor to Peerless Machine Corporation, New York, N. Y. Tobacco-stripping machine. 1,666,720; Apr. 17.

Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)

Sebell, Harry, Boston, Mass. Container. 1,666,221; Apr. 17.

Seeley, Harold T., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,666,471; Apr. 17.

Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate or article of analogous nature. Des. 74,949; Apr. 17.

Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate or article of analogous nature. Des. 74,950; Apr. 17.

Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate or article of analogous nature. Des. 74,951; Apr. 17.

Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate or article of analogous nature. Des. 74,952; Apr. 17.

Seidell, Alfred P., Bloomfield, N. J., assignor to Orange Lighting Fixture Manufacturing Co. Lighting-fixture backplate or article of analogous nature. Des. 74,953; Apr. 17.

Seigle, Peter G. (See Haines, Winfield S., assignor.)

Selden Company, The. (See Andrews, Chester E., assignor.)

Sether, Alvin, Chippewa Falls, Wis. Rack or holder for paper bags. 1,666,355; Apr. 17.

Service Equipment Co. (See Farley, George E., assignor.)

Seybold, Christian, Duren, and J. Boltersdorf, Kreuzau, near Duren, Germany. Paper-making machine. 1,666,472; Apr. 17.

Shafer, Carl R., Detroit, Mich., assignor to Box Patents Corporation, Bordentown, N. J. Box construction. Re16,936; Apr. 17.

Shannon, John W., San Rafael, and J. F. Pagendarm, Oakland, assignors to Shannon Rotary Valve Motor Company, San Francisco, Calif. Rotary valve mechanism. 1,666,513; Apr. 17.

Shannon Rotary Valve Motor Company. (See Shannon, J. W., and Pagendarm, assignors.)

Shapiro, Esther M. (See Edelman, Max, assignor.)

Shapiro, Lazarus, New York, N. Y. Electromagnetic translating device. 1,666,183; Apr. 17.

Shawmut Engineering Company. (See Hathaway, E. F., and Bixby, assignors.)

Sheberashenko, Andrey, Detroit, Mich. Radius tool. 1,666,109; Apr. 17.

Shelby Metal Products Company, The. (See Broomhall, Harley, assignor.)

Shelton, William G., St. Louis, Mo. Hair-waving apparatus. 1,666,266; Apr. 17.

Sherrill, Richard M., Evanston, Ill., assignor to Central Scientific Company. Advertising device. 1,666,721; Apr. 17.

Shevlin, Joseph P., and S. E. Norton, Denver, Colo. Tire-casing spreader. 1,666,150; Apr. 17.

Shick, David W., assignor to S. E. Miller, trustee, Aurora, Ill. Writing machine. 1,666,267; Apr. 17.

Shuler, Harry V., Spencer, Nebr. Corn-husking machine. 1,666,796; Apr. 17.

Shuman, Henry A., Fairbury, Nebr. Helicopter. 1,666,315; Apr. 17.

Sigler, Carlton C., Cleveland, Ohio. Paper clip. 1,666,514; Apr. 17.

Skillman, Edward, Bartlesville, Okla., assignor to Doherty Research Company, New York, N. Y. Oil burner. 1,666,268; Apr. 17.

Skinner Automotive Device Co. (See Skinner, R. L., and Lambert, assignors.)

Skinner, Ralph L., and E. H. Lambert, assignors to Skinner Automotive Device Co., Inc., Detroit, Mich. Sleeve type of internal-combustion-engine lubrication. 1,666,184; Apr. 17.

Slepian, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage direct-current system. 1,666,473; Apr. 17.

Sloan, John F. (See Christy, J. E., and Sloan.)

Smickle, Raymond H., Belvidere, N. J. Paper fastener. 1,666,356; Apr. 17.

Smidt, Lulah M., Los Angeles, Calif. Hair curler. 1,666,269; Apr. 17.

Smith, A. L., Iron Works, The. (See Smith, Arthur L., assignor.)

Smith, Arthur L., Portland, Oreg. Electric tester. 1,666,273; Apr. 17.

Smith, Arthur L., Melrose, Mass., assignor to The A. L. Smith Iron Works, Chelsea, Mass. Stair-landing construction. 1,666,222; Apr. 17.

Smith, William A., jr., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,666,427; Apr. 17.

Smouse, John B., Chicago, Ill., assignor to Morton Manufacturing Company. Relensable vestibule-curtain handle. 1,666,073; Apr. 17.

Snyder, Harry F., Los Angeles, Calif., assignor of one-half to M. E. Rice. Collapsible tent. 1,666,757; Apr. 17.

Snyder, Jacob R., assignor to The Star Rebound Controller Company, Cleveland, Ohio. Shock absorber. 1,666,357; Apr. 17.

Snyder, Simon, assignor to Sprout, Waldron and Company, Muncy, Pa. Grain-cracking machine. 1,666,797; Apr. 17.

Societa Italiana Ernesto Breda. (See Belluzzo, Giuseppe, assignor.)

Societe Anonyme des Anciens Etablissements Hatot. (See Rollin, Simon, assignor.)

Societe Anonyme des Matieres Colorantes & Produits Chimiques de Saint-Denis. (See Lantz, R., and Wahl, assignors.)

Societe Pellaumail-Moutel & Cie. (See Durupt, Jean B., assignor.)

Söderberg, Sten E. B., assignor to Arca Regulators, Inc., New York, N. Y. Compensation for regulation. 1,666,270; Apr. 17.

Söffge, Herman, Bochum, Germany. Pressure regulator. 1,666,609; Apr. 17.

Soref, Harry E., Milwaukee, Wis. Lock. 1,666,880; Apr. 17.

Sorell, Otto D., Los Angeles, Calif. Game board for game pieces and surface. 1,666,474; Apr. 17.

Souhigian, Marsop, Lawrence, Mass. Snow-removing machine. 1,666,358; Apr. 17.

Sparks, Manley A., Atlanta, Ga. Dental apparatus. 1,666,316; Apr. 17.

Speer, Reid C., Pittsburgh, Pa. Apparatus for washing glasses and the like. 1,666,671; Apr. 17.

Spicers, Limited. (See Hands, Henry J., assignor.)

Spiegel, May, Stern Co. (See Golinick, Paul A., assignor.)

Spielman, Adolph, Philadelphia, Pa. Cutting machine. 1,666,271; Apr. 17.

Spiering, Charles W., assignor of one-fourth to T. C. Black, Cathlamet, Wash. Logging hook. 1,666,272; Apr. 17.

Sprout, Waldron and Company. (See Snyder, Simon, assignor.)

Sprout, Waldron and Company. (See Taggart, Daniel B., assignor.)

Standard Oil Development Company. (See Robbins, Leroy V., assignor.)

Stanley Works, The. (See Parsons, Stuart W., assignor.)

Star Chandelier Co. (See Boehringer, John A., assignor.)

Sta-Rite Hair Pin Company. (See Gibson, Clark A., assignor.)

Star Pin Company, The. (See Emerson, Dean A., assignor.)

Star Rebound Controller Company, The. (See Snyder, Jacob R., assignor.)

Starr, Samuel T., et al. (See Kamedish, Peter B., assignor.)

Statham, Noel, Irvington-upon-Hudson, N. Y. Fastening means and operating member therefor. 1,666,110; Apr. 17.

Steam Pressing Iron Company. (See Hoffman, Louis, assignor.)

Stebbins, Albert H., Los Angeles, Calif. Dust extractor. 1,666,475; Apr. 17.

Stebbins, Albert H., Los Angeles, Calif. Air classifier. 1,666,476; Apr. 17.

Stebbins, Albert H., Los Angeles, Calif. Air classifier. 1,666,477; Apr. 17.

Steel & Tubes, Inc. (See Sussman, Julius L., assignor.)

Steen, Rapha P. (See Craig, M. A., Steen, and Logsdon.)

Stelhilber, Adolf A., Rock Island, Ill. Stock-storage apparatus. 1,666,074; Apr. 17.

Steves, Herbert J. A., New York, N. Y. Game board. 1,666,359; Apr. 17.

Stewart-Warner Speedometer Corporation. (See Sussin, Victor, assignor.)

Stiemke, Walter H. (See Jett, George C., assignor.)

Stiert, Ralph B., Sapulpa, Okla. Automatic headlight. 1,666,151; Apr. 17.

Stillman, Reginald C. B. (See Hele-Shaw, H. S., Stillman, and Pickard.)

Stobrawa, Karl, Gleiwitz, Germany. Preparing pig iron in highly-heated mixers. 1,666,428; Apr. 17.

Stockton, Wholston V., jr., Albany, assignor to American Meter Company, Incorporated, New York, N. Y. Meter. 1,666,075; Apr. 17.

Stoetzel, Joseph J., New York, N. Y., assignor to G. & G. Atlas Systems, Inc. Self-regulating gravity-discharge terminal. 1,666,758; Apr. 17.

Stolp, Charles, jr., Chicago, Ill., assignor to The Flintkote Company, Boston, Mass. Roofing. 1,666,429; Apr. 17.

Stone, Walter B., Webster, Mass., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Sawing machine. 1,666,632; Apr. 17.

Stover, Clinton W. (See Woodhead, H., and Stover.)

Stribling, Paul O., jr., Atlanta, Ga. Internal-combustion engine. 1,666,838; Apr. 17.

Strigl, Karl J., New York, N. Y. Transmission mechanism. 1,666,152; Apr. 17.

Strite, George T., assignor of two-thirds to H. W. Bolens, Port Washington, Wis. Garden tractor. 1,666,185; Apr. 17.

Sullivan Machinery Company. (See Halleck, Frank A., assignor.)

Sun Oil Company. (See Pew, Joseph N., jr., assignor.)

Sun Oil Company. (See Pew, A. E., jr., and Thomas, assignors.)

Sunday, James J. (See Kelch, J. W., and Sunday.)

Supplee, Russell R., Bridgeport, Pa. Automatic safety angle cock. 1,666,478; Apr. 17.

Sussin, Victor, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile bumper. 1,666,111; Apr. 17.

Sussman, Julius L., Kew Gardens, N. Y., assignor to Steel & Tubes, Inc., Cleveland, Ohio. Metal tube. 1,666,401; Apr. 17.

Sweet, Willis M., Niles, Mich. Dirigible headlight. 1,666,867; Apr. 17.

Sweetland, Ernest J., Montclair, N. J. Filter. 1,666,515; Apr. 17.

Swimmer, Robert, New York, N. Y. Combined electric-lamp holder and reflector. Des. 74,954; Apr. 17.

Symmes, Whitman, San Francisco, Calif. Electric-fixture support. 1,666,223; Apr. 17.

Taggart, Daniel B., assignor to Sprout, Waldron and Company, Muncy, Pa. Grain-cracking machine. 1,666,798; Apr. 17.

Tancetti, Guglielmo, Genoa, Italy. Cleaning device. 1,666,360; Apr. 17.

Tarbox, John P., assignor to Budd Wheel Company, Philadelphia, Pa. Demountable disk wheel. 1,666,722; Apr. 17.

Telepix Corporation of America. (See Ferree, M., and Wissmar, assignors.)

Thomas, Henry. (See Pew, A. E., jr., and Thomas.)

Thomson, Charles J., assignor to Westcott & Thomson, Inc., Philadelphia, Pa. Ruling machine. 1,666,634; Apr. 17.

Thompson, Laurence, Warren, Manitoba, Canada. Windmill. 1,666,361; Apr. 17.

Thompson, Livingston A., Waukesha, Wis. Malted-milk product. 1,666,633; Apr. 17.

Tinker, Herbert W., assignor to Federal Pressed Steel Company, Milwaukee, Wis. Bumper device for vehicles. 1,666,317; Apr. 17.

Tizzani, Felix, Lyon, France. Instrument for measuring the perimeter of teeth. 1,666,430; Apr. 17.

Tobey, H. R. (See Bennett, Earl J., assignor.)

Tomasulo, Nestor N., assignor to E. Julian, Philadelphia, Pa. Hair clipper. 1,666,224; Apr. 17.

Tong, Woo, Cleveland, Ohio. Device for cleaning fountain pens. 1,666,186; Apr. 17.

Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Program-selecting circuits. 1,666,153; Apr. 17.

Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Distribution of programs over wires. 1,666,154; Apr. 17.

Trammell, Jefferson D., Fort Worth, Tex. Reenforced-concete pipe. 1,666,790; Apr. 17.

Traylor Engineering & Manufacturing Company. (See Bernhard, Richard, assignor.)

Trayway Mfg. Co. (See Morehouse, F. B., and Kleinhammer, assignors.)

Trico Products Corporation. (See Folberth, Frederick G. and W. M., assignors.)

Trico Products Corporation. (See Phillips, John X., jr., assignor.)

Tri-Lok Company, The. (See Nagin, Harry, assignor.)

Trosch, Alfred, assignor to Consolidated Machine Tool Corporation of America, Rochester, N. Y. Cross-rail-clamping mechanism for machine tools. 1,666,431; Apr. 17.

Trow, Charles A. (See Corey, W. G., and Trow.)

Troy Sunshade Company, The. (See Dillingham, Frederick A., assignor.)

Trumbo, Stacy D., Columbus, Ohio. Electrical roach trap. 1,666,723; Apr. 17.

Tschudy, William, Yonkers, N. Y. Vapor rectifier. 1,666,516; Apr. 17.

Tully, Edward E., Birkenhead, and W. Lovis, London, England. Propelling device for ships. 1,666,517; Apr. 17.

Turner, Ernest J., Pittsburgh, Pa. Hot top. 1,666,759; Apr. 17.

Twin City Forge & Foundry Company. (See Ovestrud, Melvin, assignor.)

Ufer, Alfred, Boghum, Germany. 1,666,076; Apr. 17.

Unglesby, Lewis H., assignor of one-half to M. H. Hughes, Baton Rouge, La. Pneumatic-tire signal. 1,666,155; Apr. 17.

Union Steel Products Company. (See Mitchell, Robert B., assignor.)

Union Switch & Signal Company, The. (See Mickley, Joseph K., assignor.)

United Autographic Register Company. (See Jensen, Louis, assignor.)

United States Gypsum Company. (See Birdsey, Charles R., assignor.)

United States Gypsum Company. (See Roos, C. K., and Allison, assignors.)

Universal Holding Company. (See Gallagher, Charles R., assignor.)

Universal Holding Company. (See Griffin, Alvah M., assignor.)

Urquhart, Ubert. (See La Joie, H. J., Urquhart, and Pokorny.)

Vail, N. R. (See Boykin, Robert O., assignor.)

Van Arkel, A. E., and J. H. de Boer, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Separating hafnium and zirconium. 1,666,800; Apr. 17.

Van Hamersveld, John J. N., assignor to The Warner and Swasey Company, Cleveland, Ohio. Turret mechanism for machine tools. 1,666,187; Apr. 17.

Van Husen, Norman. (See Jandus, H. S., and Van Husen.)

Van Pelt, Arnold F. (See Fischer, F., and Van Pelt.)

Varaud, André, Geneva, Switzerland. Percussion fuse for projectiles subjected to a rotary movement around their axis during their trajectory. 1,666,672; Apr. 17.

Varney, Ernest B., Pueblo, Colo. Wire-bending pliers. 1,666,801; Apr. 17.

Vartanian, Frank D., Portland, Me. Lighting apparatus for gas burners. 1,666,610; Apr. 17.

Ventrella, Michael V., New York, N. Y. Automatic rotary book-display device. 1,666,274; Apr. 17.

Venzie, Frederick M., Philadelphia, Pa. Building element. 1,666,318; Apr. 17.

Vernet, Waldemar. (See Iserman, S., Vernet, and Moses.)

Victor, Alexander F., Davenport, Iowa. Film container. 1,666,077; Apr. 17.

Vincent, Walter P., Portland, Me. Wind-actuated novelty. 1,666,543; Apr. 17.

Viney, William D., Saltfork, Okla. Automobile engine-cranking apparatus. 1,666,432; Apr. 17.

Vlpond, Herbert S., et al. (See Ruhren, John J., assignor.)

Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Plasterer's grille. 1,666,544; Apr. 17.

Von Allmen, Emil, Louisville, Ky. Detachable union. 1,666,802; Apr. 17.

Von Hevesy, Georg. (See Coster, D., and von Hevesy.)

Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigerator. 1,666,760; Apr. 17.

Voskamp, John A., New York, N. Y., assignor to Irving Iron Works Company. Armored reenforced-concrete slab. 1,666,156; Apr. 17.

Voskamp, John A., New York, N. Y., assignor to Irving Iron Works Company. Armored reenforced-concrete slab. 1,666,157; Apr. 17.

Vreeland Corporation. (See Vreeland, Frederick K., assignor.)

Vreeland, Frederick K., Montclair, assignor to Vreeland Corporation, Hoboken, N. J. Radiofrequency amplifier. 1,666,518; Apr. 17.

Waddy, George M., Buffalo, N. Y. Safety brake-beam support. 1,666,585; Apr. 17.

Wadsworth, David T., Cold Springs, assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Inclosed electric switch. 1,666,724; Apr. 17.

Wadsworth Electric Manufacturing Company, The. (See Wadsworth, David T., assignor.)

Wahl, André. (See Lantz, R., and Wahl.)

Wait, Wesley, Newburgh, N. Y. Bridge. 1,666,586; Apr. 17.

Wait, William, jr., Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Combination seat and control mechanism for aircraft. 1,666,761; Apr. 17.

Walker, Joseph D., Whitesburg, Tenn. Book holder. 1,666,803; Apr. 17.

Wallis, Barnes N., Westminster, assignor to Airship Guarantee Company, Limited, London, England. Airship. 1,666,112; Apr. 17.

Walsh, Harry C. H., Chicago, Ill. Power press. 1,666,275; Apr. 17.

Ward, Frederick K., Seattle, Wash. Clutch-operating device. 1,666,225; Apr. 17.

Warner and Swasey Company, The. (See Van Hamersveld, John J. N., assignor.)

Warriner, Paul S. (See Platt, James L., assignor.)

Watrous, Clifford M., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Wheel for toys. 1,666,611; Apr. 17.

Watts, Felix J., assignor to H. A. Douglas, Bronson, Mich. Lock. 1,666,319; Apr. 17.

Watts, Felix J., assignor to H. A. Douglas, Bronson, Mich. Lock-controlled electric switch. 1,666,320; Apr. 17.

Weaver, Edwin M., Reading, Pa. Musical instrument. 1,666,226; Apr. 17.

Webb, Purcell T., Christchurch, New Zealand. Safety device for railways and the like. 1,666,362; Apr. 17.

Weeden, Arthur W., assignor of three-fifths to E. M. Freeman, Quincy, Mass. Rotary motor or pump. 1,666,321; Apr. 17.

Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)

Weinfield, Benjamin S., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,666,433; Apr. 17.

Weinhelm, Emil, New York, N. Y. Terminal strainer for dope systems. 1,666,725; Apr. 17.

Wellensiek, Louis H., assignor to Hughes Tool Company, Houston, Tex. Soft-formation core drill. 1,666,726; Apr. 17.

Weller, George L., Elyria, Ohio, assignor to National Tube Company, Boiler. 1,666,276; Apr. 17.

Weller, John, Great Bookham, England. Tensioning device for transmission chains and the like. 1,666,882; Apr. 17.

Wellfare, Frederick E., Dallas, Tex. Mechanism for opening and closing gates, windows, and similar structures. 1,666,113; Apr. 17.

Wendel, Reinhold M., Stockholm, Sweden. Beating engine. 1,666,587; Apr. 17.

Werbe, Walter F., Martinsville, Ind. Gate. 1,666,727; Apr. 17.

Wertenbruch, Antony, assignor to Larrowe Milling Company, Detroit, Mich. Bag-filling machine. Re16,934; Apr. 17.

West, Elmer S., Mayslick, Ky. Poultry feeder. 1,666,322; Apr. 17.

West, Kirby P., et al. (See Harrison, Cecil B., assignor.)

West, Ross, et al. (See Harrison, Cecil B., assignor.)

West, Ross R., San Francisco, Calif. Vault ventilator. 1,666,519; Apr. 17.

Westcott & Thomson, Inc. (See Thomson, Charles J., assignor.)

Western Electric Company. (See Bandur, Adolph F., assignor.)

Western Electric Company. (See Björnson, Björn G., assignor.)

Western Electric Company. (See Buckley, Oliver E., assignor.)

Western Electric Company. (See Burgess, Harry A., assignor.)

Western Electric Company. (See Hartley, Ralph V. L., assignor.)

Western Electric Company. (See Heising, Raymond A., assignor.)

Western Electric Company. (See Little, John S., assignor.)

Western Electric Company. (See Morton, Edmund R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bailey, Rochard W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)

Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Schwendner, Anthony F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)

Westman, Francis C., Toronto, Ontario, Canada. Ice-scoring machine. 1,666,868; Apr. 17.

Westrich, Alphons L., Hawthorne, Calif. Wall construction. 1,666,635; Apr. 17.

Wezel, Walter. (See Schmid, R., and Wezel.)

Wheeler, C. H., Manufacturing Company. (See Kothny, Gottlank L., assignor.)

White Fuel Oil Engineering Corporation. (See McDonald, James, assignor.)

White, Jessee M., Philadelphia, Pa. Wire-stripping machine. 1,666,277; Apr. 17.

Whiting & Davis Company. (See Lynds, Fred H., assignor.)

Whitlock, Ralph G., Los Angeles, Calif. Printing press. 1,666,188; Apr. 17.

Whitney, George W., New York, N. Y. Cigarette case. 1,666,520; Apr. 17.

Wild, Wilhelm. (See Gaus, W., and Wild.)

Will, Anthony J., and D. A. Feldman, assignors to The August Maag Company of Baltimore, Baltimore, Md. Bake pan. 1,666,363; Apr. 17.

Williams, Bill C. (See Privott, J. H., and Williams.)

Williams, Harry, Detroit, Mich. Lock. 1,666,078; Apr. 17.

Williams, John P., Bayside, assignor to Duplex Electric Company, New York, N. Y. Air-vent means for vaults. 1,666,673; Apr. 17.

Williams, Leonard P., Newark, N. J. Anchor. 1,666,805; Apr. 17.

Williams Tool Corporation. (See Hall, Leslie S., assignor.)

Willmann, Joseph, Derby, Conn. Freezing ice cream. 1,666,804; Apr. 17.

Willrich, Edgar G., Los Angeles, Calif. Pump-operating mechanism. 1,666,227; Apr. 17.

Willys-Overland Company, The. (See Grimm, George E., assignor.)

Wilson, Albert, Chicago, Ill. Type-composition-binding frame. 1,666,674; Apr. 17.

Wilson, George H. (See Henderson, J. W., and Wilson.)

Wilson, James. (See Hinger, J. A., Mayer, and Wilson.)

Winslow, Samuel, Skate Manufacturing Company, The. (See Copeland, Eugene A., assignor.)

Winton, John T., Odessa, Tex. Metallic window sash. 1,666,839; Apr. 17.

Wissmar, Joseph. (See Ferree, M., and Wissmar.)

Witt, Murray, Brooklyn, assignor, by mesne assignments, to Atlas Manufacturing Corporation, New York, N. Y. Sign for automobiles. 1,666,545; Apr. 17.

Wolf, Franz, New York, N. Y. Marking or cutting device. 1,666,479; Apr. 17.

Wolf, Philippe, Paris, France. Washing apparatus for coals. 1,666,189; Apr. 17.

Wolfe, William, Ebensburg, Pa. Mouthpiece for horns. 1,666,228; Apr. 17.

Wolfson, Sidney L., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric lighter for cigars, cigarettes, etc. 1,666,546; Apr. 17.

Wolters, Eric E. (See Brainard, G. C., Fitch, and Wolters.)

Wood, Alexander P., Schenectady, assignor of two-sevenths to V. W. Appel, New York, N. Y. Collapsible tube. 1,666,402; Apr. 17.

Wood, Charles N. and W. E., Sacramento, Calif. Beet topper. 1,666,636; Apr. 17.

Wood, William E. (See Wood, Charles N. and W. E.)

Woodbridge, Joseph L., Philadelphia, Pa. Separator for the electrodes of electrolytic cells. 1,666,762; Apr. 17.

Woodhead, Harry, and C. W. Stover, Cleveland, Ohio. Hollow bracing unit. 1,666,278; Apr. 17.

Woods, Leonard G., Pittsburgh, Pa. Road strip. 1,666,612; Apr. 17.

Woods, Leonard G., Pittsburgh, Pa. Road strip. 1,666,613; Apr. 17.

Woods, Leonard G., Pittsburgh, Pa. Junction for metal bars. 1,666,614; Apr. 17.

Woodward, Thomas S., Leetonia, Ohio. Book end or similar article. Des. 74,955; Apr. 17.

Wordingham, George, Milwaukee, Wis. Garment container. 1,666,434; Apr. 17.

Wright, Norman L., Mount Vernon, N. Y. Radiator ornament. 1,666,806; Apr. 17.

Yanochowski, George A., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Switch. 1,666,763; Apr. 17.

Yonehiro, Hatsuzuchi, Honolulu, Hawaii. Burner. 1,666,807; Apr. 17.

Young, James H., Pittsburgh, and W. H. Miller, Wilkinsburg, assignors to H. H. Robertson Company, Pittsburgh, Pa. Glazing construction. 1,666,764; Apr. 17.

Young, L. A., Company. (See Hagen, Walter, assignor.)

Youngstown Pressed Steel Company, The. (See Galbreath, William W., assignor.)

Zica, John, Lackawanna, assignor of one-half to J. Pudaloff, Niagara Falls, N. Y. Digging, lifting, and conveying apparatus. 1,666,869; Apr. 17.

Ziebarth, Frederick A., Delano, Minn. Fence construction. 1,666,765; Apr. 17.

Zilliger, Arno, Narberth, assignor to Music Master Corporation, Philadelphia, Pa. Adjusting the antenna of radio apparatus. 1,666,480; Apr. 17.

Zlock, Edward J., Rockford, Ill. Device for holding stockings on forms. 1,666,840; Apr. 17.

Zomnir, Joseph E., and C. L. Piersch, Springfield, Mass., assignors to The Diamond Match Company, Chicago, Ill. Match-making machine. 1,666,547; Apr. 17.

Zook, John E., Kansas City, Mo. Window washer. 1,666,190; Apr. 17.

Zweigbergk, Thorsten, London, England. Circuit making and breaking device. 1,666,675; Apr. 17.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Absorbing mechanism, Jump-. B. A. Proctor. 1,666,307; Apr. 17.
Acid, Manufacturing formic. G. H. Buchanan and J. L. Osborne. 1,666,437; Apr. 17.
Advertising device. R. M. Sherrill. 1,666,721; Apr. 17.
Aerating and screening liquid, Apparatus for. F. B. Chappell. 1,666,164; Apr. 17.
Aerials, Radiant-energy collector for. W. A. Rhodes and A. Bankoff. 1,666,834; Apr. 17.
Aeroplane. M. Gallet and A. B. Anderson. 1,666,132; Apr. 17.
Agricultural implement. A. J. Auspitzer. 1,666,841; Apr. 17.
Air circulating and heating apparatus. P. R. Falk. 1,666,816; Apr. 17.
Air classifier. A. H. Stebbins. 1,666,476–7; Apr. 17.
Aircraft, Combination seat and control mechanism for. W. Walt, jr. 1,666,761; Apr. 17.
Air injector, Steam-actuated. L. E. Harter. 1,666,136; Apr. 17.
Airplane. R. B. Beisel and W. L. Gilmore. 1,666,769; Apr. 17.
Airship. B. N. Wallis. 1,666,112; Apr. 17.
Airship landing station. F. W. Schwerdtfeger. 1,666,354; Apr. 17.
Air testing and inflating means. E. H. McFarland. 1,666,861; Apr. 17.
Alarm for mines, Pressure-fluctuating. R. C. Fagan. 1,666,282; Apr. 17.
Altimeter, Precision. D. M. Reeves. 1,666,179; Apr. 17.
Amalgamator. F. and L. Davis. 1,666,121; Apr. 17.
Amplifier. J. Platt. 1,666,303; Apr. 17.
Amplifier, Audiofrequency. H. P. Donle. 1,666,412; Apr. 17.
Amplifier, Radiofrequency. F. K. Freeland. 1,666,518; Apr. 17.
Amusement device. C. Robles. 1,666,219; Apr. 17.
Anchor. L. P. Williams. 1,666,805; Apr. 17.
Anchor, Rail. B. B. Betts. 1,666,114; Apr. 17.
Anchor, Wire. A. J. Gurney. 1,666,493; Apr. 17.
Ankle brace. H. L. Johnston. 1,666,290; Apr. 17.
Article forming and folding machine. S. J. Campbell. 1,666,086; Apr. 17.
Ash tray or similar article. D. M. Eaton. Des. 74,922; Apr. 17.
Asphalt, Packing. F. Breeze, jr. 1,666,730; Apr. 17.
Auto carrier rack. H. D. Puffe. 1,666,507; Apr. 17.
Automobile bodies, Door stile for. A. J. Fisher. 1,666,446; Apr. 17.
Automobile body and hood, Combined. C. Orsett. Des. 74,943; Apr. 17.
Automobile engine-cranking apparatus. W. D. Viney. 1,666,432; Apr. 17.
Automobile steering master. C. A. Johnson. 1,666,386; Apr. 17.
Automobiles, Connection for timing devices for. J. C. Osborn. 1,666,665; Apr. 17.
Automobiles, Sight instrument for. S. W. Fuerth. 1,666,236; Apr. 17.
Automotive appliance. D. Gentile. 1,666,492; Apr. 17.
Awning, Collapsible metal. W. R. Hopkins. 1,666,657; Apr. 17.
Bag: *See*—
Brief bag.
Bag and grip, Combined hand. W. N. Hunter. 1,666,704; Apr. 17.
Bag and like lock. W. C. Hiering. 1,666,654; Apr. 17.
Bag-filling machine. A. Wertenbruch. Re16,934; Apr. 17.
Bake 'pan. A. J. Will and D. A. Feldman. 1,666,363; Apr. 17.
Ball: *See*—
Golf ball.
Bank or receptacle, Coin. O. F. Baughman and J. Hobart. 1,666,524; Apr. 17.
Barrier, Yieldable. E. D. Sawyer. 1,666,508; Apr. 17.
Bars, Junction for metal. L. G. Woods. 1,666,614; Apr. 17.
Bathing suit. L. Pelton. 1,666,504; Apr. 17.
Battery-element extractor. A. B. Côte. 1,666,847; Apr. 17.
Battery flushing and refilling device, Storage-. J. E. Scharf. 1,666,837; Apr. 17.
Beacon, Vertical. H. F. Cuntz. 1,666,196; Apr. 17.
Bearing, Adjustable self-aligning. F. Burgess. 1,666,593; Apr. 17.
Bearing, Thrust. R. C. Allen. 1,666,521; Apr. 17.
Beating engine. R. M. Wendel. 1,666,587; Apr. 17.
Bed lock. L. N. Lumb. 1,666,424; Apr. 17.
Beet topper. C. N. and W. E. Wood. 1,666,636; Apr. 17.
Belt remover, Axle-generator. M. J. Brennan. 1,666,592; Apr. 17.
Belt-tensioning device for threading machines and the like. L. S. Hall. 1,666,135; Apr. 17.
Bevel-edging machine. A. E. Maynard. 1,666,746; Apr. 17.
Binding frame, Type-composition-. A. Wilson. 1,666,674; Apr. 17.
Blower for boilers, Soot. L. J. Bayer. 1,666,080; Apr. 17.
Board: *See*—
Game board. Ironing board.
Boiler: *See*—
Steam boiler.
Boiler. G. T. Ladd. 1,666,659; Apr. 17.
Boiler. G. L. Weller. 1,666,276; Apr. 17.
Boilers, Ash hopper for. R. H. Beaumont. 1,666,768; Apr. 17.
Bolt and nut lock, Combined. F. L. Sarazin. 1,666,608; Apr. 17.
Bolt guide. S. W. Parsons. 1,666,751; Apr. 17.
Book-display device, Automatic rotary. M. V. Ventrella. 1,666,274; Apr. 17.
Book end or similar article. T. S. Woodward. Des. 74,955; Apr. 17.
Book holder. J. D. Walker. 1,666,803; Apr. 17.
Bottle and cap, Perfume. P. A. Reutter. 1,666,541; Apr. 17.
Bottle opener. F. H. Schultz. 1,666,249; Apr. 17.
Bottles, Closure means for. E. M. Carhart. 1,666,683; Apr. 17.
Box: *See*—
Drill speed box. Mail box.
Box. A. R. Mosler. 1,666,105; Apr. 17.
Box and cover, Metal. W. C. Hiering. 1,666,653; Apr. 17.
Box construction. C. R. Shafer. Re16,936; Apr. 17.
Box for use in sewerage pipes, Cleansing. C. Sass. 1,666,756; Apr. 17.
Brace: *See*—
Ankle brace.
Bracket: *See*—
Terminal bracket.
Brake: *See*—
Vehicle brake.
Brake-beam support, Safety. G. M. Waddy. 1,666,585; Apr. 17.
Brake device. O. Peterson. 1,666,144; Apr. 17.
Brake-operating means. A. Y. Dodge. 1,666,558; Apr. 17.
Brake solution, Hydraulic-. W. G. Calkins. 1,666,871; Apr. 17.
Brassière. J. W. Krause. 1,666,421; Apr. 17.
Bridge. W. Walt. 1,666,586; Apr. 17.
Brief bag. T. W. Johnson. 1,666,878; Apr. 17.
Briquette and using it, Metallurgical. W. B. Runyan. 1,666,312; Apr. 17.
Briquetting. A. Carlson. 1,666,618; Apr. 17.
Broom, Dust-laying. M. R. Behling. 1,666,369; Apr. 17.
Brush, Hair. W. H. Blake. 1,666,081; Apr. 17.
Brush-lifting mechanism for electric motor or the like. G. H. Leland. 1,666,459; Apr. 17.
Buckle. C. J. Dahlgren. 1,666,528–9; Apr. 17.
Building construction. F. H. Franson. 1,666,235; Apr. 17.
Building element. F. M. Venzie. 1,666,818; Apr. 17.
Building unit and construction. F. W. Fitzpatrick. 1,666,199; Apr. 17.
Bumper, Automobile. W. Rabe. 1,666,754; Apr. 17.
Bumper, Automobile. V. Sussin. 1,666,111; Apr. 17.
Bundling machine. J. J. Hart. 1,666,205; Apr. 17.
Burner: *See*—
Gas burner. Oil burner.
Burner. H. Yonehiro. 1,666,807; Apr. 17.
Burning oil. A. P. Holden and P. Morgan. 1,666,207; Apr. 17.
Button, Fastening. A. F. Raymond. 1,666,582; Apr. 17.
Cabinet, Gravity-feed bottle cooling and dispensing. R. E. Lee. 1,666,575; Apr. 17.
Cabinet, Toilet-accessory. W. C. Hiering. 1,666,652; Apr. 17.
Camera-holding stand. W. Buben. 1,666,770; Apr. 17.
Camera, Photomicrographic. F. F. Lucas. 1,666,499; Apr. 17.
Camera shutter. F. Deckel and M. Geiger. 1,666,557; Apr. 17.
Cameras, Slot-shutter mechanism for photographic. F. Grosse. 1,666,852; Apr. 17.
Camp-fire outfit. F. D. Lorton. 1,666,293; Apr. 17.
Camphor, Recovery of. A. Frieden. 1,666,845; Apr. 17.
Can-heading machine. C. Gueritey. 1,666,239; Apr. 17.
Can opener. J. Cereghino. 1,666,366; Apr. 17.
Cap, Bathing. G. P. Kaul. 1,666,098; Apr. 17.
Car construction. K. F. Nystrom. 1,666,299; Apr. 17.
Car roof. C. D. Bonsall. 1,666,115; Apr. 17.

Carburetor. C. E., D. J., and O. B. Monosmith. 1,666,296; Apr. 17.
Card register. D. A. Engström. 1,666,125; Apr. 17.
Card support, Place-. H. M. Rose. 1,666,400; Apr. 17.
Carrier: *See*—
Clothes carrier. Tread carrier.
Carton, Display. D. A. Emerson. 1,666,691; Apr. 17.
Case: *See*—
Cigarette case. Merchandising case.
Case for licenses, etc. E. B. Burrell. 1,666,117; Apr. 17.
Cash drawer, Autographic-register. L. Jensen. 1,666,385; Apr. 17.
Casting machine. F. N. Brown, jr. 1,666,843; Apr. 17.
Centrifugal device. G. H. Leland. 1,666,458; Apr. 17.
Chain, Antiskid. A. L. Johnston, jr. 1,666,497; Apr. 17.
Chain-reversing mechanism. H. A. Clark. 1,666,845; Apr. 17.
Chains, Apparatus for making. A. G. Heinle. 1,666,380; Apr. 17.
Chandelier or similar article. J. A. Boehringer. Des. 74,916; Apr. 17.
Chandelier or similar article. J. A. Boehringer. Des. 74,917; Apr. 17.
Chandelier or similar article. J. A. Boehringer. Des. 74,919; Apr. 17.
Check holder. J. W. Henderson and G. H. Wilson. 1,666,820; Apr. 17.
Cigarette. H. Alexander. 1,666,062; Apr. 17.
Cigarette case. G. W. Whitney. 1,666,520; Apr. 17.
Circuit closer. J. W. Denniston. 1,666,122; Apr. 17.
Circuit making and breaking device. T. Zwelgbergk. 1,666,675; Apr. 17.
Circuits, Repeater. B. G. Björnson. 1,666,676; Apr. 17.
Clamp. J. Anderson. 1,666,079; Apr. 17.
Clamp plate. H. S. Jandus and N. Van Husen. Des. 74,927; Apr. 17.
Clamping mechanism for machine tools. C. Bouillon. 1,666,484; Apr. 17.
Clamping mechanism for machine tools, Cross-rail-. A. Trosch. 1,666,431; Apr. 17.
Clasp and producing the same, Hair. C. A. Gibson. 1,666,138; Apr. 17.
Cleaner: *See*—
Grain cleaner. Windshield cleaner.
Window cleaner.
Cleaning device. G. Tancetti. 1,666,360; Apr. 17.
Clip: *See*—
Paper clip. Tire-chain clip.
Clipper, Hair. N. N. Tomasulo. 1,666,224; Apr. 17.
Clothes carrier. O. Kvare. 1,666,536; Apr. 17.
Clutch-operating device. F. K. Ward. 1,666,225; Apr. 17.
Coating cores. J. S. Little. 1,666,214; Apr. 17.
Cock, Automatic safety angle. R. R. Supplee. 1,666,478; Apr. 17.
Coffee maker. C. E. Page. 1,666,070; Apr. 17.
Coil. H. D. Currier. 1,666,120; Apr. 17.
Coil, Inductance. E. R. Morton. 1,666,661; Apr. 17.
Coke from stills, Apparatus for removing. L. V. Robbins. 1,666,865; Apr. 17.
Collapsible tube. A. P. Wood. 1,666,402; Apr. 17.
Combing and like machines, Waste-collecting device for. W. Hartley. 1,666,379; Apr. 17.
Compensation for regulation. S. E. B. Söderberg. 1,666,270; Apr. 17.
Composition of matter for use in edging fabrics. T. Miller. 1,666,148; Apr. 17.
Composition to be used with antiknock compounds. W. Gaus. 1,666,693; Apr. 17.
Concrete and the like, Staining and hardening. R. B. Lammens. 1,666,423; Apr. 17.
Concrete construction, Anchoring element for. R. B. Mitchell. 1,666,340; Apr. 17.
Concrete pipe, Reenforced-. J. D. Trammell. 1,666,799; Apr. 17.
Concrete slab, Armored reenforced-. J. A. Voskamp. 1,666,156; Apr. 17.
Concrete slab, Armored reenforced-. J. A. Voskamp. 1,666,157; Apr. 17.
Concrete-tile-manufacturing machine. D. Neuvert. 1,666,606; Apr. 17.
Condenser assembly control. H. H. Busse. 1,666,682; Apr. 17.
Connecter for electric circuits. H. C. Foster. 1,666,089; Apr. 17.
Container. H. Sebell. 1,666,221; Apr. 17.
Container, Garment. G. Wordingham. 1,666,434; Apr. 17.
Container, Metal. W. W. Hodgson. 1,666,702; Apr. 17.
Containers, Method and apparatus for making fibrous. J. E. Annen. 1,666,767; Apr. 17.
Controlling and measuring gas supply. T. H. Clements. 1,666,487; Apr. 17.
Cooling attachment for permanent-waving apparatus. L. V. Dorange. 1,666,169; Apr. 17.
Coop, Self-locking chicken. M. S. Holley. 1,666,855; Apr. 17.
Core, Collapsible. P. De Mattia. 1,666,689; Apr. 17.
Core drill, Soft-formation. L. H. Wellensiek. 1,666,726; Apr. 17.
Corn-husking machine. H. V. Shuler. 1,666,796; Apr. 17.
Coupling: *See*—
Flexible coupling. Shaft coupling.
Pipe coupling.
Covering device, Protective. L. Kanowitz. 1,666,601; Apr. 17.
Cowl ventilator. G. E. Grimm. 1,666,874; Apr. 17.
Cribbing. E. C. Alexander. 1,666,250; Apr. 17.
Crossbar for motor-cycle handle bars. J. Lake, jr. Des. 74,931; Apr. 17.
Crosstie. J. E. Christy and J. F. Sloan. 1,666,810; Apr. 17.
Crowbar attachment. E. C. Carlson. 1,666,842; Apr. 17.
Crushing machine. J. A. Dormer and J. G. Malone. 1,666,530; Apr. 17.
Crystal detector. F. E. Mann. 1,666,462; Apr. 17.
Cultivator shovel. J. C. Mecklenburg. 1,666,393; Apr. 17.
Cup and saucer. J. L. Mander. 1,666,389; Apr. 17.
Curler, Hair. L. M. Smidt. 1,666,269; Apr. 17.
Curling apparatus, Hair-. P. Kunin. 1,666,574; Apr. 17.
Curling iron. J. A. Quinn. 1,666,469; Apr. 17.
Curtain handle, Releasable vestibule-. J. B. Smouse. 1,666,073; Apr. 17.
Curtain holder. H. Dalton. 1,666,408–10; Apr. 17.
Curtain ring. A. J. Norris. 1,666,298; Apr. 17.
Curtain stretcher. F. W. Hess. 1,666,622; Apr. 17.
Cutter: *See*—
Thread cutter.
Cutting hat sweat leathers, Apparatus for. E. Israel. 1,666,658; Apr. 17.
Cutting machine. M. Edelman. 1,666,643; Apr. 17.
Cutting machine. A. Spielman. 1,666,271; Apr. 17.
Deck, Floating. A. M. Griffin. 1,666,416; Apr. 17.
Deck or cover for oil tanks, Floating. C. R. Gallagher. 1,666,415; Apr. 17.
Delivery apparatus, Sheet-. M. A. Droitcour. 1,666,489; Apr. 17.
Dental apparatus. M. A. Sparks. 1,666,816; Apr. 17.
Dental floss holder. E. L. Cummer. 1,666,877; Apr. 17.
Derrick. F. Hunt. 1,666,857; Apr. 17.
Derrick construction, Fabricated-. C. B. Foster. 1,666,413; Apr. 17.
Derrick, Fabricated. C. B. Foster. 1,666,414; Apr. 17.
Desk and dressing table, Combination. G. Maier. Des. 74,937; Apr. 17.
Desk, Portable combination. L. E. Myers. 1,666,263; Apr. 17.
Detachable union. E. Von Allmen. 1,666,802; Apr. 17.
Detector: *See*—
Crystal detector.
Dial indicator for gasoline pumps, etc. W. L. Marden. 1,666,100; Apr. 17.
Diathermic apparatus. G. Grossmann. 1,666,697; Apr. 17.
Digging, lifting, and conveying apparatus. J. Zica. 1,666,869; Apr. 17.
Dish, Citrus-fruit-serving. R. Mann. Des. 74,938; Apr. 17.
Disinfecting device for water-closets and the like. L. E. Saunders and M. Finkelstein. 1,666,669; Apr. 17.
Disintegrator. B. Cunniff. 1,666,640; Apr. 17.
Disk wheel, Demountable. J. P. Tarbox. 1,666,722; Apr. 17.
Disk-wheel structure, Heavy-duty. J. H. Hunt. 1,666,703; Apr. 17.
Dispensing apparatus. J. D. Nouls. 1,666,178; Apr. 17.
Display stand and case, Combined. S. B. Lavick. Des. 74,934; Apr. 17.
Display-tray construction for show cases. J. F. Good. 1,666,851; Apr. 17.
Display unit, Merchandise-. F. Hiester. 1,666,821; Apr. 17.
Doll. E. V. Babbitt. Des. 74,911; Apr. 17.
Door, Refrigerator. E. R. Hammond. 1,666,258; Apr. 17.
Doors, Fluid-pressure locking means for car. M. A. Craig, R. P. Steen, and S. A. Logsdon. 1,666,775; Apr. 17.
Doubling machines, Slub catcher and tension for. F. E. Harding. 1,666,565; Apr. 17.
Douche, Vaginal. H. H. Carstens. 1,666,684; Apr. 17.
Dough mixer. W. Guethler. 1,666,698; Apr. 17.
Dough treating. L. S. Harber. 1,666,647; Apr. 17.
Drier: *See*—
Vegetable-matter drier.
Drill: *See*—
Core drill.
Drill and like tool, Rock. A. T. and P. M. Holman. 1,666,383; Apr. 17.
Drill speed box, Master radial-. D. C. Klausmeyer. 1,666,422; Apr. 17.
Drills, Steel retainer for rock. E. B. Lear. 1,666,176; Apr. 17.
Dust extractor. A. H. Stebbins. 1,666,475; Apr. 17.
Duster, Hand. R. W. Jackson. 1,666,096; Apr. 17.
Dusting apparatus. W. L. Pitt. 1,666,350; Apr. 17.
Dyeing preparations for cellulose esters. R. Metzger. 1,666,715; Apr. 17.
Dynamometer. O. E. Buckley. 1,666,680; Apr. 17.
Economizer. A. Ufer. 1,666,076; Apr. 17.
Ejector control. G. L. Kothny. 1,666,141; Apr. 17.
Elastic fabric, Woven. L. B. Chisholm. 1,666,325; Apr. 17.
Electric cord swivel connecter. C. Schuldt. 1,666,247; Apr. 17.
Electric distribution, System of. H. Bany. 1,666,435; Apr. 17.
Electric distribution, System of. H. T. Seeley. 1,666,471; Apr. 17.
Electric distribution, System of. B. S. Weinfield 1,666,433; Apr. 17.

Electric fixture, W. G. Bick and G. D. Rice. 1,666,729; Apr. 17.
Electric fixture support. W. Symmes. 1,666,223; Apr. 17.
Electric heater. C. Pandolfo. 1,666,831; Apr. 17.
Electric motor. M. Andis. 1,666,588; Apr. 17.
Electric striking mechanism. S. Rollin. 1,666,351; Apr. 17.
Electric switch. G. J. Meuer. 1,666,338; Apr. 17.
Electric switch. D. A. Sanford. 1,666,470; Apr. 17.
Electric-switch-actuating mechanism, Float-operated. C. W. Lindemann. 1,666,498; Apr. 17.
Electric switch, Inclosed. D. T. Wadsworth. 1,666,724; Apr. 17.
Electric switch, Lock-controlled. F. J. Watts. 1,666,320; Apr. 17.
Electric tester. A. L. Smith. 1,666,273; Apr. 17.
Electrical operating apparatus. J. M. Schmierer. 1,666,182; Apr. 17.
Electrical safety control circuit for automatic burner equipment. F. Fischer and A. F. Van Pelt. 1,666,331; Apr. 17.
Elevator signal system. C. W. Bassett. 1,666,589; Apr. 17.
Embroidery-hoop holder. C. D. Baldwin. 1,666,323; Apr. 17.
Engine: *See*—
Beating engine. Internal-combustion engine.
Engine lubrication, Sleeve type of internal-combustion. R. L. Skinner and E. H. Lambert. 1,666,184; Apr. 17.
Engine-starting apparatus. H. Pender. 1,666,396; Apr. 17.
Engines, Operating explosive. O. W. Hult. 1,666,384; Apr. 17.
Envelope opener. C. P. Heck and J. R. Sater. 1,666,533; Apr. 17.
Equalizing mechanism for four-wheel brakes. C. Lampre. 1,666,881; Apr. 17.
Evaporating and distilling, Method of and apparatus for. J. S. Forbes. 1,666,777; Apr. 17.
Exhaust silencer. W. H. G. Furnivall, D. B. McLaren, and E. J. Laschinger. 1,666,257; Apr. 17.
Extractor: *See*—
Battery-element extractor. Tooth extractor.
Dust extractor.
Eyeglasses. A. Lemay. 1,666,826; Apr. 17.
Eyelash applicator. E. C. Bunnell. 1,666,116; Apr. 17.
Fabric: *See*—
Elastic fabric.
Fabric. L. B. Chisholm. 1,666,686; Apr. 17.
Fastener, Paper. R. H. Smickle. 1,666,336; Apr. 17.
Fastening device for emergency-exit doors. W. B. Bolles. 1,666,677; Apr. 17.
Fastening means and operating member therefor. N. Statham. 1,666,110; Apr. 17.
Feeder, Poultry. E. S. West. 1,666,322; Apr. 17.
Fence construction. F. A. Ziebarth. 1,666,765; Apr. 17.
Fence-post puller. H. F. Johnson. 1,666,454; Apr. 17.
Filing device. U. S. Armstrong. 1,666,229; Apr. 17.
Film and making the same, Cellulose-derivative. H. J. Hands. 1,666,377; Apr. 17.
Film container. A. F. Victor. 1,666,077; Apr. 17.
Filter. E. J. Sweetland. 1,666,515; Apr. 17.
Filter, Mechanical wave. H. A. Burgess. 1,666,681; Apr. 17.
Filter, Rotary. H. S. Hele-Shaw, R. C. B. Stillman, and J. A. Pickard. 1,666,381; Apr. 17.
Filters, Cake former for continuous rotary. R. O. Boykin. 1,666,279; Apr. 17.
Fireproof safe construction. G. C. Brainard, J. A. Fitch, and E. E. Wolters. 1,666,486; Apr. 17.
Firewood-splitting machine. W. R. Schmidt. 1,666,795; Apr. 17.
Fishing-rod holder. H. Kempf and A. Kiefer. 1,666,705; Apr. 17.
Flag stand. I. K. Martin. Des. 74,939; Apr. 17.
Flask. F. W. Lauer. Des. 74,933; Apr. 17.
Flash light. H. M. Koretzky. 1,666,420; Apr. 17.
Flash light. H. Olaneta. 1,666,264; Apr. 17.
Flexible coupling. E. J. Hall. 1,666,494; Apr. 17.
Flower and plant box. B. A. Hubert. 1,666,240; Apr. 17.
Flower sconce or similar article. J. R. Peirce, 3d, and G. M. Andrews, 2d. Des. 74,944; Apr. 17.
Fluid-abradant-supplying means. A. E. Maynard. 1,666,713; Apr. 17.
Flycatcher. C. March. 1,666,785; Apr. 17.
Flytrap. H. G. A. Schlossareck. 1,666,509; Apr 17.
Forging machine. F. A. Halleck. 1,666,287; Apr. 17.
Form-locating means. L. G. Julihn. 1,666,140; Apr. 17.
Forming machine. G. H. Petri. 1,666,752; Apr. 17.
Frame: *See*—
Binding frame.
Fuel for use in internal-combustion engines. S. Iserman, W. Vernet, and E. Q. Moses. Re16,937; Apr. 17.
Fuel material. T. Nagel. 1,666,663; Apr. 17.
Furnace: *See*—
Hot-air furnace.
Furnace. I. W. Foltz. 1,666,200; Apr. 17.
Furnace. C. J. Huber. 1,666,418; Apr. 17.
Furnace fronts, Oil-burning attachment for. G. N. Scott. 1,666,511; Apr. 17.
Furnace walls and arches, Construction of. W. A. Gilchrist. 1,666,284; Apr. 17.
Furniture fitment. E. Gomme. 1,666,646; Apr. 17.
Fuse for projectiles subjected to a rotary movement around their axes during their trajectory, Percussion. A. Varaud. 1,666,672; Apr. 17.
Fuse, Percussion. L. E. Rémondy. 1,666,792; Apr. 17.
Fuse plug, Luminescent. L. F. Miller. 1,666,339; Apr. 17.
Game. H. D. Hardenstein. 1,666,448; Apr. 17.
Game. E. J. Playfoot. 1,666,718; Apr. 17.
Game board. H. J. A. Steves. 1,666,859; Apr. 17.
Game board for game pieces and surface projectiles. O. D. Sorrell. 1,666,474; Apr. 17.
Game device. J. J. Palumbo. 1,666,788; Apr. 17.
Garter. D. B. Jacobs. 1,666,823; Apr. 17.
Gas-absorption apparatus. W. G. Laird. 1,666,744; Apr. 17.
Gas burner, Water-heater. R. C. Hoyt. 1,666,094; Apr. 17.
Gas heater, Combined radiating and circulating. G. L. Bridge. 1,666,679; Apr. 17.
Gas producer. C. W. Lummis. 1,666,604; Apr. 17.
Gas wells, Method of flowing. G. C. Henceroth. 1,666,779; Apr. 17.
Gasoline from crude oil, Process and apparatus for separating. A. E. Pew, jr., and H. Thomas. 1,666,300; Apr. 17.
Gasoline reserve. H. M. Cooper. 1,666,254; Apr. 17.
Gate: *See*—
Railroad-crossing gate.
Gate. W. F. Werbe. 1,666,727; Apr. 17.
Gauge: *See*—
Pressure gauge.
Gauge. A. O. Cravin. 1,666,556; Apr. 17.
Gauge, Piston-pressure. J. F. Key. 1,666,419; Apr. 17.
Gear and manufacture, Silent. R. W. Lytle. 1,666,576; Apr. 17.
Generator: *See*—
Steam generator.
Generator for electric-arc welding. M. M. Irvine. 1,666,452; Apr. 17.
Glass: *See*—
Splice-laminating glass.
Glass-polishing means, Continuous. A. W. Platt 1,666,847; Apr. 17.
Glazing construction. J. H. Young and W. H. Miller. 1,666,764; Apr. 17.
Globe manipulator. O. E. Phelix. 1,666,468; Apr. 17.
Goggle nose bridge. W. N. Cook. 1,666,407; Apr. 17.
Golf ball. W. Hagen. 1,666,699; Apr. 17.
Golf putter. E. R. Holland. 1,666,174; Apr. 17.
Governor mechanism for prime movers, Emergency. W. P. Dryer. 1,666,490; Apr. 17.
Grain cleaner. D. W. Detwiler. 1,666,370; Apr. 17.
Grain-cracking machine. S. Snyder. 1,666,797; Apr. 17.
Grain-cracking machine. D. B. Taggart. 1,666,798; Apr. 17.
Grate. J. H. Privott and B. C. Williams. 1,666,790; Apr. 17.
Grid for vacuum tubes. G. N. Perryman. 1,666,071; Apr. 17.
Grille, Plaster's. G. F. Voight. 1,666,544; Apr. 17.
Grinder, Gear. A. L. De Leeuw. 1,666,737; Apr. 17.
Grinding machine. O. Sann. 1,666,313; Apr. 17.
Grinding wheel, Automatically-adjustable. A. M. Fuller. 1,666,237; Apr. 17.
Guide, Delivery. C. R. Birdsey. 1,666,161; Apr. 17.
Gurdy. I. Chilman. 1,666,552; Apr. 17.
Gypsum products, Light weight. C. K. Roos and M. G. Allison. 1,666,180; Apr. 17.
Hafnium and zirconium, Separating. A. E. Van Arkle and J. H. de Boer. 1,666,800; Apr. 17.
Hafnium and zirconium, Separation of. D. Coster and G. von Hevesy. 1,666,440; Apr. 17.
Hafnium and zirconium, Separation of. J. H. de Boer. 1,666,811; Apr. 17.
Hair-waving apparatus. W. G. Shelton. 1,666,266; Apr. 17.
Hair-waving implement. W. L. Nancolas. 1,666,217; Apr. 17.
Handle: *See*—
Releasable vestibule-curtain handle.
Handsaws, Apparatus for sharpening. L. S. Miller. 1,666,395; Apr. 17.
Hanger: *See*—
Radiator hanger.
Harrow attachment. J. M. Harlan. 1,666,778; Apr. 17.
Harvester. H. Heuer. 1,666,137; Apr. 17.
Harvester attachment, Grain-. A. Kraft. 1,666,706; Apr. 17.
Harvester, Cane. J. Fisher. 1,666,818; Apr. 17.
Hat, Flexible straw. M. Kraut. 1,666,875; Apr. 17.
Hay-loading device. M. Hegerland. 1,666,092; Apr. 17.
Header, Short-stem milo-maize. W. B. Johnson. 1,666,824; Apr. 17.
Headlight, Automobile. R. B. Stiert. 1,666,151; Apr. 17.
Headlight, Dirigible. W. M. Sweet. 1,666,867; Apr. 17.
Headlight, Tiltable and dirigible. T. C. Holliday. 1,666,856; Apr. 17.
Heater: *See*—
Electric heater. Water heater.
Gas heater.
Heater. J. H. Campbell. 1,666,233; Apr. 17.
Heater. A. A. Nieberding Des. 74,941; Apr. 17.
Heater for charge-forming devices, Air. A. G. Redmond. 1,666,147; Apr. 17.
Heating device. L. F. Clausing. 1,666,867; Apr. 17.
Heel for boots or shoes. P. H. Letchford. 1,666,603; Apr. 17.

Helicopter. H. A. Shuman. 1,666,315; Apr. 17.
Hinge, Windshield. H. G. Kellogg. 1,666,211; Apr. 17.
Holder, Gum-stick. A. L. Jackson. 1,666,095; Apr. 17.
Holding device. H. Nadel. 1,666,662; Apr. 17.
Hollow bracing unit. H. Woodhead and C. W. Stover. 1,666,278; Apr. 17.
Hook: *See*—
Logging hook. Watch bracket end hook.
Horn, Sound-amplifying. J. Kersten. 1,666,571; Apr. 17.
Hose, Nonexpansive. C. C. Bradbury. 1,666,365; Apr. 17.
Hot-air furnace. F. A. Conrad. 1,666,736; Apr. 17.
Hot top. E. J. Turner. 1,666,759; Apr. 17.
Ice cream, Freezing J. Willmann. 1,666,804; Apr. 17.
Ice-scoring machine. F. C. Westman. 1,666,868; Apr. 17.
Indicating and annunciating device, Street. E. Nietham-er. 1,666,503; Apr. 17.
Indicator: *See*—
Street indicator.
Inner-tube tester. G. E. Mancos. 1,666,712; Apr. 17.
Insect-poison feeder. L. A. Mattes. 1,666,538; Apr. 17.
Instrument for setting up profiles. S. Hagen. 1,666,563; Apr. 17.
Insulating unit for deadening vibration and sound. S. Rosenzweig. 1,666,311; Apr. 17.
Interfolding machine. P. J. Christman. 1,666,553; Apr. 17.
Internal-combustion engine. J. A. H. Barkelj. 1,666,159; Apr. 17.
Internal-combustion engine. G. A. Loud. 1,666,710; Apr. 17.
Internal-combustion engine. W. W. Marvin. 1,666,295; Apr. 17.
Internal-combustion engine. P. O. Stribling, jr. 1,666,838; Apr. 17.
Internal-combustion engine, Air-cooled. C. P. Brockway. 1,666,194; Apr. 17.
Internal-combustion engine, Sleeve-valve. J. A. H. Barkelj. 1,666,160; Apr. 17.
Iron: *See*—
Curling iron.
Iron in highly-heated mixers, Preparing pig. K. Stobrawa. 1,666,428; Apr. 17.
Ironing board. W. T. Rogers. 1,666,607; Apr. 17.
Ironing board and table, Combined. E. P. and A. N. Anderson. 1,666,548; Apr. 17.
Ironing or pressing machine pad. S. E. Beck. 1,666,870; Apr. 17.
Jack: *See*—
Lifting jack.
Jack for vehicles, Lifting. J. Klee and A. Schneider. 1,666,455; Apr. 17.
Joint: *See*—
Pipe joint.
Journal box, bearing, wheel, and axle assembly. T. R. Cook. 1,666,368; Apr. 17.
Key holder. B. F. Copp. 1,666,776; Apr. 17.
Kite. L. R. Eddy. 1,666,813; Apr. 17.
Knee pad. D. S. Cooper. 1,666,846; Apr. 17.
Knitted fabric and making same, Warp. E. J. Bennett. 1,666,638; Apr. 17.
Knitting, Apparatus for and method of. R. W. Scott and A. E. Page. 1,666,794; Apr. 17.
Knitting machines, Vertical striper for wide-circular-rib-. W. Larkin. 1,666,784; Apr. 17.
Knob mounting. H. Broomhall. 1,666,731; Apr. 17.
Lace. A. M. Dodd. Des. 74,921; Apr. 17.
Lamp, Bridge. J. B. Salterini. Des. 74,945–6; Apr. 17.
Lamp for use on motor vehicles and for other purposes. S. L. Price. 1,666,876; Apr. 17.
Lamp holder and reflector, Combined electric-. R. Swimmer. Des. 74,954; Apr. 17.
Lamp, Outdoor. W. F. Hunt. 1,666,209; Apr. 17.
Lamp stand. I. H. Kravitt. Des. 74,930; Apr. 17.
Latches, Operating means for automobile door. F. Kleinsmith. Des. 16,938; Apr. 17.
Lens polisher. H. W. Hill. 1,666,701; Apr. 17.
Lifting jack. A. H. Johnson. 1,666,741–2; Apr. 17.
Light: *See*—
Flash light.
Light-supporting structure, Signal-. D. J. McCarthy. 1,666,102; Apr. 17.
Lighter, Cigar. W. J. Butler. 1,666,809; Apr. 17.
Lighter for cigars, cigarettes, etc., Electric. S. L. Wolfson. 1,666,546; Apr. 17.
Lighting apparatus for gas burners. F. D. Vartanian. 1,666,610; Apr. 17.
Lighting-fixture backplate or article of analogous nature. A. P. Seidell. Des. 74,949–53; Apr. 17.
Lighting fixtures or similar articles, Body frame for. J. A. Boehringer. Des. 74,913; Apr. 17.
Lighting fixtures or similar articles, Canopy for electric-. J. A. Boehringer. Des. 74,914; Apr. 17.
Lightning rod. C. D. Dallas. 1,666,326; Apr. 17.
Lignin, Utilization of. R. Griessbach and J. Eisele. 1,666,696; Apr. 17.
Liquid-fuel-burning furnace. J. McDonald. 1,666,747; Apr. 17.
Loading freight cars. J. W. Leslie. 1,666,213; Apr. 17.
Lock: *See*—
Bed lock.
Lock. O. A. May. 1,666,786; Apr. 17.
Lock. H. E. Soref. 1,666,880; Apr. 17.
Lock. F. J. Watts. 1,666,319; Apr. 17.
Lock. H. Williams. 1,666,078; Apr. 17.
Lock frame or similar article. M. Leventhal. Des. 74,936; Apr. 17.
Locks, Safety device for. G. Scally. 1,666,542; Apr. 17.
Locking device. J. Kries. 1,666,783; Apr. 17.
Locomotive mover. J. B. Irwin. 1,666,780; Apr. 17.
Locomotive, Steam turbine. G. Belluzzo. 1,666,590; Apr. 17.
Locomotives, Attachment to. P. B. Kamedish. 1,666,388; Apr. 17.
Logging hook. C. W. Spiering. 1,666,272; Apr. 17.
Looms, Clutch mechanism for. J. Northrop. 1,666,717; Apr. 17.
Looms, Let-off for terry. H. A. Davis. 1,666,872; Apr. 17.
Looms, Shuttle-checking mechanism for. G. E. Geoghegan. 1,666,620; Apr. 17.
Looms, Shuttle controlling mechanism for tension-. C. H. Draper. 1,666,443; Apr. 17.
Loud speaker. H. M. Dressel. 1,666,198; Apr. 17.
Loud speaker. L. D. Harris. 1,666,854; Apr. 17.
Machine for drawing out the yarn from textile fabrics for the production of openwork. J. B. Durupt. 1,666,812; Apr. 17.
Machine for laying bricks. R. G. Cottler. 1,666,555; Apr. 17.
Machine for making dry-cell elements. R. Baillie and M. A. Adam. 1,666,067; Apr. 17.
Machine for the production of textile fabrics. C. Bilhartz. 1,666,591; Apr. 17.
Machinery mounting. S. Rosenzweig. 1,666,149; Apr. 17.
Magnetic motor. O. R. Anderson. 1,666,065; Apr. 17.
Magnetizable materials, Treating. A. F. Bandur. 1,666,191; Apr. 17.
Magnometer. J. N. Ray. 1,666,309; Apr. 17.
Mail box. A. E. Delbert. 1,666,281; Apr. 17.
Manicuring implement. E. L. Eberhardt. 1,666,619; Apr. 17.
Marking or cutting device. F. Wolf. 1,666,479; Apr. 17.
Match box, ash tray, and other boxes and trays. L. Downes-Martin. 1,666,294; Apr. 17.
Match-making machine. J. E. Zomnir and C. L. Pfersch. 1,666,547; Apr. 17.
Mattress. H. G. Brandwein. 1,666,280; Apr. 17.
Mattress-filling machine. P. Baker. 1,666,549; Apr. 17.
Measure, Liquid. W. R. Brookins. 1,666,085; Apr. 17.
Measuring the perimeter of teeth, Instrument for. F. Tizzani. 1,666,430; Apr. 17.
Mechanism for opening and closing gates, windows, and similar structures. F. E. Wellfare. 1,666,113; Apr. 17.
Memorization device. J. E. McDade. 1,666,337; Apr. 17.
Merchandising case, Portable. C. W. Lewis. 1,666,537; Apr. 17.
Mesh machine. F. H. Lynds. 1,666,745; Apr. 17.
Metal, Cutting slots in. C. J. Coberly. 1,666,166; Apr. 17.
Metal tube. J. L. Sussman. 1,666,401; Apr. 17.
Metal tubes, Process and apparatus for spinning. H. E. Rainaud. 1,666,581; Apr. 17.
Meter. W. V. Stockton, jr. 1,666,075; Apr. 17.
Mica-separating machine. L. T. Frederick. 1,666,130; Apr. 17.
Milk-bottle container. T. Iversen. 1,666,289; Apr. 17.
Milk product, Malted-. L. A. Thompson. 1,666,633; Apr. 17.
Mixer: *See*—
Dough mixer.
Mixing machine. H. H. Hackstedde. 1,666,285; Apr. 17.
Mixing machine, Rotary. J. F. Burn and J. S. Lancaster. 1,666,324; Apr. 17.
Modulation system. R. V. L. Hartley. 1,666,206; Apr. 17.
Molding machine. F. E. McCabe. 1,665,577; Apr. 17.
Molding machines, Automatic control for the ramming heads of. F. E. McCabe. 1,666,578; Apr. 17.
Mop. A. De Rose. 1,666,871; Apr. 17.
Mop and wringer, Combined. W. R. and J. H. Paul. 1,666,346; Apr. 17.
Mosaics, Making. S. H. Boynton. 1,666,232; Apr. 17.
Motor: *See*—
Electric motor.
Motor-compressor apparatus. P. P. Pescara. 1,666,630; Apr. 17.
Motor-controlling apparatus. J. K. Mickley. 1,666,748; Apr. 17.
Motor-cycle front forks, Stabilizer for. J. Lake, jr. Des. 74,932; Apr. 17.
Motor or pump, Rotary. A. W. Weeden. 1,666,321; Apr. 17.
Motors or the like, Brush lifter for electric. G. H. Leland. 1,666,457; Apr. 17.
Mouthpiece for horns. W. Wolfe. 1,666,228; Apr. 17.
Music chart. H. D. Hoffmeister. 1,666,382; Apr. 17.
Musical instrument. E. M. Weaver. 1,666,226; Apr. 17.
Musical instruments, Expression-controlling mechanism for pneumatically-operated. H. J. La Joie, U. Urquhart, and F. Pokorny. 1,666,602; Apr. 17.
Nail, Lath-spacing. W. W. Galbreath. 1,666,561; Apr. 17.
Nail straightener. M. C. V. 1,666,844; Apr. 17.
Naphthoquinones, Manufacture of new derivatives of. R. Lantz and A. Wahl. 1,666,241; Apr. 17.
Nipple. T. and G. Campobasso. 1,666,772; Apr. 17.
Nitrogen and hydrogen, Producing mixtures of. W. Gans and W. Wild. 1,666,694; Apr. 17.
Novelty, Wind-actuated. W. P. Vincent. 1,666,543; Apr. 17.

Nozzle, Exhaust. W. S. Haines. 1,666,376; Apr. 17.
Nut, Lock. I. Guiducci. 1,666,375; Apr. 17.
Oil burner. W. Borkowicz. 1,666,069; Apr. 17.
Oil burner. E. Skillman. 1,666,268; Apr. 17.
Oil from shale, Apparatus for extracting. R. Crawshaw. 1,666,488; Apr. 17.
Oil, Process and apparatus for distilling mineral. A. E. Pew, jr. and H. Thomas. 1,666,301–2; Apr. 17.
Oil tank. J. N. Pew, jr. 1,666,666–7; Apr. 17.
Oil wells, Apparatus for sinking. C. A. Lord. 1,666,461; Apr. 17.
Oils, Distilling. A. E. Harnsberger. 1,666,597; Apr. 17.
Optical instrument. H. Clement and B. M. Barron. 1,666,406; Apr. 17.
Ornament, Decorative. R. B. Kingman. 1,666,099; Apr. 17.
Ornamented article and method of making the same. G. R. Houghtaling. 1,666,138; Apr. 17.
Oven with revolving hearth, Ring. L. Honigmann and F. Bartling. 1,666,656; Apr. 17.
Oxidation of alcohol. S. Goldschmidt. 1,666,447; Apr. 17.
Pad: *See*—
Ironing or pressing ma- Knee pad.
chine pad.
Padlock, Permutation. G. E. B. Jakopets. 1,666,453; Apr. 17.
Pan: *See*—
Bake pan.
Paper and receiving solution for telautography, Receiving. M. Ferree and J. Wissmar. 1,666,329; Apr. 17.
Paperboard-cutting machine. C. E. Colgrove. 1,666,687; Apr. 17.
Paper clip. C. C. Sigler. 1,666,514; Apr. 17.
Paper-making machine. C. Seybold and J. Boltersdorf. 1,666,472; Apr. 17.
Parachute container and ejector for aeroplanes. J. La Porte. 1,666,456; Apr. 17.
Paraformaldehyde, Manufacture of. E. Kuss. 1,666,708; Apr. 17.
Pencil, Magazine. M. H. Caldwell and I. Green. 1,666,405; Apr. 17.
Pens, Device for cleaning fountain. W. Tong. 1,666,186; Apr. 17.
Perambulator. E. Checconi. 1,666,439; Apr. 17.
Petroleum hydrocarbons, Converting. W. M. Cross. 1,666,119; Apr. 17.
Picker-stick check. A. Hingle. 1,666,822; Apr. 17.
Picture-projection apparatus, Motion-. M. C. Fullenlove. 1,666,131; Apr. 17.
Pile fabric. J. Leiper. Des. 74,935; Apr. 17.
Pipe: *See*—
Concrete pipe.
Pipe coupling, Automatic train-. J. Robinson. 1,666,310; Apr. 17.
Pipe joint, Expansible. F. Hodgkinson. 1,666,495; Apr. 17.
Pistol, Scaring. F. Möller, M. Moritz, and A Gerstenberger. 1,666,579; Apr. 17.
Piston kicker. E. Hollowell. 1,666,286; Apr. 17.
Piston ring. E. H. Packer. 1,666,750; Apr. 71.
Piston rings, Manufacturing. M. Okochi and K. Ebihara. 1,666,343; Apr. 17.
Plaster netting, Self-furring. O. W. Johnson. 1,666,535; Apr. 17.
Plating attachment. J. J. Egan and E. Gregor. 1,666,123; Apr. 17.
Pliers. J. A. Peterson. 1,666,467; Apr. 17.
Pliers, Wire-bending. E. B. Varney. 1,666,801; Apr. 17.
Plug, Turning. J. C. Jankus. 1,666,496; Apr. 17.
Pottery or the like, Manufacture of. J. W. Mellor. 1,666,828; Apr. 17.
Power-operated wrench. J. Jorden. 1,666,600; Apr. 17.
Powder press. W. G. Kendall. 1,666,212; Apr. 17.
Power press. H. C. H. Walsh. 1,666,275; Apr. 17.
Power regulation, Electric. R. Carlstedt. 1,666,438; Apr. 17.
Press: *See*—
Powder press. Printing press.
Power press.
Press. A. B. Clisson. 1,666,734; Apr. 17.
Press for tie-plate flanges, Bending. M. Ovestrud. 1,666,345; Apr. 17.
Presses, Fluid-pressure control for. J. A. Hinger, D. B. Mayer, and J. Wilson. 1,666,449; Apr. 17.
Pressing implement. L. Hoffman. 1,666,599; Apr. 17.
Pressure gauge, McLeod-type. C. S. Hornberger. 1,666,739; Apr. 17.
Pressure gauge, McLeod-type. P. E. Klopsteg. 1,666,743; Apr. 17.
Pressure gauge, Pneumatic-. A. J. Michelin. 1,666,787; Apr. 17.
Pressure regulator. H. Söffge. 1,666,609; Apr. 17.
Price-tag holder and attaching device. R. A. League. 1,666,859; Apr. 17.
Printing machines, Safety device for. L. P. Schlindler. 1,666,584; Apr. 17.
Printing machines, Sheet-delivery apparatus for use on. A. W. Ranger. 1,666,246; Apr. 17.
Printing press. R. G. Whitlock. 1,666,188; Apr. 17.
Projecting machine. B. A. Proctor. 1,666,304; Apr. 17.
Projecting screen, Daylight. O. Büchner. 1,666,808; Apr. 17.
Projection machine, News-. B. A. Proctor. 1,666,305; Apr. 17.
Program-selecting circuits. J. P. Toomey. 1,666,153; Apr. 17.
Programs over wires, Distribution of. J. F. Toomey. 1,666,154; Apr. 17.
Pruning shears, Stem-gripping. F. H. Blincoe. 1,666,253; Apr. 17.
Puller: *See*—
Fence-post puller.
Pulley, Split. L. Rouanet. 1,666,352; Apr. 17.
Pulverizing machine. E. H. Elzemeyer. 1,666,124; Apr. 17.
Pump. D. H. McGogy. 1,666,463; Apr. 17.
Pump, Gasoline. E. E. Eickmeyer. 1,666,644; Apr. 17.
Pump, Liquid-dispensing. L. C. Ament. 1,666,064; Apr. 17.
Pump-operating mechanism. E. G. Willrich. 1,666,227; Apr. 17.
Pump, Rotary. E. C. Peters. 1,666,466; Apr. 17.
Pump, Siphon. G. V. Gavaza. 1,666,850; Apr. 17.
Pumping apparatus, Duplex. A. C. Durdin, jr. 1,666,873; Apr. 17.
Pumping lubricating cup. G. L. Moore. 1,666,502; Apr. 17.
Pumping power, Hydraulic. W. G. Corey and C. A. Trow. 1,666,255; Apr. 17.
Punching and shearing press, Tie-plate. M. Ovestrud. 1,666,344; Apr. 17.
Rack: *See*—
Auto carrier rack. Towel rack.
Rack or holder for paper bags. A. Sether. 1,666,355; Apr. 17.
Radiator cap. L. Boatright. Des. 74,912; Apr. 17.
Radiator hanger. D. C. Ruff and J. H. Healy. 1,666,866; Apr. 17.
Radiator, Oil. C. W. Bradford. 1,666,485; Apr. 17.
Radiator ornament. N. L. Wright. 1,666,806; Apr. 17.
Radio apparatus, Adjusting the antenna of. A. Zilliger. 1,666,480; Apr. 17.
Radio appliance. J. M. Peterson. 1,666,505; Apr. 17.
Radiocondenser. P. A. Chamberlain. 1,666,163; Apr. 17.
Radioreceivers, Volume-control system for. E. F. Andrews. 1,666,522; Apr. 17.
Razor-blade holder. J. P. Colgrove. 1,666,118; Apr. 17.
Railroad-crossing gate, Automatic electric. R. O. Dorgan. 1,666,559; Apr. 17.
Railroad-track structure. W. Dalton. 1,666,688; Apr. 17.
Railway accidents, Safety device for preventing. H. Grebehem. 1,666,695; Apr. 17.
Railway cattle guard. C. D. Pruett and W. Kadernaschka. 1,666,348; Apr. 17.
Railway rail, wheel, and brake shoe. J. L. Connelly. 1,666,167; Apr. 17.
Railway rails, Rail anchor or anticreep for. P. B. Meyer. 1,666,716; Apr. 17.
Railways and the like, Safety device for. P. T. Webb. 1,666,362; Apr. 17.
Receptacle for cigar, cigarette, and match stubs, Sanitary. H. J. Miller. 1,666,215; Apr. 17.
Refining heavy mineral oils by means of sulphur dioxide in a continuous operation. L. Edeleanu, K. Pfeiffer, K. Gross, and P. Jodeck. 1,666,560; Apr. 17.
Refrigerator. B. C. von Platen and C. G. Munters. 1,666,760; Apr. 17.
Register: *See*—
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Register. J. W. Kelch and J. J. Sunday. 1,666,569; Apr. 17.
Regulator: *See*—
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Resistance coil. N. Ashbridge. 1,666,066; Apr. 17.
Rim spreader. P. J. McCrink. 1,666,142; Apr. 17.
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Ring or article of similar nature, Finger. B. Gross. Des. 74,926; Apr. 17.
Roach trap, Electrical. S. D. Trumbo. 1,666,723; Apr. 17.
Road signal. N. E. McHenry. 1,666,862; Apr. 17.
Road strip. L. G. Woods. 1,666,612–13; Apr. 17.
Roaster. B. E. Miglin. 1,666,394; Apr. 17.
Rocket. T. G. Hitt. 1,666,598; Apr. 17.
Rocket, Revolving. T. G. Hitt. 1,666,534; Apr. 17.
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Rod elevator and spider, Combination sucker-. D. H. Greenwood. 1,666,621; Apr. 17.
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Roller for typewriters, Platen. M. H. Alexanian. 1,666,403; Apr. 17.
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Roof and sealing means therefor, Floating. C. F. H. Bohnhardt. 1,666,525; Apr. 17.
Roof flashing. A. Bloxham. 1,666,231; Apr. 17.
Roofing. C. E. Rahr and F. C. Overbury. 1,666,755; Apr. 17.
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Sawing machine. W. B. Stone. 1,666,632; Apr. 17.

Scales, Weight-adjusting mechanism for weighing. G. F. Hochriem. 1,666,655; Apr. 17.
Screen: *See*—
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Screen. J. H. Park. 1,666,580; Apr. 17.
Secrecy system, Plural-channel. R. A. Heising. 1,666,651; Apr. 17.
Separator for the electrodes of electrolytic cells. J. L. Woodbridge. 1,666,762; Apr. 17.
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Signal switch, Hospital. J. O. Cadieux. 1,666,689; Apr. 17.
Skate. C. B. Drevitson. 1,666,690; Apr. 17.
Sound-amplifying construction. J. Kersten. 1,666,570; Apr. 17.
Spinning-ring traveler. C. F. Merrill. 1,666,714; Apr. 17.
Spoke end connection, Hollow-. H. P. Arnt. 1,666,615; Apr. 17.
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Saw guide, Tilting. F. E. Collier. 1,666,087; Apr. 17.
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Scarf, Knit. A. F. Goetze. 1,666,819; Apr. 17.
Scooter. K. S. McFarlan. 1,666,827; Apr. 17.
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Signal faceplate. A. R. P. Johnson. Des. 74,928; Apr. 17.
Signaling device, Automobile speed-warning. W. J. Craft and O. M. Clinton. 1,666,441; Apr. 17.
Silk, Process for the after treatment of freshly-spun artificial. F. J. Gahlert. 1,666,090; Apr. 17.
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Skate roller. E. A. Copeland. 1,666,168; Apr. 17.
Slicing, toasting, and buttering machine, Automatic. R. Lentz. 1,666,335; Apr. 17.
Snow-removing machine. M. Souhigian. 1,666,358; Apr. 17.
Socket, Electric connecter. H. D'Olier, jr. 1,666,411; Apr. 17.
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Spring trap for trapping fur-bearing animals, Projecting. W. Biederman. 1,666,728; Apr. 17.
Stack shaper. F. W. Horstkotte. 1,666,451; Apr. 17.
Stair-landing construction. A. L. Smith. 1,666,222; Apr. 17.
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Switch. G. A. Yanochowski. 1,666,763; Apr. 17.
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Thread cops, Suport for. J. R. Mowat. 1,666,216; Apr. 17.
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Tool and feeding mechanism therefor, Rotatable. J. H. Lane. 1,666,624; Apr. 17.
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Tray or similar article, Sandwich. R. E. McEldowney. Des. 74,940; Apr. 17.
Tray or the like. F. A. Purchas. 1,666,668; Apr. 17.
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Tray support, Adjustable. M. S. Bright. 1,666,084; Apr. 17.
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Turbine casing or housing, High-pressure-. F. Lösel. 1,666,627; Apr. 17.
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Wall bracket plate or similar article, Electric. J. A. Boehringer. Des. 74,916; Apr. 17.
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CLASSIFICATION OF PATENTS

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NOTE.—First number—class, second number—subclass, third number—patent number.

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April 24, 1928

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Einar Hausvik & Co., Bergen, Norway. Canned sardines. 241,281; Apr. 24; Serial No. 248,739; published Feb. 7, 1928. Class 46.

Abbott, Frederick J., New York, N. Y. Liquid for the treatment of pyorrhea. 241,305; Apr. 24; Serial No. 257,134; published Feb. 14, 1928. Class 6.

Abt-Bernot, Inc., New York, N. Y. Clam chowder, clam juice, etc. 241,351; Apr. 24; Serial No. 259,037; published Feb. 14, 1928. Class 46.

Acme Brick Company, Fort Worth, Tex. Brick and tile. 241,432; Apr. 24. Class 12.

Acme Steel Company, Chicago, Ill. Stretchers and sealers. 241,287; Apr. 24; Serial No. 250,345; published Feb. 14, 1928. Class 23.

Addressograph Company, Chicago, Ill. Printing machines. 241,337; Apr. 24; Serial No. 259,522; published Feb. 14, 1928. Class 23.

Alaska Consolidated Canneries Inc., Seattle, Wash. Canned salmon. 241,307; Apr. 24; Serial No. 246,378; published Feb. 14, 1928. Class 46.

Alberta Candy Co., Inc., San Francisco, Calif. Candy. 241,314; Apr. 24; Serial No. 244,123; published Feb. 14, 1928. Class 46.

Altman, Harris, & Co. Inc., New York, N. Y. Milk and milk products. 241,318; Apr. 24; Serial No. 241,480; published Feb. 14, 1928. Class 46.

American Association of Medical Milk Commissions, Inc., doing business as Certified Milk Producers' Association of America, Inc., Brooklyn, N. Y. Fresh or raw milk and cream. 241,338; Apr. 24; Serial No. 259,518; published Feb. 14, 1928. Class 46.

American Biscuit Company, San Francisco, Calif. Crackers. 241,328; Apr. 24; Serial No. 221,088; published Feb. 14, 1928. Class 46.

American Education Press, Inc., Columbus, Ohio. Publication. 241,416; Apr. 24; Serial No. 247,405; published Feb. 14, 1928. Class 38.

American Floor Surfacing Machine Company, The, Toledo, Ohio. Abrasive paper. 241,414; Apr. 24; Serial No. 258,308; published Feb. 14, 1928. Class 4.

Auto Grill Co., The. (See Carter, Clarence W.)

Bailey, Harvey W., doing business as General Research Foundation Society, Seattle, Wash. Circulars and other literature. 241,391; Apr. 24; Serial No. 258,512; published Feb. 14, 1928. Class 38.

Batex Laboratory, Inc., Camden, N. J. Chemical compound. 241,278; Apr. 24; Serial No. 254,989; published Feb. 14, 1928. Class 6.

Beadle, Eugene E., doing business as The Pickett Drug Company, Waterbury, Conn. Germicidal inhalants for nose, mouth, and throat affections. 241,343; Apr. 24; Serial No. 259,347; published Feb. 14, 1928. Class 6.

Bear Mill Manufacturing Company, Inc., New York, N. Y. Fabrics. 241,327; Apr. 24; Serial No. 225,163; published Feb. 14, 1928. Class 42.

Beveridge Paper Company, The, Indianapolis, Ind. Cover paper, bristol and card board, calendar board, etc. 241,425; Apr. 24. Class 37.

Bichle, Charles J., St. Louis, Mo. Rye bread. 68,158; renewed Mar. 10, 1928.

Biflex Products Company, Waukegan, Ill. Automatic oil-pressure-controlled devices for controlling the feeding of fuel. 241,282; Apr. 24; Serial No. 249,150; published Feb. 14, 1928. Class 23.

Birmingham Small Arms Company Limited, The, Small Heath, near Birmingham, England. Firearms and parts thereof. 68,285; renewed Mar. 24, 1928.

Birmingham Small Arms Company Limited, The, Small Heath, near Birmingham, England. Certain vehicles and parts thereof. 69,725; renewed June 30, 1928.

Birmingham Small Arms Company, Limited, The, Small Heath, near Birmingham, England. Certain machines. 70,339; renewed Aug. 25, 1928.

Brennan, Joseph T., doing business as D. H. Maguire & Co., Haverhill, Mass. Preparation used in washing clothes and other general household cleaning. 241,426; Apr. 24. Class 4.

Bronstein, Samuel O., doing business as Bronstein Pharmacal Co. Not Inc., Chicago, Ill. Medicinal preparation. 241,300; Apr. 24; Serial No. 256,446; published Feb. 14, 1928. Class 6.

Brooklyn Daily Eagle, The, Brooklyn, N. Y. Column on the woman's page. 241,436; Apr. 24. Class 38.

Brown & Soerensen, New York, N. Y. Dishcloths, pot cloths, etc. 241,301; Apr. 24; Serial No. 256,561; published Feb. 14, 1928. Class 42.

Browne, Edward A., doing business as E. A. Browne & Co., Yonkers, N. Y. Metal polish. 241,390; Apr. 24; Serial No. 258,457; published Feb. 14, 1928. Class 4.

Buchanan, James, & Co. Limited, London, England. Whisky. 68,310; renewed Mar. 24, 1928.

Burlington Blanket Company, Burlington, Wis. Horse blankets. 69,098; renewed May 19, 1928

Campbell, John, & Co., New York, N. Y. Conditioner for fibres for weaving. 241,352; Apr. 24; Serial No. 259,006; published Feb. 14, 1928. Class 6.

Carter, Clarence W., doing business as The Auto Grill Co., Minneapolis, Minn. Electric grills. 241,422; Apr. 24; Serial No. 253,639; published Feb. 21, 1928. Class 21.

Certified Milk Producers' Association of America, Inc. (See American Association of Medical Milk Commissions, Inc.)

Chambers, George T., La Grange, Ill. Locomotive and car replacer. 241,395; Apr. 24; Serial No. 259,199; published Feb. 14, 1928. Class 14.

Chapman, Charles C., Fullerton and Lindsay, Calif. Fresh fruits. 241,316; Apr. 24; Serial No. 242,819; published Feb. 14, 1928. Class 46.

Chase, W. P., Candy Corp., New York, N. Y. Candy mints. 241,329; Apr. 24; Serial No. 220,879; published Jan. 25, 1927. Class 46.

Chem. Pharm. Laboratorium für Transkutan Präparate. (See Hammel, Ernst.)

Chemische Fabriks Werke Gesellschaft mit beschränkter Haftung, Vienna, Austria, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Disinfectants. 68,546; renewed Apr. 14, 1928.

Chemical Foundation, Incorporated, The. (See Chemische Fabriks Werke Gesellschaft mit beschränkter Haftung, assignor.)

Chemical Foundation, Incorporated, The. (See Daimler-Motoren-Gesellschaft, assignor.)

Chemical Foundation, Incorporated, The. (See Max Elb Gesellschaft mit beschränkter Haftung, assignor.)

Chemical Foundation, Incorporated, The. (See Zeiss, Carl, assignor.)

Chillington Tool Company, Limited, The, Wolverhampton, England. Tools. 67,850; renewed Feb. 25, 1928.

Clark, Charles T., doing business as Clark Chemical Co., Bay City, Mich. Cod-liver-oil emulsion. 241,339; Apr. 24; Serial No. 259,483; published Feb. 14, 1928. Class 6.

Clark Loose Leaf Manufacturing Company, New York, N. Y. Bridge pads. 241,423; Apr. 24. Class 37.

Clark Loose Leaf Manufacturing Company, New York, N. Y. Calendar and desk pads. 241,429; Apr. 24. Class 37.

Clean Surface Products Company, Chicago, Ill. Neutral paste and liquid cleaning and polishing products. 241,402; Apr. 24; Serial No. 252,683; published Feb. 14, 1928. Class 4.

Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes and toilet waters. 241,384; Apr. 24; Serial No. 257,861; published Feb. 14, 1928. Class 6.

Courtaulds, Limited, London, England. Yarns of cellulose. 241,304; Apr. 24; Serial No. 258,730; published Feb. 14, 1928. Class 43.

Daimler-Motoren-Gesellschaft, Unterturkheim, near Stuttgart, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Leather dressing and leather blacking. 68,797; renewed Apr. 28, 1928.

Daniell, Hal., doing business as The Radova Co., Atlanta, Ga. Metal radiator covers. 241,371; Apr. 24; Serial No. 258,405; published Feb. 14, 1928. Class 32.

De Bar, Harold L., Los Angeles, Calif. Antiseptic tablets, vaginal douche tablets, vaginal antiseptic, etc. 241,302; Apr. 24; Serial No. 256,514; published Feb. 14, 1928. Class 6.

De Mark, Nicholas, doing business as De Mark Products Company, Pasadena, Calif. Cleaning preparation. 241,431; Apr. 24. Class 4.

Derneli Potato Products Co., Chicago, Ill. Potato chips. 241,320; Apr. 24; Serial No. 229,437; published Feb. 14, 1928. Class 46.

Donald Brush Company, The, Camden, N. J. Mops, dusters, and brushes. 241,393–4; Apr. 24; Serial Nos. 258,897–8; published Feb. 14, 1928. Class 29.

Dorothy Dodd Shoe Company, Boston, Mass. Hosiery. 70,477; renewed Sept. 8, 1928.

D'Orsay Perfumeries Corporation, New York, N. Y. Soaps. 241,433; Apr. 24. Class 4.

Dunbar-Dukate Company, Inc., New Orleans, La. Canned shrimp, raviolis, and oysters. 241,350; Apr. 24; Serial No. 259,053; published Feb. 14, 1928. Class 46.

Eclipse-Needles Co. (See Sternberger, Samuel, & Co., assignor.)

Ecopo Chemical Company. (See Thorpe, Arthur C.)

Edmanson, Bates & Company, Limited, Toronto, Ontario, Canada. Pills, medicines, etc. 241,435; Apr. 24. Class 6.

Eesley, J. F., Milling Company, Plainwell, Mich. Wheat flour. 241,405; Apr. 24; Serial No. 255,000; published Dec. 27, 1927. Class 46.

Eisenmayer Milling Co., Springfield, Mo. Self-rising flour. 241,389; Apr. 24; Serial No. 257,538; published Feb. 14, 1928. Class 46.

Ellenbogen, Louis K., New York, N. Y. Frocks and coats. 241,297; Apr. 24; Serial No. 256,286; published Jan. 10, 1928. Class 39.

Emery Food Company, Chicago, Ill. Tomato catsup and sauce, and dried fruits. 241,375; Apr. 24; Serial No. 258,255; published Feb. 14, 1928. Class 46.

Ferraris, Pete, doing business as P. Ferraris Fruit and Produce, Los Angeles, Calif. Fresh vegetables and fresh deciduous fruits. 241,323; Apr. 24; Serial No. 231,992; published Feb. 14, 1928. Class 46.

First Texas Chemical Manufacturing Co., Dallas, Tex. Tablets for use as an analgesic, etc. 241,358; Apr. 24; Serial No. 258,863; published Feb. 14, 1928. Class 6.

First Texas Chemical Manufacturing Co., Dallas, Tex. Preparation for the treatment of bronchial disorders. 241,359; Apr. 24; Serial No. 258,861; published Feb. 14, 1928. Class 6.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 241,309; Apr. 24; Serial No. 247,533; published Feb. 14, 1928. Class 42.

Fresno Beverage Company, Fresno and Los Angeles, Calif. Ginger ale. 241,294; Apr. 24; Serial No. 255,979; published Feb. 14, 1928. Class 45.

Frey, Frank, New Orleans, La. Canned vegetables, shellfish, and table syrup. 241,284; Apr. 24; Serial No. 249,787; published Feb. 14, 1928. Class 46.

Friedman, Edward, Inc., New York, N. Y. Shoes. 241,378; Apr. 24; Serial No. 258,175; published Feb. 7, 1928. Class 39.

Friedman, I. M., & Co. Inc., New York, N. Y. Cotton piece goods. 241,274; Apr. 24; Serial No. 253,236; published Feb. 14, 1928. Class 42.

General Research Foundation Society. (See Bailey, Harvey W.)

Glass Sales Agency, Inc., Oakland, Calif. Toilet paper, paper towels and napkins. 241,424; Apr. 24. Class 37.

Gold Medal Products Co., Philadelphia, Pa. Barley-malt syrup. 241,427; Apr. 24. Class 46.

Goldsmith & Mattick, New York, N. Y. Sport coats and dress coats. 241,387; Apr. 24; Serial No. 257,806; published Jan. 10, 1928. Class 39.

Goodman & Suss Inc., Rochester, N. Y. Woolen fabrics. 241,434; Apr. 24. Class 42.

Graham-Paige Motors Corporation, Detroit, Mich. Automobiles, and constructive parts. 241,330; Apr. 24; Serial No. 260,010; published Feb. 21, 1928. Class 19.

Grahnm Paper Company, St. Louis, Mo. Wrapping paper. 70,429; renewed Sept. 1, 1928.

Hall, Harry W., San Francisco, Calif. Supports or tabs for maps and similar sheets. 241,408; Apr. 24; Serial No. 256,120; published Feb. 14, 1928. Class 37.

Hall, Henry J. S., W. H., and M. M., and Irad Hawley, executors of the estate of William H. Hall, deceased, assignor to Hall & Buckel, Inc., New York, N. Y. Dentifrices. 65,631; renewed Oct. 15, 1927.

Halpern, J., doing business as J. Halpern Company, Pittsburgh, Pa. Fireworks. 241,397; Apr. 24; Serial No. 259,168; published Feb. 14, 1928. Class 9.

Hammel, Ernst, doing business as Chem. Pharm. Laboratorium für Transkutan Präparate, Berlin, Germany. Medicinal bath preparations. 241,377; Apr. 24; Serial No. 258,209; published Feb. 14, 1928. Class 6.

Harris Saddlery Company, The, assignor, by mesne assignments, to Harris-Kuhn Saddlery Co., Cairo, Ill. Harness, saddles, horse collars, whips, and lap robes. 68,927; renewed May 5, 1928.

Hawley, Irad, executor. (See Hall, Henry J. S., W. H., and M. M., and Hawley.)

Haynes-Henson Shoe Co., Knoxville, Tenn. Leather boots and shoes. 69,586; renewed June 23, 1928.

Haynes-Henson Shoe Co., Knoxville, Tenn. Leather boots and shoes. 69,810; renewed July 7, 1928.

Hemming, Carl H., doing business as The Sta-Brite Cutlery Co., New Haven, Conn. Table-cutlery handles. 241,376; Apr. 27; Serial No. 258,228; published Feb. 14, 1928. Class 23.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., to Herring-Hall-Marvin Safe Company, New York, N. Y. Safes. 70,369; renewed Aug. 25, 1928.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., to Herring-Hall-Marvin Safe Company, New York, N. Y. Safes. 70,411; renewed Aug. 25, 1928.

Heyn, Gertrude H., Westport, Conn. Wire-stapling machines and wire-tacking machines. 241,336; Apr. 24; Serial No. 259,553; published Feb. 14, 1928. Class 23.

Hilldick Corporation, The, New York, N. Y. Beverage. 241,335; Apr. 24; Serial No. 259,555; published Feb. 14, 1928. Class 45.

Hillside Cotton Mills, doing business as Valley Mills, Lagrange, Ga. Industrial wiping cloths. 241,404; Apr. 24; Serial No. 254,850; published Feb. 7, 1928. Class 29.

Hoegger Inc., Jersey City, N. J. Built-in medicine cabinets. 241,303; Apr. 24; Serial No. 256,672; published Jan. 10, 1928. Class 12.

Hoffmann, Frank J., Huron, S. Dak. Herb tonic. 241,275; Apr. 24; Serial No. 253,374; published Feb. 14, 1928. Class 6.

Holland Distributing Company, The, Philadelphia, Pa. Malt and porter malt syrups. 241,349; Apr. 24; Serial No. 259,114; published Feb. 14, 1928. Class 46.

Holophane Company, Inc., New York, N. Y. Glass globes and refractors. 241,315; Apr. 24; Serial No. 242,951; published Feb. 14, 1928. Class 33.

Hooven & Allison Company, The. (See Overman & Schrader Cordage Co., The.)

Ho-Ro-Co Manufacturing Company, St. Louis, Mo. Toilet soap. 241,396; Apr. 24; Serial No. 259,005; published Feb. 14, 1928. Class 4.

Hudnut, Richard, New York, N. Y. Cold cream, bath salts, perfume, toilet water, etc. 241,333; Apr. 24; Serial No. 259,563; published Feb. 14, 1928. Class 6.

Hudnut, Richard, New York, N. Y. Cold cream, bath salts, perfume, toilet water, etc. 241,334; Apr. 24; Serial No. 259,560; published Feb. 14, 1928. Class 6.

Hunt, Philip A., Company, Brooklyn, N. Y. Chemical used in dyeing. 241,346; Apr. 24; Serial No. 259,176; published Feb. 14, 1928. Class 6.

Hynson, Westcott & Dunning, Baltimore, Md. Antacids. 241,390; Apr. 24; Serial No. 251,670; published Aug. 30, 1927. Class 6.

Independent Baking Company, Davenport, Iowa. Crackers, cookies, biscuits, etc. 241,363; Apr. 24; Serial No. 258,747; published Feb. 14, 1928. Class 46.

Interior Flour Mills Company, The. (See Larabee Flour Mills Company, The.)

Iodent Chemical Company, Detroit, Mich. Toothbrushes. 241,420–1; Apr. 24; Serial Nos. 236,487–8; published Feb. 7, 1928. Class 29.

Irizarry, Ramon L., doing business as Laboratoire Chimique Supreme (Supreme Chemical Laboratories), Mayaguez, P. R. Evervescent purgative. 241,296; Apr. 24; Serial No. 256,192; published Feb. 14, 1928. Class 6.

Iwata Trading Co., Inc., San Francisco, Calif. Incense perfume. 241,341; Apr. 24; Serial No. 259,447; published Feb. 14, 1928. Class 6.

Jungiegym, Inc., Chicago, Ill. Playground and gymnasium apparatus. 241,411; Apr. 24; Serial No. 257,876; published Feb. 14, 1928. Class 22.

Junior Chemical Co. (See Richardson, Charles T.)

Keek Company, Inc., St. Louis, Mo. Dirt chaser. 241,419; Apr. 24; Serial No. 250,548; published Feb. 14, 1928. Class 4.

Kemp, Edward F., doing business as Radio Nut Company, Somerville, Mass. Salted and candied nuts and nuts. 241,380–1; Apr. 24; Serial Nos. 257,928–9; published Feb. 14, 1928. Class 46.

Kern, Rudolph W., Riverside, Calif. Liniment for the relief of pain. 241,353; Apr. 24; Serial No. 258,984; published Feb. 14, 1928. Class 6.

Kessman Chemical Co., New Orleans, La. Insecticide. 241,357; Apr. 24; Serial No. 258,873; published Feb. 14, 1928. Class 6.

L. S. French Laboratories, The. (See Seideman, Leon.)

Laboratoire Chimique Supreme (Supreme Chemical Laboratories). (See Irizarry, Ramon L.)

Lake Shore Elevator Company, The, Cleveland, Ohio. Manufactured livestock foods. 241,321–2; Apr. 24; Serial Nos. 236,759–60; published Nov. 16, 1926. Class 46.

Lanman & Kemp, Inc., New York, N. Y. Laxative tablets. 241,369; Apr. 24; Serial No. 258,416; published Feb. 14, 1928. Class 6.

Larabee Flour Mills Company, The, doing business as The Interior Flour Mills Company, Kansas City, Mo. Wheat flour. 241,403; Apr. 24; Serial No. 254,111; published Dec. 27, 1927. Class 46.

Lackin, Peter C., Toronto, Ontario, Canada, assignor to Salada Tea Company, Boston, Mass. Tea. 31,900; renewed Aug. 23, 1928.

Leader Iron Works, Decatur, Ill. Storage tanks and parts of same. 69,100; renewed May 19, 1928.

Lehrer & Cordny, New York, N. Y. Dresses. 241,293; Apr. 24; Serial No. 255,811; published Dec. 13, 1927. Class 39.

Les Laboratories Duret & Remy, Asnieres, France. Preparation for use in the treatment of diseases and disorders of the stomach and intestines. 241,345; Apr. 24; Serial No. 259,180; published Feb. 14, 1928. Class 6.

Leto Remedy Company. (See Smith, Lee H.)

Lewis, E., Denver, Colo. Polish for nickel, silver, brass, copper, aluminum, and glass. 241,401; Apr. 24; Serial No. 252,212; published Feb. 14, 1928. Class 4.

Liquo-Gas Company, Erie, Pa. Liquid fuel. 241,299; Apr. 24; Serial No. 256,413; published Feb. 14, 1928. Class 6.

Locher, Felix M., Fresno, Calif. Maps and charts. 241,412; Apr. 24; Serial No. 258,086; published Feb. 14, 1928. Class 38.

Lonz, John L., Madisonville, Ky. Nut confection. 241,370; Apr. 24; Serial No. 258,419; published Feb. 14, 1928. Class 46.

Lyons, John B., Norphlet, Ark. Mange and gall medicine for animals. 241,286; Apr. 24; Serial No. 250,128; published Feb. 14, 1928. Class 6.

Magazine Repeating Razor Company, Sound Beach, Conn. Razors and razor blades. 241,430; Apr. 24. Class 23.

Maguire, D. H., & Co. (See Brennan, Joseph T.)

Marquis Flour Milling Company, Scobey, Mont. Wheat flour. 241,342; Apr. 24; Serial No. 259,368; published Feb. 14, 1928. Class 46.

Martin, Mary V., doing business as M. V. Martin Mfg. Co., Los Angeles, Calif. Table game. 241,400; Apr. 24; Serial No. 257,298; published Feb. 14, 1928. Class 22.

Mattle, Nicholas B., Syracuse, N. Y. Ginseng compound. 70,418; renewed Aug. 25, 1928.

Max Elb Gesellschaft mit beschränkter Haftung, Dresden, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Certain chemical preparations. 68,587; renewed Apr. 21, 1928.

McBrady, J. E., doing business as J. E. McBrady & Co., Chicago, Ill. External salve. 241,340; Apr. 24; Serial No. 259,452; published Feb. 14, 1928. Class 6.

McMillen Company, The, Fort Wayne, Ind. Egg mash, mash, chick starter, growing mash, etc. 241,385; Apr. 24; Serial No. 257,842; published Feb. 14, 1928. Class 46.

Melone, Earl E., Saratoga, Calif. Dried prunes. 241,311; Apr. 24; Serial No. 240,301; published Feb. 14, 1928. Class 46.

Metzger, David, Inc., New York, N. Y. Solder. 241,392; Apr. 24; Serial No. 258,095; published Feb. 14, 1928. Class 14.

Miller Paper Company, Inc., Syracuse, N. Y. Writing tablets, writing books, and blank books. 241,406; Apr. 24; Serial No. 255,816; published Feb. 14, 1928. Class 37.

Millington Company, Inc., The, Boston, Mass. Rouges, creams, and toilet powders. 241,313; Apr. 24; Serial No. 244,311; published Feb. 14, 1928. Class 6.

Miner Hillard Milling Co., Wilkes-Barre, Pa. Dry paste. 241,312; Apr. 24; Serial No. 244,710; published Feb. 14, 1928. Class 5.

Minerva Pictures Corporation, doing business as Standard Automotive and Machine Works, Los Angeles, Calif. Brake-lining cushions. 241,285; Apr. 24; Serial No. 250,084; published Feb. 14, 1928. Class 35.

National India Rubber Co., Bristol, R. I., assignor to United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber boots and shoes and rubber soles. 68,468; renewed Apr. 7, 1928.

National Trunk Corporation, Racine, Wis. Wardrobe trunks. 241,332; Apr. 24; Serial No. 259,573; published Feb. 14, 1928. Class 3.

Neptune Meter Company, Jersey City, N. J., and New York, N. Y., to Neptune Meter Company, New York, N. Y. Fluid meters. 31,905; renewed Aug. 23, 1928.

New York Canners, Inc., Rochester, N. Y. Canned fruits, canned vegetables. 241,292; Apr. 24; Serial No. 251,074; published Dec. 13, 1927. Class 46.

Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany. Yarns. 69,446; renewed June 10, 1928.

Norvell-Shapleigh Hardware Company, assignor to Shapleigh Hardware Company, St. Louis, Mo. Shotguns. 68,123; renewed Mar. 10, 1928.

Omaha Packing Company, Inc., Chicago, Ill. Butter, eggs, cheese, etc. 241,383; Apr. 24; Serial No. 257,892; published Feb. 14, 1928. Class 46.

Ontario Biscuit Company, The, Buffalo, N. Y. Cookies, cakes, crackers, etc. 241,407; Apr. 24; Serial No. 255,924; published Dec. 27, 1927. Class 46.

Orlando Orange Groves Company, Inc., Orlando, Fla. Fresh oranges and grapefruit. 241,308; Apr. 24; Serial No. 246,495; published Feb. 14, 1928. Class 46.

Overman & Schrader Cordage Co., The, Cincinnati, Ohio, to The Hooven & Allison Company, Xenia, Mo., successor. Twines. 68,893; renewed May 5, 1928.

Parke, Davis & Co., Detroit, Mich. Remedy for inflammation. 241,382; Apr. 24; Serial No. 257,894; published Feb. 14, 1928. Class 6.

Parke, L. H., Company, Philadelphia, Pa. Baking powder. 241,374; Apr. 24; Serial No. 258,277; published Feb. 14, 1928. Class 6.

Pastene, P., & Co. Inc., Boston, Mass. Olive oil. 241,362; Apr. 24; Serial No. 258,766; published Feb. 14, 1928. Class 46.

Pechter Baking Co. Inc., New York, N. Y. Pumpernickel. 241,373; Apr. 24; Serial No. 258,281; published Feb. 14, 1928. Class 46.

Peplow, Geoffrey, doing business as The Peplow Company, Pasadena, Calif. Laxative digestant tablets. 241,388; Apr. 24; Serial No. 257,702; published Feb. 14, 1928. Class 6.

Personal Arts Company, Scranton, Pa. Magazines. 241,398; Apr. 24. Class 38.

Pickett Drug Company, The. (See Beadle, Eugene E.)

Plant, Thomas G., Company, assignor, by mesne assignments, to Thomas G. Plant Corporation, Boston, Mass. Hosiery. 70,481; renewed Sept. 8, 1928.

Po-Go Food Company, Inc., Miami, Fla. Potato chips. 241,304; Apr. 24; Serial No. 256,683; published Feb. 14, 1928. Class 46.

Porzellanfabrik Ph. Rosenthal & Co. Aktiengesellschaft, Selb, Germany, assignor to The Rosenthal China Corporation, New York, N. Y. Porcelain dishes and utensils for household use. 68,316; renewed Mar. 24, 1928.

Pyroxylin Art Co., Brooklyn, N. Y. Compound for protecting metal against rust and oxidation. 241,428; Apr. 24. Class 6.

Radio Nut Company. (See Kemp, Edward F.)

Radova Co., The. (See Daniell, Hal.)

Ren-Patterson Milling Company, The, Coffeyville, Kans. Wheat flour. 69,968; renewed July 21, 1928.

Recht & Rosenbaum, Inc., New York, N. Y. Pickles, chowchow, and sweet relish. 241,295; Apr. 24; Serial No. 256,010; published Feb. 14, 1928. Class 46.

Red Crown Patch Company. (See Saunders, Harry.)

Red Lion Milling Company, Red Lion, Pa. Wheat flour. 241,306; Apr. 24; Serial No. 257,311; published Feb. 14, 1928. 46.

Republic Metalware Co., The, Buffalo, N. Y. Metal roasters. 68,099; renewed Mar. 10, 1928.

Republic Paint & Varnish Works, Chicago, Ill. Clear varnish, linoleum varnish, paint enamel, varnish stain, and lacquer. 241,325; Apr. 24; Serial No. 229,930; published May 31, 1927. Class 16.

Richardson, Charles T., doing business as Junior Chemical Co., Smackover, Ark. Infant laxative. 241,283; Apr. 24; Serial No. 249,376; published Feb. 14, 1928. Class 6.

Rosenthal China Corporation, The. (See Porzellanfabrik Ph. Rosenthal & Co. Aktiengesellschaft, assignor.)

Roulston, Thos., Inc., Brooklyn, N. Y. Tea, coffee, eggs, hominy, etc. 241,310; Apr. 24; Serial No. 248,016; published Feb. 14, 1928. Class 46.

Russell Jennings Mfg. Co., The, Chester, Conn. Augers and bits. 69,448; renewed June 16, 1928.

S. M. C. Cleaner Company. (See Shover, A. B.)

Salada Tea Company. (See Larkin, Peter C., assignor.)

Sandusky Portland Cement Company, The, Sandusky, assignor to The Sandusky Cement Company, Cleveland, Ohio. Portland cement. 70,272; renewed Aug. 18, 1928.

Santiago Orange Growers Ass'n. (See Wall, William B., assignor.)

Saranac Glove Company, Littleton, N. H. Leather gloves. 67,722; renewed Feb. 18, 1928.

Saunders, Harry, doing business as Red Crown Patch Company, Menominee, Mich. Patches for tire tubes. 241,276; Apr. 24; Serial No. 253,391; published Nov. 1, 1927. Class 35.

Schick and Son, Wilmering, Pa. Chewing gum for coughs and colds. 241,331; Apr. 24; Serial No. 259,596; published Feb. 14, 1928. Class 6.

Schlosser, Louis, doing business as L. Schlosser & Company, Chicago, Ill. Substitute for sugar. 241,319; Apr. 24; Serial No. 238,078; published Feb. 14, 1928. Class 46.

Schroeder, John, Lumber Co., Milwaukee, Wis. Folding desk tables. 241,344; Apr. 24; Serial No. 259,220; published Feb. 14, 1928. Class 32.

Scriptex Ink and Paste Co., Philadelphia, Pa. Ink eradicator. 241,354; Apr. 24; Serial No. 258,981; published Feb. 14, 1928. Class 6.

Scriptex Ink and Paste Co., Philadelphia, Pa. Liquid paste. 241,355; Apr. 24; Serial No. 258,979; published Feb. 7, 1928. Class 5.

Scru-Tite Corporation, Newark, N. J. Screw anchor nuts for woodwork. 241,438; Apr. 28. Class 13.

Scutan Company, The, Dover, Del., and Brooklyn, N. Y. Water and weather proof paper. 241,415; Apr. 24; Serial No. 249,677; published Feb. 14, 1928. Class 37.

Seideman, Leon, doing business as The L. S. French Laboratories, New York, N. Y. Paint. 241,379; Apr. 24; Serial No. 258,139; published Feb. 14, 1928. Class 16.

Shaffer Stores Company, Altoona, Pa. Bread, canned red kidney beans, macaroni, etc. 241,298; Apr. 24; Serial No. 256,378; published Feb. 14, 1928. Class 46.

Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company, assignor.)

Shover, A. B., doing business as S. M. C. Cleaner Company, Des Moines, Iowa. Cleaner. 241,400; Apr. 24; Serial No. 251,210; published Feb. 14, 1928. Class 4.

Smith, Lee H., doing business as Leto Remedy Company, San Antonio, Tex. Preparation for the treatment of pyorrhea. 241,437; Apr. 24. Class 6.

Smith, Linford J., La Crosse, Wis., to Linford J. Smith, Denver, Colo. Remedy for the removal of corns, callouses, bunions, ingrowing nails, and warts. 31,397; renewed Mar. 8, 1928.

Southern California Fish Corp., Terminal Island, Calif. Canned fish. 241,277; Apr. 24; Serial No. 254,306; published Feb. 14, 1928. Class 46.

Stu-Brite Cutlery Co., The. (See Hemming, Carl H.)

Standard Automotive and Machine Works. (See Minerva Pictures Corporation.)

Stein Brothers, Williamsport, Pa. Textile fabrics. 241,317; Apr. 24; Serial No. 241,909; published Feb. 14, 1928. Class 42.

Sterling Pictures Distributing Corporation, New York, N. Y. Motion pictures. 241,418; Apr. 24; Serial No. 241,360; published Feb. 1, 1927. Class 26.

Sternberger, Samuel, & Co., assignor, by mesne assignments, to Eclipse-Needles Co., Philadelphia, Pa. Clothing. 68,560; renewed Apr. 14, 1928.

Stokes, William D., Baton Rouge, La. Preparation for the treatment of tuberculosis, asthma, etc. 241,324; Apr. 24; Serial No. 231,641; published Feb. 14, 1928. Class 6.

Superior Type Company, The, Chicago, Ill. Rubber type, rubber-type sets, office printing outfits, etc. 241,417; Apr. 24; Serial No. 242,152; published Feb. 14, 1928. Class 37.

Swa-Roba Products Co., Lynnfield and Wakefield, Mass. Mayonnaise dressing, candles, cake filling, etc. 241,280; Apr. 24; Serial No. 248,522; published Feb. 14, 1928. Class 46.

Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Overalls. 241,279; Apr. 24; Serial No. 255,779; published Dec. 13, 1927. Class 39.

Teague-McKevett Company, Santa Paula, Calif. Oranges, lemons, and grapefruit. 241,289; Apr. 24; Serial No. 250,869; published Feb. 14, 1928. Class 46.

Thibodeau, A. F., Co. Inc., Detroit, Mich. Eggs. 241,360; Apr. 24; Serial No. 258,844; published Feb. 14, 1928. Class 46.

Thorpe, Arthur C., doing business as Ecopo Chemical Company, Los Angeles, Calif. Antiseptic powder. 241,348; Apr. 24; Serial No. 259,146; published Feb. 14, 1928. Class 6.

Thybony & Bengtson, Chicago, Ill. Calcimines, varnishes, varnish stains, etc. 241,361; Apr. 24; Serial No. 257,821; published Feb. 14, 1928. Class 16.

Trillis, John, Beechbottom, W. Va. Liquid liniment. 241,347; Apr. 24; Serial No. 259,147; published Feb. 14, 1928. Class 6.

Trommer, John F., Inc., Brooklyn, N. Y. Cereal malt beverage. 241,367; Apr. 24; Serial No. 258,606; published Feb. 14, 1928. Class 48.

Tule River Citrus Association, Success, Calif. Fresh citrus and deciduous fruits. 241,320; Apr. 24; Serial No. 237,711; published Feb. 14, 1928. Class 46.

United Press Associations, New York, N. Y. News articles for newspapers. 241,440; Apr. 24. Class 38.

United States Rubber Company. (See National India Rubber Co., assignor.)

Vacu-Tite Company, Chicago, Ill. Antifreeze solution for automobile cooling systems. 241,368; Apr. 24; Serial No. 258,437; published Feb. 14, 1928. Class 6.

Valley Mills. (See Hillside Cotton Mills.)

Villa Park Orchards Association, Villa Park, Calif. Fresh citrus fruits. 241,288; Apr. 24; Serial No. 250,875; published Feb. 14, 1928. Class 46.

Villa Park Orchards Association, The, Villa Park, Calif. Oranges, lemons, and grapefruit. 241,290–1; Apr. 24; Serial Nos. 250,876–7; published Feb. 14, 1928. Class 46.

Wall, William B., Tustin, assignor, by mesne assignments, to Santiago Orange Growers Ass'n, Orange, Calif. Citrus fruits such as oranges, lemons, and grape fruit. 29,634; renewed Mar. 2, 1927.

Wallace Press, The, Chicago, Ill. Maps, diagrams, booklets, price lists, etc. 241,439; Apr. 24. Class 38.

Washine Manufacturing Co., Decatur, Ill. Oilcloth novelties. 241,410; Apr. 24; Serial No. 257,833; published Feb. 14, 1928. Class 22.

Webster, F. S., Company, assignor to F. S. Webster Company, Boston, Mass. Ink ribbons and carbon paper. 68,382; renewed Apr. 7, 1928.

Western Chemical Company, St. Joseph, Mo. Deodorants. 241,356; Apr. 24; Serial No. 258,925; published Feb. 14, 1928. Class 6.

Western Importing Company, Minneapolis, Minn. Scythes. 241,365; Apr. 24; Serial No. 258,706; published Feb. 14, 1928. Class 23.

White & Bagley Company, The, Worcester, Mass. Grinding and cutting lubricant and cooling-oil compound. 241,273; Apr. 24; Serial No. 243,794; published Jan. 31, 1928. Class 15.

Williams Manufacturing Co., Cleveland, Ohio. Medicine for asthma, colds, etc. 241,413; Apr. 24; Serial No. 258,104; published Jan. 24, 1928. Class 6.

Winchester Fruit Exchange, Inc., Winchester, Va. Oil-emulsion spray solution. 241,372; Apr. 24; Serial No. 258,387; published Feb. 14, 1928. Class 6.

Worthington, Samuel W., doing business as Dr. Worthington's Southern Mfg. Co., Wilson, N. C. Medicinal preparation. 241,366; Apr. 24; Serial No. 258,608; published Feb. 14, 1928. Class 6.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted piece goods. 241,386; Apr. 24; Serial No. 257,836; published Feb. 14, 1928. Class 42.

Zeiss, Carl, Jena, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Optical instruments and parts thereof. 68,570–3; renewed Apr. 14, 1928.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Cleaver Manufacturing Co., Inc., The, Wilmington, Del., and Effingham, Ill. Four-To-One. For Gloves. 33,873; Apr. 24.

Cook, A. H., doing business as Cook Tea & Coffee Co., Salt Lake City, Utah. Cook's Oriental Brand Coffee. For Coffee. 33,874; Apr. 24.

Doane, William, St. Louis, Mo. Quality Supreme Butter. For Butter. 33,875; Apr. 24.

Doane, William, St. Louis, Mo. Peerless Butter. For Butter. 33,876; Apr. 24.

Doane, William, St. Louis, Mo. Quality Ice Cream. For Ice Cream. 33,877; Apr. 24.

Doane, William, St. Louis, Mo. Quality Butter. For Butter. 33,878; Apr. 24.

Grennan Bakeries, Incorporated, Chicago, Ill. Grennan Peanut Cookies Made From Tested Cook Book Recipes. For Cookies. 33,879; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Geo. E. Stifel Co. For Boxes. 33,880; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Fashionable Footwear. For Footwear. 33,881; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Quality Footwear. For Footwear. 33,882; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Footwear. For Footwear. 33,883; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. De Luxe Slippers. For Footwear. 33,884; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Women's Novelty Shoes. For Footwear. 33,885; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Shoes for Every Occasion. For Footwear. 33,886; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. The Pokorny Shoe. For Footwear. 33,887; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. L. S. Donaldson Co. For Footwear. 33,888; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Arch Support Shoe. For Footwear. 33,889; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Quality Footwear. For Footwear. 33,890; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Good Shoes for Everybody. For Footwear. 33,891; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Sterling. For Boxes. 33,892; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Footwear of Distinction. For Footwear. 33,893; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Follow Dial for Style. For Boxes. 33,894; Apr. 24.

Hoague-Sprague Corporation, Lynn, Mass. Quality Shoes. For Footwear. 33,895–6; Apr. 24.

Mercer Bottling Co., Trenton, N. J. Town Club. For Ginger Ale. 33,897; Apr. 24.

Miller, Joseph, Newark, N. J. Millertone Laxative. For Laxative Preparation. 33,898; Apr. 24.

Ritsy Products Co. (See Velat, Edward P.)

Sanzone-Palmisano Company, Cincinnati, Ohio. S and P. For Fresh Tomatoes. 33,899; Apr. 24.

Taylor-Atkins Paper Company, The, East Hartford, Conn. Scotland Linen. For Writing Paper and Envelopes. 33,900; Apr. 24.

Taylor-Atkins Paper Company, The, East Hartford, Conn. Pineapple Linen. For Writing Paper and Envelopes. 33,901; Apr. 24.

Velat, Edward P., doing business as Ritsy Products Co., St. Paul, Minn. Ritsy. For Egg Noodles. 33,902; Apr. 24.

World Sweets, Inc., Albuquerque, N. Mex. World Sweets. For Candy, Nuts, and Other Confections. 33,903; Apr. 24.

Wrigley, Wm., Jr., Company, Chicago, Ill. Wrigley's Dulce 16—Chicle Rosado. For Chewing Gum. 33,904; Apr 24.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Armand Company, The, Des Moines, Iowa. A Merry Christmas From Armand. For Cosmetics. 10,788; Apr. 24.

De La Guardia, Inc., New York, N. Y. De La Guardia, Inc. For Coal. 10,789; Apr. 24.

Elco Distributing Company, Chicago, Ill. The Best I Ever Tasted. For Ginger Ale. 10,790; Apr. 24.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Company. (See Marsh, Halbert G.)

Acme Supply Co. (See Coleman, Albert J.)

Acoma Textile Mills, Brooklyn, N. Y. Neckties. 242,807; Apr. 24. Class 39.

Adams Bros. Mfg. Co. Inc., Pittsburgh, Pa. Gas heaters and parts thereof. 251,470; Apr. 24. Class 34.

Adams-White Brush Company, Boston, Mass. Cylindrical and flat industrial brushes and machine-operated brushes. 257,846; Apr. 24. Class 29.

Advertising Golf Ball Corporation, New York, N. Y. Golf balls. 262,501; Apr. 24. Class 22.

Air-Chrome Studios, Inc., The, Irvington, N. J. Radio loud speakers. 261,855; Apr. 24. Class 21.

Alkine Laboratories. (See Tobin, Meyer.)

Allen Belting Company, Clifton Heights, Pa. Round leather belting. 263,062; Apr. 24. Class 35.

American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn. Telltale devices. 231,468; Apr. 24. Class 19.

American Crayon Company, The, Sandusky, Ohio. Adhesive paste. 261,690; Apr. 24. Class 5.

American Pastry Products Corporation. (See Denaro, James, assignor.)

American Solvents & Chemical Corporation, New York, N. Y. Alcoholic liquors. 244,383; Apr. 24. Class 49.

American Woolen Company, Boston, Mass. Woolen piece goods. 263,063; Apr. 24. Class 42.

Anderson & Kroener, New York, N. Y. Platinum bracelets. 262,438; Apr. 24. Class 28.

Atlantic Packing Company. (See Consolidated Rendering Company.)

Automatic Cone Company. (See Denaro, James.)

Axel Bros., New York, N. Y. Jewelry. 260,931; Apr. 24. Class 28.

Baker-Finley Chemical Company, The, Cleveland, Ohio. Washing compound. 263,066; Apr. 24. Class 4.

Beith, R., Co. Inc., New York, N. Y. Ladies' hats and hat linings. 252,185; Apr. 24. Class 39.

Bergdorf & Goodman Company, New York, N. Y. Toilet articles. 262,051; Apr. 24. Class 6.

Berger, Sigmund, New York, N. Y. Jewelry. 260,932; Apr. 24. Class 28.

Bijou Dress Co., The, New York, N. Y. Ladies' dresses. 261,417; Apr. 24. Class 39.

Bjorkman, George E., Paris, France. Electric apparatus for permanent waving of hair. 254,071; Apr. 24. Class 44.

Bowser, S. F., & Company, Inc., Fort Wayne, Ind. Pumps. 262,793; Apr. 24. Class 23.

Bright Star Battery Co., Hoboken, N. J., doing business as Uncedit Battery Co., New York, N. Y. Electric batteries. 260,552; Apr. 24. Class 21.

Brown, Wm. H., & Bro. Company, Baltimore, Md., and New York, N. Y. Perfumes. 261,788; Apr. 24. Class 6.

Bull Dog Floor Clip Company. (See Krabiel, William C.)

Burly Drug Company. (See Houghton, Fred W.)

Burnett, L. H., doing business as Burnett Bros., San Francisco, Calif. Watches. 228,224; Apr. 24. Class 27.

Caley, Wendell J., doing business as Titite Company, Bala, Pa. Adhesive mending fluid. 243,196; Apr. 24. Class 5.

California Sea Food Company. (See Rex, M. A.)

California Stucco Products Company, Los Angeles, Calif. Plaster. 260,554; Apr. 24. Class 12.

Canfield Oil Company, The, Cleveland, Ohio. Lubricating oils. 254,572; Apr. 24. Class 15.

Carpenter-Kollmar Co., Newark, N. J. Jewelry. 261,419; Apr. 24. Class 28.

Cartier. (See Crane, Clarence A.)

Chapman, Harry P., doing business as Chapman Drug Co., Yazoo City, Miss. Antiseptic. 259,047; Apr. 24. Class 6.

Chemische Fabrik "Promonta" Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Chemical and organo-therapeutical preparations, etc. 229,148; Apr. 24. Class 6.

Chic Manufacturing Co., Peoria, Ill. Ladies' aprons and house frocks. 260,490; Apr. 24. Class 39.

Chrome Liquid, Inc., Chicago, Ill. Liquid metal polish. 262,508; Apr. 24. Class 4.

Clusor, Incorporated, New York, N. Y. Binding machines. 258,621; Apr. 24. Class 23.

Coleman, Albert J., doing business as Acme Supply Store, Binghamton, N. Y. Pure barley-malt extract. 256,765; Apr. 24. Class 46.

Combined Buyers Limited, Wellington, New Zealand. Lubricating oils, greases, petrol, and kerosene. 256,335; Apr. 24. Class 15.

Compagnie Métallurgique de la Campine Soc. An., Antwerp, Belgium. Antimony oxide. 262,954; Apr. 24. Class 6.

Compania Frutera Transcontinental S. A., Mexico, Mexico, and El Paso, Tex. Bananas. 246,648–9; Apr. 24. Class 46.

Consolidated Rendering Company, doing business as Atlantic Packing Company, Boston, Mass. Wool, furs, etc. 260,806; Apr. 24. Class 1.

Coty, Inc., Wilmington, Del., and New York, N. Y. Perfume droppers. 258,070; Apr. 24. Class 6.

Corinthian Pharmacy. (See Silberman, Joseph.)

Crane, Clarence A., doing business as Cartier, Cleveland, Ohio. Candy. 262,209; Apr. 24. Class 46.

Creofloat Manufacturing Co., Inc., Seattle, Wash. Moth repellant. 261,306; Apr. 24. Class 6.

Cron & Dehn, Inc., Seattle, Wash. Fresh fruit, canned fish, etc. 262,293; Apr. 24. Class 46.

Crump, Edward B., Louisville, Ky. Hair restorer. 262,064; Apr. 24. Class 6.

Davis Bros. Cheese Co., Plymouth, Wis. Cheese. 260,810; Apr. 24. Class 46.

Davis & Lowe Company, Newark, N. J. Jewelry and precious-metal ware. 260,104; Apr. 24. Class 28.

Delaware, Lackawanna & Western Coal Company, The, New York, N. Y. Coal. 261,799; Apr. 24. Class 1.

Demco, Incorporated, Baltimore, Md. Electrical apparatus, machines, and supplies, etc. 259,325; Apr. 24. Class 21.

Denaro, James, doing business as Automatic Cone Company, assignor to American Pastry Products Corporation, Cambridge, Mass. Ice-cream molding and dispensing device. 261,739; Apr. 24. Class 23.

Dessauer & Engel Company, Chicago, Ill. Sweaters and sweater coats. 260,813; Apr. 24. Class 39.

Dounstides, Christy, Burlington, Vt. Hair tonic. 250,233; Apr. 24. Class 6.

Dutches Mfg. Co., Poughkeepsie, N. Y. Hand bags and other fancy bags, etc. 261,050; Apr. 24. Class 3.

Earle, Marie, Inc., New York, N. Y. Soap. 261,971; Apr. 17. Class 4.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 261,247–8; Apr. 24. Class 22.

Fargo, Stephen, Cleveland, Ohio. Preparation. 258,806; Apr. 24. Class 6.

Federated Business Publications, Inc., New York, N. Y. Monthly printed periodical or trade paper. 261,559; Apr. 24. Class 38.

Fer-Don, Monroe A., doing business as Fer-Don, Indianapolis, Ind. Medicinal wash. 261,619; Apr. 24. Class 6.

Finnell System, Inc., Elkhart, Ind. Floor-treating machines, scrubbing machines, mop trucks, etc. 254,275; Apr. 24. Class 23.

Fischer Baking Co., Newark, N. J. Bread. 238,014; Apr. 24. Class 46.

Flakser, Samuel, New York, N. Y. Jewelry. 261,251; Apr. 24. Class 28.

Folsom, Ida M., doing business as Mrs. George W. Folsom, McAllen, Tex. Preparation for the complexion. 253,883; Apr. 24. Class 6.

Formozone Chemical Co. (See Scott, Charles D.)

Fried-Lang Leather Co., Inc., New York, N. Y. Leather. 227,736; Apr. 24. Class 1.

Gardner & Yates, Bellefonte, Pa. Aluminum solder. 257,540; Apr. 24. Class 14.

Garson, Isaac, New York, N. Y. Finger rings, bar pins, scarf pins, and bracelets. 260,996; Apr. 24. Class 28.

Glascote Company, The, Euclid, Ohio. Enameled tanks. 226,352; Apr. 24. Class 2.

Glassman, Maurice H., Boston, Mass. Rotary dry-cleaning machines. 260,441; Apr. 24. Class 24.

Glickman, Abraham E., doing business as Roxy Perfumer, Brooklyn, N. Y. Perfumes, toilet waters, etc. 259,078; Apr. 24. Class 6.

Glidden Company, The, Cleveland, Ohio. Magazine. 261,254; Apr. 24. Class 39.

Goffin, S. S., Jacksonville, Fla. Canned oysters and canned fruit. 261,808; Apr. 24. Class 46.

Golden Rod Hat Co., New York, N. Y. Men's hats. 257,231; Apr. 24. Class 39.

Goose Oil Mfg. Co. (See Kramer, Julius.)

Graham Paper Company, St. Louis, Mo. Index cards. 262,605; Apr. 24. Class 37.

Grand Rapids Veneer Works, Grand Rapids, Mich. Cement. 256,250; Apr. 24. Class 12.

Great American Tea Co., The, New York, N. Y. Waxed paper and toilet paper. 252,381; Apr. 24. Class 37.

Great American Tea Co., The, New York, N. Y. Stone and metal polish. 262,959; Apr. 24. Class 4.

Green Table Pad Corp., The, New York and Brooklyn, N. Y. Heatproof and waterproof table pads. 259,955; Apr. 24. Class 50.

Grigsby-Grunow-Hinds Co., Chicago, Ill. Radio receiving sets. 258,688; Apr. 24. Class 21.

Grinnell Company, Inc., Providence, R. I. Pipe fittings, valves, and cocks. 249,898; Apr. 24. Class 13.

Gruber's, Charles J., Sons, Philadelphia, Pa. Maltless beverage. 262,656; Apr. 24. Class 45.

Gunther's, C. G., Sons, New York, N. Y. Garments and wearing apparel manufactured in whole or in part from furs. 255,658; Apr. 24. Class 39.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Gunther's, C. G., Sons, New York, N. Y. Garments and wearing apparel manufactured in whole or in part from furs. 256,461–2; Apr. 24. Class 39.

Haas, Baruch & Company. Los Angeles, Calif. Canned fish, fruits, vegetables, etc. 259,112; Apr. 24. Class 46.

Haaxma, George G., doing business as M. Haaxma & Sons. Winthrop, Mass. Cigars. 261,113; Apr. 24. Class 17.

Haimes & Klein, Inc., New York, N. Y. Finger-ring mountings and settings, brooch mountings and settings, bracelets. 260,330; Apr. 24. Class 28.

Harber, W. J., Co., Inc., New York, N. Y. Finger rings, bar pins, brooches, pendants, etc. 262,030; Apr. 24. Class 28.

Harrison, Richard C., doing business as Harrison & Company, Haverhill, Mass. Valve-grinding compounds. 261,507; Apr. 24. Class 4.

Harrison, Richard C., doing business as Harrison & Company, Haverhill, Mass. Razor hone. 261,508; Apr. 24. Class 4.

Hart Silk Company, San Francisco, Calif. Silk piece goods, etc. 263,212; Apr. 24. Class 42.

Have A Heart Candy Co. (See Rose, William D.)

Heller, B., & Company, Chicago, Ill. Dessert powders, cocoa, spices, seasonings, etc. 243,490; Apr. 24. Class 46.

Heller & Perrin, Pittsburgh, Pa. Evaporated milk. 262,564; Apr. 24. Class 46.

Hemco Electric Manufacturing Company, Inc., Bridgeport, Conn. Wall plates for switch boxes. 249,225; Apr. 24. Class 21.

Henckels, J. A., Solingen, Germany. Scissors, shears, and razors. 253,841; Apr. 24. Class 23.

Henning-Orla Bruhn, Copenhagen, Denmark. Glues and mucilages. 262,359; Apr. 24. Class 5.

Hickey-Freeman Co., Rochester, N. Y. Men's overcoats. 262,026; Apr. 24. Class 39.

Hickey-Freeman Co., Rochester, N. Y. Men's topcoats and suits. 262,027; Apr. 24. Class 39.

Hobbs-Parsons Company, Fresno, Calif. Fresh apples, dried beans, eggs, etc. 240,711; Apr. 24. Class 46.

Hollywood Laboratory, The. (See Paul, Samuel.)

Hoof, John C., & Company, Chicago, Ill. Piston rings. 257,159; Apr. 24. Class 35.

Houghton, Fred W., doing business as Burly Drug Company, Lansing, Mich. Preparation for sore feet. 257,581; Apr. 24. Class 6.

Howell Company, Inc., The, New Orleans, La. Preparation for chills, fever, etc. 263,213; Apr. 24. Class 6.

Howey, W. J., Co., Howey-in-the-Hills, Fla. Fresh citrus fruits. 261,675; Apr. 24. Class 46.

Igleheart Brothers, Inc., Evansville, Ind. Cake flour. 260,569; Apr. 24. Class 46.

Illinois Glass Company, Alton, Ill. Glass jars and glasses. 261,632; Apr. 24. Class 33.

Inland Manufacturing Company, Dayton, Ohio. Steering wheels. 260,890; Apr. 24. Class 19.

Interstate Smelting & Refining Co. Inc., Newark, N. J. Finger rings. 261,755; Apr. 24. Class 28.

Ipswich Mills, Boston, Mass. Women's knitted and woven underwear. 244,500; Apr. 24. Class 39.

Isaacson, John, Seattle, Wash. Stanchions, davits, stern frames, etc. 255,714; Apr. 24. Class 19.

Ives Ice and Coal Company, North Tonawanda, N. Y. Coal. 261,062; Apr. 24. Class 1.

J. & V. Calderon, Inc., New York, N. Y. All kinds of fish conserves. 262,548–9; Apr. 24. Class 46.

Jaden, Fred I., doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Oil cans. 260,571; Apr. 24. Class 13.

Jobbers Service Incorporated, Coldwater, Mich. Coffee. 262,609; Apr. 24. Class 46.

Johnson, Max, doing business as Johnson Bros., New York, N. Y. Finger rings. 261,009; Apr. 24. Class 28.

Joshua, E. R., doing business as E. R. Joshua Oil Company, Youngstown, Ohio. Gasoline and other motor fuels, etc. 262,518; Apr. 24. Class 15.

Kansas City Paper House, Kansas City, Mo. Book paper. 262,966; Apr. 24. Class 37.

Karnack-Ambrosia Co. (See Lesiak, Casimir A.)

Katsafanas Coffee Company, Pittsburgh, Pa. Coffee. 262,463; Apr. 24. Class 46.

Kedzie, Adam S., doing business as Polar Malt Company, Los Angeles, Calif. Frozen concentrate for making malted milk. 253,242; Apr. 24. Class 46.

Kelly, F. B., Co. Inc., Rochester, N. Y. Window display frames. 226,148; Apr. 24. Class 50.

Klotter & Norton Co., Chicago, Ill. Canned sauerkraut, peas, etc. 262,090; Apr. 24. Class 46.

Kohnstamm, H., & Co., Inc., New York, N. Y. Soap flakes. 260,280; Apr. 24. Class 4.

Koshers, Samuel, New York, N. Y., Jewelry. 260,945; Apr. 24. Class 28.

Krabiel, William C., doing business as Bull Dog Floor Clip Company, Winterset, Iowa. Metal clips. 261,962; Apr. 24. Class 13.

Kramer, Julius, doing business as Goose Oil Mfg. Co., New York, N. Y. Preparation for the relief of inflammation and pain. 262,225; Apr. 24. Class 6.

Kroneberger, C. H., and Company, Baltimore, Md. Steel-cut and pulverized coffees. 258,949–50; Apr. 24. Class 46.

Kruger & Gottlieb, New York, N. Y. Jewelry. 261,265; Apr. 24. Class 28.

Labensky, Morris, doing business as M. Labensky, New York, N. Y. Coats and suits. 261,577; Apr. 24. Class 39.

Leader Food Products Co., Chicago, Ill. Mayonnaise, Thousand Island dressing, and prepared mustard. 262,519–20; Apr. 24. Class 46.

Lebanon Mill Company, Pawtucket, R. I. Undergarments. 261,579; Apr. 24. Class 39.

Lesiak, Casimir A., doing business as Karnack-Ambrosia Co., Scranton, Pa. Medicinal preparation. 262,470; Apr. 24. Class 6.

Levine, Samuel, and Abraham Fruchtbaum, New York, N. Y. Jewelry. 261,270; Apr. 24. Class 28.

Levy Bros. & Adler, Rochester, Inc., Rochester, N. Y. Men's suits, overcoats, topcoats, and knickers. 246,296; Apr. 24. Class 39.

Lightfoot Schultz Company, Hoboken, N. J., and New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 262,365; Apr. 24. Class 6.

Lincoln Wilder Co., Inc., St. Louis, Mo. Fresh potatoes. 262,314; Apr. 24. Class 46.

Lipps, Frederick W., Co., The, Baltimore, Md. Candy. 259,962; Apr. 24. Class 46.

Looseleaf Education, Inc., Columbus, Ohio. Week'y publication. 254,921; Apr. 24. Class 38.

Lubow Brothers, Inc., New York, N. Y. Topcoats, overcoats, suits, etc. 261,323; Apr. 24. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Men's leather shoes. 245,066; Apr. 24. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Canned salmon. 256,908; Apr. 24. Class 46.

Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. 261,199; Apr. 24. Class 46.

Maltzyme Company, Inc., Long Island City, N. Y. Food product. 262,172; Apr. 24. Class 46.

Manhattan Terrazzo Brass Strip Company, Inc., New York, N. Y. Strips for terrazzo flooring. 254,187; Apr. 24. Class 12.

Manning's, Inc., Seattle, Wash. Bread, cookies, rolls, pies, etc. 254,141; Apr. 24. Class 46.

Marsh, Halbert G., doing business as Acme Company, Birmingham, Ala. Electric smoothing irons. 247,903; Apr. 24. Class 21.

Martin Dennis Company, The, Newark, N. J. Kind of leather stuffing. 261,894; Apr. 24. Class 6.

McClellan Shoe Specialty Co., The, Kennett Square, Pa. Box toes. 261,324; Apr. 24. Class 39.

McCormick & Co., Incorporated, Baltimore, Md. Insecticide. 262,368; Apr. 24. Class 6.

McKesson & Robbins, Incorporated. Bridgeport, Conn. Nose and throat spray and gargle. 262,732; Apr. 24. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle and mouth wash. 262,736; Apr. 24. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Cold and grippe tablets. 262,738; Apr. 24. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 262,739; Apr. 24. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Eye wash. 262,740; Apr. 24. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Magnesium hydroxide. 262,752; Apr. 24. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Nose and throat spray and gargle. 262,757; Apr. 24. Class 6.

Meads Tobacco Co., The, Red Lion, Pa. Cigars, chewing and smoking tobacco. 256,735; Apr. 24. Class 17.

Megson Piston Ring Co., Inc., Brooklyn, N. Y. Piston rings. 259,287; Apr. 24. Class 35.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Laxative. 262,107; Apr. 24. Class 6.

Mexico-Arizona Trading Company, Nogales, Ariz. Fresh tomatoes. 258,089; Apr. 24. Class 46.

Miller, Charles N., Co., Boston, Mass. Candy. 238,334; Apr. 24. Class 46.

Milson Company, The, Cincinnati, Ohio. Toilet water, perfumes, powder, creams, and lotions. 262,111; Apr. 24. Class 6.

Mocotan Company, The, Newark, N. J. Artificial or imitation leather. 262,863; Apr. 24. Class 50.

Modine Manufacturing Company, Racine, Wis. Heating apparatus and specialties. 229,189; Apr. 24. Class 34.

Mortell, J. W., Co., The, Kankakee and Chicago, Ill. Asphaltic waterproofing materials, etc. 257,375; Apr. 24. Class 12.

Motometer Company, Inc., The, Long Island City, N. Y. Tire gauges. 260,343; Apr. 24. Class 26.

N. V. Nederlandsche Kunstzijdefabriek, Arnheim, Netherlands. Raw wool, artificial straw, artificial horsehair, etc. 254,146; Apr. 24. Class 1.

Neenah Paper Company, Neenah, Wis. Bond, ledger, and writing paper. 262,924; Apr. 24. Class 37.

Neumann, Morton G., doing business as Valmor Chemical Laboratories, Chicago, Ill. Hair pomade. 256,477; Apr. 24. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

New Haven Clock Company, The, New Haven, Conn. Watches and clocks. 261,716; Apr. 24. Class 27.

Ollendorff, Julian, New York, N. Y. Cartoons and comic strips of drawings, etc. 262,250; Apr. 24. Class 38.

Parke, Davis & Company, Detroit, Mich. Disinfectant. 262,627; Apr 24. Class 6.

Paul, Samuel, doing business as The Hollywood Laboratory, Los Angeles, Calif. General tonic having a wine base. 261,982; Apr. 24. Class 6.

Paymer Brothers, Baltimore, Md. Men's suits and overcoats. 246,358–9; Apr. 24. Class 39.

Pearson Brothers, London, England. Waterproof coats and capes. 260,783–4; Apr. 24. Class 39.

Pell, Rodman C., jr., doing business as Sanitary Undergarment Co., San Francisco, Calif. Sleeveless union suits. 254,422; Apr. 24. Class 39.

Penn Petroleum and Supply Company, Philadelphia, Pa. Lubricating oil and grease. 262,257; Apr. 24. Class 15.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Electric household irons. 261,925; Apr. 24. Class 21.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Leather dressing. 262,526; Apr. 24. Class 4.

Pennino, Oreste, doing business as Pennino Brothers, New York, N. Y. Jewelry. 255,463; Apr. 24. Class 28.

Perfection Manufacturing Company, The, St. Louis, Mo. Children's swings, baby toddlers, doll sulkies, etc. 248,922; Apr. 24. Class 22.

Perfection Stove Company, Cleveland, Ohio. Gasoline or pressure vapor stoves, parts thereof, and fuel-supply tanks for detachable connection to such stoves. 242,963; Apr. 24. Class 34.

Phillippeau, Juliette L., New York, N. Y. Food-flavoring preparation. 262,817; Apr. 24. Class 46.

Phillips, Henry M., doing business as Henry M. Phillips Co., Goodman, Mo. Cough syrup. 261,646; Apr. 24. Class 6.

Pike, Frank A., Rochester, N. Y. Underground garbage containers. 261,905; Apr. 24. Class 2.

Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 238,870; Apr. 24. Class 46.

Polar Malt Company. (See Kedzie, Adam S.)

Polar Milling Company, Minneapolis, Minn. Wheat flour. 263,013; Apr. 24. Class 46.

Portable Self-Serving Store Company, Dover, Del., and Houston, Tex. Vending machines. 261,521; Apr. 24. Class 23.

Prevento Company. (See Sanders, Frank E.)

Raschig, Dr. F., Ludwigshafen-on-the-Rhine, Germany. Preparation for the treatment of colds. 251,413; Apr. 24. Class 6.

Reed & Carnick, Jersey City, N. J. Medicinal preparations. 255,202; Apr. 24. Class 6.

Reichman & Faust, New York, N. Y. Hair lotion. 259,503; Apr. 24. Class 6.

Rex, M. A., doing business as California Sea Food Company, Los Angeles, Calif. Canned fish. 262,141; Apr. 24. Class 46.

Ritzy Products Co. (See Valet, Edward P.)

Riverside Fibre & Paper Co., Appleton, Wis. Bond paper. 262,932–3; Apr. 24. Class 37.

Roberts, G. G., Corporation, Whitman, Mass. Clinching nails. 259,877; Apr. 24. Class 13.

Rose, William D., doing business as Have A Heart Candy Co., Portland, Oreg. Candy bars. 260,690; Apr. 24. Class 46.

Roxy Perfumer. (See Glickman, Abraham E.)

S. C. & F. Manufacturing Corporation, New York, N. Y. Punching bags, boxing gloves, knuckle protectors, etc. 258,430; Apr. 24. Class 22.

St. Louis Label Works, St. Louis, Mo. Paper boxes. 258,841; Apr. 24. Class 2.

Sanders, Frank E., doing business as Prevento Company, Alliance, Nebr. Medicinal preparation. 257,998; Apr. 24. Class 6.

Sanitary Undergarment Co. (See Pell, Rodman C., jr.)

Schoenthal, Nathan, doing business as Window Poster Co., New York, N. Y. Nonelectrical signs and sign letters. 261,211; Apr. 24. Class 50.

Schraft, W. F., & Sons Corporation, Boston, Mass. Confectionery. 261,520; Apr. 24. Class 46.

Schreiber Products Corporation, Buffalo, N. Y. Malt-extract powder. 260,853; Apr. 24. Class 46.

Schroeter Coal Company, St. Louis, Mo. Coal. 261,213; Apr. 24. Class 1.

Schwartz, Isidor, New York, N. Y. Motion-picture novelty films and trailers. 261,914; Apr. 24. Class 26.

Scott, Charles D., doing business as Formozone Chemical Co., Trenton, N. J. Antiseptic wafers. 262,416; Apr. 24. Class 6.

Scott, John E., Jersey City, N. J. Liniment. 262,531; Apr. 24. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Electric-lighting fixtures and lamps. 261,773; Apr. 24. Class 21.

Service Grocer Company, Inc., Detroit, Mich. Paper napkins, wax paper, etc. 262,128; Apr. 24. Class 37.

Shaub, Benjamin W., Lancaster, Pa. Boots and shoes. 259,927; Apr. 24. Class 39.

Shoten, Hiyama, Honolulu, Hawaii. Liquid sauce or flavoring known as soy. 247,616; Apr. 24. Class 46.

Shu-Stiles, Incorporated, St. Louis, Mo. Women's shoes. 260,195; Apr. 24. Class 39.

Siebel, Peter, doing business as Siebel Company, New York, N. Y. Masonic or lodge aprons. 260,358; Apr. 24. Class 39.

Silberman, Joseph, doing business as Corinthian Pharmacy, Philadelphia, Pa. Medicinal liquid preparation. 258,960; Apr. 24. Class 6.

Sloan, Enny, Ridgefield, Conn. Books. 261,655; Apr. 24. Class 38.

Smith Premier Typewriter Company, The, Syracuse and New York, N. Y. Carbon paper. 262,042; Apr. 24. Class 11.

Standard Laboratories, Inc., New York, N. Y. Pomades for the hair. 261,930–1; published Apr. 24. Class 6.

Standard Oil Company of New Jersey, Wilmington, Del. Oils and greases. 262,421; Apr. 24. Class 15.

Statesville Flour Mills Company, Statesville, N. C. Dairy and poultry feed. 262,492; Apr. 24. Class 46.

Steinhardt & Co., New Orleans, La. Chemically-treated fuller's earth. 258,918; Apr. 24; Class 6.

Straus, Leo R., & Co., New York, N. Y. Rings, brooches, pins, bracelets, etc. 260,859; Apr. 24. Class 28.

Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. 262,429; Apr. 24. Class 10.

Teshner, Maurice R., New York, N. Y. Syndicated newspaper pictures. 254,733; Apr. 24. Class 38.

Thomas, Field & Co., Charleston, W. Va. Hosiery. 259,929; Apr. 24. Class 39.

Tiny Taters, Inc., Cleveland, Ohio. Potato chips. 262,943; Apr. 24. Class 46.

Titite Company. (See Caley, Wendell J.)

Tobin, Meyer, doing business as Alkine Laboratories, New Brunswick, N. J. Preparation. 261,917; Apr. 24. Class 6.

Toomey, D. J., Milling Co. Inc., Spearfish, S. Dak., and Crawford, Nebr. Pancake flour. 261,290; Apr. 24. Class 46.

Travatex Products Corporation, New York, N. Y. Tiles. 261,900; Apr. 24. Class 12.

Truscon Steel Company, doing business as Truscon Laboratories, Detroit and Hamtramck, Mich. Ready-mixed paints. 262,580; Apr. 24. Class 16.

Tuggle, Robert L., Louisville, Ky. Rust remover and corrosion preventer. 252,537; Apr. 24. Class 6.

Tuzweli & Wiseman, Inc., Modeltown, N. Y. Canned fruits and vegetables. 262,781; Apr. 24. Class 46.

Turrow, Charles, New York, N. Y. Jewelry. 261,291; Apr. 24. Class 28.

Uneedit Battery Co. (See Bright Star Battery Co.)

Union Tank & Pipe Co., Los Angeles, Calif. Device for marking pedestrian pathway or such. 247,505; Apr. 24. Class 50.

United States Lime Products Corporation, San Francisco, Calif. Hydrated lime and quicklime. 259,264; Apr. 24. Class 12.

Valmor Chemical Laboratories. (See Neumann, Morton G.)

Vanity Fair Silk Mills, Reading, Pa., and New York, N. Y. Women's and children's underwear. 262,496; Apr. 24. Class 39.

Vejola Company, Inc., Philadelphia, Pa. Compound of vegetable fat. 261,920; Apr. 24. Class 46.

Velat, Edward P., doing business as Ritzy Products Co., St. Paul, Minn. Egg noodles. 262,337; Apr. 24. Class 46.

Veldown Company, Inc., New York, N. Y. Cellulose wadding. 261,406; Apr. 24. Class 1.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Flavoring extracts for foods. 262,005; Apr. 24. Class 46.

Waldman, Mitchall, New York, N. Y. Jewelry. 260,968; Apr. 24. Class 28.

Warren Manufacturing Company, Warren, R. I. Cotton and silk piece goods, etc. 262,137; Apr. 24. Class 42.

Waterous Fire Engine Works, Incorporated, St. Paul, Minn. Fire hydrants. 245,385; Apr. 24. Class 13.

West Penn Brick Company, Latrobe, Pa. Building brick. 259,936; Apr. 24. Class 12.

Western Envelope Corporation, Brooklyn, N. Y. Paper boxes, cartons, etc. 245,039; Apr. 24. Class 2.

Wilkins, John H., Co., Washington, D. C. Coffee. 254,829; Apr. 24. Class 46.

Window Poster Co. (See Schoenthal, Nathan.)

Wolff Manufacturing Corporation, Chicago, Ill. Bathtubs, sinks, and lavatories. 252,872; Apr. 24. Class 13.

Wright, S. B., doing business as Wright Products Co., Chicago, Ill. Liquid court plaster. 262,278; Apr. 24. Class 6.

Wright, S. B., doing business as Wricht Products Co., Chicago, Ill. Preparation for stopping runs in hosiery and silk. 232,279; Apr. 24. Class 6.

Wurm Brothers Company, Chicago, Ill. Canned fruits and vegetables, preserved and dried fruits, nuts, etc. 258,848; Apr. 24. Class 46.

Yager Sheet Metal Company, Oakland, Calif. Galvanized-iron louver ventilators, leader pipes, leader heads, etc. 239,393; Apr. 24. Class 34.

Yeager Furniture Company, The, Allentown, Pa. Tables. 260,664; Apr. 24. Class 32.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Tanks, Storage. Leader Iron Works. 69,100; renewed May 19, 1928.

CLASS 3.

Blankets, Horse. Burlington Blanket Company. 69,098; renewed May 19, 1928.
Harness, saddles, horse collars, whips, and lap robes. Harris Saddlery Company. 68,927; renewed May 5, 1928.
Trunks, Wardrobe. National Trunk Corporation. 241,332; Apr. 24; Serial No. 259,573; published Feb. 14, 1928.

CLASS 4.

Abrasive paper. American Floor Surfacing Machine Company. 241,414; Apr. 24; Serial No. 258,308; published Feb. 14, 1928.
Cleaner. A. B Shover. 241,400; Apr. 24; Serial No. 251,210; published Feb. 14, 1928.
Cleaning and polishing products, Neutral paste and liquid. Clean Surface Products Company. 241,402; Apr. 24; Serial No. 252,683; published Feb. 14, 1928.
Cleaning preparation. N. De Mark. 241,431; Apr. 24.
Dirt chaser. Keek Company. 241,419; Apr. 24; Serial No. 250,548; published Feb. 14, 1928.
Dressing and blacking, Leather. Daimler-Motoren-Gesellschaft. 68,797; renewed Apr. 28, 1928.
Polish for nickel, silver, brass, copper, aluminum, and glass. E. Lewis. 241,401; Apr. 24; Serial No. 252,212; published Feb. 14, 1928.
Polish, Metal. E. A. Browne. 241,390; Apr. 24; Serial No. 258,457; published Feb. 14, 1928.
Preparation used in washing clothes and other general household cleaning. J. T. Brennan. 241,426; Apr. 24.
Soap, Toilet. Ho-Ro-Co Manufacturing Company. 241,396; Apr. 24; Serial No. 259,005; published Feb. 14, 1928.
Soaps. D'Orsay Perfumeries Corporation. 241,433; Apr. 24..

CLASS 5.

Paste, Dry. Miner Hillard Milling Co. 241,312; Apr. 24; Serial No. 244,710; published Feb. 14, 1928.
Paste, Liquid. Scriptex Ink and Paste Co. 241,355; Apr. 24; Serial No. 258,979; published Feb. 7, 1928.

CLASS 6.

Antacids. Hynson, Westcott & Dunning. 241,399; Apr. 24; Serial No. 251,670; published Aug. 30, 1927.
Antifreeze solution. Vacu-Tite Company. 241,368; Apr. 24; Serial No. 258,437; published Feb. 14, 1928.
Antiseptic powder. A. C. Thorpe. 241,348; Apr. 24; Serial No. 259,146; published Feb. 14, 1928.
Baking powder. L. H. Parke Company. 241,374; Apr. 24; Serial No. 258,277; published Feb. 14, 1928.
Chemical compound. Batex Laboratory, Inc. 241,278; Apr. 24; Serial No. 254,989; published Feb. 14 1928.
Chemical preparations. Max Elb Gesellschaft mit beschränkter Haftung. 68,587; renewed Apr. 21. 1928.
Chemical used in dyeing. Philip A. Hunt Company. 241,346; Apr. 24; Serial No. 259,176; published Feb. 14, 1928.
Chewing gum for coughs and colds. Schick and Son. 241,331; Apr. 24; Serial No. 259,596; published Feb. 14, 1928.
Cod-liver-oil emulsion. C. T Clark. 241,339; Apr. 24; Serial No. 259,483; published Feb. 14, 1928.
Compound for protecting metal against rust and oxidation. Pyroxylin Art Co. 241,428; Apr. 24.
Conditioner for fibres for weaving. John Campbell & Co. 241,352; Apr. 24; Serial No. 259,006; published Feb. 14, 1928.
Cream, bath salts, perfume, toilet water, etc., Cold. Richard Hudnut. 241,333; Apr. 24; Serial No. 259,563; published Feb. 14, 1928.
Cream, bath salts, perfume, toilet water, etc., Cold. Richard Hudnut. 241,334; Apr. 24; Serial No. 259,560; published Feb. 14, 1928.
Dentifrices. H. J. S., W. H., and M. M. Hall, and I. Hawley. 65,031; renewed Oct. 15, 1927.
Deodorants. Western Chemical Company. 241,356; Apr. 24; Serial No. 258,925; published Feb. 14, 1928.
Disinfectants. Chemische Fabriks Werke Gesellschaft mit beschränkter Haftung. 68,546; renewed Apr. 14, 1928.
Germicidal inhalants for nose, mouth, and throat affections. E. E. Beadle. 241,343; Apr. 24; Serial No. 259,347; published Feb. 14, 1928.
Ginseng compound. N. B. Mattle. 70,418; renewed Aug 25, 1928.
Ink eradicator. Scriptex Ink and Paste Co. 241,354; Apr. 24; Serial No. 258,981; published Feb. 14, 1928.
Insecticide. Kossman Chemical Co. 241,357; Apr. 24; Serial No. 258,873; published Feb. 14, 1928.
Laxative digestant tablets. G. Peplow. 241,388; Apr. 24; Serial No. 257,702; published Feb. 14, 1928.
Laxative, Infant. C. T. Richardson. 241,283; Apr. 24; Serial No. 249,376; published Feb. 14, 1928.
Laxative tablets. Lanman & Kemp, Inc. 241,369; Apr. 24; Serial No. 258,416; published Feb. 14, 1928.
Liniment. J. Trillis. 241,347; Apr. 24; Serial No. 259,147; published Feb. 14, 1928.
Liniment for the relief of pain. R. W. Kern. 241,353; Apr. 24; Serial No. 258,984; published Feb. 14, 1928.
Liquid for the treatment of pyorrhea. F. J. Abbott. 241,305; Apr. 24; Serial No. 257,134; published Feb. 14, 1928.
Liquid fuel. Liquo-Gas Company. 241,299; Apr. 24; Serial No. 256,413; published Feb. 14, 1928.
Medicinal bath preparations. E. Hammel. 241,377; Apr. 24; Serial No. 258,209; published Feb. 14, 1928.
Medicinal preparation. S. O. Bronstein. 241,300; Apr. 24; Serial No. 256,446; published Feb. 14, 1928.
Medicinal preparation. S. W. Worthington. 241,366; Apr. 24; Serial No. 258,608; published Feb. 14, 1928.
Medicine. Williams Manufacturing Co. 241,413; Apr. 24; Serial No. 258,104; published Jan. 24, 1928.
Medicine for animals, Mange and gall. J. R. Lyons. 241,286; Apr. 24; Serial No. 250,128; published Feb. 14, 1928.
Oil-emulsion spray solution. Winchester Fruit Exchange, Inc. 241,372; Apr. 24; Serial No. 258,387; published Feb. 14, 1928.
Perfume, Incense. Iwata Trading Co. 241,341; Apr. 24; Serial No. 259,447; published Feb. 14, 1928.
Perfumes and toilet waters. Coty, Inc. 241,384; Apr. 24; Serial No. 257,861; published Feb. 14, 1928.
Pills, medicines, etc. Edmanson, Bates & Company. 241,435; Apr. 24.
Preparation for the treatment of bronchial disorders. First Texas Chemical Manufacturing Co. 241,359; Apr. 24; Serial No. 258,861; published Feb. 14, 1928.
Preparation for the treatment of pyorrhea. L. H. Smith. 241,437; Apr. 24.
Preparation for the treatment of tuberculosis, asthma, etc. W. D. Stokes. 241,324; Apr. 24; Serial No. 231,641; published Feb. 14, 1928.
Preparation for use in the treatment of diseases and disorders of the stomach and intestines. Les Laboratoires Duret & Remy. 241,345; Apr. 24; Serial No. 259,180; published Feb. 14, 1928.
Purgative, Effervescent. R. L. Irizarry. 241,296; Apr. 24; Serial No. 256,192; published Feb. 14, 1928.
Remedy for inflammation. Parke, Davis & Co. 241,382; Apr. 24; Serial No. 257,894; published Feb. 14, 1928.
Remedy for the removal of corns, callouses, bunions, etc. L. J. Smith. 31,397; renewed Mar. 8, 1928.
Rouges, creams, and toilet powders. Millington Company. 241,313; Apr. 24; Serial No. 244,311; published Feb. 14, 1928.
Salve, External. J. E. McBrady. 241,340; Apr. 24; Serial No. 259,452; published Feb. 14, 1928.
Tablets for use as an analgesic, etc. First Texas Chemical Manufacturing Co. 241,358; Apr. 24; Serial No. 258,863; published Feb. 14, 1928.
Tablets, vaginal douche tablets, etc., Antiseptic. H. L. De Bar. 241,302; Apr. 24; Serial No. 256,614; published Feb. 14, 1928.
Tonic, Herb. F. J. Hoffmann. 241,275; Apr. 24; Serial No. 253,374; published Feb. 14, 1928.

CLASS 7.

Twines. Overman & Schrader Cordage Co. 68,893; renewed May 5, 1928.

CLASS 9.

Firearms and parts thereof. Birmingham Small Arms Company Limited. 68,285; renewed Mar. 24, 1928.
Fireworks. J. Halpern. 241,397; Apr. 24; Serial No. 259 168; published Feb. 14, 1928.
Shotguns. Norvell-Shapleigh Hardware Company. 68,123; renewed Mar. 10, 1928.

CLASS 11.

Ink ribbons and carbon paper. F. S. Webster Company. 68,382; renewed Apr. 7. 1928.

CLASS 12.

Brick and tile. Acme Brick Company. 241,432; Apr. 24.
Cabinets, Medicine. Hoegger Inc. 241,303; Apr. 24; Serial No. 256,672; published Jan. 10. 1928.
Cement, Portland. Sandusky Portland Cement Company. 70,272; renewed Aug. 18, 1928.

CLASS 13.

Nuts for woodwork, Screw anchor. Scru Tite Corporation. 241,438; Apr. 24.
Roasters, Metal. Republic Metalware Co. 68,099; renewed Mar. 10. 1928.
Vehicles and parts thereof. Birmingham Small Arms Company Limited. 69,725; renewed June 30, 1928.

CLASS 14.

Locomotive and car replacer. G. T. Chambers. 241,395; Apr. 24; Serial No. 259 199; published Feb. 14, 1928.
Solder. David Metzger Inc. 241,392; Apr. 24; Serial No. 258,695; published Feb. 14, 1928.

CLASS 15.

Lubricant and cooling-oil compound. White & Bagley Company. 241,273; Apr. 24; Serial No. 243,794; published Jan. 31, 1928.

CLASS 16.

Calcimines, varnishes, varnish, stains, etc. Thybony & Bengtson. 241,361; Apr. 24; Serial No. 257,821; published Feb. 14, 1028.
Paint. L. Seideman. 241,379; Apr. 24; Serial No. 258,139; published Feb. 14, 1928.
Varnish, linoleum varnish, paint enamel, varnish stain, and lacquer, Clear. Republic Paint & Varnish Works. 241,325; Apr. 24; Serial No. 229,930; published May 31, 1927.

CLASS 19.

Automobiles and constructive parts thereof. Graham-Paige Motors Corporation. 241,330; Apr. 24; Serial No. 260,010; published Feb. 21, 1928.

CLASS 21.

Electric grills. C. W. Carter. 241,422; Apr. 24; Serial No. 253,639; published Feb. 21, 1928.

CLASS 22.

Game, Table. M. V. Martin. 241,409; Apr. 24; Serial No. 257,298; published Feb. 14, 1928.
Novelties, Oilcloth. Washme Manufacturing Co. 241,410; Apr. 24; Serial No. 257.883; published Feb. 14, 1928.
Playground and gymnasium apparatus. Junglegym, Inc. 241,411; Apr. 24; Serial No. 257,876; published Feb. 14, 1928.

CLASS 23.

Augers and bits. Russell Jennings Mfg. Co. 69,448; renewed June 16. 1928.
Boots and shoes, Leather. Haynes-Henson Shoe Co. 69,586; renewed June 23, 1928.
Handles, Table-cutlery. C. H. Hemming. 241,376; Apr. 24; Serial No. 258,228; published Feb. 14, 1928.
Machines. Birmingham Small Arms Company. 70,339; renewed Aug. 25, 1928.
Machines and wire-tacking machines, Wire-stapling. G. H. Heyn. 241,336; Apr. 24; Serial No. 259,553; published Feb. 14, 1928.
Oil-pressure-controlled devices for controlling the feeding of fuel, Automatic. Bifiex Products Company. 241,282; Apr. 24; Serial No. 249,150; published Feb. 14, 1928.
Printing machines. Addressograph Company. 241,337; Apr. 24; Serial No. 259,522; published Feb. 14, 1928.
Razors and razor blades. Magazine Repeating Razor Company. 241,430; Apr. 24.
Scythes. Western Importing Company. 241,365; Apr. 24; Serial No. 258,706; published Feb. 14, 1928.
Stretchers and sealers. Acme Steel Company. 241,287; Apr. 24; Serial No. 250,345; published Feb. 14, 1928.
Tools. Chillington Tool Company Limited. 67,850; renewed Feb. 25, 1928.

CLASS 25.

Safes. Herring-Hall-Marvin Safe Company. 70,369; renewed Aug. 25, 1928.
Safes. Herring-Hall-Marvin Safe Company. 70,411; renewed Aug. 25, 1928.

CLASS 26.

Meters, Fluid. Neptune Meter Company. 31,905; renewed Aug. 23, 1928.
Optical instruments and parts thereof. Carl Zeiss. 68,570–3; renewed Apr. 14, 1928.
Pictures, Motion. Sterling Pictures Distributing Corporation. 241,418; Apr. 24; Serial No. 241,360; published Feb. 1, 1927.

CLASS 29.

Cloths, Industrial wiping. Hillside Cotton Mills. 241,404; Apr. 24; Serial No. 254,850; published Feb. 7, 1928.
Mops, dusters, and brushes. Donald Brush Company. 241,393–4; Apr. 24; Serial Nos. 258,897–8; published Feb. 14, 1928.
Toothbrushes. Iodent Chemical Company. 241,420–1; Apr. 24; Serial Nos. 236,487–88; published Feb. 7, 1928.

CLASS 30.

Dishes and utensils. Porcelain. Porzellanfabrik Ph. Rosenthal & Co. Aktiengesellschaft. 68,316; renewed Mar. 24, 1928.

CLASS 32.

Radiator covers, Metal. H. Daniell. 241,371; Apr. 24; Serial No. 258,405; published Feb. 14, 1928.
Tables, Folding desk. John Schroeder Lumber Co. 241,344; Apr. 24; Serial No. 259,220; published Feb. 14, 1928.

CLASS 33.

Glass globes and refractors. Holophane Company. 241,315; Apr. 24; Serial No. 242,951; published Feb. 14, 1928.

CLASS 35.

Brake-lining cushions. Minerva Pictures Corporation. 241,285; Apr. 24; Serial No. 250,084; published Feb. 14, 1928.
Patches for tire tubes. H. Saunders. 241,276; Apr. 24; Serial No. 253,391; published Nov. 1, 1927.

CLASS 37.

Calendar and desk pad. Clark Loose Leaf Manufacturing Company. 241,429; Apr. 24.
Maps and similar sheets, Supports or tabs for. H. W. Hall. 241,408; Apr. 24; Serial No. 256,120; published Feb. 14, 1928.
Pads, Bridge. Clark Loose Leaf Manufacturing Company. 241,423; Apr. 24.
Paper, bristol and card board, calendar board, etc., Cover. Beveridge Paper Company. 241,425; Apr. 24.
Paper, paper towels and napkins, Toilet. Glass Sales Agency, Inc. 241,424; Apr. 24.
Paper, Water and weather proof. Scutan Company. 241,415; Apr. 24; Serial No. 249,677; published Feb. 14, 1928.
Paper, Wrapping. Graham Paper Company. 70,429; renewed Sept. 1, 1928.
Rubber type, rubber-type sets, office printing outfits, etc. Superior Type Company. 241,417; Apr. 24; Serial No. 242,152; published Feb. 14, 1928.
Tablets, writing books, and blank books, Writing. Miller Paper Company. 241,406; Apr. 24; Serial No. 255,816; published Feb. 14, 1928.

CLASS 38.

Circulars and other literature. H. W. Bailey. 291,391; Apr. 24; Serial No. 258,512; published Feb. 14, 1928.
Column on the woman's page. Brooklyn Daily Eagle. 241,436; Apr. 24.
Magazines. Personal Arts Company. 241,398; Apr. 24.
Maps and charts. F. M. Locher. 241,412; Apr. 24; Serial No. 258,086; published Feb. 14, 1928.
Maps, diagrams, booklets, price lists, etc. Wallace Press. 241,439; Apr. 24.
Newspapers, News articles for. United Press Associations. 241,440; Apr. 24.
Publication. American Education Press, Inc. 241,416; Apr. 24; Serial No. 247,405; published Feb. 14, 1928.

CLASS 39.

Boots and shoes. Haynes-Henson Shoe Co. 69,810; renewed July 7, 1928.
Boots, shoes, and soles, Rubber. National India Rubber Co. 68,468; renewed Apr. 7, 1928.
Clothing. Samuel Sternberger & Co. 68,560; renewed Apr. 14, 1928.
Coats. Goldsmith & Matlick. 241,387; Apr. 24; Serial No. 257,800; published Jan. 10. 1928.
Dresses. Lehrer & Corday. 241,293; Apr. 24; Serial No. 255,811; published Dec. 13, 1927.
Frocks and coats. L. K. Ellenbogen. 241,297; Apr. 24; Serial No. 256,286; published Jan. 10, 1928.
Gloves, Leather. Saranac Glove Company. 67,722; renewed Feb. 18, 1928.
Hosiery. Dorothy Dodd Shoe Company. 70,477; renewed Sept. 8, 1928.
Hosiery. Thomas G. Plant Company. 70,481; renewed Sept. 8, 1928.
Overalls. Sweet-Orr & Co. 241,279; Apr. 24; Serial No. 255,779; published Dec. 13, 1927.
Shoes. Edward Friedman, Inc. 241,378; Apr. 24; Serial No. 258,175; published Feb. 7, 1928.

CLASS 42.

Cotton piece goods. I. M. Friedman & Co. Inc. 241,274; Apr. 24; Serial No. 253,236; published Feb. 14, 1928.
Dishcloths, pot cloths, etc. Brown & Soerensen. 241,301; Apr. 24; Serial No. 256,561; published Feb. 14, 1928.
Fabrics. Bear Mill Manufacturing Company. 241,327; Apr. 24; Serial No. 225,163; published Feb. 14, 1928.
Knitted piece goods. I. A. Wyner & Co. 241,386; Apr. 24; Serial No. 257,836 published Feb. 14, 1928.
Textile fabrics. Stein Brothers. 241,317; Apr. 24; Serial No. 241,909; published Feb. 14, 1928
Woolen fabrics. Goodman & Suss Inc. 241,434; Apr. 24.
Woolen piece goods. Forstmann & Huffmann Company. 241,309; Apr. 24; Serial No. 247,533; published Feb. 14, 1928.

CLASS 43.

Yarns. Norddeutsche Wollkämmerei & Kammgarnspinnerei. 69,446; renewed June 16. 1928.
Yarns of cellulose. Courtaulds, Limited. 241,364; Apr. 24; Serial No. 258,730; published Feb. 14, 1928.

CLASS 45.

Beverage. Hilldick Corporation. 241,335; Apr. 24; Serial No. 259,555; published Feb. 14, 1928.
Ginger ale. Fresno Beverage Company. 241,294; Apr. 24; Serial No. 255,979; published Feb. 14, 1928.

CLASS 46.

Bread, canned red kidney beans, macaroni, etc. Shaffer Stores Company. 241,298; Apr. 24; Serial No. 256,378; published Feb. 14, 1928.
Bread, Rye. C. J. Biehle. 68,158; renewed Mar. 10, 1928.
Butter, eggs, cheese, etc. Omaha Packing Company. 241,383; Apr. 24; Serial No. 257,892; published Feb. 14, 1928.
Candy. Alberta Candy Co. 241,314; Apr. 24; Serial No. 244,123; published Feb. 14, 1928.
Candy mints. W. P. Chase Candy Corp. 241,320; Apr. 24; Serial No. 220 879; published Jan. 25, 1927.
Canned fish. Southern California Fish Corp. 241,277; Apr. 24; Serial No. 254,306; published Feb. 14, 1928.

Canned fruits and vegetables. New York Canners, Inc. 241,292; Apr. 24; Serial No. 251,074; published Dec. 13, 1927.

Canned salmon. Alaska Consolidated Canneries Inc. 241,307; Apr. 24; Serial No. 246,378; published Feb. 14, 1928.

Canned sardines. A/S Einar Hausvik & Co. 241,281; Apr. 24; Serial No. 248,739; published Feb. 7, 1928.

Canned shrimp, raviolis, and oysters. Dunbar-Dukate Company. 241,350; Apr. 24; Serial No. 259,053; published Feb. 14, 1928.

Canned vegetables, shellfish, and table syrup. F. Frey. 241,284; Apr. 24; Serial No. 249,787; published Feb. 14, 1928.

Catsup, tomato sauce, etc., Tomato. Emery Food Company. 241,375; Apr. 24; Serial No. 258,255; published Feb. 14, 1928.

Clam chowder, clam juice, etc. Abt-Bernot, Inc. 241,351; Apr. 24; Serial No. 259,037; published Feb. 14, 1928.

Cookies, cakes, crackers, etc. Ontario Biscuit Company. 241,407; Apr. 24; Serial No. 255,924; published Dec. 27, 1927.

Crackers. American Biscuit Company. 241,328; Apr. 24; Serial No. 221,688; published Feb. 14, 1928.

Crackers, cookies, biscuits, etc. Independent Baking Company. 241,363; Apr. 24; Serial No. 258,747; published Feb. 14, 1928.

Egg mash, mash, chick starter, growing mash, etc. McMillen Company. 241,385; Apr. 24; Serial No. 257,842; published Feb. 14, 1928.

Eggs. A. F. Thibodeau Co. Inc. 241,360; Apr. 24; Serial No. 258,844; published Feb. 14, 1928.

Flour, Self-rising. Eisenmayer Milling Co. 241,389; Apr. 24; Serial No. 257,538; published Feb. 14, 1928.

Flour, Wheat. J. F. Eesley Milling Company. 241,405; Apr. 24; Serial No. 255,000; published Dec. 27, 1927.

Flour, Wheat. Larabee Flour Mills Company. 241,403; Apr. 24; Serial No. 254,111; published Dec. 27, 1927.

Flour, Wheat. Marquis Flour Milling Company. 241,342; Apr. 24; Serial No. 259,368; published Feb. 14, 1928.

Flour, Wheat. Rea-Patterson Milling Company. 69,968; renewed July 21, 1928.

Flour, Wheat. Red Lion Milling Company. 241,306; Apr. 24; Serial No. 257,317; published Feb. 14, 1928.

Foods. Manufactured livestock. Lake Shore Elevator Company. 241,321–2; Apr. 24; Serial Nos. 236,759–60; published Nov. 16, 1926.

Fruits, Fresh. C. C. Chapman. 241,316; Apr. 24; Serial No. 242,819; published Feb. 14, 1928.

Fruits, Fresh. Tule River Citrus Association. 241,320; Apr. 24; Serial No. 237,711; published Feb. 14, 1928.

Fruits, Fresh citrus. Villa Park Orchards Association. 241,288; Apr. 24; Serial No. 250,875; published Feb. 14, 1928.

Mayonnaise dressing, salad dressing, candles, etc. Swa-Roba Products Co. 241,280; Apr. 24; Serial No. 248,522; published Feb. 14, 1928.

Milk and cream, Fresh or raw. American Association of Medical Milk Commissions. 241,338; Apr. 24; Serial No. 259,518; published Feb. 14, 1928.

Milk and milk products. Harris Altman & Co. Inc. 241,318; Apr. 24; Serial No. 241,480; published Feb. 14, 1928.

Nut confection. J. L. Long. 241,370; Apr. 24; Serial No. 258,419; published Feb. 14, 1928.

Nuts, and nuts, Salted and candied. E. F. Kemp. 241,380–1; Apr. 24; Serial Nos. 257,928–9; published Feb. 14, 1928.

Olive oil. P. Pastene & Co. Inc. 241,362; Apr. 24; Serial No. 258,766; published Feb. 14, 1928.

Oranges and grapefruit, Fresh. Orlando Orange Groves Company. 241,308; Apr. 24; Serial No. 246,495; published Feb. 14, 1928.

Oranges, lemons, and grapefruit. Teague-McKevett Company. 241,289; Apr. 24; Serial No. 250,869; published Feb. 14, 1928.

Oranges, lemons, and grapefruit. Villa Park Orchards Association. 241,290–1; Apr. 24; Serial Nos. 250,876–7; published Feb. 14, 1928.

Oranges, lemons, and grapefruit. W. B. Wall. 29,634; renewed Mar. 2, 1927.

Pickles, chowchow, and sweet relish. Recht & Rosenbaum, Inc. 241,295; Apr. 24; Serial No. 256,010; published Feb. 14, 1928.

Potato chips. Dernell Potato Products Co. 241,326; Apr. 24; Serial No. 229,437; published Feb. 14, 1928.

Potato chips. Po-Go Food Company. 241,304; Apr. 24; Serial No. 256,683; published Feb. 14, 1928.

Prunes, Dried. E. E. Melone. 241,311; Apr. 24; Serial No. 246,301; published Feb. 14, 1928.

Pumpernickel. Pechter Baking Co. Inc. 241,373; Apr. 24; Serial No. 258,281; published Feb. 14, 1928.

Sugar, Substitute for. L. Schlosser. 241,319; Apr. 24; Serial No. 238,078; published Feb. 14, 1928.

Syrup, Barley malt. Gold Medal Products Co. 241,427; Apr. 24.

Syrups, Malt and porter malt. Holland Distributing Company. 241,349; Apr. 24; Serial No. 259,114; published Feb. 14, 1928.

Tea. P. C. Larkin. 31,900; renewed Aug. 23, 1928.

Tea, coffee, eggs, hominy, etc. Thos. Roulston Inc. 241,310; Apr. 24; Serial No. 248,016; published Feb. 14, 1928.

Vegetables and fresh deciduous fruits, Fresh. P. Ferraris. 241,323; Apr. 24; Serial No. 231,992; published Feb. 14, 1928.

CLASS 48.

Malt beverage, Cereal. John F. Trommer, Inc. 241,367; Apr. 24; Serial No. 258,606; published Feb. 14, 1928.

CLASS 49.

Whisky. James Buchanan & Co. Limited. 68,310; renewed Mar. 24, 1928.

ALPHABETICAL LIST OF LABELS.

Arch Support Shoe. For Footwear. Hoague-Sprague Corporation. 33,889; Apr. 24.

Cook's Oriental Brand Coffee. For Coffee. A. H. Cook. 33,874; Apr. 24.

De Luxe Slippers. For Footwear. Hoague-Sprague Corporation. 33,884; Apr. 24.

Fashionable Footwear. For Footwear. Hoague-Sprague Corporation. 33,881; Apr. 24.

Follow Dial for Style. For Boxes. Hoague-Sprague Corporation. 33,894; Apr. 24.

Footwear. For Footwear. Hoague-Sprague Corporation. 33,883; Apr. 24.

Footwear of Distinction. For Footwear. Hoague-Sprague Corporation. 33,893; Apr. 24.

Four-To-One. For Gloves. Cleaver Manufacturing Co. 33,873; Apr. 24.

Geo. E. Stifel Co. For Boxes. Hoague-Sprague Corporation. 33,880; Apr. 24.

Good Shoes for Everybody. For Footwear. Hoague-Sprague Corporation. 33,891; Apr. 24.

Grennan Peanut Cookies Made From Tested Cook Book Recipes. For Cookies. Grennan Bakeries, Incorporated. 33,879; Apr. 24.

L. S. Donaldson Co. For Footwear. Hoague-Sprague Corporation. 33,888; Apr. 24.

Millertone Laxative. For Laxative Preparation. J. Miller. 33,898; Apr. 24.

Peerless Butter. For Butter. W. Doane. 33,876; Apr. 24.

Pineapple Linen. For Writing Paper and Envelopes. Taylor-Atkins Paper Company. 33,901; Apr. 24.

Quality Butter. For Butter. W. Doane. 33,878; Apr. 24.

Quality Footwear. For Footwear. Hoague-Sprague Corporation. 33,882; Apr. 24.

Quality Ice Cream. For Ice Cream. W. Doane. 33,877; Apr. 24.

Quality Shoes. For Footwear. Hoague-Sprague Corporation. 33,890; Apr. 24.

Quality Shoes. For Footwear. Hoague-Sprague Corporation. 33,895–6; Apr. 24.

Quality Supreme Butter. For Butter. W. Doane. 33,875; Apr. 24.

Ritsy. For Egg Noodles. E. P. Velat. 33,902; Apr. 24.

S and P. For Fresh Tomatoes. Sanzone-Palmisano Company. 33,899; Apr. 24.

Scotland Linen. For Writing Paper and Envelopes. Taylor-Atkins Paper Company. 33,900; Apr. 24.

Shoes for Every Occasion. For Footwear. Hoague-Sprague Corporation. 33,886; Apr. 24.

Sterling. For Boxes. Hoague-Sprague Corporation. 33,892; Apr. 24.

The Pokorny Shoe. For Footwear. Hoague-Sprague Corporation. 33,887; Apr. 24.

Town Club. For Ginger Ale. Mercer Bottling Co. 33,897; Apr. 24.

Women's Novelty Shoes. For Footwear. Hoague-Sprague Corporation. 33,885; Apr. 24.

World Sweets. For Candy, Nuts, and Other Confections. World Sweets, Inc. 33,903; Apr. 24.

Wrigley's Dulce 16—Chicle Rosado. For Chewing Gum. Wm. Wrigley Jr. Company. 33,904; Apr. 24.

ALPHABETICAL LIST OF PRINTS.

A Merry Christmas From Armand. For Cosmetics. Armand Company. 10,788; Apr. 24.

De La Guardia, Inc. For Coal. De La Guardia, Inc. 10,789; Apr. 24.

The Best I Ever Tasted. For Ginger Ale. Elco Distributing Company. 10,790; Apr. 24.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Soldering iron. 1,667,618; Apr. 24.

Abramowitz, Joseph, Madison, assignor of one-half to J. J. Selb, Venice, Ill. Arch support. 1,666,924; Apr. 24.

Abronski, John V. (See Walsh, T., Coover, and Abronski.)

Acme Lace Works, Inc. (See Meads, Walter, assignor.)

Adair, Samuel E., Chicago, Ill., and B. Knapp, assignors to Plane-Speaker Corporation, Kansas City, Mo. Aeroplane amplifier. 1,667,300; Apr. 24.

Adams, Alfred S. and W. B., and P. S. Moyer, Chicago, Ill. Candy jar. Des. 74,956; Apr. 24.

Adams, Willis B. (See Adams, Alfred S. and W. B., and Moyer.)

Ahern, James L., and L. G. Ledger, New Orleans, La. Piston and rod packing. 1,667,092; Apr. 24.

Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Compressor. 1,667,283; Apr. 24.

Akron Standard Mold Company, The. (See Fleiter, A. J., and Miller, assignors.)

Akron Standard Mold Company, The. (See Jahant, Augustus P., assignor.)

Alber, Fred C., Cleveland, Ohio. Combined gas and electric cookstove or range. 1,667,521; Apr. 24.

Albers, George C., et al. (See Davis, Robert R., assignor.)

Albrecht, William F., Salt Lake City, Utah. Faucet. 1,667,580; Apr. 24.

Alexander Boynton, San Antonio, Tex. Polished-rod rotator. 1,667,187; Apr. 24.

Alexander, Clive M., Tulsa, Okla. Gas and liquid contact apparatus. 1,667,136; Apr. 24.

Alexander, Clive M., Tulsa, Okla. Fractionating oils.

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor 1,667,340; Apr. 24.
to General Electric Company. Electric motor. 1,667,647; Apr. 24.

Allen, Floyd P., assignor to The Enamel Products Company, Cleveland, Ohio. Packing device. 1,667,279; Apr. 24.

Allen, Ralph S., assignor to Duratex Corporation, Newark, N. J. Method and apparatus for coating fabrics. 1,667,408; Apr. 24.

American Brass Company, The. (See Coe, James R., assignor.)

American Brass Company, The. (See Kinnear, Delamar C., assignor.)

American Cone & Pretzel Company. (See Betz, Charles F., assignor.)

American Gasaccumulator Company. (See Eskilson, S. A., and Holm, assignors.)

American Radiator Company. (See Eggleston, Lewis W., assignor.)

American Radiator Company. (See Wendel, Otto G., assignor.)

American Smelting and Refining Company. (See Moore, Ralph S., assignor.)

American Smelting and Refining Company. (See Poske, Harry C., assignor.)

American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)

American Telephone and Telegraph Company. (See Herman, Joseph, assignor.)

American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)

American Tool and Machine Company. (See Garland, Clarence H., assignor.)

Amezaga, Luis, Forest Hills, N. Y. Combination sanitary belt and napkin holder. 1,667,522; Apr. 24.

Anchor Cap & Closure Corporation. (See Hardiman, James S., assignor.)

Anderson, Raymond T., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,667,648; Apr. 24.

Anderson, Thomas F. (See Carpenter, R. F., and Anderson.)

Anderson, V. D., Company, The. (See Anderson, Raymond T., assignor.)

Anthony, Fred J. (See Biggs, Noah B., assignor.)

Anthony, John E., assignor to International Harvester Company, Chicago, Ill. Control mechanism for tractors. 1,667,361; Apr. 24.

Applegath, Joseph G., et al. (See Barnes, George, assignor.)

Appleton Electric Company. (See Goetzelman, William, assignor.)

Archer, Merton T. (See Zerbe, L. E., and Archer.)

Armberg, Wilhelm T., Liljeholmen, Sweden. Apparatus for the treatment of organisms with electrical currents. 1,667,451; Apr. 24.

Arnold, Frank, and W. Randolph, Oakland, Calif. Rotary pump. 1,667,183; Apr. 24.

Arnold, Max, assignor to Herman Scheuer's Son & Co., New York, N. Y. Lady's hand bag. Des. 74,957; Apr. 24.

Aronson, Louis V., Newark, N. J., assignor to Voices Incorporated. Talking toy mechanism. 1,667,093; Apr. 24.

Aronson, Louis V., Newark, N. J., assignor to Voices Incorporated. Sound device. 1,667,094; Apr. 24.

Aronson, Louis V., Newark, N. J., assignor to Voices Incorporated. Sound device. 1,667,095; Apr. 24.

Aronson, Louis V., Newark, N. J., assignor to Voices Incorporated. Sound device. 1,667,096; Apr. 24.

Arrow Electric Company, The. (See Nero, Arvid H., assignor.)

Arthur, Richard S., New York, N. Y., assignor to Kalyptol Products Inc. Vending machine. 1,666,884; Apr. 24.

Asbridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England. Grinding of gear-wheel teeth. 1,666,955; Apr. 24.

Ashkenas, Abraham, Brooklyn, N. Y. Screen. Des. 74,958; Apr. 24.

Assiter, Stephen H., Floydada, Tex. Cotton-cleaning machine. 1,667,505; Apr. 24.

Atkinson, William B., deceased, Bowling Green, Ky.; Bowling Green Trust Company, executor, assignor to A. G. Schwab & Sons, Cincinnati, Ohio. Clock attachment. 1,667,685; Apr. 24.

Atlantic Refining Company, The. (See Hill, Joseph B., assignor.)

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Cable clamp. 1,666,885; Apr. 24.

Autocar Company, The. (See Ward, Arthur C., assignor.)

Auto-Carburetor Corporation. (See Sorensen, Einar N., assignor.)

Automatic Electric Company. (See Obergfell, Herbert F., assignor.)

Automatic Electric Inc. (See Jones, Edwin E., assignor.)

Automatic Electric Inc. (See Wicks, John, assignor.)

Ayotte, Willard W., Midale, Saskatchewan, Canada. Latch. 1,666,985; Apr. 24.

B. B. Laboratories, Inc. (See Brown, Ben E., assignor.)

Babcock & Wilcox Company, The. (See Norton, Frederick H., assignor.)

Bach, Oscar B., New York, N. Y. Spindle for furniture pieces. Des. 74,959; Apr. 24.

Bachelder, Frank H., Orange, Mass. Dispensing cabinet. 1,667,528; Apr. 24.

Baddiley, James, P. Chorley, and C. Butler, assignors to British Dyestuffs Corporation Limited, Manchester, England. Dyeing artificial silk. 1,667,524; Apr. 24.

Bailey, Ernest M. Woodsdale, N. C. Battery-terminal clip. 1,667,581; Apr. 24.

Bailey, Leon J. (See Ryder, H. M., and Bailey.)

Bailey Meter Company. (See Thompson, Louis W., assignor.)

Bakelite Corporation. (See Swan, Hylton, assignor.)

Baker, Linnaeus E., and C. L. Merriman, assignors to Wayne Company, Fort Wayne, Ind. Liquid measuring and dispensing apparatus. 1,667,137; Apr. 24.

Bakker, Pieter J., Amsterdam, Netherlands. Apparatus for automatically igniting flashlight powder. 1,667,368; Apr. 24.

Ballard, Milton H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. 1,667,184; Apr. 24.

Ballou, Howard M., assignor to R. Blackinton & Co., North Attleboro, Mass. Belt strap. 1,667,696; Apr. 24.

Bankrat, John S., Hempstead, N. Y. Propeller. 1,667,506; Apr. 24.

Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet-folding mechanism. 1,667,369; Apr. 24.

Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet-folding mechanism. 1,667,370; Apr. 24.

Barke, Frank S., St. Louis, Mo. Valve mechanism. 1,667,188; Apr. 24.

Barnard, Russell E., assignor to The R. Hardesty Manufacturing Company, Denver, Colo. Flume construction. 1,667,234; Apr. 24.

Barnes, George, assignor of one-third to J. G. Applegath and one-third to G. W. Jenkins, Princeton, Ind. Fish-plate bond. 1,667,452; Apr. 24.

Barr, Daniel R., Grand Rapids, Ohio, assignor to Taylor Instrument Company, Rochester, N. Y. Anatomical sleeve. 1,667,409; Apr. 24.

Barr and Stroud, Limited. (See Stroud, William, assignor.)

Barrett Company, The. (See Downs, C. R., and Welsberg, assignors.

Barrows, Allan S., Los Angeles, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Metallic car door. 1,667,341; Apr. 24.

Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Adjustable pedestal way liner. 1,667,453; Apr. 24.

Bartels, Walter E., Cincinnati, Ohio. Roofing single. 1,667,185; Apr. 24.

Bashcongi, Gabriel, Brooklyn, N. Y. Safety valve. 1,667,525; Apr. 24.

Bass, Aaron T., Eaton, Colo. Adjustable road drag. 1,667,301; Apr. 24.

Bastian Blessing Company, The. (See Evleth, Earl M., assignor.)

Bates, Adelmer M., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Making and filling bags. 1,666,886; Apr. 24.

Bates Valve Bag Corporation. (See Bates, Adelmer M., assignor.)

Bäuml, Maximilian, Vienna, Austria, assignor to the firm Jagenberg-Werke Akt.-Ges., Dusseldorf, Germany. Cigarette-packing machine. 1,666,986; Apr. 24.

Baxter, William M., assignor to Ideal Removable Body Company, Chicago, Ill. Removable-body truck. 1,667,023; Apr. 24.

Beall, Charles R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Speed-responsive system. 1,667,410; Apr. 24.

Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Machine for filling molds. 1,667,097; Apr. 24.

Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)

Beattie, Robert, assignor to Texas Pacific Coal and Oil Company, Fort Worth, Tex. Apparatus for mixing sludge. 1,667,235; Apr. 24.

Beaumont Manufacturing Company. (See Burnett, William J., assignor.)

Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Metal bowl or similar article. Des. 74,960; Apr. 24.

Bellocchio, John, New York, N. Y. Extension table. 1,667,411; Apr. 24.

Bendix Brake Company. (See Dodge, Adiel Y., assignor.)

Bendix Brake Company. (See Sanford, Roy S., assignor.)

Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)

Benien, William, and J. I. Flaherty, Lincoln, Kans. Anti-skid device for automobile wheels. 1,667,686; Apr. 24.

Benjamin, Bert R., Oak Park, and C. R. Raney, assignors to International Harvester Company, Chicago, Ill. Tractor cultivator. 1,667,371; Apr. 24.

Benjamin Electric Mfg. Co. (See Benjamin, R. B., and Warner, assignors.)

Benjamin, Reuben B., Chicago, and C. E. Warner, Berwyn, assignors to Benjamin Electric Mfg. Co., Chicago, Ill. Switch construction. 1,666,925; Apr. 24.

Bergeron, Ovila J., Manchester, N. H. Collar button. 1,667,098; Apr. 24.

Bergmoser, George O. (See Kilgus, C. A., Burton, and Bergmoser.)

Bergquist, Charles H., assignor of one-half to E. A. Locke, Okmulgee, Okla. Anvil for bit-dressing hammers. 1,667,236; Apr. 24.

Bernhard, Robert A., Rochester, N. Y. Dispensing receptacle. 1,667,302; Apr. 24.

Bernhardt, M. E., Company. (See Raeburn, William, assignor.)

Betz, Charles F., St. Louis, Mo., assignor to American Cone & Pretzel Company, Philadelphia, Pa. Ice-cream cone. Des. 74,961; Apr. 24.

Beyl, Emil A., Minneapolis, Minn. Friction clutch. 1,666,956; Apr. 24.

Bezzenberger, Fred K., Cleveland Heights, Ohio, assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Flexible metal wall and making same. 1,667,303; Apr. 24.

Bieberstein, Frank A., Milwaukee, Wis. Vest. 1,667,526; Apr. 24.

Biggs, Noah B., assignor to F. J. Anthony, Wichita, Kans. Derrick. 1,667,582; Apr. 24.

Billingsley, Percy L., assignor of one-fourth to M. O. Overstreet, Orlando, Fla. Saw tooth. 1,666,987; Apr. 24.

Binz, Arthur, Berlin, and C. Räth, Rangsdorf, Germany. Preparation of organic arsenic compounds. 1,667,237; Apr. 24.

Binz, Arthur, Berlin, and C. Räth, Rangsdorf, Germany. Reduction of arsonic acids. 1,667,238; Apr. 24.

Bircher Co., The. (See Keiser, Arthur J., assignor.)

Black, Austin L., Colorado Springs, Colo. Sleeve holder. 1,667,583; Apr. 24.

Blackinton, R., & Co. (See Ballou, Howard M., assignor.)

Blanding, Forrest H., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Detachable handle for drills. 1,667,280; Apr. 24.

Blankart, André, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Alkyl derivatives of diphenolisatine and making same. 1,667,239; Apr. 24.

Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Trunking system. 1,666,988; Apr. 24.

Blaw, Jacob B., deceased, Atlantic City, N. J.; S. H. Blaw, executrix. Portable fire-nozzle support. 1,667,342; Apr. 24.

Blaw, Sadie H., executrix. (See Blaw, Jacob B.)

Blecker, William M., assignor to E. A. Langenbach, Canton, Ohio. Continuous-sheet-rolling apparatus. 1,667,412; Apr. 24.

Blecker, William M., assignor to E. A. Langenbach, Canton, Ohio. Continuous-sheet-rolling method. 1,667,413; Apr. 24.

Bliss Brothers Company. (See Wendelstein, Carl M., assignor.)

Bluehdorn, William R., Hartford, Conn. Muzzle attachment for guns. 1,667,186; Apr. 24.

Bodle, Virgil H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for manipulating fasteners and tabs therefor. 1,667,527; Apr. 24.

Bohne, William A. (See Peirson, C. H., and Bohne.)

Boldt, Richard, San Francisco, Calif. Seat for girders and beams. 1,667,619; Apr. 24.

Bonge, Charles E., Creighton, assignor of one-third to E. A. Houston and one-third to E. T. Houston, Niobrara, Nebr. Jar-handling tool. 1,667,620; Apr. 24.

Booth, William N., Detroit, Mich. Vehicle wheel. 1,667,024; Apr. 24.

Borden, John F., Alameda, assignor to Oliver Continuous Filter Company, Oakland, Calif. Gas separator. 1,667,139; Apr. 24.

Borgwardt, Erich. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)

Borsig, A., G. m. b. H. (See Kindermann, Erich, assignor.)

Bostwick, William W., et al. (See Tipton, Edward F., assignor.)

Bowen, Ernest W., London, England. Manufacture of fuel briquettes. 1,667,304; Apr. 24.

Bowers, Claude E., Los Angeles, Calif. Outlet-box hanger. 1,667,025; Apr. 24.

Bowling Green Trust Company, executor. (See Atkinson, William B.)

Bowman, George W., Seymour, Tex. Nut lock. 1,667,305; Apr. 24.

Boxer, Maurice, San Francisco, Calif. Hair curler. 1,667,188; Apr. 24.

Boyce, Harrison H., Jericho, N. Y. Indicating instrument for automobile radiator caps and the like. 1,667,026; Apr. 24.

Boyce, Harrison H., Jericho, N. Y. Temperature-indicating apparatus for vehicle propelling motors. 1,667,027; Apr. 24.

Boynton, Alexander, San Antonio, Tex. Polished-rod rotator. 1,667,240; Apr. 24.

Boynton, Alexander, San Antonio, Tex. Device for cementing wells. 1,667,649; Apr. 24.

Boynton, Stanley E., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working apparatus. 1,667,028; Apr. 24.

Bradley, James P., and O. A. Prough, Weed, Calif. Theft signal switch. 1,667,650; Apr. 24.

Brady, William A., Ohiopyle, Pa. Hammer attachment for paintbrushes. 1,667,651; Apr. 24.

Bragonier, Reginald. (See Meyers, F. B., and Darney, assignors.)

Brandes Laboratories Inc. (See Vansickle, Melvin E., assignor.)

Breitenbach, James M., Battle Creek, Mich. Side-wall register rack. 1,667,099; Apr. 24.

Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,667,528; Apr. 24.

Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,667,529; Apr. 24.

Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Bumper structure. 1,667,530; Apr. 24.

Breninger, Clyde W., Canton, Ohio. Life preserver. 1,667,414; Apr. 24.

Brewer, Oscar Z., Spokane, Wash., assignor of one-half to H. H. McNeill, New York, N. Y. Carboy-shipping container. 1,667,029; Apr. 24.

Brewer, Robert E. (See Fay, R. D., and Brewer.)

Brinkman, Sebastian G., Perth Amboy, N. J. Refrigerator. 1,667,281; Apr. 24.

Bristol Company, The. (See Koester, Herman, assignor.)

British Drug Houses, Limited, The. (See Ellis, Henry A., assignor.)

British Dyestuffs Corporation Limited. (See Baddiley, J., Chorley, and Butler, assignors.)

Brix, Harold, assignor to Sharp & Smith, Chicago, Ill. Syringe. 1,667,454; Apr. 24.

Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling machine. 1,666,989; Apr. 24.

Bronson, Edmond B., Blue Island, Ill. Lantern. 1,667,848; Apr. 24.

Bronson, Edmond B., Blue Island, Ill. Electric lantern. 1,667,706; Apr. 24.

Brooks, J. B., and Company Limited. (See Snell, George C. S., assignor.)

Brooks, John C., Paterson, N. J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom. 1,667,306; Apr. 24.

Brosius, Edward E., Spokane, Wash. Cigarette-holder case. 1,667,065; Apr. 24.

Brown, Ben E., Mountain Lakes, assignor to B. B. Laboratories, Inc., East Orange, N. J. Sound-reproducing apparatus. 1,667,581; Apr. 24.

Brown, Charles H., Flushing, N. Y. Foot-measuring apparatus. 1,667,100; Apr. 24.

Brown, George L., Huntingdon Valley, Pa. Handling capsules for filling. 1,667,066; Apr. 24.

Browning, John, administrator. (See Browning, John M.)

Browning, John M., Ogden, Utah; J. Browning, administrator. Barrel-cooling device for firearms. 1,666,887; Apr. 24.

Buckingham, William H., assignor of one-half to S. Salzburg, Mayfield, Pa. Guard for hand straps. 1,667,307; Apr. 24.

Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Closure for bearings. 1,667,507; Apr. 24.

Budd Wheel Company. (See Kelley, George L., assignor.)

Budny, Maciej, Garfield Heights, Ohio. Paper-marker fastener. 1,667,241; Apr. 24.

Buffalo Foundry & Machine Co. (See Lavett, Charles O., assignor.)

Bunker, Samuel F., Chicago, Ill. Key fastener. 1,667,508; Apr. 24.

Burd & Fletcher Company. (See Fehrenkamp, Emil W., assignor.)

Burgess, William A. A. (See Clothier, H. W., and Burgess.)

Burke, Charles E., and H. H. Hopkins, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthetic resin. 1,667,189; Apr. 24.

Burnett, William J., Glenside, assignor to Beaumont Manufacturing Company, Philadelphia, Pa. Mechanism for actuating the gates of gravity-discharge hoppers. 1,667,468; Apr. 24.

Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Pressure-relief pipe for electrical-apparatus casings. 1,667,621; Apr. 24.

Burns, Elmer G., Los Angeles, Calif. Universal joint. 1,667,455; Apr. 24.

Burton, Chester A. (See Kilgus, C. A., Burton, and Bergmoser.)

Butler, Carlton. (See Braddiley, J., Chorley, and Butler.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Husen, assignors.)

Cady, Sherman W., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Four-hourse hitch. 1,667,372; Apr. 24.

Caldwell, William L., Indianapolis, Ind. Order blank. 1,667,622; Apr. 24.

Callum, Preston D., Baltimore, Md. Guard for knife-sharpening steels. 1,667,282; Apr. 24.

Calverley, John E., Preston, and W. E. Highfield, assignors to The English Electric Company Limited, London, England. Electric converting apparatus. 1,667,242; Apr. 24.

Cameron, Angus, Sommerstown, assignor of fifty-two one-hundredths to W. D. Knight, Cornwall, Ontario, Canada. Wheel-rim locking and contracting appliance. 1,667,243; Apr. 24.

Campbell, John. (See Pickering, C. H., and Campbell.)

Campbell, Sterling H., assignor to Western Railway Equipment Company, St. Louis, Mo. Draft gear. 1,667,030; Apr. 24.

Campbell, Stewart L., Berkeley, assignor to J. Grant, Los Angeles, Calif. Rotary underreamer. 1,667,190; Apr. 24.

Cappellia, Charles J., et al. (See Trimble, William O., assignor.)

Cappellia, Frank, et al. (See Trimble, William O., assignor.)

Carey, Arthur G., Bluefield, W. Va. Lamp shade for reading lights. 1,667,623; Apr. 24.

Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Concrete hanger block. 1,667,532; Apr. 24.

Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Concrete hanger block. 1,667,533; Apr. 24.

Carpenter, Robert F., and T. F. Anderson, assignors to The Sanymetal Products Company, Cleveland, Ohio. Partition structure. 1,667,534; Apr. 24.

Carroll, Wells W., and S. W. Nicholson, assignors to The Dura Company, Toledo, Ohio. Roller for window-control mechanism. 1,667,031; Apr. 24.

Carter, Paul E., Bronxville, assignor to General Railway Signal Company, Gates, N. Y. Light signal. 1,667,469; Apr. 24.

Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Contact fingers. 1,667,652; Apr. 24.

Casner, Thaddeus S., Plainfield, N. J., assignor to Radio Electric Clock Corporation, New York, N. Y. Silent secondary clock. 1,667,308; Apr. 24.

Cather, Charles E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Duplex envelope. 1,666,957; Apr. 24.

Catlin, Thomas S., Waveland, assignor to Catlin-Tompkins Corporation of Indiana, Indianapolis, Ind. Window-shade apparatus. 1,666,990; Apr. 24.

Catlin-Tompkins Corporation of Indiana. (See Catlin, Thomas S., assignor.)

Cederberg, Ivar W., Steglitz, near Berlin, Germany. Catalytic combustion of ammonia-oxygen mixtures. 1,666,958; Apr. 24.

Celestin, William E., New York, N. Y. Section tire for vehicles. 1,667,535; Apr. 24.

Chaffee, Edward F., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y. Combined sash holder and starter. 1,667,288; Apr. 24.

Chamberlain, Alfred J., Lakewood, Ohio. Metal container. 1,667,284; Apr. 24.

Chambersburg Engineering Company. (See Clarke, Eugene C., assignor.)

Chandler, Carl B., Havana, Ill. Metal-wheel-tire expander. 1,667,509; Apr. 24.

Chanier, Gaston L., Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y. Preventing premature uncoiling of film bobbins. 1,667,536; Apr. 24.

Chapin, Samuel A., Seattle, Wash. Marine protractor. 1,667,191; Apr. 24.

Chaplin, Manley J., Berkeley, Calif. Locking device for automobiles. 1,667,584; Apr. 24.

Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Automatic arc welding. 1,667,585; Apr. 24.

Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Apparatus for fusion welding. 1,667,586; Apr. 24.

Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Welding machine. 1,667,587; Apr. 24.

Chase, Elroy A., Northfield, Vt. Ornamenting stone. 1,667,309; Apr. 24.

Chemical Construction Company. (See Hechenbleikner, Ingenuin, assignor.)

Chemische Fabrik auf Actien (vorm. E. Schering). (See Schoeller, W., Feldt, Gehrke, and Borgwardt, assignors.)

Chemische Fabrik auf Actien (vorm. E. Schering). (See Schotte, Herbert, assignor.)

Cherniak, Nicholas, Bronx, N. Y. Garter hosiery. 1,667,707; Apr. 24.

Chesley, Frank, Louisville, Ky. Moistening device. 1,667,067; Apr. 24.

Chicago Pneumatic Tool Company. (See Blanding, Forrest H., assignor.)

Chicago Pneumatic Tool Company. (See Seaver, Samuel, assignor.)

Chorley, Percy. (See Badiley, J., Chorley, and Butler.)

Christoph, Edward A., Chicago, Ill. Amusement device. 1,667,101; Apr. 24.

Chrysler Corporation. (See Couture, Allan B., assignor.)

Churchill Machine Tool Company Limited. (See Asbridge, Harry H., assignor.)

Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., Hoboken, N. J. Electric welding apparatus. 1,667,244; Apr. 24.

Cizek, Robert, Francis Creek, Wis. Signaling device for vehicles. 1,667,653; Apr. 24.

Clarinda Manufacturing Company. (See Criner, Harry J., assignor.)

Clark, Ephraim J., Seattle, Wash. Feathering paddle wheel. 1,667,140; Apr. 24.

Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Lubricator. 1,666,959; Apr. 24.

Clarke, Eugene C., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Trimming press. 1,667,654; Apr. 24.

Claytor, Spry O., Newark, Ohio. Hairpin. 1,667,310; Apr. 24.

Cleary, Herbert J., Topeka, Kans. Sulky plow. 1,667,192; Apr. 24.

Cleveland Twist Drill Company, The. (See Githens, Thomas F., assignor.)

Clisson, Albert B., Geddes, assignor, by mesne assignments, to The Prosperity Company, Incorporated, Syracuse, N. Y. Worm-oiling means. 1,667,285; Apr. 24.

Clisson, Albert B., assignor to The Prosperity Company Inc., Syracuse, N. Y. Neckband clamp for shirt-pressing machines. 1,667,286; Apr. 24.

Clothier, Henry W., Wallsend-on-Tyne, and W. A. A. Burgess, Monkseaton, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Controlling or tripping apparatus for alternating-current electric circuits. 1,667,655; Apr. 24.

Coburn, James M., and B. Knapp, assignors to Plane Speaker Corporation, Kansas City, Mo. Sound-projecting horn on wing structure of aircraft. 1,667,287; Apr. 24.

Coe, James R., Watertown, assignor to The American Brass Company, Waterbury, Conn. Electric conductor. 1,667,510; Apr. 24.

Coffelder, Thomas N., Pittsburgh, Pa. Automatic railway-crossing gate. 1,667,537; Apr. 24.
Cohen, Sidney, Neponsit, N. Y. Electrical connecter. 1,666,991; Apr. 24.
Coleman, Edward, Oakland, Calif. Telephone attachment. 1,667,193; Apr. 24.
Collier, Henry D., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Apparatus for forcing lubricant from motor-vehicle lubricant-containing cases. 1,666,992; Apr. 24.
Collins, William L. (See Egan, John J., assignor.)
Commonwealth Steel Company. (See Frede, Charles F., assignor.)
Cooper Hewitt Electric Company. (See Malley, Roy D., assignor.)
Coover, Harry S. (See Walsh, T., Coover, and Abronski.)
Corke, Richard D., Yonkers, N. Y. Sharpening block for racing skates. 1,666,993; Apr. 24.
Cornell, Samuel V., et al. (See Cross, George H., assignor.)
Corson, Almon J., and S. C. Hoare, Lynn, Mass., assignors to General Electric Company, Electrical measuring instrument. 1,667,624; Apr. 24.
Coste, Jean F. P., Billancourt, France. Elastic element for resilient wheels. 1,667,373; Apr. 24.
Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,666,888; Apr. 24.
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Cottrell, Holland D., Detroit, Mich. Loose-leaf binder. 1,667,511; Apr. 24.
Cotswold Comfortable Company. (See Trout, Harry W., assignor.)
Couture, Allan B., assignor to Chrysler Corporation, Detroit, Mich. Automobile wheel. 1,667,344; Apr. 24.
Cox, Oscar, and O. C. Willis, Cotton Valley, La. Wrist pin. 1,667,588; Apr. 24.
Cozette, René J. P. E., Neuilly-sur-Seine, France. Rotary pump and compressor. 1,667,456; Apr. 24.
Craig, Thomas J., and A. L. Scofield, Merced, Calif. Screen for separating almonds and hulls. 1,667,194; Apr. 24.
Crampton, Basil R., assignor to Winters, Stryker & Crampton, Grand Rapids, Mich. Hinge. 1,667,102; Apr. 24.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole end or similar article. Des. 74,962; Apr. 24.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole end or similar article. Des. 74,963; Apr. 24.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole end or similar article. Des. 74,964; Apr. 24.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole bracket or similar article. Des. 74,965; Apr. 24.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain tassel or similar article. Des. 74,966; Apr. 24.
Crawford, James O., Oakland, Calif., assignor to The John Kroder and Henry Reubel Company, New York, N. Y. Curtain-pole end or similar article. Des. 74,967; Apr. 24.
Creamery Package Mfg. Company, The. (See Heitz, Leonard F., assignor.)
Criner, Harry J., assignor to Clarinda Manufacturing Company, Clarinda, Iowa. Agitator for washing machines. 1,667,195; Apr. 24.
Crompton & Knowles Loom Works. (See Brooks, John C., assignor.)
Cross, George H., Merced, Calif., assignor of one-fifth to S. V. Cornell and two-fifths to C. C. Hale. Marking system. 1,666,994; Apr. 24.
Crouse, Emory, Wichita, Kans. Dispensing reservoir. 1,667,245; Apr. 24.
Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Valve. 1,667,141; Apr. 24.
Cruikshank, George O., Lelpsic, Ohio. Device for curing tobacco and the like. 1,667,512; Apr. 24.
Crump, John W. (See Potter, H. V., and Crump.)
Cummins, Thomas K., assignor to Northern Malleable Iron Company, St. Paul, Minn. Wire clamp. 1,667,345; Apr. 24.
Cunniff, Edward A., Waltham, assignor to Draper Corporation, Hopedale, Mass. Selvage-relieving mechanism for looms. 1,666,960; Apr. 24.
Curtis & Marble Machine Company. (See Marble, Edwin H., assignor.)
Daley, Daniel M., assignor of one-half to J. H. Sheo, Lackawanna, N. Y. Automatic train-stopping apparatus. 1,667,457; Apr. 24.
Dalheimer, Walther. (See Shepherd, R., and Dalheimer.)
Damard Lacquer Company Limited, The. (See Potter, H. V., and Crump, assignors.)
Danielson, Edna, Berkeley, Calif. Powder puff. Des. 74,968; Apr. 24.
Darby, John, Philadelphia, Pa., and C. W. Old, Montclair, assignors, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J. Elevator. 1,667,068; Apr. 24.
Darby, John, Summit, assignor, by mesne assignments, to Shur Loc Elevator Safety Corporation, Newark, N. J. Elevator. 1,667,069; Apr. 24.
Darling, Jay, Williamsport, Ind. Machine for cutting openings for fasteners in metal sheets to be used as forms for making concrete fenceposts. 1,667,196; Apr. 24.
Darney, Harry W. (See Meyers, F. B., and Darney.)
Darrah, William A., Chicago, Ill. Thermocouple. 1,667,142; Apr. 24.
Davidson, Margaret, Philadelphia, Pa. Lady's hat. 1,667,415; Apr. 24.
Davis, Bemiss N., New Orleans, La. Machine for loading and unloading ships. 1,666,995; Apr. 24.
Davis, Robert R., assignor, by mesne assignments, of one-half to G. C. Albers and one-half to J. D. Young, St. Louis Mo. Reaming tool. 1,666,926; Apr. 24.
Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Index or file leaf. 1,667,538; Apr. 24.
Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Index or file. 1,667,539; Apr. 24.
De Cesare, Matteo, Newark, N. J., assignor, by mesne assignments, to Voices Incorporated. Sound-reproducing device. 1,667,103; Apr. 24.
De Cesare, Matteo, Newark, N. J., assignor, by mesne assignments, to Voices Incorporated. Sound-producing device. 1,667,104; Apr. 24.
Deere & Company. (See Paul, William L., assignor.)
De Jong, Hendrik. (See Reufel, H. M. H., de Jong, and Wentink.)
Delaney, Joseph R., Cincinnati, Ohio. Meter-window frame. 1,666,927; Apr. 24.
Delco-Remy Corporation. (See Jones, R. G., and Zwiebel, assignors.)
De Luiz, Edward R., and H. L. Mitchell, assignors to Wayne Company, Fort Wayne, Ind. Discharge valve for ice-machine compressors. 1,667,143; Apr. 24.
Delvin, Hart E., Evanston, Ill. Combined tent and swing frame. 1,666,961; Apr. 24.
Dennies, Douglas B., and C. Wilson, Taft, Calif. Fluid elevator. 1,666,962; Apr. 24.
Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Cultivator. 1,667,374; Apr. 24.
Dennis, William J., Chicago, Ill. Weather strip. 1,667,144; Apr. 24.
Dent Hardware Co. (See Schrader, Thomas O., assignor.)
Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)
De Sherbinin, Eric M. (See Kehoe, J. J., jr., Morson, and De Sherbinin.)
Desloge, Joseph, assignor to Killark Electric Manufacturing Company, St. Louis, Mo. Transformer. 1,666,889; Apr. 24.
Deutsche Werke Kiel Aktiengesellschaft. (See Kade, Friedrich, assignor.)
Diamond Power Specialty Corporation. (See Mattsson, Alfred G., assignor.)
Diamond Ray Light Company, The. (See Wolfe, Arthur W., assignor.)
Dickinson, Harry E., Houston, Tex. Gas floor furnace. 1,667,625; Apr. 24.
Diederichs, Hugo N., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,667,145; Apr. 24.
Dieterle, Walter, and O. Matthies, Dessau, and J. Reitstötter, Berlin-Friedenau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacturing photographic silver halid emulsions. 1,667,580; Apr. 24.
Dilzell, Walter A., New Orleans, La. Antitheft attachment for meters. 1,667,656; Apr. 24.
Dinwiddie, Joseph G., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat dyestuff and making same. Re16,989; Apr. 24.
Dobert, Frank C., Rutherford, assignor to A. Kretzmer, Clifton, N. J. Wall table, shelf, or rack. 1,667,657; Apr. 24.
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Making brake shoes. 1,667,375; Apr. 24.
Donaldson, John S., New York, N. Y. Dressing tool. 1,666,890; Apr. 24.
Donnelly, Edward F., Malden, Mass. Relief valve. 1,667,590; Apr. 24.
Donner, Carl H., Summit, N. J. Machine for cleaning hair and other filamentary material. 1,666,891; Apr. 24.
Dorsey, Herbert G., Gloucester, assignor to Submarine Signal Corporation, Boston, Mass. Method and apparatus for measuring distance. 1,667,540; Apr. 24.
Douglas, Hazen, Dundalk, Md. Educational card game. 1,666,996; Apr. 24.
Downs, Charles R., Cliffside, and L. Weisberg, Grantwood, N. J., assignors to The Barrett Company. Water-resistant polyhydric alcohol-carboxylic acid resin and making same. 1,667,197; Apr. 24.

Downs, Charles R., Cliffside, and L. Weisberg, Grantwood, N. J., assignors to The Barrett Company. Water-resistant carboxylic acid-polyhydric alcohol resins. 1,667,198; Apr. 24.
Downs, Charles R., Cliffside, and L. Weisberg, Grantwood, N. J., assignors to The Barrett Company. Water-resistant carboxylic acid-polyhydric alcohol resin. 1,667,199; Apr. 24.
Downs, Charles R., Cliffside, and L. Weisberg, Grantwood, N. J., assignors to The Barrett Company. Water-resistant carboxylic acid-polyhydric alcohol resin. 1,667,200; Apr. 24.
Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet of glass and producing the same. 1,667,146; Apr. 24.
Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Closure for sheet-metal containers. 1,667,607; Apr. 24.
Draper Corporation. (See Cunniff, Edward A., assignor.)
Draper Corporation. (See Willard, George H., assignor.)
Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
Dreyer, Hans, Munich-Harlaching, Germany. Railway-track inspection apparatus. 1,667,246; Apr. 24.
Driscoll, William H., Jersey City, N. J. Temperature-regulating means for liquid-cooled engines. 1,667,458; Apr. 24.
Du Bois-Reymond, Alard. (See Hahnemann, W., and du Bois-Reymond.)
Dunbar, Noel S., New York, N. Y., assignor, by mesne assignments, to Splitdorf Radio Corporation, Newark, N. J. Radiocabinet. Des. 74,969; Apr. 24.
Dunbar, Noel S., New York, N. Y., assignor, by mesne assignments, to Splitdorf Radio Corporation, Newark, N. J. Radiocabinet. Des. 74,970; Apr. 24.
Dunbar, Noel S., New York, N. Y., assignor, by mesne assignments, to Splitdorf Radio Corporation, Newark, N. J. Radiocabinet. Des. 74,971; Apr. 24.
Dunford & Elliott (Sheffield) Limited. (See Pehrson, Adam H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Burke, C. E., and Hopkins, assignors.)
Du Pont, E. I., de Nemours & Company. (See Dinwiddie, Joseph G., assignor.)
Dura Company, The. (See Carroll, W. W., and Nicholson, assignors.)
Durand & Huguenin S. A. (See Voltz, Théodore, assignor.)
Duratex Corporation. (See Allen, Ralph S., assignor.)
Eaton, George, assignor to M. C. Eaton, Cleveland, Ohio. Electric toaster. Des. 74,972; Apr. 24.
Eaton, May C. (See Eaton, George, assignor.)
Economy Products Corporation. (See Voight, George F., assignor.)
Edeburn, Alfred N. (See Edeburn, Tod S., assignor.)
Edeburn, Tod S., assignor to A. N. Edeburn, Cleveland, Ohio. Coupling member or link. 1,667,541; Apr. 24.
Eden, Edward H., St. Louis, Mo. Snow shovel. 1,667,591; Apr. 24.
Edison Electric Appliance Company. (See Halle, Simon, assignor.)
Edwards, O. M., Company Inc., The. (See Chaffee, Edward F., assignor.)
Egan, John J., assignor to W. L. Collins, Boston, Mass. Electric switch. 1,667,247; Apr. 24.
Eggleston, Lewis W., Clarence Township, Erie County, assignor to American Radiator Company, New York, N. Y. Valve. 1,667,698; Apr. 24.
Egley, Harry G., Morris Plains, N. J. Glare shield. 1,667,658; Apr. 24.
Eisele & Company. (See Stewart, William E., assignor.)
Eisele, Logan, Nashville, Tenn. Clinical thermometer and sterilizing case. 1,667,248; Apr. 24.
Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B. and F. E., assignors.)
Electrical Research Laboratories. (See Wiggins, Edward J., assignor.)
Elliott, W. H. (See Howell, Harry H., assignor.)
Ellis, Henry A., assignor to The British Drug Houses, Limited, London, England. Apparatus for comparing the color of liquids by reflected and transmitted light. 1,667,249; Apr. 24.
Enamel Products Company, The. (See Allen, Floyd P., assignor.)
Ender, Lewis W., Fountain City, Wis. Envelope opener. 1,667,659; Apr. 24.
English Electric Company Limited, The. (See Calverley, J. E., and Highfield, assignors.)
Ensdorf, Walter, New York, N. Y., and J. Sandberg, Elizabeth, N. J. Electric soldering iron. 1,667,250; Apr. 24.
Epstein, Max, New York, N. Y. Spine support. 1,667,626; Apr. 24.
Ernst, Wilhelm E., Berlin-Schoeneberg, Germany. Apparatus for regulating mixture formation in carburetor systems. 1,666,892; Apr. 24.
Ertz, George L. (See Stokes, Charles L., assignor.)
Eskilson, Sven A., and K. A. B. Holm, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Pilot burner. 1,666,997; Apr. 24.
Eustice, Charles. (See Sands, O., and Eustice.)
Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Voice mechanism. 1,667,105; Apr. 24.
Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Talking toy mechanism. 1,667,106; Apr. 24.
Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Talking toy mechanism. 1,667,107; Apr. 24.
Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Talking toy mechanism. 1,667,108; Apr. 24.
Evans, Martin E., Kankakee, Ill. Attenuation of materials. 1,666,928; Apr. 24.
Evens, Henry, Duluth, Minn. Combination holder and cigarette-extinguishing ash tray. 1,667,592; Apr. 24.
Evleth, Earl M., Grand Haven, Mich., assignor to The Bastian Blessing Company, Chicago, Ill. Acetylene generator. 1,667,346; Apr. 24.
Faber, firm: A. W. (See Wömpner, Fritz, assignor.)
Faber, Merle E., Waupun, Wis., assignor, by mesne assignments, to The Shaler Company, Wilmington, Del. Repair vulcanizing apparatus. 1,666,998; Apr. 24.
Fain, John A. (See Ogletree, William D., assignor.)
Fairchild, Charles B., assignor of one-half to L. A. M. Fairchild, Chicago, Ill. Automobile headlight. 1,667,288; Apr. 24.
Fairchild, Louise A. M. (See Fairchild, Charles B., assignor.)
Farber, Simon W., Brooklyn, N. Y. Holder for glasses. Des. 74,973; Apr. 24.
Farrell, Sydney T., Newton, Mass. Game. 1,667,147; Apr. 24.
Farrell, Sydney T., Newton, Mass. Football game. 1,667,148; Apr. 24.
Fauser, Oscar W., Bellerose, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 74,974; Apr. 24.
Fay, Richard D., Cambridge, and R. E. Brewer, Boston, Mass. Sound-radiating device. 1,667,251; Apr. 24.
Fehrenkamp, Emil W., assignor to Burd & Fletcher Company, Kansas City, Mo. Display container. 1,667,376; Apr. 24.
Feldman, J. M., Co. Inc., The. (See Holdeman, Harry R., assignor.)
Feldt, Adolf. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)
Field, Lee C., Cincinnati, Ohio. Chain saw. 1,667,347; Apr. 24.
Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Weatherproof and decayproof material. 1,667,201; Apr. 24.
Firm Signal Gesellschaft m. b. H. (See Hahnemann, W., and du Bois-Raymond, assignors.)
Firm Society of Chemical Industry in Basle, The. (See Mayer, B., and Grimmer, assignors.)
Firm Society of Chemical Industry in Basle, The. (See Straub, F., and Schneider, assignors.)
Fisher, Eugene S., and E. R. Mendrop, Hollandale, Miss. Guard finger for mowing machines. 1,667,627; Apr. 24.
Fisk Rubber Company, The. (See Mather, George L., assignor.)
Fisk Rubber Company, The. (See Mead, George J., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fitch, Clyde J., Brooklyn, assignor to Radio Corporation of America, New York, N. Y. Radio receiving apparatus. 1,667,513; Apr. 24.
Fitzgerald, John D., San Diego, Calif. Rod coupler. 1,667,311; Apr. 24.
Flanagan, James L., Sacramento, Calif. Identification blotter. 1,667,542; Apr. 24.
Flaherty, James I. (See Benien, W., and Flaherty.)
Fleiter, Andrew J., and T. A. Miller, assignors to The Akron Standard Mold Company, Akron, Ohio. Mold-engraving mac ine. 1,667,687; Apr. 24.
Fletcher Works, Incorporated. (See Schaum, Carl, assignor.)
Flor, Konrad. (See Lichtenberger, T., and Flor.)
Ford, Henry, Dearborn, Mich. Manufacturing pistons. 1,667,202; Apr. 24.
Ford Motor Company. (See Kersten, Otto, assignor.)
Ford Motor Company. (See Smith, Charles J., assignor.)
Foley, John W., Chicago, Ill. Roller bearing. 1,667,348; Apr. 24.
Fónagy, Frank, Flagtown, N. J. Safety closet. 1,667,543; Apr. 24.
Föttinger, Herman, Zoppot, near Danzig, Germany. Direct-reading torsion meter. 1,667,628; Apr. 24.
Frame, August J. (See Gilmore, J. G., and Frame.)
Franklin, Chester and C., Willard, Ohio. Milk-bottle support. 1,667,032; Apr. 24.
Franklin, Christine. (See Franklin, Chester and C.)
Frede, Charles F., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Car underframe. 1,666,929; Apr. 24.
Friederich, Ernst, Berlin-Charlottenburg, Germany, assignor to Radio Corporation of America. Glow cathode and electron tube containing same. 1,667,471; Apr. 24.
Friedman, Henry, Brooklyn, N. Y. Slipper. 1,667,629; Apr. 24.
Friedrich, Gebhardt A., Columbus, Ohio. Automobile signal. 1,667,470; Apr. 24.
Fritzsche, Hermann, E. Krummenacher, H. Gubler, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azodyestuffs and making same. 1,667,812; Apr. 24.

Frost Steel Products, Inc. (See Rose, Benjamin K., assignor.)
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Frye, Richard T., Newburgh, N. Y. Water-closet support. 1,667,593; Apr. 24.
Frye, Whitney M., Wilton, N. H. Waterproof cattle card. 1,667,544; Apr. 24.
Fulton Syphon Company, The. (See Bezzenberger, Fred K., assignor.)
Fulton Syphon Company, The. (See Kinnard, James A., assignor.)
Fynn, Valère A., St. Louis, Mo. Synchronous motor. 1,667,514; Apr. 24.
Gair, Robert, Company. (See Tinsley, Edward O., assignor.)
Galassi, Pasquale, New York, N. Y. Floor-laying device. 1,667,313; Apr. 24.
Garbutt, Frank E., and L. M. Griffith, Los Angeles, Calif., assignors to Paramount Famous Lasky Corporation, New York, N. Y. Film-developing machine. 1,666,909; Apr. 24.
Garland, Clarence H., assignor to American Tool and Machine Company, Boston, Mass. Safety guard for centrifugal machines. 1,667,416; Apr. 24.
Garlent, Perce E., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Lead-testing machine. 1,667,109; Apr. 24.
Garrard, Charles G., assignor to G. S. Walpole, London, England. Mechanism for producing camlike or similar irregular motions. 1,666,893; Apr. 24.
Gartin, Elmer G., Claremont, N. H. Motor. 1,667,699; Apr. 24.
Gathmann, Emil, Baltimore, Md. Ingot mold. 1,667,289; Apr. 24.
Gayer, Ernest C., London, England. Variable-power transmission mechanism. 1,667,290; Apr. 24.
Gehm, Eugene H., Stockton, Calif. Liquid contact connecter. 1,667,660; Apr. 24.
Gehrke, Max. (See Schoeller, W., Feldt, Gehrke, and Borgwardt.)
Geist, William J. (See Van Ee, W., and Geist.)
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Burnham, Locke H., assignor.)
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Chapman, Verni J., assignor.)
General Electric Company. (See Corson, A. J., and Hoare, assignors.)
General Electric Company. (See Holbrook, Henry S., assignor.)
General Electric Company. (See Macmillan, Campbell, assignor.)
General Electric Company. (See Maurer, Louis A., assignor.)
General Electric Company. (See Nixdorff, Samuel P., assignor.)
General Electric Company. (See Pollok, Othmar, assignor.)
General Electric Company. (See Reufel, H. M. H., de Jong, and Wentink, assignors.)
General Electric Company. (See Rex, Harold B., assignor.)
General Electric Company. (See Riecke, Ernst, assignor.)
General Electric Company. (See Shepherd, R., and Dalheimer, assignors.)
General Electric Company. (See Valentine, Irving R., assignor.)
General Electric Company. (See Zelt, Elmer J., assignor.)
General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)
General Motors Research Corporation. (See Wallace, Hugh, assignor.)
General Norit Company, Limited. (See Lourens, Cornelis, assignor.)
General Railway Signal Company. (See Carter, Paul E., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Railway Signal Company. (See Prescott, Charles W., assignor.)
Gerlach, Erwin, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Acoustic device. 1,667,149; Apr. 24.
Germer, Edward G., E. G. Walbridge, and J. M. Wysocki, Erie, Pa.; said Walbridge and Wysocki assignors to said Germer. Molding machine. 1,666,963; Apr. 24.
Germond, Henry S., jr. (See Green, Harold, assignor.)
Gibbons, Forrest H., Russell, N. Y. Valve-stem attachment. 1,667,594; Apr. 24.
Gilmore, Jackson G., and A. J. Frame, Columbus, Ohio. Flow regulator for oil burners. 1,667,814; Apr. 24.
Githens, Thomas F., Cleveland Heights, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Tool and making same. 1,667,417; Apr. 24.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Gminder, Emil, Reutlingen, Germany. Spinning. 1,666,894; Apr. 24.
Goddard, John W. (See Gouldbourn, J., and Goddard.)
Goddard, Wilfred B., Burlingame, Calif. Illuminating mirror. 1,667,545; Apr. 24.
Godsey, Robert D., and M. P. Litton, Bristol, Va., assignors of three-fourths to said Godsey and one-fourth to said Litton. Milk distributor and bottle collector. 1,667,000; Apr. 24.
Goetzelman, William, Chicago, Ill., assignor to Appleton Electric Company. Clamp for connection boxes. 1,667,688; Apr. 24.
Goldberg, Emanuel, and M. Nowicki, assignors to the firm: Zeiss-Ikon Aktiengesellschaft, Dresden, Germany. Film box. 1,667,110; Apr. 24.
Goldschmidt, Rudolf, Charlottenburg, Germany. Mechanical hammer. 1,667,546; Apr. 24.
Gollomb, Herman, Brooklyn, N. Y. Photographic-film hanger. 1,666,895; Apr. 24.
Gooch, T. D., et al. (See Sherrod, Robert L., assignor.)
Goodrich, B. F., Company, The. (See Bodle, Virgil H., assignor.)
Goodrich, B. F., Company, The. (See Matthias, Gilbert L., assignor.)
Gouldbourn, Joseph, and J. W. Goddard, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. 1,666,964; Apr. 24.
Government and the People of the United States of America, The. (See Reed, Jesse O., assignor.)
Grammes, L. F., & Sons, Inc. (See Price, C. S., and Weindel, assignors.)
Grant, John. (See Campbell, Stewart L., assignor.)
Grasley, Jacob F., Zanesville, Ohio. Socket wrench. 1,667,661; Apr. 24.
Grasselli Dyestuff Corporation. (See Thauss, A., Mauthe, and Günther, assignors.)
Gray & Murdock Mfg. Co. (See Gray, O. H., and Murdock, assignors.)
Gray, Owen H., and C. E. Murdock, assignors to Gray & Murdock Mfg. Co., Salt Lake City, Utah. Furnace. 1,6667,001; Apr. 24.
Green, Fred P., assignor to The Lustre Co., St. Louis, Mo. Plating apparatus. 1,667,515; Apr. 24.
Green, Harold, Yonkers, N. Y., assignor to H. S. Germond, jr., Bayonne, N. J. Portable elevator. 1,667,547; Apr. 24.
Griffith, Leigh M. (See Garbutt, F. E., and Griffith.)
Griffith, Minnie Almira, Wash. Dressmaker's gauge and creaser. 1,667,150; Apr. 24.
Grimmer, Josef. (See Mayer, B., and Grimmer.)
Groen, Christopher, Algonquin, Ill. Driving mechanism for ironing machines. 1,667,151; Apr. 24.
Gruber, Morris M., East Orange, N. J., assignor, by mesne assignments, to Sonora Phonograph Company, Inc. Locking device. 1,667,377; Apr. 24.
Grupe, William F., Lyndhurst, N. J., assignor to Peerless Roll Leaf Co., Inc., New York, N. Y. Transfer media. 1,667,689; Apr. 24.
Gubler, Hans. (See Fritzsche, H., Krummenacher, Gubler, and Kaiser.)
Guenther, Charles J., Boston, Mass., assignor to Stickle Steam Specialties Company, Indianapolis, Ind. Recording device for paper machines. 1,667,516; Apr. 24.
Gueritey, Charles, assignor to Passaic Metal Ware Co., Passaic, N. J. Conveying mechanism. 1,667,349; Apr. 24.
Gulbenkian Seamless Rug Company. (See Smith, William E., assignor.)
Günther, Alfred. (See Thauss A., Mauthe, and Günther.)
Habenicht, Frederick K., assignor to Railway Devices Company, St. Louis, Mo. Angle-cock holder. 1,666,896; Apr. 24.
Hahnemann, Walter, Kitzeberg, near Kiel, and A. du Bois-Reymond, Plon, near Kiel, assignors to the firm Signal Gesellschaft m. b. H., Kiel, Germany. Subaqueous sound-signaling apparatus. 1,667,418; Apr. 24.
Halcolite Company. (See Lipsky, Norman, assignor.)
Hale, Charles C., et al. (See Cross, George H., assignor.)
Hall Airways Corporation. (See Hall, Charles S., assignor.)
Hall, Charles S., Los Angeles, Calif., assignor to Hall Airways Corporation, Dover, Del. Aircraft. 1,667,002; Apr. 24.
Halle, Simon, Colorado Springs, Colo., assignor to Edison Electric Appliance Company, Inc. Temperature-control means. 1,667,595; Apr. 24.
Hamilton Beach Mfg. Co. (See Robinson, Patrick H., assignor.)
Hamm, Rollie, assignor to Indiana Gravel Company, Indianapolis, Ind. Sand gate. 1,667,690; Apr. 24.
Hammond, John H., jr., Gloucester, Mass. Ship-guidance system. 1,666,897; Apr. 24.
Hanch, Charles C., Indianapolis, Ind. Piston. 1,667,548; Apr. 24.
Handlan, Alexander H. (See Rolfes, George H., assignor.)
Handlan, Alexander H., St. Louis, Mo. Hand lantern. 1,667,378; Apr. 24.
Handlan, Alexander H., St. Louis, Mo. Lantern. 1,667,379; Apr. 24.
Handlan, Alexander H., St. Louis, Mo. Light-source support. 1,667,380; Apr. 24.
Hanken, Louis, Seattle, Wash. Pot seine. 1,667,700; Apr. 24.

Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Can-filling machine. 1,666,930; Apr. 24.
Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Can-filling machine. 1,666,931; Apr. 24.
Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Apparatus for facilitating the treatment of corn. 1,666,932; Apr. 24.
Hansen, Oswald H., Milwaukee, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Corn sliker. 1,666,933; Apr. 24.
Hanson, Carl H., Hudson Heights, N. J. Drill bit. 1,666,898; Apr. 24.
Harder Refrigerator Corporation. (See Kilbourne, Charles E., assignor.)
Hardesty, R., Manufacturing Company, The. (See Barnard, Russell E., assignor.)
Hardiman, James S., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Screw-cap closure. 1,667,003; Apr. 24.
Harrell, Arthur C., Pensacola, Fla. Automatic train-pipe coupling. 1,667,033; Apr. 24.
Harris, Ernest C., Denver, Colo. Valve. 1,667,208; Apr. 24.
Harris, Gordon D., Freeport, N. Y., assignor to The Industrial Dryer Corporation, Stamford, Conn. Conditioning shoes and analogous products. 1,667,315; Apr. 24.
Hartman, Frank E. (See Hartman, Harry B. and F. E.)
Hartman, Harry B. and F. E., assignors to Electric Water Sterilizer and Ozone Company, Scottdale, Pa. Dehydrator. 1,667,316; Apr. 24.
Hatton, Hugh B., jr., Glendale, Calif. Sealing valve for gas lines. 1,667,034; Apr. 24.
Hausleiter, Fritz H., Munich, Germany. Metal-framed half-tone screen and forming the metal frame thereon. 1,667,517; Apr. 24.
Hawley, Charles G., Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,667,111; Apr. 24.
Hawley, Charles G., Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,667,112; Apr. 24.
Hawley, John B., jr., Minneapolis, Minn. Tie rod. 1,667,252; Apr. 24.
Hawley, John B., jr., Minneapolis, Minn. Tie rod for concrete forms. 1,667,253; Apr. 24.
Hayes, Fred B., assignor to Western Gas Construction Company, Fort Wayne, Ind. Making carbureted water gas. 1,667,518; Apr. 24.
Haywood, Albert E., Coventry, England. Instrument for drawing, marking out, and measuring or like purposes. 1,666,934; Apr. 24.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor to Chemical Construction Company, New York, N. Y. Phosphoric-acid manufacture. 1,667,540; Apr. 24.
Hechler, Frederick W., Darby, Pa. Handle for coffeepots or the like. 1,667,519; Apr. 24.
Hedrich, Herman, Brooklyn, N. Y. Padlock. 1,667,254; Apr. 24.
Hegge, Martin, Los Angeles, Calif. Wave motor. 1,667,152; Apr. 24.
Heidbrink, Jay A., Minneapolis, Minn. Anæsthetising apparatus. 1,667,113; Apr. 24.
Heise, George W., Bayside, and H. H. Thompson, Flushing, N. Y., assignors to National Carbon Company, Inc. Dry cell. 1,667,317; Apr. 24.
Heitz, Leonard F., Lake Mills, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Gudgeon structure for churns and butterworkers. 1,667,004; Apr. 24.
Helmer, Louis, New York, N. Y. Refrigerating apparatus. 1,667,350; Apr. 24.
Henkel, Louis C. (See Steurer, John H., assignor.)
Henricson, Edwin A., assignor to Motor Products Corporation, Detroit, Mich. Windshield pivot. 1,666,899; Apr. 24.
Henry, James N., Providence, R. I. Curtain support. 1,667,520; Apr. 24.
Hercules Powder Company. (See Smith, R. B., and Symmes, assignors.)
Herman, Joseph, New York, N. Y., assignor to American Telephone and Telegraph Company. Differential duplex telegraph repeater. 1,666,965; Apr. 24.
Hermanson, Oscar, New York, N. Y. Ocean stage. 1,667,255; Apr. 24.
Herrschaft, William, New York, N. Y. Toy construction set. 1,667,256; Apr. 24.
Hetlesater, Elisabeth, executrix. (See Hetlesater, Olaf.)
Hetlesater, Olaf, deceased, Seattle, Wash.; E. Hetlesater, executrix. Excavating machine. 1,667,381; Apr. 24.
Heymann, Bruno, San Francisco, Calif. Machine for producing irregular surfaces. 1,667,153; Apr. 24.
Heywood, Charles F., Detroit, Mich. Safety valve. 1,667,154; Apr. 24.
Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Hicks, William W., San Francisco, and A. J. Kercher, Berkeley, Calif. Electric heater. 1,667,257; Apr. 24.
Higdon, Zalmon B., Ponca City, Okla. Drilling bit. 1,667,155; Apr. 24.
Highfield, William E. (See Calverley, J. E., and Highfield.)
Hill, Joseph B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Conversion of lead sludge. 1,667,550; Apr. 24.
Hill, Roscoe G., assignor of one-half to F. X. Knobel, River Falls, Wis. Piston and piston-ring construction. 1,666,966; Apr. 24.
Hinds, Robert L. (See Lewellyn, John A., assignor.)
Hinshaw, John B., Topeka, Kans. Antifriction agitator. 1,667,551; Apr. 24.
Hoare, Stephen C. (See Corson, A. J., and Hoare.)
Hodgson, Walter W., assignor to Walter W. Hodgson, Inc., Philadelphia, Pa. Selecting machine for dictating the punching of holes in jacquard cards. 1,666,900; Apr. 24.
Hodgson, Walter W., Inc. (See Hodgson, Walter W., assignor.)
Hoerr, Louis A., St. Louis, Mo., assignor to Railway Devices Company. Angle-cock and pipe holder. 1,667,005; Apr. 24.
Hofeller, Robert. (See Pieper, Albert G. L., assignor.)
Hoffmann-La Roche Chemical Works, The. (See Blankart, André, assignor.)
Hofstetter, Robert, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Lapping machine. 1,667,006; Apr. 24.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Back-spacing mechanism for typewriters. 1,667,007; Apr. 24.
Holbrook, Henry S., Rugby, England, assignor to General Electric Company. Protective arrangement. 1,667,662; Apr. 24.
Holcomb, William C., Carrizozo, N. Mex. Ballast tow-line marker and shoulder cleaner. 1,667,459; Apr. 24.
Holdeman, Harry R., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Italian-effect grille for lighting fixtures or similar articles. Des. 74,975; Apr. 24.
Holdeman, Harry R., assignor to The J. M. Feldman Co. Inc., Los Angeles, Calif. Wall plate for lighting fixtures. Des. 74,976; Apr. 24.
Hollar, William H., jr., Drexel Hill, Pa. Envelope. 1,667,258; Apr. 24.
Holm, Karl A. B. (See Eskilson, S. A., and Holm.)
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling tool. 1,667,156; Apr. 24.
Hooker, Duncan C., Farmington, Conn. Refrigerating cabinet. 1,667,114; Apr. 24.
Hoos, Bernard J., Baltimore, Md. Ash tray. 1,667,663; Apr. 24.
Hopkins, Horace H. (See Burke, C. E., and Hopkins, assignors.)
Hough, Edward B., Providence, R. I. Cigarette case. 1,666,902; Apr. 24.
Hough, Herbert D., Cranston, assignor to Wightman and Hough Company, Providence, R. I. Vanity case. 1,666,901; Apr. 24.
Houghton, E. F., & Company. (See Peirson, C. H., and Bohne, assignors.)
Houston, Everett T., et al. (See Bonge, Charles E., assignor.)
Howcott, Harley A. W., New Orleans, La. Igniter for internal-combustion engines. 1,666,967; Apr. 24.
Howe, Winthrop K., assignor, by mesne assignments, to General Railway Signal Company, Rochester, N. Y. Power-operated wringer. 1,667,472; Apr. 24.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Railway-switch-selector-operating means. 1,667,473; Apr. 24.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Railway-switch-selector-operating means. 1,667,474; Apr. 24.
Howell, Harry H., Kansas City, Mo., assignor of one-half to W. H. Elliott, Tulsa, Okla. Combination pressure-vacuum valve and thief hatch. 1,666,935; Apr. 24.
Hubbs, Henry E., and L. D. Malone, assignors to The Shelby Spring Hinge Company, Shelby, Ohio. Double-acting hinge and check. 1,666,903; Apr. 24.
Hughes, Charles B., Cherrydale, Va. Truck-body mounting. 1,667,204; Apr. 24.
Hughes, Thomas J., Pottsville, Pa. Sprocket chain. 1,667,259; Apr. 24.
Hull, Lewis M., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Electrical amplifier circuit. 1,667,710; Apr. 24.
Hünermann, Peter A., assignor to the firm Jaroslaw's Erste Glimmerwarenfabrik in Berlin, Berlin-Weissensee, Germany. Insulating tube. 1,667,035; Apr. 24.
Huntoon, Harry A., La Grange, Ill., assignor to International Harvester Company. Load lifting and transporting device. 1,667,382; Apr. 24.
Hurley, Edward F. (See Kyle, E. M., and Hurley.)
Hussey, James W., Martinsville, Ind. Keg. 1,667,460; Apr. 24.
Hutto, Marsden C., Detroit, Mich. Cylinder grinder. 1,667,157; Apr. 24.
Hyde Engineering Company. (See Hyde, Henry W., assignor.)
Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,667,115; Apr. 24.

Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,667,116; Apr. 24.

I. G. Farbenindustrie Aktiengesellschaft. (See Dieterle, W., Matthies, and Reitstötter, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Laska, A. L., and Zitscher, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Michel, Richard, assignor.)

Ideal Removable Body Company. (See Baxter, William M., assignor.)

Igou, Dennis T., Springfield, Ohio. Valve-grinding tool. 1,667,552; Apr. 24.

Illinois Tool Works. (See Olson, Carl G., assignor.)

Indiana Gravel Company. (See Hamm, Rellie, assignor.)

Industrial Dryer Corporation, The. (See Harris, Gordon D., assignor.)

Ingwersen, Gustav F., Denver, Colo. Artificial jaws. 1,667,205; Apr. 24.

International Harvester Company. (See Anthony, John E., assignor.)

International Harvester Company. (See Benjamin, B. R., and Raney, assignors.)

International Harvester Company. (See Cady, Sherman W., assignor.)

International Harvester Company. (See Dennis, Samuel K., assignor.)

International Harvester Company. (See Huntoon, Harry A., assignor.)

International Harvester Company. (See Raney, C. R., and Johnson, assignors.)

International Harvester Company. (See Robinson, Charles W., assignor.)

International Harvester Company. (See Van Der Vliet, Menno, assignor.)

International Silver Co. (See Beck, Ernest T., assignor.)

Ireland, Ward S., assignor to National Refrigeration Corporation, Beloit, Wis. Belt-tightening idler mount. 1,667,117; Apr. 24.

Isler, Max, and L. von Mechel, assignors to the firm: Society of Chemical Industry in Basle, Basel, Switzerland. Azodyestuff derived from 1:8-naphthalene dicarboxylic acid and making the same. 1,667,328; Apr. 24.

Ives, Clifford E., Chicago, Ill. Electric switch. 1,667,158; Apr. 24.

Jackson, Ernest W., Sausalito, assignor to Perfecto Gear Differential Co., Oakland, Calif. Transmission clutch. 1,667,260; Apr. 24.

Jagenberg-Werke Akt.-Ges. (See Bäuml, Maximilian, assignor.)

Jahant, Augustus P., assignor to The Akron Standard Mold Company, Akron, Ohio. Mold-engraving machine. 1,667,036; Apr. 24.

James, Henry N., Miami, Fla. Scissors and shears. 1,666,968; Apr. 24.

James, Henry N., Miami, Fla. Cloth cutter. 1,666,969; Apr. 24.

James, Joseph H., Pittsburgh, Pa. Oxidizing mineral hydrocarbons. 1,667,419; Apr. 24.

Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 74,977; Apr. 24.

Jandus, Herbert S. and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 74,978; Apr. 24.

Jaroslaw's Erst Glimmerwarenfabrik in Berlin. (See Hünermann, Peter A., assignor.)

Jauss, Carlos L., Mexico, Mex. Electromagnet. 1,666,970; Apr. 24.

Jenkins, Charles F., Washington, D. C. Grid-coupled cell circuit. 1,667,383; Apr. 24.

Jenkins, Charles F., Washington, D. C. Grid-leak cell circuit. 1,667,384; Apr. 24.

Jenkins, George W., et al. (See Barnes, George, assignor.)

Johnson, Arnold E. W. (See Raney, C. R., and Johnson.)

Johnson-Williamson Laboratories, Incorporated. (See Williamson, Henry M., assignor.)

Johnston, George M., Clinton, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y. Fish flake. 1,667,553; Apr. 24.

Jones, David B., and F. C. Swartz, Cleveland, Ohio. Regenerative furnace. 1,667,319; Apr. 24.

Jones, Edwin E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,667,385; Apr. 24.

Jones, George A., assignor to Shoe Products, Inc., Lynn, Mass. Shoe. 1,667,159; Apr. 24.

Jones, Russell G., London, England, and C. Zwiebel, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-winding machine. 1,667,070; Apr. 24.

Jorgensen, Christian A. (See Martin, Thomas, assignor.)

Joy, Frank. (See Laterra, J., and Joy.)

Judd, Ralph P., Cleveland, Ohio. Lubricating compound. Re16,943; Apr. 24.

Kade, Friedrich, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Compensated induction motor for single or polyphase alternating current. 1,667,664; Apr. 24.

Kadel, Nicholas, Glendale, Calif. Underground antenna. 1,667,008; Apr. 24.

Kaiser, Otto. (See Fritzsche, H., Krummenacher, Gubler, and Kaiser.)

Kaisha, Saibi M. K. (See Kakuda, Saibei, assignor.)

Kakuda, Saibei, assignor to S. M. K. Kaisha, Fukuyama-Shi, Japan. Apparatus for arranging edges of net fabrics in net-making machines. 1,667,461; Apr. 24.

Kalyptol Products Inc. (See Arthur, Richard S., assignor.)

Kapota, Hyman, New York, N. Y. Fruit peeler. 1,667,596; Apr. 24.

Kasley, Alexander T., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine power installation. 1,667,475; Apr. 24.

Keck, George S., Pasadena, Calif. Ejecting holder. 1,667,118; Apr. 24.

Kehoe, James J., jr., W. C. T. Morson, and E. M. De Sherbinin, Toronto, Ontario, Canada, assignors, by mesne assignments, to Paragon Dishwasher Syndicate, Incorporated. Splashproof cabinet for dishwashing and similar purposes. 1,667,119; Apr. 24.

Kehoe, William E., San Francisco, Calif. Base for display stands. Des. 74,997; Apr. 24.

Kelser, Arthur J., assignor to The Bircher Co., Inc., Rochester, N. Y. Feeding or displacing belt. 1,667,120; Apr. 24.

Kelley, George L., assignor to Budd Wheel Company, Philadelphia, Pa. Increasing the elasticity of metal articles. 1,667,476; Apr. 24.

Kelley, William V. D., Brooklyn, N. Y., assignor, by mesne assignments, to Prizma, Incorporated. Producing color pictures. 1,667,477; Apr. 24.

Kellogg Switchboard & Supply Co. (See Stazak, Michael B., assignor.)

Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,667,071; Apr. 24.

Kenilworth Manufacturing Co. Inc. (See Kosofsky, Morris, assignor.)

Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company, Chicago, Ill. Testing machine. 1,667,420; Apr. 24.

Kercher, Arthur J. (See Hicks, W. W., and Kercher.)

Kern, Ludwig, Baltimore, Md. Manufacturing ceramic products. 1,666,936; Apr. 24.

Kersten, Otto, Highland Park, assignor to Ford Motor Company, Detroit, Mich. Signaling device. 1,667,206; Apr. 24.

Ketcham, Milton B., Ridgewood, N. J. Composite leather heel. 1,667,386; Apr. 24.

Ketterman, Charles W., assignor to Ohmer Fare Register Company, Dayton, Ohio. Registering mechanism. 1,667,121; Apr. 24.

Kilbourne, Charles E., Worcester, Mass., assignor to Harder Refrigerator Corporation. Refrigerator drain trap. 1,666,937; Apr. 24.

Kilgus, Carl A., C. A. Burton, and G. O. Bergmoser, Detroit, Mich. Fuel-oil burner. 1,667,122; Apr. 24.

Killark Electric Manufacturing Company. (See Desloge, Joseph, assignor.)

Kindermann, Erich, Berlin-Reinickendorf, assignor to A. Borsig G. m. b. H., Berlin-Tegel, Germany. Refrigerating system. 1,667,038; Apr. 24.

King, Vincent P., et al. (See Tipton, Edward F., assignor.)

Kinnard, James A., Detroit, Mich., assignor to The Fulton Syphon Company, Knoxville, Tenn. Cooling system for internal-combustion engines. 1,667,207; Apr. 24.

Kinnear, Delamar C., assignor, by mesne assignments, to The American Brass Company, Waterbury, Conn. Metal-drawing apparatus. 1,667,387; Apr. 24.

Kinsey, Edwin M., Riverside, N. J. Sample and sample container. 1,667,320; Apr. 24.

Kintzele, Julius H., St. Louis, Mo., assignor to Potato Waffles, Inc., New York, N. Y. Vegetable-slicing machine. 1,667,321; Apr. 24.

Kirzner, Samuel, Malden, Mass. Ash tray. Des. 74,979; Apr. 24.

Kleinfeldt, Edward H., New York, N. Y. Wall construction. 1,667,160; Apr. 24.

Klett Manufacturing Company. (See Klett, Robert E., assignor.)

Klett, Robert E., Teaneck, N. J., assignor to Klett Manufacturing Company, Inc., New York, N. Y. Colorimeter. 1,667,478; Apr. 24.

Klingensmith, Harvey W., Reynoldsville, Pa. Combined ironing board and table. 1,667,665; Apr. 24.

Kluppel, John L., assignor to Portable Rotary Rig Company, Houston, Tex. Proportional gas and air mixing device. 1,667,072; Apr. 24.

Knapp, Bernard. (See Adair, S. E., and Knapp.)

Knapp, Bernard. (See Coburn, J. M., and Knapp.)

Knight, Albert B., Fairmont, W. Va. Charge-forming device. 1,667,074; Apr. 24.

Knight, Edward R., Carson City, Nev., assignor, by mesne assignments, to Mitchell Specialty Company, Philadelphia, Pa. Automobile theft lock. Re16,945; Apr. 24.

Knight, William D. (See Cameron, Angus, assignor.)

Knobel, Frederic X. (See Hill, Roscoe, G., assignor.)

Koester, Herman, assignor to The Bristol Company, Waterbury, Conn. Chart drive roll for strip-recording apparatus. 1,667,479; Apr. 24.

Kokatnur, Vaman R., New York, N. Y. Alkali fusion. 1,667,480; Apr. 24.

Koller, Karl, Los Angeles, Calif. Toy. 1,667,123; Apr. 24.

Kolodziej, Edward J., Buffalo, N. Y. Shock absorber. 1,667,039; Apr. 24.

Konings, John P. (See Lauwagie, P. F., and Konings.)

Koon, Arthur W., Schriever, La. Process and apparatus for drying hay, grain, and the like. 1,667,666; Apr. 24.

Kosofsky, Morris, assignor to Kenilworth Manufacturing Co. Inc., New York, N. Y. Garment. 1,667,161; Apr. 24.

Kreismann, Paul, Chicago, Ill. Glue and making same. 1,667,073; Apr. 24.

Kretschmer, Henry A., La Grange Park, Ill. Combined desk set and picture frame. Des. 74,980; Apr. 24.

Kretzmer, Amelia. (See Dobert, Frank C., assignor.)

Kreutzer, Michael J., Dayton, Ohio. Bottle-washing apparatus. 1,667,597; Apr. 24.

Kroder, John, and Henry Reubel Company, The. (See Crawford, James O., assignor.)

Krug, Rica, Gardner, Ill. Electric clothesbrush. 1,667,554; Apr. 24.

Krummenacher, Eduard. (See Fritzsche, H., Krummenacher, Gubler, and Kaiser.)

Kselimann, Fred, Akron, Ohio. Bowling-alley mat. 1,666,938; Apr. 24.

Kuhns, John P., assignor to National Tag Manufacturing Corporation, Dayton, Ohio. Size marker for hats. 1,667,162; Apr. 24.

Künzer, Marcel, La Chaux-de-Fonds, assignor to Societe Anonyme pour l'Exploitation des Brevets Künzer, Basel, Switzerland. Apparatus for safely sending mail bags, luggage, and similar objects from aerial crafts to the ground. 1,667,421; Apr. 24.

Kyle, Edward M., and E. F. Hurley, Lakeport, N. H. Electric circuit closer. 1,667,037; Apr. 24.

Laher, Frank J., Portland, Oreg. Pivoted luggage carrier. 1,667,208; Apr. 24.

Lamar, Ralph F., Garden City, Kans. Merry-go-round. 1,667,163; Apr. 24.

Landon, Archer A., Buffalo, N. Y. Heating apparatus. 1,667,164; Apr. 24.

Langdon, Jesse D., Los Angeles, Calif., assignor to Petroleum Machinery Development Corporation, Reno, Nev. Truss rod. 1,667,209; Apr. 24.

Lange, Carvel H., and E. W. Vollert, Brooklyn, N. Y., assignors to Playmor Golf, Inc. Game. 1,667,481; Apr. 24.

Langenbach, Edward A. (See Blecker, William M., assignor.)

Larkin, Dennis F., San Francisco, Calif. Perambulator. 1,667,041; Apr. 24.

Larkin, Dennis F., assignor to The Larkin Specialty Manufacturing Co., San Francisco, Calif. Step protector. 1,667,040; Apr. 24.

Larkin Specialty Manufacturing Co., The. (See Larkin, Dennis F., assignor.)

Larson, Alfred T., assignor to Lazote, Incorporated, Wilmington, Del. Ammonia synthesis process and catalyst. 1,667,322; Apr. 24.

Larson, Alfred T., assignor to Lazote, Incorporated, Wilmington, Del. Ammonia synthesis process and catalyst. 1,667,323; Apr. 24.

Laska, August L., and A. Zitscher, Offenbach-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Azodyestuff and making same. 1,667,667; Apr. 24.

Laterra, John, and F. Joy, Paterson, N. J. Banjo hand rest. 1,667,324; Apr. 24.

Lauwagie, Peter F., and J. P. Konings, Dell Rapids, S. Dak. Veterinary implement. 1,667,325; Apr. 24.

Lavarack, William H. B., Pinebush, N. Y., and D. W. Richards, Roanoke, Va. Parkway cable terminal. 1,667,555; Apr. 24.

Lavett, Charles O., assignor, by mesne assignments, to Buffalo Foundry & Machine Co., Buffalo, N. Y. Apparatus for spraying and treating liquids. 1,667,291; Apr. 24.

Lazote, Incorporated. (See Larson, Alfred T., assignor.)

Ledger, Letcher G. (See Ahern, J. L., and Ledger.)

Lee, Edwin A., Philadelphia, Pa. Container and display device. 1,667,482; Apr. 24.

Lee, K. O., & Son Company, The. (See Purnis, Theodore S., assignor.)

Lemieux, David, Lewiston, Me. Cutting mechanism for automatic looms. 1,667,261; Apr. 24.

Lenz, Jacob M., assignor to Bunsel-Lenz Electric Manufacturing Company, Chicago, Ill. Insulated terminal. 1,667,598; Apr. 24.

Leof, Charles, Detroit, Mich. Liquid dispenser. 1,667,483; Apr. 24.

Leon, Karl O., Lidkoping, Sweden. Advertising device. 1,667,210; Apr. 24.

Levitt, Samuel L., Chicago, Ill. Tire remover. 1,667,351; Apr. 24.

Lewellyn, John A., assignor, by mesne assignments, to R. L. Hinds, Toledo, Ohio. Demagnetizer. 1,667,422; Apr. 24.

Lewis, A., (Finsbury) Limited. (See Widmer, Harry A., assignor.)

Lewis, Saul. (See Ruck, P., and Schutz, assignors.)

Lewis, Wilbur S., Cleveland, Ohio. Crimper. 1,667,556; Apr. 24.

Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)

Libbey-Owens Sheet Glass Company, The. (See Diederichs, Hugo N., assignor.)

Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)

Lichten, Harold, Philadelphia, Pa. Stocking top. 1,667,352; Apr. 24.

Lichtenberger, Theodor, Heilbronn, and K. Flor, Buckeburg, Germany. Obtaining alkaline-earth-metal sulphides from alkaline-earth-metal sulphates. 1,667,423; Apr. 24.

Liese, Paul, Berlin-Tempelhof, Germany. Translucent wall, ceiling, and floor structure. 1,667,484; Apr. 24.

Lietz, John F., Buffalo, N. Y. Roofing construction. 1,666,939; Apr. 24.

Light, Floyd F., Beckley, W. Va. Bucket hanger. 1,667,211; Apr. 24.

Lindensmith, Harry, Walkerton, Ontario, Canada. Fence post. 1,667,424; Apr. 24.

Liniger, George, Fort Wayne, Ind. Pipe support. 1,667,124; Apr. 24.

Lippold, Adolph J., assignor to Milwaukee Dairy Supply Mfg. Co., Milwaukee, Wis. Milk-bottle-draining device. 1,667,075; Apr. 24.

Lipsky, Norman, New York, N. Y., assignor to Halcolite Company, Inc. Lighting-fixture wall bracket or analogous article. Des. 74,981; Apr. 24.

Litton, Moses P. (See Godsey, R. D., and Litton.)

Lloyd, Burt E., Woodcliff, N. J. Toy. 1,667,353; Apr. 24.

Locke, Emery A. (See Bergquist, Charles H., assignor.)

Lockwood, Alvin M., et al. (See Malone, Adolph W., assignor.)

Locomotive Firebox Company. (See Hawley, Charles G., assignor.)

Loeck, Günther, assignor to the firm: Georg Wolf G. m. b. H., Berlin, Germany. Optical tube for cystoscopes, gastroscopes, and the like. 1,667,630; Apr. 24.

Loepsinger, Albert J., assignor, by mesne assignments, to General Fire Extinguisher Company, Providence, R. I. Heat-responsive apparatus. 1,667,425; Apr. 24.

Logan, George A., New York, N. Y. Combination tool. 1,667,462; Apr. 24.

Logan, James W., Chicago, Ill., assignor to The Vulcan Oil Burner Corporation, New York, N. Y. Oil-burning apparatus. 1,667,042; Apr. 24.

Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Machine for making elastic paper. 1,667,202; Apr. 24.

Lourens, Cornelis, assignor to General Norit Company, Limited, Amsterdam, Netherlands. Gas-treating process. 1,667,426; Apr. 24.

Luce, Charles R., New York, N. Y. Stick-candy wrapper. Des. 74,982; Apr. 24.

Lueck, Roger H., Oak Park, Ill., assignor, by mesne assignments, to the Public of the United States of America. Enamel for coating cans. 1,667,212; Apr. 24.

Luedke, August J., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Support for plaster bases. 1,667,701; Apr. 24.

Luft, Hans, Providence, R. I. Coupler. 1,667,557; Apr. 24.

Lupien, Louis A., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Container or box. 1,667,354; Apr. 24.

Lustre Co., The. (See Green, Fred P., assignor.)

Lutschg, Arnold, Great Bend, Kans. Shoe-stitcher attachment. 1,667,427; Apr. 24.

Lynds, Fred H., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh machine. 1,666,940; Apr. 24.

Macdonald, Rob R., New York, assignor of one-half to L. O. Smith, Brooklyn, N. Y. Connecter. 1,667,485; Apr. 24.

MacGregor, Peter G., Pequannock, assignor to Pyrene Manufacturing Company, Newark, N. J. Relief valve for fire-extinguisher pumps. 1,667,262; Apr. 24.

Mach, Frank C., Dillonvale, Ohio. Fountain comb. 1,667,631; Apr. 24.

Mackie, William, Glasgow, Scotland. Roll for sugar cane and like mills. 1,667,682; Apr. 24.

Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Power system. 1,667,633; Apr. 24.

Malley, Roy D., East Orange, N. J., assignor to Cooper Hewitt Electric Company. Time switch. 1,666,904; Apr. 24.

Majewicz, Constantly, Detroit, Mich. Sounding device for toy animal figures. 1,667,125; Apr. 24.

Malone, Adolph W., Fillmore, Utah, assignor of one-third to A. H. Vestal, Anderson, Ind., and one-third to A. M. Lockwood, San Antonio, Tex. Cross-arm clamp. 1,667,558; Apr. 24.

Malone, Levi D. (See Hubbs, H. E., and Malone.)

Marble, Edwin H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Sewing machine. 1,667,326; Apr. 24.

Marchetti Motor Patents, Incorporated. (See Marchetti, Paul, assignor.)

Marchetti, Paul, Stockton, Calif., assignor to Marchetti Motor Patents, Incorporated. Internal-combustion motor. 1,667,213; Apr. 24.

Mariotti, Tony, Lorain, Ohio. Surveying instrument. 1,667,599; Apr. 24.
Marshall, John R., McKean, Pa. Electric switch. 1,667,293; Apr. 24.
Martin, Bruno, Saginaw, Mich. Blowtorch. 1,667,429; Apr. 24.
Martin, Morris, Curl Curl, near Sydney, and W. R. Werner, Nymagee, New South Wales, Australia. Internal-combustion engine. 1,666,941; Apr. 24.
Martin, Ted, et al. (See Sherrod, Robert L., assignor.)
Martin, Thomas, assignor of one-half to C. A. Jorgensen, Piedmont, Calif. Combination license plate and tail light. 1,667,126; Apr. 24.
Martinek, Michael, Lyons, assignor to Western Wire & Iron Works, Inc., Chicago, Ill. Sliding-door lock. 1,667,600; Apr. 24.
Martino, Letterio, Everett, Mass. Automobile signal. 1,667,165; Apr. 24.
Mason Alfalfa Process Company. (See Mason, Arthur J., assignor.)
Mason, Arthur J., Homewood, Ill., assignor to Mason Alfalfa Process Company. Agriculture. 1,667,428; Apr. 24.
Massa, Robert F., New York, N. Y., assignor by mesne assignments, to R. and A. Penn, Des Moines, Iowa. Thermostat. Re16,940; Apr. 24.
Mather, George L., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building apparatus. 1,667,263; Apr. 24.
Matthias, Gilbert L., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making laminated strips. 1,667,009; Apr. 24.
Matthies, Otto. (See Dieterle, W., Matthies, and Reitstötter.)
Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Wood-turning machine. 1,666,906; Apr. 24.
Mattison Machine Works. (See Mattison, Carl L., assignor.)
Mattsson, Alfred G., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,666,905; Apr. 24.
Mauck, Victor, Merion, Pa. Apparatus for exchange of heat. 1,667,430; Apr. 24.
Maurer, Louis A., Irvington, N. J., assignor to General Electric Company. Exhaust-tube remover. 1,667,601; Apr. 24.
Mauthe, Gustav. (See Thauss, A., Mauthe, and Günther.)
Mayer, Bertram, Basel, and J. Grimmer, Neuewelt, near Basel, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Trisazo dyes derived from deydbro-thio-p-toluidine-sulphonic acid and resorcinol and making same. 1,667,327; Apr. 24.
McCaleb, Albert G., Chicago, Ill., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield-cleaner motor. 1,667,559; Apr. 24.
McCarty, Eugene J., Clinton, Mass. Automobile jack. 1,666,971; Apr. 24.
McConway & Torley Company, The. (See Kelso, William, assignor.)
McCord, Frank P., Mexico, Mo. Arch supporter. 1,667,328; Apr. 24.
McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Automatic die-press-stopping mechanism. 1,666,942; Apr. 24.
McDonald Machine Co. (See McDonald, Charles D., assignor.)
McGovern, Daniel F., Montpelier, Vt. Polishing wheel. 1,667,076; Apr. 24.
McGrath, John T., Bloomington, Ill. Flue cleaning, cutting, and handling machine. 1,667,388; Apr. 24.
McJannett, John H. (See Strickler, R., and McJannett.)
McLaughlin, Clarke R., Longville, La. Apparatus for manufacturing matched flooring. 1,667,668; Apr. 24.
McMullen, John, Buffalo, N. Y. Device for taking up brake-chain slack. 1,667,560; Apr. 24.
McNeill, Herbert H. (See Brewer, Oscar Z., assignor.)
Mead, George J., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanization of tire casings. 1,667,127; Apr. 24.
Meads, Walter, assignor to Acme Lace Works, Inc., Hightstown, N. J. Lace medallion. Des. 74,983; Apr. 24.
Mechanical Rubber Company, The. (See Kent, William J., assignor.)
Mecom, Harvey, Liberty, Tex. Drill. 1,667,077; Apr. 24.
Medlavilla, Leopoldo, New York, N. Y. Die-cast boat construction. 1,667,561; Apr. 24.
Meekins, Jesse R., Marshalltown, Iowa. Current motor. 1,667,634; Apr. 24.
Megee, Joseph W., Tulsa, Okla. Display stand. 1,667,669; Apr. 24.
Mendrop, Eldon R. (See Fisher, E. S., and Mendrop.)
Menzel, Max M., Kenosha, Wis. Meat-block scraper and dresser. 1,667,329; Apr. 24.
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)
Merriman, Carroll L. (See Baker, L. E., and Merriman.)
Mettler, Lee B., Los Angeles, Calif. Radiator overflow. 1,667,128; Apr. 24.
Meyer, Fred H., Oakland, assignor to Non-Pressure Glazing Company, San Francisco, Calif. Corner cap for sash structures. 1,667,043; Apr. 24.
Meyers, Frederick B., and H. W. Darney, assignors of one-half to R. Bragonier, Baltimore, Md. Eraser cleaner. 1,667,431; Apr. 24.
Michel, Richard, Uerdingen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Condensation product from olefines and hydrocarbons of the naphthalene series and making the same. 1,667,214; Apr. 24.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Mold-aligning means. 1,667,129; Apr. 24.
Miles, Frederick J., and D. C. Thompson, Newark, N. J., assignors, by mesne assignments, to E. Sullivan, New York, N. Y. Double-contact socket for electric lamps. 1,666,973; Apr. 24.
Miles, Frederick J., and D. C. Thompson, Newark, N. J., assignors, by mesne assignments, to E. Sullivan, New York, N. Y. Socket for electric lamps. 1,666,974; Apr. 24.
Miller, Gustaf E. and O. E., Stratton, Nebr. Motor power take-off. 1,666,972; Apr. 24.
Miller, Oscar E. (See Miller, Gustaf E. and O. E.)
Miller, Theodore A. (See Fleiter, A. J., and Miller.)
Milwaukee Corrugating Company. (See Luedke, August J., assignor.)
Milwaukee Dairy Supply Mfg. Co. (See Lippold, Adolph J., assignor.)
Minerals Separation North American Corporation. (See Smith, Harold H., assignor.)
Minerals Separation North American Corporation. (See Wilkinson, Eltoft W., assignor.)
Minnick, Howard B., Chicago, Ill. Combination tie press and rack. 1,667,264; Apr. 24.
Mitchell, Harry L. (See De Luiz, E. R., and Mitchell.)
Mitchell Specialty Company. (See Knight, Edward R., assignor.)
Modine, Arthur B., Racine, Wis. Heating unit. 1,666,907; Apr. 24.
Moore, George C., Westerly, R. I. Garment supporter. 1,667,432; Apr. 24.
Moore, Ralph S., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Bin gate. 1,666,908; Apr. 24.
Moore, Roy S., et al. (See Sherrod, Robert L., assignor.)
Moore, T. F., Company, The. (See Vergeer, Albert W. P., assignor.)
Monahan, Joseph H., Worcester, Mass. Belt attachment. 1,666,975; Apr. 24.
Morrison, Simon, New York, N. Y. Vanity case. 1,667,486; Apr. 24.
Morson, William C. T. (See Kehoe, J. J., jr., Morson, and De Sherbinin.)
Motor Products Corporation. (See Henricson, Edwin A., assignor.)
Motor Products Corp. (See Pritchard, William S., assignor.)
Mouton, Willem A., assignor to N. V. Nederlandsche Instrumenten Compagnie, Haag, Netherlands. Range finder. 1,666,943; Apr. 24.
Moyer, Paul S. (See Adams, Alfred S. and W. B., and Moyer.)
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Escapement-actuating mechanism of typographical composing machines. 1,666,944; Apr. 24.
Mulherron, G. G., et al. (See Sherrod, Robert L., assignor.)
Mullen, Albert E., New York, N. Y. Container. 1,667,215; Apr. 24.
Murdock, Charles E. (See Gray, O. H., and Murdock.)
Murnane, Daniel J., San Mateo, assignor to Murnane Universal Twin Mirror Company, San Francisco, Calif. Wall-cabinet hinge. 1,667,010; Apr. 24.
Murnane Universal Twin Mirror Company. (See Murnane, Daniel J., assignor.)
Murray, Thomas E., jr., Brooklyn, N. Y. Butt welding. 1,667,487; Apr. 24.
Myers, August G., Cleveland, Ohio. Bracket for lighting fixtures. Des. 74,984; Apr. 24.
Myers, Stanley D., Roseland, N. J. Belt fastening and riveting apparatus. 1,667,294; Apr. 24.
N. V. Nederlandsche Instrumenten Compagnie. (See Mouton, Willem A., assignor.)
National Brake & Electric Company. (See Aikman, Burton S., assignor.)
National Carbon Company. (See Heise, G. W., and Thompson, assignors.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Pole & Treating Company. (See Valentine, Robert D., assignor.)
National Refrigeration Corporation. (See Ireland, Ward S., assignor.)
National Tag Manufacturing Corporation. (See Kuhns, John P., assignor.)
Nauss, Friedrich, Vienna, Austria. Knife-edge bearing for weighing apparatus. 1,667,635; Apr. 24.
Neal, Enoch E., Malden, Mass. Ventilating apparatus for toilet bowls. 1,667,265; Apr. 24.
Neeley Chemical Company. (See Neeley, William M., assignor.)
Neeley, William M., assignor to Neeley Chemical Company, Amarillo, Tex. Boiler compound. 1,667,670; Apr. 24.

Neider, F. A., Company. (See Yates, Nathaniel, jr., assignor.)
Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Cable grip. 1,667,636; Apr. 24.
Neubauer, Ferdinand, Brooklyn, Ohio. Micrometer. 1,667,562; Apr. 24.
Neuendorff, John B., San Antonio Tex. Gasoline substitute and process of making. 1,666,976; Apr. 24.
Newhall, Henry B., Corporation. (See Pleister, Henry W., assignor.)
Nicholson, Stanley W. (See Carroll, W. W., and Nicholson.)
Nies, Frederick R., Lynn, Mass. Truck. 1,667,671; Apr. 24.
Nigra, Ferdinand, San Antonio, Tex. Record cabinet. 1,667,216; Apr. 24.
Nixdorff, Samuel P., Schenectady, N. Y., assignor to General Electric Company. Frequency changer. 1,667,672; Apr. 24.
Non-Pressure Glazing Company. (See Meyer, Ferd H., assignor.)
Northern Malleable Iron Company. (See Cummins, Thomas K., assignor.)
Norton, Charles L., Boston, Mass. Method and apparatus for making building units. 1,667,434; Apr. 24.
Norton, Frederick H., Newell, W. Va., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Device for holding pyrometers. 1,667,355; Apr. 24.
Nowicki, Martin. (See Goldberg, E., and Nowicki.)
Obergfell, Herbert F., River Forest, assignor to Automatic Electric Company, Chicago, Ill. Combined switch box and support for a hand telephone. Des. 74,985; Apr. 24.
Oddo, Charles A., Buffalo, N. Y. Brush kit. 1,667,044; Apr. 24.
Odlin, Susan I., Dayton, Ohio. Hand loom. 1,667,330; Apr. 24.
O'Donnell, Edward P., Kiefer, Okla. Valve-grinding machine. 1,667,602; Apr. 24.
Ogden, Blanchard, San Diego, Calif. Shaving-soap cake and holder therefor. 1,667,045; Apr. 24.
Ogletree, William D., Mexia, Tex., assignor of one-fourth to J. A. Fain, Oklahoma City, Okla. Oil-well pump. 1,667,433; Apr. 24.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohmer Fare Register Company. (See Ketterman, Charles W., assignor.)
Ohmer Fare Register Company. (See Sawyer, Frank, assignor.)
Old, Clayton W. (See Darby, J., and Old.)
Oliver Continuous Filter Company. (See Borden, John F., assignor.)
Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Welt-sewing machine. 1,667,046; Apr. 24.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob grinder. 1,667,488; Apr. 24.
Oppenheim, René, assignor to Société Anonyme le Carbone, Levallois-Perrett, France. Lead accumulator. 1,667,435; Apr. 24.
Orr, Francis L., Denver, Colo. Variable-speed transmission. 1,667,166; Apr. 24.
Orth, William H., Philadelphia, Pa. Sliding clothespin bag. 1,667,389; Apr. 24.
Osburn, Robert A., assignor of one-third to J. F. Williams, Birmingham, Ala. Antiglare lens for automobile headlights. 1,667,489; Apr. 24.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,667,167; Apr. 24.
Otaka Fabric Company, The. (See Lorenz, William A., assignor.)
O'Toole, Edward, Gary, W. Va. Cleaning and sizing apparatus. 1,667,331; Apr. 24.
Ottenheimer Bros., Inc. (See Ottenheimer, Reuben E., assignor.)
Ottenheimer, Reuben E., assignor to Ottenheimer Bros., Inc., Baltimore, Md. Refrigerating case. Re16,941; Apr. 24.
Overstreet, M. O. (See Billingsley, Percy L., assignor.)
Oxford Varnish Corporation. (See von Webern, Guido, assignor.)
Papp, Bertalan, Bethlehem, Pa. Pan-lid holder. 1,667,266; Apr. 24.
Paraffine Companies, The. (See Finley, Doxier, assignor.)
Paragon Dishwasher Syndicate Incorporated. (See Kehoe, J. J., jr., Morson, and De Sherbinin, assignors.)
Paramount Famous Lasky Corporation. (See Garbutt, F. E., and Griffith, assignors.)
Paramount Paper Products Company. (See Simmons, Paul R., assignor.)
Passaic Metal Ware Co. (See Gueritey, Charles, assignor.)
Pathe Exchange, Inc. (See Chanier, Gaston L., assignor.)
Pathe Exchange, Inc. (See Warner, Sterling W., assignor.)
Patten, George M., Detroit, Mich. Toy piano and operating same. 1,667,073; Apr. 24.
Paul, Andrew, Philadelphia, Pa. Candle-holding bracket. Des. 74,986; Apr. 24.
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Tripping device for power-lift plows. 1,667,130; Apr. 24.
Paxon, James. (See Varkas, Aris, N., and J. B., and Paxon.)
Peacock, Charles M., Oak Park, Ill. Time-controlled apparatus. 1,667,356; Apr. 24.
Peacock, Elisha L., assignor to G. A. Peacock, San Francisco, Calif. Shock absorber. 1,667,011; Apr. 24.
Peacock, George A. (See Peacock, Elisha L., assignor.)
Peacock, George A., Oakland, Calif. Shock absorber. 1,667,047; Apr. 24.
Pearson, Olaf S., Kansas City, Kans. Toilet cabinet. 1,667,564; Apr. 24.
Peccaud, Charles, Morbier, France. Automatic balance. 1,667,603; Apr. 24.
Pedrazzo, Emil, Guttenberg, and M. Tua, Union City, N. J. Printing machine. 1,667,390; Apr. 24.
Peerless Roll Leaf Co. (See Grupe, William F., assignor.)
Pehrson, Adam H., Stockholm, Sweden, assignor to Dunford & Elliott (Sheffield) Limited, Sheffield, England. Obtaining valuable products from combustible materials. 1,667,217; Apr. 24.
Peirson, Charles H., and W. A. Bohne, assignors to E. F. Houghton & Company, Philadelphia, Pa. Molding machine. 1,667,673; Apr. 24.
Penn, Albert, et al. (See Massa, Robert F., assignor.)
Penn, Ralph, et al. (See Massa, Robert F., assignor.)
Pennoyer, Edward A., Greenville, S. C. Loom attachment. 1,667,037; Apr. 24.
Pennsylvania Gasoline Drill Company. (See Somervell, Charles S., assignor.)
Perfecto Gear Differential Co. (See Jackson, Ernest W., assignor.)
Perrin, Francis, Paris, France. Sealing device. 1,667,563; Apr. 24.
Peters, Robert B., Brooklyn, N. Y. Bracket. 1,667,604; Apr. 24.
Petroleum Machinery Development Corporation. (See Langden, Jesse D., assignor.)
Petroleum Reclamation Corporation. (See Ryder, H. M., and Bailey, assignors.)
Philippi, Theodore F., East St. Louis, Ill. Bending machine. 1,666,909; Apr. 24.
Pickering, Clarence H., and J. Campbell, Seattle, assignors to Swan Heating Company, Seattle, Wash. Sheet-metal radiator. 1,667,357; Apr. 24.
Pieper, Albert G. L., assignor of one-half to R. Hofeller, Chicago, Ill. Punching and cutting tool. 1,667,012; Apr. 24.
Pietrusiak, Frank, St. Paul, Minn. Core-making machine. 1,667,079; Apr. 24.
Pinard, Joseph L., Sherbrooke, Quebec, Canada. Ash tray. Des. 74,998; Apr. 24.
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pitcher, Elbridge S., Auburn, Me. Combination piano jack and truck. 1,667,267; Apr. 24.
Piver, William C., Hillside, N. J. Making calcium arsenate. 1,667,490; Apr. 24.
Piver, William C., Hillside, N. J. Making commercial calcium arsenate. 1,667,491; Apr. 24.
Plane-Speaker Corporation. (See Adair, S. E., and Knapp, assignors.)
Plane-Speaker Corporation. (See Coburn, J. M., and Knapp, assignors.)
Playmor Golf, Inc. (See Lange, C. H., and Vollert, assignors.)
Pleister, Henry W., Westfield, assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Drivescrew expansion and method. 1,667,268; Apr. 24.
Pollok, Othmar, Berlin-Halensee, Germany, assignor to General Electric Company. System of distribution. 1,667,674; Apr. 24.
Portable Rotary Rig Company. (See Kluppel, John L., assignor.)
Poske, Harry C., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Metal-casting machine. 1,666,910; Apr. 24.
Potato Waffles, Inc. (See Kintzele, Julius H., assignor.)
Potter, Howard V., and J. W. Crump, Birmingham, assignors to The Damard Lacquer Company Limited, London, England. Accelerator for hardening phenol urea products. 1,667,675; Apr. 24.
Poulton, Roy L., Columbus, Ohio. Display stand. Des. 74,987; Apr. 24.
Powell, Ralph E., Toledo, Ohio. Connecter. 1,667,702; Apr. 24.
Prescott, Charles W., assignor to General Railway Signal Company, Rochester, N. Y. Switch-operator selector. 1,666,911; Apr. 24.
Price, Charles S., Bethlehem, and F. Weindel, jr., assignors to L. F. Grammes & Sons, Inc., Allentown, Pa. Key case or purse. 1,667,676; Apr. 24.
Pritchard, William S., assignor to Motor Products Corp., Detroit, Mich. Windshield-operating mechanism. 1,666,912; Apr. 24.
Prizma, Incorporated. (See Kelley, William V. D., assignor.)
Prosperity Company, The. (See Clisson, Albert B., assignor.)
Prough, Omri A. (See Bradley, J. P., and Prough.)
Public of the United States of America, The. (See Lueck, Roger H., assignor.)

Purnis, Theodore S., assignor to The K. O. Lee & Sons Company, Aberdeen, S. Dak. Tool for planing valve seats. 1,667,218; Apr. 24.

Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)

Radcliffe, Carlton R., deceased, New York, N. Y.; C. C. Radcliffe, executrix. Hydraulic power transmitting apparatus for motor vehicles. 1,667,565; Apr. 24.

Radcliffe, Cressida C., executrix. (See Radcliffe, Carlton R.)

Radio Corporation of America. (See Fitch, Clyde J., assignor.)

Radio Corporation of America. (See Friederich, Ernst, assignor.)

Radio Corporation of America. (See Shapiro, Lazarus, assignor.)

Radio Electric Clock Corporation. (See Casner, Thaddeus S., assignor.)

Radio Frequency Laboratories, Incorporated. (See Hull, Lewis M., assignor.)

Raeburn, William, Waterbury, Conn., assignor to M. E. Bernhardt Company, Inc., New York, N. Y. Pocket lighter. Des. 74,988; Apr. 24.

Railway Devices Company. (See Habenicht, Frederick K., assignor.)

Railway Devices Company. (See Hoerr, Louis A., assignor.)

Rainey, Austin E., Grove City, Pa. Scooter sled. 1,667,436; Apr. 24.

Ralston, Emmet G., Indianapolis, Ind. Graphic meter chart and drive. 1,667,492; Apr. 24.

Ramsey, Maxwell E., St. Louis, Mo. Mortuary bed. 1,667,080; Apr. 24.

Randolph, Walter. (See Arnold, F., and Randolph.)

Raney, Clemma R. (See Benjamin, B. R., and Raney.)

Raney, Clemma R., Riverside, and A. E. W. Johnson, assignors to International Harvester Company, Chicago, Ill. Conveying and feeding mechanism for harvester thrashers. 1,667,391; Apr. 24.

Ranney, Leo, New York, N. Y., assignor to Standard Oil Development Corporation. Oil-mining method and apparatus. 1,667,269; Apr. 24.

Ransom, Daniel P., Woodstock, Vt. Rug or carpet beater. 1,667,605; Apr. 24.

Raper, Joseph C., Covington, Ky. Metallic rolling shutter. 1,667,081; Apr. 24.

Rappaport, Samuel, Brooklyn, N. Y. Box. 1,666,913; Apr. 24.

Räth, Curt. (See Binz, A., and Räth.)

Rawlings, William E., near San Jose, Calif. Trap. 1,667,048; Apr. 24.

Ream, John, Sacramento, Calif. Dredging apparatus. 1,667,219; Apr. 24.

Reece Shoe Machinery Company. (See Oliver, John R., assignor.)

Reed, Jesse O., Paxinos, Pa., assignor to The Government and the People of the United States of America. Steam turpentine still. 1,667,168; Apr. 24.

Reese, Heath C., Chicago, Ill. Smoking pipe. 1,666,914; Apr. 24.

Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Trailer lock. Re16,942; Apr. 24.

Reid, James, Mount Vernon, N. Y., assignor to The Scutan Company. Proofed paper. 1,667,691; Apr. 24.

Reid, James S., Cleveland, Ohio. Internal-combustion engine. 1,667,049; Apr. 24.

Reilly, Alfred F., Attleboro, Mass. Combined cigarette lighter and cigarette container. Des. 74,989; Apr. 24.

Reinhardt, Arthur. (See Schiering, H., and Reinhardt.)

Reitstötter, Josef. (See Dieterle, W., Matthies, and Reitstötter.)

Remaley, David U., Detroit, Mich. Vacuum cleaner. 1,666,915; Apr. 24.

Remington Rand Inc. (See Day, William H., assignor.)

Remter, Arthur F., Artois, Calif. Signaling device for automobiles. 1,667,050; Apr. 24.

Reufel, Heinrich M. H., H. de Jong, Eindhoven, and W. G. F. Wentink, The Hague, Netherlands, assignors to General Electric Company. Wire-coiling machine. 1,667,677; Apr. 24.

Rex, Harold B., Lynn, Mass., assignor to General Electric Company. Adjustable magnet device. 1,667,638; Apr. 24.

Reyrolle, A., & Company Limited. (See Clothier, H. W., and Burgess, assignors.)

Rice, William H., East St. Louis, Ill. Automobile tire air pump. 1,667,051; Apr. 24.

Richards, Daniel W. (See Lavarack, W. H. B., and Richards.)

Riecke, Ernst, Charlottenburg, Germany, assignor to General Electric Company. Electric rolling-mill drive with Leonard control. 1,667,678; Apr. 24.

Rifkin, Jacob, Wilkes-Barre, Pa. Union garment. 1,667,220; Apr. 24.

Robeson, Jacob S., Pennington, N. J. Fuel briquette and making same. 1,667,358; Apr. 24.

Robinson, Charles W., Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill. Tractor disk harrow. 1,667,392; Apr. 24.

Robinson, Patrick H., assignor to Hamilton Beach Mfg. Co., Racine, Wis. Brush guard. 1,667,082; Apr. 24.

Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)

Rogers, Arthur R., Jonesport, Me. Machine for cutting fish. 1,667,437; Apr. 24.

Rolfes, George H., assignor to A. H. Handlan, St. Louis, Mo. Focusing device for signal lamps. 1,667,393; Apr. 24.

Romano, John, Brooklyn, N. Y. Toy novelty. 1,667,606; Apr. 24.

Rose, Benjamin K., assignor to Frost Steel Products, Inc., Warren, Ohio. Fastening device for fencing, etc. 1,667,463; Apr. 24.

Rose, William H., Jersey City, N. J. Wind deflector. 1,667,013; Apr. 24.

Roura, Jean, Nerac, France. Device for supporting ties. 1,667,679; Apr. 24.

Rowntree, Harold, Scarsdale, assignor to National Pneumatic Company, New York, N. Y. Electrically-operated door. 1,666,916; Apr. 24.

Royle, Vernon, Paterson, N. J. Routing machine. 1,667,394; Apr. 24.

Ruck, Peter, Brooklyn, and M. Schutz, assignors to S. Lewis, New York, N. Y. Boiler-tube cleaner. 1,667,169; Apr. 24.

Runzel-Lenz Electric Manufacturing Company. (See Lenz, Jacob M., assignor.)

Rupert, George G., Decatur, Ill. Drowning ring for animal traps. 1,667,566; Apr. 24.

Rutter, Clark H., New Castle, Pa. Combination tool. 1,666,977; Apr. 24.

Ruzalski, Joseph A., Blackie, Alberta, Canada. Weeding machine. 1,667,708; Apr. 24.

Ryder, Harry M., and L. J. Bailey, Bradford, Pa., assignors to Petroleum Reclamation Corporation, New York, N. Y. Liquid meter. 1,667,270; Apr. 24.

Sachs, Joseph, Hartford, Conn. Terminal contact clip. 1,666,978; Apr. 24.

Sachs, Joseph, Hartford, Conn. Fusible switch. 1,666,979; Apr. 24.

Sakamoto, Kyugoro, Hamamatsu, Japan. Let-off for looms. 1,667,221; Apr. 24.

Salerno, Ferdinando G., Chicago, Ill. Biscuit-handling machine. 1,667,692; Apr. 24.

Salzburg, Samuel. (See Buckingham, William H., assignor.)

Sammartino, Achille, Providence, R. I. Ring. 1,667,680; Apr. 24.

Sandberg, Johannes. (See Ensdorf, W., and Sandberg.)

Sands, Orville, and C. Eustice, Cuba, Wis. Wagon-body shoveling board. 1,667,438; Apr. 24.

Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,667,395; Apr. 24.

Sanymetal Products Company, The. (See Carpenter, R. F., and Anderson, assignors.)

Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Variable-speed drive for exhaust fans. 1,666,917; Apr. 24.

Sargent's, C. G., Sons Corporation. (See Sargent, Frederick G., assignor.)

Sauer, Johan N. A., Amsterdam, Netherlands. Apparatus for purifying and simultaneously sterilizing water or other liquids or gases. 1,667,439; Apr. 24.

Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Cake stand. Des. 74,990; Apr. 24.

Sawyer, Frank, Boston, Mass., assignor to Ohmer Fare Register Company, Dayton, Ohio. Annunciator for taximeters. 1,667,131; Apr. 24.

Scannell, Albert T., Chicago, Ill. Mast-erecting apparatus. 1,667,440; Apr. 24.

Schaum, Carl, assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Centrifugal. 1,667,493; Apr. 24.

Schelling, Ernest J., Toledo, Ohio. Dressing. 1,667,222; Apr. 24.

Scherer, Paul A., Medford, Oreg. Handling fruit. 1,667,132; Apr. 24.

Scheuer's, Herman, Son & Co. (See Arnold, Max, assignor.)

Schiering, Hermann, and A. Reinhardt, Apolda, Germany. Railway signaling device. 1,667,709; Apr. 24.

Schneider, Hermann. (See Straub, F., and Schneider.)

Schnurr, Peter, Chicago, Ill. Latching means for window screens. 1,667,607; Apr. 24.

Schoeller, Walter, A. Feldt, M. Gehrke, and E. Borgwardt, assignors to firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pharmaceutical product. 1,667,052; Apr. 24.

Schotte, Herbert, Berlin-Wilmersdorf, assignor to the firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Diacyl isothiocarbamide ether and producing same. 1,667,053; Apr. 24.

Schrader, Harold D., Denver, Colo. Gas burner. 1,667,133; Apr. 24.

Schrader, Thomas O., Allentown, assignor to Dent Hardware Co., Fullerton, Pa. Latching device for refrigerator doors. 1,667,494; Apr. 24.

Schroeder, Simon E., Newton, Iowa. Safety wringer mechanism. 1,667,495; Apr. 24.

Schroeder, Simon E., Newton, Iowa. Wringer. 1,667,496; Apr. 24.

Schutz, Michael. (See Ruck, P., and Schutz.)

Schwab, A. G., & Sons. (See Atkinson, William B., assignor.)

Scofield, Arthur L. (See Craig, T. J., and Scofield.)

Scoville, Eugene M., Cincinnati, Ohio, assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Sight feed. 1,666,918; Apr. 24.

Scutan Company, The. (See Reid, James, assignor.)

Seaver, Samuel, Haileybury, Ontario, Canada, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Handle attachment for drills. 1,667,271; Apr. 24.

Segal, Samuel, New York, N. Y. Tweezers. 1,667,170; Apr. 24.

Seifert, George W. T., Cairo, Ill. Combined purifier and aspirator for middlings. 1,667,054; Apr. 24.

Sekyer, Carl P., Montreal, Quebec, Canada. Sash fastener. 1,666,945; Apr. 24.

Selb, John J. (See Abramowitz, Joseph, assignor.)

Sessler, Eugene, Chicago, Ill. Arch support. 1,667,359; Apr. 24.

Shaler Company, The. (See Faber, Merle E., assignor.)

Shapiro, Lazarus, New York, N. Y., assignor to Radio Corporation of America. Phase shifter. 1,667,497; Apr. 24.

Sharp, John E., Wheeling, W. Va. Cable head. 1,666,980; Apr. 24.

Sharp & Smith. (See Brix, Harold, assignor.)

Shea, John H. (See Daley, Daniel M., assignor.)

Shelby Spring Hinge Company, The. (See Hubbs, H. E., and Malone, assignors.)

Shelton, William G., St. Louis, Mo. Steaming-tube plug. 1,667,396; Apr. 24.

Shepherd, Richard, and W. Dalhelmer, Eindhoven, Netherlands, assignors to General Electric Company. Wire-coiling machine. 1,667,681; Apr. 24.

Sherlock, Charles B., Philadelphia, Pa. Combination doll and radio set. 1,666,946; Apr. 24.

Sherrod, Robert L., assignor of one-sixth to G. G. Mulherron, one-sixth to T. Martin, one-sixth to F. W. Whitehurst, one-sixth to T. D. Gooch, and one-sixth to R. S. Moore, Brownsville, Tenn. Scrubbing board. 1,667,441; Apr. 24.

Sherwood, Lester L., Los Angeles, Calif. Dental floss holder. 1,667,134; Apr. 24.

Shirk, George. (See Wright, H. J., and Shirk.)

Shoe Products, Inc. (See Jones, George A., assignor.)

Sholin, Frank D., Portland, Oreg. Book rest. 1,667,171; Apr. 24.

Shur Loc Elevator Safety. Corporation. (See Darby, John, assignor.)

Shur Loc Elevator Safety Corporation. (See Darby, J., and Old, assignors.)

Shwayder, Maurice B., assignor to Shwayder Trunk Manufacturing Co., Denver, Colo. Handle for traveling bags, suitcases, etc. 1,667,567; Apr. 24.

Shwayder Trunk Manufacturing Co. (See Shwayder, Maurice B., assignor.)

Siemens & Halske Aktiengesellschaft. (See Gerlach, Erwin, assignor.)

Sikes, Thomas E., Greensboro, N. C. Dental X-ray film holder. 1,667,442; Apr. 24.

Silent, Harold C., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Reducing body-capacity effects on loop-antenna systems. 1,666,947; Apr. 24.

Simmons, Paul R., assignor to Paramount Paper Products Company, Indianapolis, Ind. Machine for manufacturing paper cups. 1,667,498; Apr. 24.

Simon, Ernst, Werden-on-the-Ruhr, Germany. Apparatus for charging fireplaces with highly-inflammable loose fuel. 1,667,703; Apr. 24.

Simonsen, Lorense G., Benson, Nebr. Gas-expelling device. 1,667,443; Apr. 24.

Simpson, Hiram R., San Francisco, Calif. Lock device. 1,667,223; Apr. 24.

Sinclair Refining Company. (See Sloan, Alfred J., assignor.)

Slauson, Stephen A., assignor to Vec Products Company, Cedar Rapids, Iowa. Take-up device. 1,666,948; Apr. 24.

Slauson, Stephen A., assignor to Vec Products Company, Cedar Rapids, Iowa. Take-up device. 1,666,949; Apr. 24.

Sloan, Alfred J., Kansas City, Kans., assignor to Sinclair Refining Company, Chicago, Ill. Pressure still. 1,667,055; Apr. 24.

Smallwood, Richard L., Toronto, Ontario, Canada. Cable-conveyer sprocket. 1,666,950; Apr. 24.

Smith, Charles J., Dearborn, Mich., assignor to Ford Motor Company, Detroit, Mich. Airplane stabilizer. 1,667,224; Apr. 24.

Smith, Eppenetes W., Brooklyn, N. Y. Dimension guide device. 1,667,444; Apr. 24.

Smith, Harold H., Johannesburg, South Africa, assignor to Minerals Separation North American Corporation, New York, N. Y. Production of gas. 1,667,272; Apr. 24.

Smith, Ira E., Stockton, Calif. Mercury contact switch. 1,667,056; Apr. 24.

Smith, Ira E., Stockton, Calif. Water-feed-control system for boilers. 1,667,057; Apr. 24.

Smith, James N., Bonair, Iowa. Snowplow. 1,667,445; Apr. 24.

Smith, John J., Allston, Mass. Pelt or hide stretcher. 1,667,295; Apr. 24.

Smith, Leo O. (See Macdonald, Rob R., assignor.)

Smith, Robert R., assignor of one-half to G. B. Steinhoff, Sargent, Nebr. Combined mailbox and signpost. 1,667,639; Apr. 24.

Smith, Roscoe B., Kenvil, N. J., and E. M. Symmes, assignors to Hercules Powder Company, Wilmington, Del. Gelatin-dynamite explosive. 1,667,083; Apr. 24.

Smith, Samuel H., Rocky River, Ohio. Condenser. 1,667,058; Apr. 24.

Smith, William E., Milltown, assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J. Brake for pile-wire-controlling mechanism for looms. 1,667,682; Apr. 24.

Snell, George C. S., assignor to J. B. Brooks and Company Limited, Birmingham, England. Hand bag or case. 1,667,014; Apr. 24.

Société Anonyme le Carbone. (See Oppenheim, René, assignor.)

Societe Anonyme pour l'Exploitation des Brevets Künzer. (See Künzer, Marcel, assignor.)

Society of Chemical Industry in Basle. (See Fritzsche, H., Krummenacher, Gubler, and Kaiser, assignors.)

Society of Chemical Industry in Basle. (See Isler, M., and von Mechel, assignors.)

Soderstrom, Oscar, North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh machine. 1,666,951; Apr. 24.

Somervell, Bertha W., administratrix. (See Somervell, Charles S.)

Somervell, Charles S., deceased, Riverton, N. J.; B. W. Somervell, administratrix, assignor to Pennsylvania Gasoline Drill Company, Philadelphia, Pa. Impact or percussive tool of the explosive-motor type. 1,666,981; Apr. 24.

Somogyi, Ference, Paris, France. Interchangeable agricultural machine. 1,667,568; Apr. 24.

Sonora Phonograph Company. (See Gruber, Morris M., assignor.)

Sorensen, Einar N., assignor to Auto-Carburetor Corporation, Fernandina, Fla. Thermostatic controlling device for carburetors. 1,667,569; Apr. 24.

Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Signaling device. 1,667,172; Apr. 24.

Sparks-Withington Company, The. (See Sparks, Williams, assignor.)

Splitdorf Radio Corporation. (See Dunbar, Noel S., assignor.)

Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,667,059; Apr. 24.

Stahler, Lester L., Union City, Ind. Fuse tongs. 1,667,332; Apr. 24.

Stahmann, William J., El Paso, Tex. Machine for sterilizing cottonseed. 1,667,608; Apr. 24.

Standard Oil Company of California. (See Collier, Henry D., assignor.)

Standard Oil Development Corporation. (See Ranney, Leo, assignor.)

Stark, Alpha P., Pampa, Tex. Firearm-holding and trigger-actuating device. 1,667,060; Apr. 24.

Starkey, William C., Indianapolis, Ind. Liquid gauge. 1,667,499; Apr. 24.

Stasak, Michael B., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill. Telephone system. 1,667,015; Apr. 24.

Steffen, Carl, jr., Vienna, Austria. Obtaining tricalcium sacharate. 1,667,446; Apr. 24.

Steinhoff, George E. (See Smith, Robert B., assignor.)

Stern, David, Dorchester, Mass. Closure. 1,667,084; Apr. 24.

Steurer, John H., assignor of one-half to L. C. Henkel, Rockville Center, N. Y. Thermoelectric transformer. 1,666,919; Apr. 24.

Stewart, Henry C., assignor to The Westmoreland Chemical & Color Company, Philadelphia, Pa. Making copperas. 1,667,693; Apr. 24.

Stewart, Roy E., Brentford, S. Dak. Road scraper. 1,667,173; Apr. 24.

Stewart, William, E., assignor to Eisele & Company, Nashville, Tenn. Syringe shield. 1,667,278; Apr. 24.

Stickle Steam Specialties Company. (See Guenther, Charles J., assignor.)

Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-feeding mechanism. 1,667,397; Apr. 24.

Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-feeding mechanism. 1,667,398; Apr. 24.

Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-feeding mechanism. 1,667,399; Apr. 24.

Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-feeding mechanism. 1,667,400; Apr. 24.

Stimpson, Edwin B., Company. (See Lupien, Louis A., assignor.)

Stimpson, Edwin B., Company. (See Stimpson, Edwin B., assignor.)

Stine, Samuel B., Osceola Mills, Pa. Molding machine. 1,667,296; Apr. 24.

Stockmeyer, Frederick W., Cincinnati, Ohio. Testing method and apparatus. 1,667,401; Apr. 24.

Stokes, Charles L., assignor of one-half to G. L. Erie, Los Angeles, Calif. Braking vehicles. 1,667,016; Apr. 24.

Straub, Fritz, Basel, and H. Schneider, Riehen, near Basel, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuff and making same. 1,667,333; Apr. 24.

Straw Ballast Distributor Corporation. (See Straw, Bernard W., assignor.)
Straw, Bernard W., Mount Airy, Md., assignor to Straw Ballast Distributor Corporation, Wilmington, Del. Ballast car. 1,667,085; Apr. 24.
Strickland, Clarence E., Atlantic City, N. J. Blade holder. 1,667,061; Apr. 24.
Strickler, Robert, and J. H. McJannett, Woodstock, Ontario, Canada. Railway gate. 1,666,982; Apr. 24.
Strombeck, John F., Moline, Ill. Game toy. 1,667,086; Apr. 24.
Stroud, William, assignor to Barr and Stroud, Limited, Glasgow, Scotland. Apparatus for the conversion of motion according to one law into motion according to another law. 1,667,640; Apr. 24.
Submarine Signal Corporation. (See Dorsey, Herbert G., assignor.)
Sullivan, Ernest W., Manteca, Calif. Truck loader. 1,666,983; Apr. 24.
Sullivan, Eugene. (See Miles, F. J., and Thompson, assignors.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Superior Engineering Company Limited. (See Wheeler, Robert C., assignor.)
Swan Heating Company. (See Pickering, C. H., and Campbell, assignors.)
Swan, Hylton, Upper Montclair, N. J., assignor to Bakelite Corporation, New York, N. Y. Making impressions. 1,667,447; Apr. 24.
Swanberg, Floyd L. (See Scoville, Eugene M., assignor.)
Swartz, Frank C. (See Jones, D. B., and Swartz.)
Sweeney, John T., Kingston, N. Y. Can opener. 1,667,360; Apr. 24.
Switzer, William G. (See Weir, A. W., Weingarten, and Switzer.)
Symington Company, The. (See Barrows, Donald S., assignor.)
Symmes, Ernest M. (See Smith, R. B., and Symmes.)
Szelts, Rudolph A., Hawthorne, Calif. Terminal for storage batteries. 1,667,704; Apr. 24.
Tamassy, Jay, New York, N. Y. Bag seal. 1,667,609; Apr. 24.
Taubel, Clarence H., Riverside, N. J. Stocking. Des. 74,991; Apr. 24.
Taylor, Eugene S. (See Young, Hugh E., assignor.)
Taylor Instrument Companies. (See Barr, Daniel R., assignor.)
Teetzel, Fred W., Los Angeles, Calif. Carton. Des. 74,992; Apr. 24.
Tessky, Karl, Esslingen-on-the-Neckar, Germany. Automatic control mechanism. 1,667,062; Apr. 24.
Tewsley, John W., Waverly, N. Y. Wear-compensating pin. 1,667,610; Apr. 24.
Texas Pacific Coal and Oil Company. (See Beattie, Robert, assignor.)
Thauss, Alfred, Cologne-Deutz, G. Mauthe, Cologne-Muhlheim, and A. Günther, Cologne-Riehl, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of new sulphonic derivatives of unsaturated fatty acids. 1,667,225; Apr. 24.
Thauss, Alfred, Cologne-Deutz, G. Mauthe, Cologne-Muhlheim, aand A. Günther, Cologne-Riehl, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparation of sulphonic acids of aralkylated unsaturated fatty acids. 1,667,226; Apr. 24.
Thelander, Cess, New York, N. Y. Manicuring implement. 1,667,570; Apr. 24.
Thomas, Percy H., Upper Montclair, N. J. System of electrical transmission and transformation. 1,667,087; Apr. 24.
Thompson, Alfred H. and R. F., Los Angeles, Calif. Apparatus for cleansing and disinfecting. 1,667,683; Apr. 24.
Thompson, Donald C. (See Miles, F. J., and Thompson.)
Thompson, Elbert I., Osage City, Mo. Bushing remover. 1,667,227; Apr. 24.
Thompson, Ernest S., Porterville, Calif. Grain separator. 1,667,611; Apr. 24.
Thompson, Harry H. (See Heise, G. W., and Thompson.)
Thompson, Henry W., Altamont, Ill. Farm gate. 1,667,334; Apr. 24.
Thompson, Louis W., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Flow meter and the like. 1,667,612; Apr. 24.
Thompson, Mary W., executrix. (See Thompson, Robert R.)
Thompson, Robert R., deceased, Los Angeles, Calif.; M. W. Thompson, executrix. Oscillating signal. 1,667,174; Apr. 24.
Thompson, Russell F. (See Thompson, Alfred H. and R. F.)
Thull, Frank J., Minneapolis, Minn., assignor to Union Special Machine Company, Chicago, Ill. Bag-sewing machine. Re16,944; Apr. 24.
Tilley, Frederick C., Hendon, London, England. Hydrocarbon-vapor burner. 1,667,613; Apr. 24.
Timbs, Edward, Los Angeles, assignor to Union Tool Company, Torrance, Calif. Clutch for three-speed draw works. 1,667,175; Apr. 24.
Timken-Detroit Axle Company, The. (See Garlent, Perce E., assignor.)
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Double corner and lock for containers. 1,667,017; Apr. 24.
Tipton, Edward F., assignor of one-fourth to V. P. King, and one-fourth to W. W. Bostwick, San Francisco, Calif. Car-track-groove cleaner. 1,667,402; Apr. 24.
Tipton, William D., Baltimore, Md. Rotary valve. 1,667,228; Apr. 24.
Titgen, Harry W., Philadelphia, Pa. Tuyére wind box. 1,667,571; Apr. 24.
Tockhorn, Hugo, Berlin-Tempelhof, Germany. Addressing device for printing presses for printing of fixed text with changeable address. 1,666,952; Apr. 24.
Tollerud, Guy, Austin, Minn. Automobile oil-heating device. 1,667,614; Apr. 24.
Torrance, Adam F., Kansas City, Mo. Duplex envelope. 1,667,176; Apr. 24.
Toyoda, Kiichiro, Nagoya, Japan. Shuttle-changing apparatus for automatic looms. 1,667,572; Apr. 24.
Treworgy, Harold E., Brunswick, Me. Kindler holder for wicks. 1,667,229; Apr. 24.
Trico Products Corporation. (See McCaleb, Albert G., assignor.)
Trimble, William O., Phalanx Station, assignor of one-third to F. Cappellia and one-third to C. J. Cappellia, Niles, Ohio. Car body and truck gauge. 1,667,684; Apr. 24.
Trout, Harry W., assignor to Cotswold Comfortable Company, Syracuse, N. Y. Cotton-treating apparatus. 1,667,177; Apr. 24.
Trumble, Milon J., Alhambra, Calif. Producing power. 1,667,403; Apr. 24.
Tua, Marius. (See Pedrazzo, E., and Tua.)
Turner, Archibald J., assignor to Wilson-Western Sporting Goods Co., Chicago, Ill. Inflatable ball. 1,667,088; Apr. 24.
Turner, James R., Jersey City, N. J. Fish-smoking apparatus. 1,667,573; Apr. 24.
Turner, James R., Jersey City, N. J. Smoking fish fillets. 1,667,574; Apr. 24.
Tuttle, Julius O. and R. C., Sioux City, Iowa. War game. 1,666,953; Apr. 24.
Tuttle, Roy C. (See Tuttle, Julius O. and R. C.)
Umbriaco, Frank, New York, N. Y. Accordion keyboard. 1,667,089; Apr. 24.
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Special Machine Company. (See Thull, Frank J., assignor.)
Union Switch & Signal Company, The. (See Beall, Charles K., assignor.)
Union Switch & Signal Company, The. (See Spray, Lester E., assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
Union Tool Company. (See Timbs, Edward, assignor.)
United Shoe Machinery Corporation. (See Ballard, Milton H., assignor.)
United Shoe Machinery Corporation. (See Gouldbourn, J., and Goddard, assignors.)
United States Chain & Forging Company. (See Bremer, Frederick G., assignor.)
United States Envelope Company. (See Cather, Charles E., assignor.)
Valentine, Irving R., Erie, Pa., assignor to General Electric Company. Bearing alloy. 1,667,641; Apr. 24.
Valentine, Robert D., assignor, by mesne assignments, to National Pole & Treating Company, Minneapolis, Minn. Pole-puncturing machine. 1,667,063; Apr. 24.
Van Der Vliet, Menno, assignor to International Harvester Company, Chicago, Ill. Tension-adjusting device. 1,667,362; Apr. 24.
Vandevelde, Paul V., Corona, N. Y. Burglar-alarm mounting. 1,667,018; Apr. 24.
Van Dorn, Herbert E., Chicago, Ill. Train-line coupler. 1,667,297; Apr. 24.
Van Dorn, Herbert E., Chicago, Ill. Railway drawbar. 1,667,298; Apr. 24.
Van Ee, Willem, and W. J. Geist, Long Beach, Calif. Tubing roller. 1,667,500; Apr. 24.
Van Huffel, Isadore J., Warren, Ohio. Electrical welding apparatus. 1,667,178; Apr. 24.
Van Husen, Norman. (See Jandus, H. S., and Van Husen.)
Vansickle, Melvin E., assignor, by mesne assignments, to Brandes Laboratories Inc., Newark, N. J. Gearing for instrument dials. 1,667,575; Apr. 24.
Van Valkenburgh, George H., Nashville, Tenn. Filing device. 1,667,576; Apr. 24.
Vanetti, Carlo, Milan, Italy. Prevention of cracking of castings. 1,667,642; Apr. 24.
Varkas, Aris, N., and J. B., and J. Paxon, Boise, Idaho. 1,667,335; Apr. 24.
Varkas, James B. (See Varkas, Aris, N., and J. B., and Paxon.)
Varkas, Nick. (See Varkas, Aris, N., and J. B., and Paxon.)
Vec Products Company. (See Slauson, Stephen A., assignor.)
Venzie, Frederick M., Philadelphia, Pa. Plaster-block composition. 1,667,019; Apr. 24.

Verare Corporation. (See Warhus, Oliver F., assignor.)
Vergeer, Albert W. P., assignor to The T. F. Moore Company, Inc., New York, N. Y. Display device. 1,667,694; Apr. 24.
Versare Corporation. (See Warhus, Oliver F., assignor.)
Vestal, Albert H., et al. (See Malone, Adolph W., assignor.)
Voices Incorporated. (See Aronson, Louis V., assignor.)
Voices Incorporated. (See De Cesare, Matteo, assignor.)
Voices Incorporated. (See Evans, Fred, assignor.)
Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Furring unit. 1,667,448; Apr. 24.
Vollert, Edwin W. (See Lange, C. H., and Vollert.)
Voltz, Théodore, assignor to Durant & Huquenin S. A., Basel, Switzerland. Chlorinated amines from chlorinated hydroaromatic ketimino compounds and making same. 1,667,336; Apr. 24.
Von Mechel, Lucas. (See Isler, M., and von Mechel.)
Von Webern, Guido, Dayton, Ohio, assignor, by mesne assignments, to Oxford Varnish Corporation, Detroit, Mich. Transferring apparatus and making same. 1,666,920; Apr. 24.
Von Wyslecki, Kurt, Lausanne, Switzerland. Self-induction coil. 1,667,705; Apr. 24.
Vulcan Oil Burner Corporation, The. (See Logan, James W., assignor.)
Waddell, Benson F., New York, N. Y. Diaphragm for a radio loud speaker. Des. 74,993; Apr. 24.
Wagner, Georg, Monsey, N. Y. Cleaning device. 1,667,464; Apr. 24.
Wagner, Maria S., New York, N. Y. Trousers. 1,667,363; Apr. 24.
Wagner, Maria S., New York, N. Y. Undergarment. 1,667,364; Apr. 24.
Walt, Justin F., New York, N. Y. Filter and filtering method. 1,667,465; Apr. 24.
Walbridge, Earl G. (See Germer, E. G., Walbridge, and Wysocki.)
Waldmann, Herbert W., Concord, Wis. Cultivator attachment. 1,667,643; Apr. 24.
Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,667,577; Apr. 24.
Wallace, Hugh, assignor to General Motors Research Corporation, Dayton, Ohio. Fuel-supply device. 1,667,090; Apr. 24.
Walpole, George S. (See Garrard, Charles G., assignor.)
Walsh, Timothy, H. S. Coover, and J. V. Abronski, Philadelphia, Pa. Fluid speed transmitting mechanism. 1,667,274; Apr. 24.
Ward, Arthur C., Oakmont, assignor to The Autocar Company, Ardmore, Pa. Adjustable oil burner. 1,667,365; Apr. 24.
Ward, Wilburt, Forest, Ohio. Stoker and the like. 1,667,230; Apr. 24.
Warhus, Oliver F., Albany, N. Y., assignor, by mesne assignments, to Versare Corporation. Double-truck vehicle. 1,666,921; Apr. 24.
Warhus, Oliver F., Albany, N. Y., assignor to Versare Corporation. Spring suspension for vehicles. 1,667,275; Apr. 24.
Warner, Chester E. (See Benjamin, R. B., and Warner.)
Warner, George B., New York, N. Y. Combined radiator cap and filling tube. Des. 74,994; Apr. 24.
Warner, Sterling W., Boundbrook, N. J., assignor to Pathe Exchange, Inc., New York, N. Y. Film reel. 1,667,501; Apr. 24.
Wayne Company. (See Baker, L. E., and Merriman, assignors.)
Wayne Company. (See De Luiz, E. R., and Mitchell, assignors.)
Weindel, Fred, jr. (See Price, C. S., and Weindel.)
Weingarten, Jacob. (See Weir, A. W., Weingarten, and Switzer.)
Weingarten, Joshua, Philadelphia, Pa. Shoe fastening. 1,667,276; Apr. 24.
Weir, Alexander W., Bronx, J. Weingarten, Brooklyn, and W. G. Switzer, Menands, N. Y. Automatic safety headlight. 1,667,366; Apr. 24.
Weisberg, Louis. (See Downs, C. R., and Weisberg.)
Weiss, George, Chicago, Ill. Paring machine. 1,667,502; Apr. 24.
Wemhoener, William F., St. Louis, Mo. Mail box. 1,667,503; Apr. 24.
Wendel, Otto G., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Pressure-responsive device. 1,667,020; Apr. 24.
Wendelstein, Carl M., North Attleboro, assignor to Bliss Brothers Company, Attleboro, Mass. Vanity case. 1,667,695; Apr. 24.
Wentink, Willem G. F. (See Reufel, H. M. H., de Jong, and Wentink.)
Werner, William R. (See Martin, M., and Werner.)
Wernis, Joseph, Detroit, Mich. Car coupling. 1,666,954; Apr. 24.
Western Electric Company. (See Boynton, Stanley E., assignor.)
Western Electric Company. (See Hofstetter, Robert, assignor.)
Western Gas Construction Company. (See Hayes, Fred B., assignor.)
Western Railway Equipment Company. (See Campbell, Sterling H., assignor.)
Western Wire & Iron Works. (See Martinek, Michael, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westmoreland Chemical & Color Company, The. (See Stewart, Henry C., assignor.)
Weston, William S., Columbia, S. C. Gyratory crusher. 1,667,337; Apr. 24.
Wheeler, Robert C., assignor to Superior Engineering Company Limited, Toronto, Ontario, Canada. Fuel-oil-burning apparatus. 1,667,404; Apr. 24.
Whitcomb, Alonzo W., Worcester, Mass. Rotary compressor. 1,667,615; Apr. 24.
Whitehurst, F. W., et al. (See Sherrod, Robert L., assignor.)
Whiting & Davis Company. (See Lynds, Fred H., assignor.)
Whiting & Davis Company. (See Soderstrom, Oscar, assignor.)
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,667,405; Apr. 24.
Wickwire Spencer Steel Company. (See Johnston, George M., assignor.)
Widmer, Harry A., assignor of one-half to A. Lewis (Finsbury) Limited, London, England. Fastener. 1,667,644; Apr. 24.
Wiggins, Edward J., assignor, by mesne assignments, to Electrical Research Laboratories, Inc., Chicago, Ill. Condenser. 1,666,922; Apr. 24.
Wightman & Hough Company. (See Hough, Herbert D., assignor.)
Wikle, George F., Milwaukee, Wis. Tire-building machine. 1,667,135; Apr. 24.
Wilde, Mifflin H., Martinsburg, W. Va. Pump. 1,667,179; Apr. 24.
Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Gear cutter. 1,667,299; Apr. 24.
Wilgus, John F., Casstown, Ohio. Cultivator. 1,667,367; Apr. 24.
Wilkinson, Eltoft W., Queens Village, assignor to Minerals Separation North American Corporation, New York, N. Y. Treatment of fine coal. 1,667,277; Apr. 24.
Wilkinson, John J. and M. A., Owego, N. Y. Chair. 1,667,406; Apr. 24.
Wilkinson, Michael A. (See Wilkinson, John J. and M. A.)
Willard, George H., assignor to Draper Corporation, Hopedale, Mass. Latching mechanism for intermittent thread-cutting temples. 1,667,466; Apr. 24.
Williams, John F. (See Osburn, Robert A., assignor.)
Williamson, Henry M., assignor to Johnson-Williamson Laboratories, Incorporated, Chicago, Ill. Translator of electrical energy. 1,667,021; Apr. 24.
Willis, Orvis C. (See Cox, O., and Willis.)
Willsea, Louis P., Rochester, N. Y. Delivery mechanism. 1,666,984; Apr. 24.
Wilson, William H., Los Angeles, Calif. Fireworks and blank for making the same. 1,667,180; Apr. 24.
Wilmanns, Christopher, Indianapolis, Ind. Smoker's stand. Des. 74,995; Apr. 24.
Wilson, Claud. (See Dennis, D. B., and Wilson.)
Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
Wilson-Western Sporting Goods Co. (See Turner, Archibald J., assignor.)
Winters, Stryker & Crampton. (See Crampton, Basil R., assignor.)
Wolcott, Frank E., West Hartford, Conn., assignor to The Frank E. Wolcott Manufacturing Co. Electrical heater. Des. 74,996; Apr. 24.
Wolcott, Frank E., Manufacturing Co., The. (See Wolcott, Frank E., assignor.)
Wolf, Georg, G. m. b. H. (See Loeck, Günther, assignor.)
Wolfe, Arthur W., assignor of one-half to The Diamond Ray Light Company, Chicago, Ill. Projecting apparatus. 1,667,278; Apr. 24.
Wolstenholme, Frederick S., Richmond, Va. Bulletin board. 1,667,091; Apr. 24.
Wömpner, Fritz, Geroldsgrun, near Nuremberg, assignor to the firm A. W. Faber, Stein, near Nuremberg, Germany. Magnifying device for slide rules. 1,667,449; Apr. 24.
Wood, Hugh C., San Francisco, Calif. Drilling machine. 1,667,022; Apr. 24.
Wood, James P., Bastrop, Tex. Attachment for pivot polishers. 1,667,231; Apr. 24.
Wood, James P., Bastrop, Tex. Pivot polisher. 1,667,232; Apr. 24.
Woodings, Emanuel, Oakmont, assignor to Woodings Forge & Tool Company, Verona, Pa. Rail anchor. 1,667,407; Apr. 24.
Woodings Forge & Tool Company. (See Woodings, Emanuel, assignor.)
Woodruff, W. Warren, Swarthmore, Pa. Protective device. 1,666,923; Apr. 24.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Wright, Harry J., and G. Shirk, Waynesburg, Pa. Transmission stand. 1,667,616; Apr. 24.
Wyllie, Robert, South Franklin, Mass. Cow-tail holder. 1,667,578; Apr. 24.

Wysocki, John M. (See Germer, E. O., Walbridge, and Wysocki.)
Yagle, Theodore F., Philadelphia, Pa. Motion-picture projector. 1,667,645; Apr. 24.
Yates, Nathaniel, jr., assignor to F. A. Neider Company, Augusta, Ky. Apparatus for forming double-headed nails. 1,667,338; Apr. 24.
Yerkey, Henry, Viola, Ill. Grinding machine. 1,667,064; Apr. 24.
Young, Hugh E., Chicago, Ill., assignor of one-half to E. S. Taylor. Garage. 1,667,467; Apr. 24.
Young, John D., et al. (See Davis, Robert R., assignor.)
Youngstown Steel Door Company, The. (See Barrows, Allan S., assignor.)
Zeiss-Jkon Aktiengesellschaft. (See Goldberg, E., and Nowicki, assignors.)
Zelbergiet, Abraham N., Oakland, Calif. Adjustable mounting for bench tool and the like. 1,667,504; Apr. 24.
Zelt, Elmer J., Fort Wayne, Ind., assignor to General Electric Company. Terminal block for current transformers. 1,667,617; Apr. 24.
Zerbe, Lewis E., Moneta, Calif., and M. T. Archer, Pittsburgh, Pa. Differential-gear mechanism. 1,667,131; Apr. 24.
Zimmerman, Frances C., Cincinnati, Ohio. Glue dissolver and converter. 1,667,339; Apr. 24.
Zimmerman, Harry C., Washington, D. C. Mount for guns. 1,667,132; Apr. 24.
Zimmerman, Victor, Holyoke, Mass. Game. 1,667,450; Apr. 24.
Zingali, Antoinette, New York, N. Y. Square for designing garment patterns. 1,667,646; Apr. 24.
Zitscher, Arthur. (See Laska, A. L., and Zitscher.)
Zweig, Harry A., Chicago, Ill. Electric polisher. 1,667,579; Apr. 24.
Zwiebel, Carl. (See Jones, R. G., and Zwiebel.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF APRIL, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator for hardening phenol urea products. H. V. Potter and J. W. Crump. 1,667,675; Apr. 24.
Accordion keyboard. F. Umbriaco. 1,667,089; Apr. 24.
Acetylene generator. E. M. Evieth. 1,667,346; Apr. 24.
Acid manufacture, Phosphoric-. I. Hechenbleikner. 1,667,549; Apr. 24.
Acids of aralkylated unsaturated fatty acids. Preparation of sulphonic. A. Thauss, G. Mauthe, and A. Günther. 1,667,226; Apr. 24.
Acids, Reduction of arsonic. A. Binz and C. Räth. 1,667,238; Apr. 24.
Acoustic device. E. Gerlach. 1,667,149; Apr. 24.
Addressing device for printing presses for printing of fixed text with changeable address. H. Tockhorn. 1,666,952; Apr. 24.
Advertising device. K. O. Leon. 1,667,210; Apr. 24.
Aeroplane amplifier. S. E. Adair and B. Knapp. 1,667,300; Apr. 24.
Agricultural machine, Interchangeable. F. Somogyi. 1,667,568; Apr. 24.
Agriculture. A. J. Mason. 1,667,428; Apr. 24.
Aircraft. C. S. Hall. 1,667,002; Apr. 24.
Airplane stabilizer. C. J. Smith. 1,667,224; Apr. 24.
Alcohol-carboxylic-acid resin and making same, Water-resistant polyhydric. C. R. Downs and L. Weisberg. 1,667,197; Apr. 24.
Alcohol resins, Water-resistant carboxylic acid-polyhydric. C. R. Downs and L. Weisberg. 1,667,198; Apr. 24.
Alkali fusion. V. R. Kokatnur. 1,667,480; Apr. 24.
Alkaline-earth-metal sulphides from alkaline-earth-metal sulphates, Obtaining. T. H. Lichtenberger and K. Flor. 1,667,423; Apr. 24.
Alkyl derivatives of diphenolisatine and making same. A. Blankart. 1,667,239; Apr. 24.
Alloy, Bearing. I. R. Valentine. 1,667,641; Apr. 24.
Ammonia-oxygen mixtures, Catalytic combustion of. I. W. Cederberg. 1,666,958; Apr. 24.
Ammonia synthesis process and catalyst. A. T. Larson. 1,667,322–3; Apr. 24.
Amplifier circuit, Electrical. L. M. Hull. 1,667,710; Apr. 24.
Amusement device. E. A. Christoph. 1,667,101; Apr. 24.
Anæsthetizing apparatus. J. A. Heidbrink. 1,667,113; Apr. 24.
Anchor, Rail. E. Woodings. 1,667,407; Apr. 24.
Annunciator for taximeters. F. Sawyer. 1,667,131; Apr. 24.
Antenna systems, Reducing body-capacity effects on loop-. H. C. Silent. 1,666,947; Apr. 24.
Antenna, Underground. N. Kadel. 1,667,008; Apr. 24.
Antifriction agitator. J. B. Hinshaw. 1,667,551; Apr. 24.
Anvil for bit-dressing hammers. C. H. Bergquist. 1,667,236; Apr. 24.
Arch support. J. Abramowitz. 1,666,924; Apr. 24.
Arch support. E. Sessler. 1,667,359; Apr. 24.
Arch supporter. F. P. McCord. 1,667,328; Apr. 24.
Armature-winding machine. R. G. Jones and C. Zwiebel. 1,667,070; Apr. 24.
Ash tray. B. J. Hoos. 1,667,663; Apr. 24.
Ash tray. S. Kirzner. Des. 74,979; Apr. 24.
Ash tray. J. L. Pinard. Des. 74,998; Apr. 24.
Ash tray, Combination holder and cigarette-extinguishing. H. Evens. 1,667,592; Apr. 24.
Attenuation of materials. M. E. Evans. 1,666,928; Apr. 24.
Automobile jack. E. J. McCarty. 1,666,971; Apr. 24.
Automobile signal. G. A. Friedrich. 1,667,470; Apr. 24.
Automobile signal. L. Martino. 1,667,165; Apr. 24.
Automobile theft lock. E. R. Knight. Re16,945; Apr. 24.
Automobile wheel. A. B. Couture. 1,667,344; Apr. 24.
Automobiles, Locking device for. M. J. Chaplin. 1,667,584; Apr. 24.
Automobiles, Signaling device. A. F. Remter. 1,667,050; Apr. 24.
Azodyestuff derived from 1:8-naphthalene dicarboxylic acid and making the same. M. Isler and L. Von Mechel. 1,667,818; Apr. 24.
Azodyestuffs and making same. H. Fritzsche, E. Krummenacher, H. Gubler, and O. Kaiser. 1,667,312; Apr. 24.
Azodyestuffs and making same. A. L. Laska and A. Zitscher. 1,667,667; Apr. 24.
Bag: *See*—
Clothespin bag.
Bag or case, Hand. G. C. Snell. 1,667,014; Apr. 24.
Bag seal. J. Tamassy. 1,667,609; Apr. 24.
Bags, Making and filling. A. M. Bates. 1,666,886; Apr. 24.
Balance, Automatic. C. Peccaud. 1,667,603; Apr. 24.
Ball: *See*—
Inflatable ball.
Banjo hand rest. J. Laterra and F. Joy. 1,667,324; Apr. 24.
Baskets, Making candy. A., N., and J. B. Varkas, and J. Paxon. 1,667,335; Apr. 24.
Batteries, Terminal for storage. R. A. Szeits. 1,667,704; Apr. 24.
Battery-terminal clip. E. M. Bailey. 1,667,581; Apr. 24.
Bearing for weighing apparatus, Knife-edge. F. Nauss. 1,667,635; Apr. 24.
Bearing, Roller. J. W. Foley. 1,667,348; Apr. 24.
Bearings, Closure for. T. V. Buckwalter. 1,667,507; Apr. 24.
Beater, Rug or carpet. D. P. Ransom. 1,667,605; Apr. 24.
Bed, Mortuary. M. E. Ramsey. 1,667,080; Apr. 24.
Belt attachment. J. H. Monahan. 1,666,975; Apr. 24.
Belt, Feeding or displacing. A. J. Keiser. 1,667,120; Apr. 24.
Belt strap. H. M. Ballou. 1,667,696; Apr. 24.
Belt-tightening-idler mount. W. S. Ireland. 1,667,117; Apr. 24.
Bending machine. T. F. Philippi. 1,666,909; Apr. 24.
Bin gate. R. S. Moore. 1,666,908; Apr. 24.
Binder, Loose-leaf. H. D. Cottrell. 1,667,511; Apr. 24.
Biscuit-handling machine. F. G. Salerno. 1,667,692; Apr. 24.
Bit: *See*—
Drill bit. Drilling bit.
Blade holder. C. E. Strickland. 1,667,061; Apr. 24.
Block: *See*—
Concrete hanger block.
Blowtorch. B. Martin. 1,667,420; Apr. 24.
Board: *See*—
Bulletin board. Shoveling board.
Scrubbing board.
Boat construction, Die-cast. L. Mediavilla. 1,667,561; Apr. 24.
Boiler: *See*—
Locomotive boiler.
Boiler cleaner. A. G. Mattsson. 1,666,905; Apr. 24.
Boiler compound. W. M. Neeley. 1,667,670; Apr. 24.
Boiler-tube cleaner. P. Ruck and M. Schutz. 1,667,169; Apr. 24.
Boilers, Water-feed-control system for. I. E. Smith. 1,667,057; Apr. 24.
Book rest. F. D. Sholin. 1,667,171; Apr. 24.
Bottle-draining device, Milk-. A. J. Lippold. 1,667,075; Apr. 24.
Bottle support, Milk-. C. and C. Franklin. 1,667,032; Apr. 24.
Bottle-washing apparatus. M. J. Kreutzer. 1,667,597; Apr. 24.
Box: *See*—
Film box. Tuyère wind box.
Mail box.
Box. S. Rappaport. 1,666,913; Apr. 24.
Bowl or similar article, Metal. E. T. Beck. Des. 74,960; Apr. 24.
Bowling-alley mat. F. Kselimann. 1,666,938; Apr. 24.
Bracket. R. B. Peters. 1,667,604; Apr. 24.
Brake. R. S. Sanford. 1,667,395; Apr. 24.
Brake-chain slack, Device for taking up. J. McMullen. 1,667,560; Apr. 24.
Brake shoes, Making. A. Y. Dodge. 1,667,375; Apr. 24.
Brush guard. P. H. Robinson. 1,667,082; Apr. 24.
Brush kit. C. A. Oddo. 1,667,044; Apr. 24.
Bucket hanger. F. F. Light. 1,667,211; Apr. 24.
Building units, Method and apparatus for making. C. L. Norton. 1,667,434; Apr. 24.
Bulletin board. F. S. Wolstenholme. 1,667,091; Apr. 24.
Bumper, Automobile. F. G. Bremer. 1,667,528–9; Apr. 24.
Bumper structure. F. G. Bremer. 1,667,530; Apr. 24.
Bumper, Vehicle. H. S. Jandus and N. van Husen. Des. 74,977–8; Apr. 24.
Burglar-alarm mounting. P. V. Vandevelde. 1,667,018; Apr. 24.
Burner: *See*—
Gas burner. Pilot burner.
Oil burner.
Burners, Flow regulator for oil. J. G. Gilmore and A. J. Frame. 1,667,314; Apr. 24.
Bushing remover. E. I. Thompson. 1,667,227; Apr. 24.
Button, Collar. O. J. Bergeron. 1,667,098; Apr. 24.

Cabinet, Dispensing. F. H. Bachelder. 1,667,523; Apr. 24.
Cabinet for dishwashing and similar purposes, Splash-proof. J. J. Kehoe, Jr., W. C. T. Morsch, and E. M. De Sherbinin. 1,667,119; Apr. 24.
Cabinet, Record. F. Nigra. 1,667,216; Apr. 24.
Cabinet, Toilet. O. S. Pearson. 1,667,564; Apr. 24.
Cable clamp. A. O. Austin. 1,666,885; Apr. 24.
Cable-conveyer sprocket. R. L. Smallwood. 1,666,950; Apr. 24.
Cable grip. A. H. Nero. 1,667,636; Apr. 24.
Cable head. J. E. Sharp. 1,666,980; Apr. 24.
Cable terminal, Parkway. W. H. B. Lavarack and D. W. Richards. 1,667,555; Apr. 24.
Cake stand. A. F. Saunders. Des. 74,990; Apr. 24.
Calcium arsenate, Making. W. C. Piver. 1,667,490; Apr. 24.
Calcium arsenate, Making commercial. W. C. Piver. 1,667,491; Apr. 24.
Can-filling machine. O. H. Hansen. 1,666,930–1; Apr. 24.
Can opener. J. T. Sweeney. 1,667,360; Apr. 24.
Candle-holding bracket. A. Paul. Des. 74,986; Apr. 24.
Candy jar. A. S. and W. B. Adams and P. S. Moyer. Des. 74,956; Apr. 24.
Candy wrapper, Stick-. C. R. Luce. Des. 74,982; Apr. 24.
Cap closure, Screw-. J. S. Hardiman. 1,667,003; Apr. 24.
Capsules for filling, Handling. G. L. Brown. 1,667,066; Apr. 24.
Car, Ballast. B. W. Straw. 1,667,085; Apr. 24.
Car body and truck gauge. W. O. Trimble. 1,667,684; Apr. 24.
Car coupler. W. Kelso. 1,667,071; Apr. 24.
Car coupling. J. Wernis. 1,666,954; Apr. 24.
Car underframe. C. F. Frede. 1,666,929; Apr. 24.
Carboxylic acid-polyhydric alcohol resin, Water-resistant. C. R. Downs and L. Weisberg. 1,667,199–200; Apr. 24.
Carburetor systems, Apparatus for regulating mixture formation in. W. E. Ernst. 1,666,892; Apr. 24.
Carburetors, Thermostatic controlling device for. E. N. Sorensen. 1,667,569; Apr. 24.
Carrier: *See*—
Luggage carrier.
Carton. F. W. Teetzel. Des. 74,992; Apr. 24.
Case: *See*—
Cigarette case. Refrigerating case.
Cigarette-holder case. Vanity case.
Casting machine, Metal-. H. C. Poske. 1,666,910; Apr. 24.
Castings, Prevention of cracking of. C. Vanzetti. 1,667,642; Apr. 24.
Cathode and electron tube containing same, Glow. E. Friederich. 1,667,471; Apr. 24.
Cementing wells, Device for. A. Boynton. 1,667,640; Apr. 24.
Centrifugal. C. Schaum. 1,667,493; Apr. 24.
Ceramic products, Manufacturing. L. Kern. 1,666,936; Apr. 24.
Chain, Sprocket. T. J. Hughes. 1,667,259; Apr. 24.
Chair. J. J. and M. A. Wilkinson. 1,667,406; Apr. 24.
Charge-forming device. A. B. Knight. 1,667,074; Apr. 24.
Chlorinated amines from chlorinated hydroaromatic ketimino compounds and making same. T. Voltz. 1,667,336; Apr. 24.
Churns and butterworkers, Gudgeon structure for. L. F. Heitz. 1,667,004; Apr. 24.
Cigarette case. E. B. Hough. 1,666,902; Apr. 24.
Cigarette-holder case. E. E. Brosius. 1,667,065; Apr. 24.
Cigarette-packing machine. M. Bäumi. 1,666,986; Apr. 24.
Circuit closer, Electric. E. M. Kyle and E. F. Hurley. 1,667,037; Apr. 24.
Circuit, Grid-coupled cell. C. F. Jenkins. 1,667,383; Apr. 24.
Circuit, Grid-leak cell. C. F. Jenkins. 1,667,384; Apr. 24.
Circuits, Controlling or tripping apparatus for alternating-current electric. H. W. Clothier and W. A. A. Burgess. 1,667,655; Apr. 24.
Clamp: *See*—
Cable clamp. Cross-arm clamp.
Connection-box clamp. Wire clamp.
Cleaner: *See*—
Boiler cleaner. Eraser cleaner.
Boiler-tube cleaner. Vacuum cleaner.
Cleaning and sizing apparatus. E. O'Toole. 1,667,331; Apr. 24.
Cleaning device. G. Wagner. 1,667,464; Apr. 24.
Cleansing and disinfecting, Apparatus for. A. H. and R. F. Thompson. 1,667,683; Apr. 24.
Clip: *See*—
Battery-terminal clip. Contact clip.
Clock attachment. W. B. Atkinson. 1,667,685; Apr. 24.
Clock, Silent secondary. T. S. Casner. 1,667,308; Apr. 24.
Closet: *See*—
Safety closet.
Closure. D. Stern. 1,667,084; Apr. 24.
Closure for sheet-metal containers. C. T. Draper. 1,667,697; Apr. 24.
Cloth cutter. H. N. James. 1,666,969; Apr. 24.
Clothes brush, Electric. R. Krug. 1,667,554; Apr. 24.
Clothespin bag, Sliding. W. H. Orth. 1,667,389; Apr. 24.
Clutch for three-speed draw works. E. Timbs. 1,667,175; Apr. 24.
Clutch, Friction. E. A. Beyl. 1,666,956; Apr. 24.
Coal, Treatment of fine. E. W. Wilkinson. 1,667,277; Apr. 24.
Cock and pipe holder, Angle-. L. A. Hoerr. 1,667,005; Apr. 24.
Cock holder, Angle-. F. K. Nabenicht. 1,666,896; Apr. 24.
Coil, Self-induction. K. von Wysiecki. 1,667,705; Apr. 24.
Color of liquids by reflected and transmitted light, Apparatus for comparing the. H. A. Ellis. 1,667,249; Apr. 24.
Colorimeter. R. E. Klett. 1,667,478; Apr. 24.
Comb: *See*—
Fountain comb.
Combustible materials, Obtaining valuable products from. A. H. Pehrson. 1,667,217; Apr. 24.
Compressor. B. S. Aikman. 1,667,233; Apr. 24.
Compressor, Rotary. A. W. Whitcomb. 1,667,615; Apr. 24.
Concrete hanger block. H. G. Carlson. 1,667,532–3; Apr. 24.
Condensation product from olefines and hydrocarbons of the naphthalene series and making the same. R. Michel. 1,667,214; Apr. 24.
Condenser. S. H. Smith. 1,667,058; Apr. 24.
Condenser. E. J. Wiggins. 1,666,922; Apr. 24.
Connecter. R. R. Macdonald. 1,667,485; Apr. 24.
Connecter. R. E. Powell. 1,667,702; Apr. 24.
Connection-box clamp. W. Goetzelman. 1,667,688; Apr. 24.
Contact clip, Terminal. J. Sachs. 1,666,978; Apr. 24.
Contact connecter, Liquid. E. H. Gehm. 1,667,660; Apr. 24.
Contact finger. F. E. Case. 1,667,652; Apr. 24.
Contact switch, Mercury-. I. E. Smith. 1,667,056; Apr. 24.
Container. A. E. Mullen. 1,667,215; Apr. 24.
Container and display device. E. A. Lee. 1,667,482; Apr. 24.
Container, Carboy-shipping. O. Z. Brewer. 1,667,029; Apr. 24.
Container, Display. E. W. Fehrenkamp. 1,667,376; Apr. 24.
Container, Metal. A. J. Chamberlain. 1,667,284; Apr. 24.
Container or box. L. A. Lupien. 1,667,354; Apr. 24.
Containers, Double corner and lock for. E. O. Tinsley. 1,667,017; Apr. 24.
Control mechanism, Automatic. K. Tessky. 1,667,062; Apr. 24.
Conveying mechanism. C. Guerltey. 1,667,349; Apr. 24.
Cook stove or range, Combined gas and electric. F. C. Alber. 1,667,521; Apr. 24.
Copperas, Making. H. C. Stewart. 1,667,693; Apr. 24.
Core-making machine. F. Pietrusiak. 1,667,079; Apr. 24.
Corn, Apparatus for facilitating the treatment of. O. H. Hansen. 1,666,932; Apr. 24.
Corn silker. O. H. Hansen. 1,666,933; Apr. 24.
Cotton-cleaning machine. S. H. Assiter. 1,667,505; Apr. 24.
Cotton-treating apparatus. H. W. Trout. 1,667,177; Apr. 24.
Coupler. H. Luft. 1,667,557; Apr. 24.
Coupler, Rod. J. D. Fitzgerald. 1,667,311; Apr. 24.
Coupling: *See*—
Car coupling. Pipe coupling.
Coupling member or link. T. S. Edeburn. 1,667,541; Apr. 24.
Cow-tail holder. R. Wyllie. 1,667,578; Apr. 24.
Crimper. W. S. Lewis. 1,667,556; Apr. 24.
Cross-arm clamp. A. W. Malone. 1,667,558; Apr. 24.
Cultivator. S. K. Dennis. 1,667,374; Apr. 24.
Cultivator. J. F. Wilgus. 1,667,367; Apr. 24.
Cultivator attachment. H. W. Waldmann. 1,667,648; Apr. 24.
Cultivator, Tractor. B. R. Benjamin and C. R. Raney. 1,667,371; Apr. 24.
Curler, Hair. M. Boxer. 1,667,188; Apr. 24.
Current motor. J. R. Meekins. 1,667,634; Apr. 24.
Curtain-pole bracket or similar article. J. O. Crawford. Des. 74,965; Apr. 24.
Curtain-pole end or similar article. J. O. Crawford. Des. 74,962–4; Apr. 24.
Curtain-pole end or similar article. J. O. Crawford. Des. 74,967; Apr. 24.
Curtain support. J. N. Henry. 1,667,520; Apr. 24.
Curtain tassel or similar article. J. O. Crawford. Des. 74,966; Apr. 24.
Cutter: *See*—
Cloth cutter. Gear cutter.
Cutting machine. M. H. Ballard. 1,667,184; Apr. 24.
Cystoscopes, gastroscopes, and the like, Optical tube for. G. Loeck. 1,667,630; Apr. 24.
Dehydrator. H. B. and F. E. Hartman. 1,667,316; Apr. 24.
Delivery mechanism. L. P. Willsea. 1,666,984; Apr. 24.
Demagnetizer. J. A. Llewellyn. 1,667,422; Apr. 24.
Dental floss holder. L. L. Sherwood. 1,667,134; Apr. 24.
Derrick. N. B. Biggs. 1,667,582; Apr. 24.
Desk set and picture frame, Combined. H. A. Kretschmer. Des. 74,980; Apr. 24.
Dinoyl isothiocarbamide ether and producing same. H. Schotte. 1,667,053; Apr. 24.

Discharge valve for ice-machine compressors. E. R. De Luiz and H. L. Mitchell. 1,667,143; Apr. 24.
Display device. A. W. P. Vergeer. 1,667,694; Apr. 24.
Display stand. J. W. Megee. 1,667,669; Apr. 24.
Display stand. R. L. Poulton. Des. 74,987; Apr. 24.
Distribution, System of. O. Pollok. 1,667,674; Apr. 24.
Doll and radio set, Combination. C. B. Sherlock. 1,666,946; Apr. 24.
Door, Electrically-operated. H. Rowntree. 1,666,916; Apr. 24.
Door lock, Sliding-. M. Martinek. 1,667,600; Apr. 24.
Door, Metallic car. A. S. Barrows. 1,667,341; Apr. 24.
Drag, Adjustable road. A. T. Bass. 1,667,301; Apr. 24.
Dredging apparatus. J. Ream. 1,667,219; Apr. 24.
Dressing. E. J. Schelling. 1,667,222; Apr. 24.
Drill. H. Mecom. 1,667,077; Apr. 24.
Drill bit. C. H. Hanson. 1,666,898; Apr. 24.
Drilling bit. Z. B. Higdon. 1,667,155; Apr. 24.
Drilling machine. H. C. Wood. 1,667,022; Apr. 24.
Drills, Detachable handle for. F. H. Blanding. 1,667,280; Apr. 24.
Drills, Handle attachment for. S. Seaver. 1,667,271; Apr. 24.
Dry cell. G. W. Heise and H. H. Thompson. 1,667,317; Apr. 24.
Drying hay, grain, and the like, Process and apparatus for. A. W. Koon. 1,667,666; Apr. 24.
Dyestuff and making same, Vat. J. G. Dinwiddie. Re-16,939; Apr. 24.
Dyestuffs and making same. F. Straub and H. Schneider. 1,667,338; Apr. 24.
Dyeing artificial silk. J. Baddiley, P. Chorley, and C. Butler. 1,667,524; Apr. 24.
Dyes derived from dehydro-thio-p-toluidine-sulphonic acid and resorcinol and making same, Trisazo. B. Mayer and J. Grimmer. 1,667,327; Apr. 24.
Dynamite explosive, Gelatin-. R. B. Smith and E. M. Symmes. 1,667,083; Apr. 24.
Ejecting holder. G. S. Keck. 1,667,118; Apr. 24.
Electric conductor. J. R. Coe. 1,667,510; Apr. 24.
Electric converting apparatus. J. E. Calverley and W. E. Highfield. 1,667,242; Apr. 24.
Electric heater. W. W. Hicks and A. J. Kercher. 1,667,257; Apr. 24.
Electric motor. E. F. W. Alexanderson. 1,667,647; Apr. 24.
Electric rolling-mill drive with Leonard control. E. Riecke. 1,667,678; Apr. 24.
Electric switch. J. J. Egan. 1,667,247; Apr. 24.
Electric switch. C. E. Ives. 1,667,158; Apr. 24.
Electric switch. J. R. Marshall. 1,667,293; Apr. 24.
Electrical-apparatus casings, Pressure-relief pipe for. L. H. Burnham. 1,667,621; Apr. 24.
Electrical connecter. S. Cohen. 1,666,991; Apr. 24.
Electrical energy, Translator of. H. M. Williamson. 1,667,021; Apr. 24.
Electrical heater. F. E. Wolcott. Des. 74,996; Apr. 24.
Electromagnet. C. L. Jauss. 1,666,970; Apr. 24.
Elevator: *See*—
Fluid elevator. Portable elevator.
Elevator. J. Darby. 1,667,069; Apr. 24.
Elevator. J. Darby and C. W. Old. 1,667,068; Apr. 24.
Enamel for coating cans. R. H. Lueck. 1,667,212; Apr. 24.
Engine: *See*—
Internal-combustion engine.
Engines, Cooling system for internal-combustion. J. A. Kinnard. 1,667,207; Apr. 24.
Engines, Temperature-regulating means for liquid cooled. W. H. Driscoll. 1,667,458; Apr. 24.
Engraving machine, Mold-. A. P. Jahant. 1,667,036; Apr. 24.
Envelope. W. H. Hollar, jr. 1,667,258; Apr. 24.
Envelope, Duplex. C. E. Cather. 1,666,957; Apr. 24.
Envelope, Duplex. A. F. Torrance. 1,667,176; Apr. 24.
Envelope opener. L. W. Ender. 1,667,659; Apr. 24.
Eraser cleaner. F. B. Meyers and H. W. Darney. 1,667,431; Apr. 24.
Excavating machine. O. Hetlesater. 1,667,381; Apr. 24.
Exchange of heat, Apparatus for. V. Mauck. 1,667,430; Apr. 24.
Exhaust-tube remover. L. A. Maurer. 1,667,601; Apr. 24.
Extension table. J. Bellocchio. 1,667,411; Apr. 24.
Fabrics, Method and apparatus for coating. R. S. Allen. 1,667,408; Apr. 24.
Fans, Variable-speed drive for exhaust. F. G. Sargent. 1,666,917; Apr. 24.
Farm gate. H. W. Thompson. 1,667,334; Apr. 24.
Fastener. H. A. Widmer. 1,667,644; Apr. 24.
Fastener, Paper-marker. M. Budny. 1,667,241; Apr. 24.
Fasteners and tabs therefor, Method and apparatus for manipulating. V. H. Bodle. 1,667,527; Apr. 24.
Fastening and riveting apparatus, Belt. S. D. Myers. 1,667,294; Apr. 24.
Fastening device for fencing, etc. B. K. Rose. 1,667,463; Apr. 24.
Fastening, Shoe. J. Weingarten. 1,667,276; Apr. 24.
Faucet. W. F. Albrecht. 1,667,580; Apr. 24.
Feathering paddle wheel. E. J. Clark. 1,667,140; Apr. 24.
Fence post. H. Lindensmith. 1,667,424; Apr. 24.
Filing device. G. H. Van Valkenburgh. 1,667,576; Apr. 24.
Film bobbins, Preventing premature uncoiling of. G. L. Chanler. 1,667,536; Apr. 24.
Film box. E. Goldberg and M. Nowicki. 1,667,110; Apr. 24.
Film-developing machine. F. E. Garbutt and L. M. Griffith. 1,666,999; Apr. 24.
Film hanger, Photographic-. H. Gollomb. 1,666,895; Apr. 24.
Film reel. S. W. Warner. 1,667,501; Apr. 24.
Filter and filtering method. J. F. Walt. 1,667,465; Apr. 24.
Firearm-holding and trigger-actuating device. A. P. Stark. 1,667,060; Apr. 24.
Firearms, Barrel-cooling device for. J. M. Browning. 1,666,887; Apr. 24.
Fireplaces with highly-inflammable loose fuel, Apparatus for charging. E. Simon. 1,667,703; Apr. 24.
Fireworks and blank for making the same. W. H. Willson. 1,667,180; Apr. 24.
Fish fillets, Smoking. J. R. Turner. 1,667,574; Apr. 24.
Fish flake. G. M. Johnston. 1,667,553; Apr. 24.
Fish-smoking apparatus. J. R. Turner. 1,667,573; Apr. 24.
Floor-laying device. P. Galassi. 1,667,313; Apr. 24.
Flooring, Apparatus for manufacturing matched. C. R. McLaughlin. 1,667,668; Apr. 24.
Flue cleaning, cutting, and handling machine. J. T. McGrath. 1,667,388; Apr. 24.
Fluid elevator. D. B. Dennis and C. Wilson. 1,666,962; Apr. 24.
Flume construction. R. E. Barnard. 1,667,234; Apr. 24.
Folding mechanism, Sheet-. E. M. Barber. 1,667,369–70; Apr. 24.
Fountain comb. F. C. Mach. 1,667,631; Apr. 24.
Frame: *See*—
Window frame.
Frequency changer. S. P. Nixdorff. 1,667,672; Apr. 24.
Fuel briquette and making same. J. S. Robeson. 1,667,358; Apr. 24.
Fuel briquettes, Manufacture of. E. W. Bowen. 1,667,804; Apr. 24.
Fuel-oil-burning apparatus. R. C. Wheeler. 1,667,404; Apr. 24.
Fuel-supply device. H. Wallace. 1,667,090; Apr. 24.
Furnace: *See*—
Gas floor furnace.
Furnace. O. H. Gray and C. E. Murdock. 1,667,001; Apr. 24.
Furring unit. G. F. Voight. 1,667,448; Apr. 24.
Fusible switch. J. Sachs. 1,666,979; Apr. 24.
Game. S. T. Farrell. 1,667,147; Apr. 24.
Game. C. H. Lange and E. W. Vollert. 1,667,481; Apr. 24.
Game, V. Zimmerman. 1,667,450; Apr. 24.
Game, Educational card. H. Douglas. 1,666,996; Apr. 24.
Game, Football. S. T. Farrell. 1,667,148; Apr. 24.
Game, War. J. O. and R. C. Tuttle. 1,666,953; Apr. 24.
Garage. H. E. Young. 1,667,467; Apr. 24.
Garment. M. Kosofsky. 1,667,161; Apr. 24.
Garment supporter. G. C. Moore. 1,667,432; Apr. 24.
Gas and air mixing device, Proportional. J. L. Kluppel. 1,667,072; Apr. 24.
Gas and liquid-contact apparatus. C. M. Alexander. 1,667,136; Apr. 24.
Gas burner. H. D. Schrader. 1,667,133; Apr. 24.
Gas-expelling device. L. G. Simonsen. 1,667,443; Apr. 24.
Gas floor furnace. H. E. Dickinson. 1,667,625; Apr. 24.
Gas lines, Sealing valve for. H. B. Hatton, jr. 1,667,034; Apr. 24.
Gas, Making carbureted water. F. B. Hayes. 1,667,518; Apr. 24.
Gas, Production of. H. H. Smith. 1,667,272; Apr. 24.
Gas separator. J. F. Borden. 1,667,139; Apr. 24.
Gas-treating process. C. Lourens. 1,667,426; Apr. 24.
Gasoline substitute, Making. J. B. Neuendorff. 1,666,976; Apr. 24.
Gate: *See*—
Bin gate. Railway gate.
Farm gate. Sand gate.
Railway-crossing gate.
Gauge: *See*—
Liquid gauge.
Gauge and creaser, Dressmaker's. M. Griffith. 1,667,150; Apr. 24.
Gear cutter. E. Wildbaber. 1,667,299; Apr. 24.
Gear, Draft. S. H. Campbell. 1,667,030; Apr. 24.
Gear, Draft. W. H. Cotton. 1,666,888; Apr. 24.
Gear mechanism, Differential-. L. E. Zerbe and M. T. Archer. 1,667,181; Apr. 24.
Gear-wheel teeth, Grinding of. H. N. Asbridge. 1,666,955; Apr. 24.
Gearing for instrument dials. M. E. Vansickle. 1,667,575; Apr. 24.
Generator: *See*—
Acetylene generator.
Girders and beams, Seat for. R. Boldt. 1,667,619; Apr. 24.
Glare shield. H. G. Egley. 1,667,658; Apr. 24.
Glass and producing the same, Sheet of. J. L. Drake. 1,667,146; Apr. 24.
Glass, Drawing sheet. H. N. Diederichs. 1,667,145; Apr. 24.
Glue and making same. P. Kreismann. 1,667,073; Apr. 24.

Glue dissolver and converter. F. C. Zimmerman. 1,667,339; Apr. 24.
Grain separator. E. S. Thompson. 1,667,611; Apr. 24.
Graphic-meter chart and drive. E. G. Ralston. 1,667,492; Apr. 24.
Gravity-discharge hoppers, Mechanism for actuating the gates of. W. J. Burnett. 1,667,468; Apr. 24.
Grille for lighting fixtures or similar articles, Italian-effect. H. R. Holdeman. Des. 74,975; Apr. 24.
Grinder, Cylinder. M. C. Hutto. 1,667,157; Apr. 24.
Grinder, Hob. C. G. Olson. 1,667,488; Apr. 24.
Grinding machine. H. Yerkey. 1,667,064; Apr. 24.
Grinding machine, Valve-. E. P. O'Donnell. 1,667,602; Apr. 24.
Groove cleaner, Car-track-. E. F. Tipton. 1,667,402; Apr. 24.
Guard for centrifugal machines, Safety. C. H. Garland. 1,667,416; Apr. 24.
Guide device, Dimension. E. W. Smith. 1,667,444; Apr. 24.
Guns, Mount for. H. C. Zimmerman. 1,667,182; Apr. 24.
Guns, Muzzle attachment for. W. R. Bluehdorn. 1,667,186; Apr. 24.
Gyratory crusher. W. S. Weston. 1,667,337; Apr. 24.
Hairpin. S. O. Claytor. 1,667,310; Apr. 24.
Hammer, Mechanical. R. Goldschmidt. 1,667,546; Apr. 24.
Hand bag, Lady's. M. Arnold. Des. 74,957; Apr. 24.
Handle for coffeepots or the like. F. W. Hechler. 1,667,519; Apr. 24.
Handle for traveling bags, suitcases, etc. M. B. Shwayder. 1,667,567; Apr. 24.
Handling fruit. P. A. Scherer. 1,667,132; Apr. 24.
Hanger: *See*—
Bucket hanger. Outlet-box hanger.
Film hanger.
Harrow, Tractor disk. C. W. Robinson. 1,667,392; Apr. 24.
Hat, Lady's. M. Davidson. 1,667,415; Apr. 24.
Headlight, Automatic safety. A. W. Weir, J. Weingarten, and W. G. Switzer. 1,667,366; Apr. 24.
Headlight, Automobile. C. B. Fairchild. 1,667,288; Apr. 24.
Heat-responsive apparatus. A. J. Loepsinger. 1,667,425; Apr. 24.
Heater: *See*—
Electric heater.
Heating apparatus. A. A. Landon. 1,667,164; Apr. 24.
Heating device, Automobile oil-. G. Tollerud. 1,667,614; Apr. 24.
Heating unit. A. B. Modine. 1,666,907; Apr. 24.
Heel, Composite leather. M. B. Ketcham. 1,667,386; Apr. 24.
Hinge. B. R. Crampton. 1,667,102; Apr. 24.
Hinge and check, Double-acting. H. E. Hubbs and L. D. Malone. 1,666,903; Apr. 24.
Hinge, Wall-cabinet. D. J. Murnane. 1,667,010; Apr. 24.
Hitch, Four-horse. S. W. Cady. 1,667,372; Apr. 24.
Holder for glasses. S. W. Farber. Des. 74,973; Apr. 24.
Horn on wing structure of aircraft, Sound-projecting. J. M Coburn and B. Knapp. 1,667,287; Apr. 24.
Hosiery, Garter. N. Chernlak. 1,667,707; Apr. 24.
Ice-cream cone. C. F. Betz. Des. 74,961; Apr. 24.
Identification blotter. J. L. Flanagan. 1,667,542; Apr. 24.
Igniter for internal-combustion engines. H. A. W. Howcott. 1,666,967; Apr. 24.
Igniting flash-light powder, Apparatus for automatically. P. J. Bakker. 1,667,368; Apr. 24.
Impressions, Making. H. Swan. 1,667,447; Apr. 24.
Index or file. W. H. Day. 1,667,539; Apr. 24.
Index or file leaf. W. H. Day. 1,667,538; Apr. 24.
Inflatable ball. A. J. Turner. 1,667,088; Apr. 24.
Ingot mold. E. Gathmann. 1,667,289; Apr. 24.
Instrument for drawing, marking out, and measuring, or like purposes. A. E. Haywood. 1,666,934; Apr. 24.
Insulated terminal. J. M. Lenz. 1,667,598; Apr. 24.
Insulating tube. P. A. Hünermann. 1,667,035; Apr. 24.
Internal-combustion engine. M. Martin and W. R. Werner. 1,666,941; Apr. 24.
Internal-combustion engine. J. S. Reid. 1,667,040; Apr. 24.
Internal-combustion motor. P. Marchetti. 1,667,213; Apr. 24.
Iron: *See*—
Soldering iron.
Ironing board and table, Combined. H. W. Klingensmith. 1,667,665; Apr. 24.
Ironing machines, Driving mechanism for. C. Groen. 1,667,151; Apr. 24.
Jack: *See*—
Automobile jack.
Jack and truck, Combination piano. E. S. Pitcher. 1,667,267; Apr. 24.
Jaw, Artificial. G. F. Ingwersen. 1,667,205; Apr. 24.
Joint: *See*—
Universal joint.
Keg. J. W. Hussey. 1,667,460; Apr. 24.
Key case or purse. C. S. Price and F. Weindel, jr. 1,667,676; Apr. 24.
Key fastener. S. F. Bunker. 1,667,508; Apr. 24.
Lace medallion. W. Meads. Des. 74,983; Apr. 24.
Laminated strips, Method and apparatus for making. G. L. Matthias. 1,667,009; Apr. 24.
Lamps, Focusing device for signal. G. H. Rolfes. 1,667,393; Apr. 24.
Lantern. E. B. Bronson. 1,667,343; Apr. 24.
Lantern. A. H. Handlan. 1,667,379; Apr. 24.
Lantern, Electric. E. B. Bronson. 1,667,706; Apr. 24.
Lantern, Hand. A. H. Handlan. 1,667,378; Apr. 24.
Lapping machine. R. Hofstetter. 1,667,006; Apr. 24.
Latch. W. W. Ayotte. 1,666,985; Apr. 24.
Latching device for refrigerator doors. T. O. Schrader. 1,667,494; Apr. 24.
Latching means for window screens. P. Schnurr. 1,667,607; Apr. 24.
Latching mechanism for intermittent thread-cutting temples. G. H. Willard. 1,667,466; Apr. 24.
Lead accumulator. R. Oppenheim. 1,667,435; Apr. 24.
Lead sludge, Conversion of. J. B. Hill. 1,667,550; Apr. 24.
Lead-testing machine. P. E. Garlent. 1,667,109; Apr. 24.
Lens for automobile headlights, Antiglare. R. A. Osburn. 1,667,489; Apr. 24.
License plate and tail light, Combination. T. Martin. 1,667,126; Apr. 24.
Life preserver. C. W. Breninger. 1,667,414; Apr. 24.
Lifting and transporting device, Load. H. A. Huntoon. 1,667,382; Apr. 24.
Light signal. P. E. Carter. 1,667,469; Apr. 24.
Light-source support. A. H. Handlan. 1,667,380; Apr. 24.
Lighter and cigarette container, Combined cigarette. A. F. Reilly. Des. 74,989; Apr. 24.
Lighter, Pocket. W. Raeburn. Des. 74,988; Apr. 24.
Lighting-fixture wall bracket or analogous article. N. Lipsky. Des. 74,981; Apr. 24.
Lighting fixtures, Bracket for. A. G. Myers. Des. 74,984; Apr. 24.
Lighting fixtures, Wall plate for. H. R. Holdeman. Des. 74,976; Apr. 24.
Linoleum or similar hard-surfaced floor covering. O. W. Fauser. Des. 74,974; Apr. 24.
Liquid dispenser. C. Leof. 1,667,483; Apr. 24.
Liquid gauge. W. C. Starkey. 1,667,499; Apr. 24.
Liquid meter. H. M. Ryder and L. J. Bailey. 1,667,270; Apr. 24.
Lock: *See*—
Automobile theft lock. Nut lock.
Door lock. Trailer lock.
Lock device. H. R. Simpson. 1,667,223; Apr. 24.
Locking device. M. M. Gruber. 1,667,377; Apr. 24.
Locomotive boiler. C. G. Hawley. 1,667,111–12; Apr. 24.
Loom. J. C. Brooks. 1,667,306; Apr. 24.
Loom attachment. E. A. Pennoyer. 1,667,637; Apr. 24.
Loom, Hand. S. I. Odlin. 1,667,330; Apr. 24.
Looms, Brake for pile-wire-controlling mechanism for. W. E. Smith. 1,667,682; Apr. 24.
Looms, Cutting mechanism for automatic. D. Lemieux. 1,667,261; Apr. 24.
Looms, Let-off for. K. Sakamoto. 1,667,221; Apr. 24.
Looms, Selvage-relieving mechanism for. E. A. Cunniff. 1,666,960; Apr. 24.
Looms, Shuttle-changing apparatus for automatic. K. Toyoda. 1,667,572; Apr. 24.
Lubricant from motor-vehicle lubricant-containing cases, Apparatus for forcing. H. D. Collier. 1,66,992; Apr. 24.
Lubricating compound. R. P. Judd. Re16,943; Apr. 24.
Lubricator. O. E. Clark. 1,666,959; Apr. 24.
Luggage carrier, Pivoted. F. J. Laher. 1,667,208; Apr. 24.
Machine for cleaning hair and other filamentary material. C. H. Donner. 1,666,891; Apr. 24.
Machine for cutting fish. A. R. Rogers. 1,667,437; Apr. 24.
Machine for cutting openings for fasteners in metal sheets to be used as forms for making concrete fence posts. J. Darling. 1,667,196; Apr. 24.
Machine for filling molds. E. O. Beardsley and W. F. Piper. 1,667,097; Apr. 24.
Machine for loading and unloading ships. B. N. Davis. 1,666,995; Apr. 24.
Machine for making elastic paper. W. A. Lorenz. 1,667,292; Apr. 24.
Machine for manufacturing paper cups. P. R. Simmons. 1,667,498; Apr. 24.
Machine for producing irregular surfaces. B. Heymann. 1,667,153; Apr. 24.
Machine for sterilizing cottonseed. W. J. Stahmann. 1,667,608; Apr. 24.
Magnet device, Adjustable. H. B. Rex. 1,667,638; Apr. 24.
Mail bags, luggage, and similar objects from aerial crafts to the ground, Apparatus for safely sending. M. Künzer. 1,667,421; Apr. 24.
Mail box. W. F. Wemhoener. 1,667,503; Apr. 24.
Mail box and signpost, Combined. R. B. Smith. 1,667,639; Apr. 24.
Manicuring implement. C. Thelander. 1,667,570; Apr. 24.
Marker and shoulder cleaner, Ballast towline. W. C. Holcomb. 1,667,450; Apr. 24.
Marking system. G. H. Cross. 1,666,904; Apr. 24.
Mast-erecting apparatus. A. T. Scannell. 1,667,440; Apr. 24.
Mat: *See*—
Bowling-alley mat.
Material-working apparatus. S. E. Boynton. 1,667,028; Apr. 24.

Measuring and dispensing apparatus, Liquid. L. E. Baker and C. L. Merriman. 1,667,137; Apr. 24.
Measuring apparatus, Foot-. C. H. Brown. 1,667,100; Apr. 24.
Measuring distance, Method and apparatus for. H. G. Dorsey. 1,667,540; Apr. 24.
Measuring instrument, Electrical. A. J. Corson and S. C. Hoare. 1,667,624; Apr. 24.
Mechanism for producing cam-like or similar irregular motions. C. G. Garrard. 1,666,893; Apr. 24.
Merry-go-round. R. F. Lamar. 1,667,103; Apr. 24.
Mesh machine. F. H. Lynds. 1,666,940; Apr. 24.
Mesh machine. O. Soderstrom. 1,666,951; Apr. 24.
Metal articles, Increasing the elasticity of. G. L. Kelley. 1,667,476; Apr. 24.
Metal-drawing apparatus. D. C. Kinnear. 1,667,387; Apr. 24.
Metal wall and making same, Flexible. F. K. Bezzenberger. 1,667,303; Apr. 24.
Meter: *See*—
Liquid meter. Torsion meter.
Meter and the like, Flow. L. W. Thompson. 1,667,612; Apr. 24.
Meters, Antitheft attachment for. W. A. Dilzell. 1,667,656; Apr. 24.
Micrometer. F. Neubauer. 1,667,562; Apr. 24.
Milk distributor and bottle collector. R. D. Godsey and M. P. Litton. 1,667,000; Apr. 24.
Mills, Roll for sugar-cane and like. W. Mackie. 1,667,632; Apr. 24.
Mining machine. C. F. Osgood. 1,667,167; Apr. 24.
Mirror, Illuminating. W. B. Goddard. 1,667,545; Apr. 24.
Moistening device. F. Chesley. 1,667,067; Apr. 24.
Mold: *See*—
Ingot mold.
Mold-aligning means. T. Midgley. 1,667,129; Apr. 24.
Mold-engraving machine. A. J. Fleiter and T. A. Miller. 1,667,687; Apr. 24.
Molding machine. E. G. Germer, E. G. Walbridge, and J. M. Wysocki. 1,666,963; Apr. 24.
Molding machine. C. H. Peirson and W. A. Bohne. 1,667,673; Apr. 24.
Molding machine. S. B. Stine. 1,667,296; Apr. 24.
Motion according to one law into motion according to another law, Apparatus for the conversion of. W. Stroud. 1,667,640; Apr. 24.
Motor: *See*—
Current motor. Synchronous motor.
Electric motor. Wave motor.
Internal-combustion motor. Windshield-cleaner motor.
Motor. E. G. Gartin. 1,667,699; Apr. 24.
Motor for single or polyphase alternating current, Compensated induction. F. Kade. 1,667,664; Apr. 24.
Motor power take-off. G. E. and O. E. Miller. 1,666,972; Apr. 24.
Motors, Temperature-indicating apparatus for vehicle propelling. H. H. Boyce. 1,667,027; Apr. 24.
Mowing machines, Guard finger for. E. S. Fisher and E. R. Mendrop. 1,667,627; Apr. 24.
Nails, Apparatus for forming double-headed. N. Yates, jr. 1,667,338; Apr. 24.
Net fabrics in net-making machines, Apparatus for arranging edges of. S. Kakuda. 1,667,461; Apr. 24.
Nozzle support, Portable fire-. J. B. Blaw. 1,667,342; Apr. 24.
Nut lock. G. W. Bowman. 1,667,805; Apr. 24.
Ocean stage. O. Hermanson. 1,667,255; Apr. 24.
Oil burner, Adjustable. A. C. Ward. 1,667,365; Apr. 24.
Oil burner, Fuel-. C. A. Kilgus, C. A. Burton, and G. O. Bergmoser. 1,667,122; Apr. 24.
Oil-burning apparatus. J. W. Logan. 1,667,042; Apr. 24.
Oil-mining method and apparatus. L. Ranney. 1,667,269; Apr. 24.
Oiling means, Worm-. A. B. Clisson. 1,667,285; Apr. 24.
Oils, Fractionating. C. M. Alexander. 1,667,340; Apr. 24.
Order blank. W. L. Caldwell. 1,667,622; Apr. 24.
Organic arsenic compounds, Preparation of. A. Binz and C. Räth. 1,667,237; Apr. 24.
Oscillating signal. R. R. Thompson. 1,667,174; Apr. 24.
Outlet-box hanger. C. E. Bowers. 1,667,025; Apr. 24.
Oxidizing mineral hydrocarbons. J. H. James. 1,667,419; Apr. 24.
Packing device. F. P. Allen. 1,667,279; Apr. 24.
Padlock. H. Hedrich. 1,667,254; Apr. 24.
Paint brushes, Hammer attachment for. W. A. Brady. 1,667,651; Apr. 24.
Pan-lid holder. B. Papp. 1,667,266; Apr. 24.
Paper machines, Recording device for. C. J. Guenther. 1,667,516; Apr. 24.
Paper, Proofed. J. Reid. 1,667,691; Apr. 24.
Paring machine. G. Weiss. 1,667,502; Apr. 24.
Partition structure. R. F. Carpenter and T. F. Anderson. 1,667,534; Apr. 24.
Pedestal way liner, Adjustable. D. S. Barrows. 1,667,453; Apr. 24.
Peeler, Fruit. H. Kapota. 1,667,596; Apr. 24.
Pelt or hide stretcher. J. J. Smith. 1,667,295; Apr. 24.
Perambulator. D. F. Larkin. 1,667,041; Apr. 24.
Pharmaceutical product. W. Schoeller, A. Feldt, M. Gehrke, and E. Borgwardt. 1,667,052; Apr. 24.
Phase shifter. L. Shapiro. 1,667,497; Apr. 24.
Photographic silver halid emulsions, Manufacturing. W. Dieterle, O. Matthies, and J. Reitstötter. 1,667,589; Apr. 24.
Picture projector, Motion-. T. F. Yagle. 1,667,645; Apr. 24.
Pictures, Producing color. W. V. D. Kelley. 1,667,477; Apr. 24.
Pilot burner. S. A. Eskilson and C. A. B. Holm. 1,666,997; Apr. 24.
Pin: *See*—
Wear-compensating pin. Wrist pin.
Pipe: *See*—
Smoking pipe.
Pipe coupling, Automatic train-. A. C. Harrell. 1,667,033; Apr. 24.
Pipe support. G. Liniger. 1,667,124; Apr. 24.
Piston. C. C. Hanch. 1,667,548; Apr. 24.
Piston and piston-ring construction. R. G. Hill. 1,666,966; Apr. 24.
Piston and rod packing. J. L. Ahern and L. G. Ledger. 1,667,092; Apr. 24.
Pistons, Manufacturing. H. Ford. 1,667,202; Apr. 24.
Plaster bases, Support for. A. J. Luedke. 1,667,701; Apr. 24.
Plaster-block composition. F. M. Venzie. 1,667,019; Apr. 24.
Plate bond, Fish-. G. Barnes. 1,667,452; Apr. 24.
Plating apparatus. F. P. Green. 1,667,515; Apr. 24.
Plow, Sulky. H. J. Cleary. 1,667,192; Apr. 24.
Plows, Tripping device for power-lift. W. L. Paul. 1,667,130; Apr. 24.
Plug, Steaming-tube. W. G. Shelton. 1,667,896; Apr. 24.
Polished-rod rotator. A. Boynton. 1,667,240; Apr. 24.
Polisher, Electric. H. A. Zweig. 1,667,579; Apr. 24.
Polisher, Pivot. J. P. Wood. 1,667,232; Apr. 24.
Polishers, Attachment for pivot. J. P. Wood. 1,667,231; Apr. 24.
Polishing wheel. D. F. McGovern. 1,667,076; Apr. 24.
Portable elevator. H. Green. 1,667,547; Apr. 24.
Post: *See*—
Fence post.
Powder puff. E. Danielson. Des. 74,968; Apr. 24.
Power installation, Marine. A. T. Kasley. 1,667,475; Apr. 24.
Power-operated wringer. W. K. Howe. 1,667,472; Apr. 24.
Power, Producing. M. J. Trumble. 1,667,403; Apr. 24.
Power system. C. Macmillan. 1,667,633; Apr. 24.
Power-transmission mechanism, Variable. E. C. Gayer. 1,667,290; Apr. 24.
Press: *See*—
Trimming press.
Press. R. T. Anderson. 1,667,648; Apr. 24.
Press-stopping mechanism, Automatic die-. C. B. McDonald. 1,666,942; Apr. 24.
Pressing machines, Neckband clamp for shirt-. A. B. Clisson. 1,667,286; Apr. 24.
Pressure-responsive device. O. G. Wendel. 1,667,020; Apr. 24.
Printing machine. E. Pedrazzo and M. Tua. 1,667,390; Apr. 24.
Projecting apparatus. A. W. Wolfe. 1,667,278; Apr. 24.
Propeller. J. S. Bankrat. 1,667,506; Apr. 24.
Protective arrangement. H. S. Holbrook. 1,667,662; Apr. 24.
Protective device. W. W. Woodruff. 1,666,923; Apr. 24.
Protractor, Marine. S. A. Chapin. 1,667,191; Apr. 24.
Pump. M. H. Wilde. 1,667,179; Apr. 24.
Pump and compressor, Rotary. R. J. P. E. Cozette. 1,667,456; Apr. 24.
Pump, Automobile tire air. W. H. Rice. 1,667,051; Apr. 24.
Pump, Oil-well. W. D. Ogletree. 1,667,433; Apr. 24.
Pump, Rotary. F. Arnold and W. Randolph. 1,667,183; Apr. 24.
Puncturing machine, Pole-. R. D. Valentine. 1,667,063; Apr. 24.
Purifier and aspirator for middlings. G. W. T. Seifert. 1,667,054; Apr. 24.
Pyrometers, Device for holding. F. H. Norton. 1,667,355; Apr. 24.
Radiator cap and filling tube, Combined. G. B. Warner. Des. 74,994; Apr. 24.
Radiator caps and the like, Indicating instrument for automobile. H. H. Boyce. 1,667,026; Apr. 24.
Radiator overflow. L. B. Mettler. 1,667,128; Apr. 24.
Radiator, Sheet-metal. C. H. Pickering and J. Campbell. 1,667,357; Apr. 24.
Radiocabinet. N. S. Dunbar. Des. 74,969–71; Apr. 24.
Radio loud speaker, Diaphragm for a. B. F. Waddell. Des. 74,993; Apr. 24.
Radio receiving apparatus. C. J. Fitch. 1,667,513; Apr. 24.
Railway-crossing gate, Automatic. T. N. Coffelder. 1,667,537; Apr. 24.
Railway drawbar. H. E. Van Dorn. 1,667,298; Apr. 24.
Railway gate. R. Strickler and J. H. McJannett. 1,666,982; Apr. 24.
Railway signaling. L. E. Spray. 1,667,059; Apr. 24.
Railway signaling device. H. Schiering and A. Reinhardt. 1,667,709; Apr. 24.
Railway-switch-selector-operating means. W. K. Howe. 1,667,473–4; Apr. 24.

Railway-track-inspection apparatus. H. Dreyer. 1,667,246; Apr. 24.
Range finder. W. A. Mouton. 1,667,943; Apr. 24.
Receptacle, Dispensing. R. A. Bernhard. 1,667,302; Apr. 24.
Reel: *See*—
Film reel.
Refrigerating apparatus. L. Helmer. 1,667,350; Apr. 24.
Refrigerating cabinet. D. C. Hooker. 1,667,114; Apr. 24.
Refrigerating case. R. E. Ottenheimer. Re16,941; Apr. 24.
Refrigerating system. E. Kindermann. 1,667,038; Apr. 24.
Refrigerator. S. G. Brinkman. 1,667,281; Apr. 24.
Refrigerator drain trap. C. E. Kilbourne. 1,666,937; Apr. 24.
Regenerative furnace. D. B. Jones and F. C. Swartz. 1,667,319; Apr. 24.
Registering mechanism. C. W. Ketteman. 1,667,121; Apr. 24.
Reservoir, Dispensing. E. Crouse. 1,667,245; Apr. 24.
Resin, Synthetic. C. E. Burke and H. H. Hopkins. 1,667,189; Apr. 24.
Ring. A. Sammartino. 1,667,680; Apr. 24.
Rivet-feeding mechanism. E. B. Stimpson. 1,667,397–400; Apr. 24.
Rod: *See*—
Tie rod. Truss rod.
Rod rotator, Polished-. A. Boynton. 1,667,187; Apr. 24.
Roller: *See*—
Tubing roller.
Roofing construction. J. F. Lietz. 1,666,939; Apr. 24.
Routing machine. V. Royle. 1,667,394; Apr. 24.
Ruling machine. A. Broadmeyer. 1,666,989; Apr. 24.
Safety closet. F. Fónagy. 1,667,543; Apr. 24.
Sample and sample container. E. M. Kinsey. 1,667,320; Apr. 24.
Sand gate. R. Hamm. 1,667,690; Apr. 24.
Sanitary belt and napkin holder, Combination. L. Amezaga. 1,667,522; Apr. 24.
Sash fastener. C. P. Sekyer. 1,666,945; Apr. 24.
Sash holder and starter, Combined. E. F. Chaffee. 1,667,283; Apr. 24.
Sash structures, Corner cap for. F. H. Meyer. 1,667,043; Apr. 24.
Saw, Chain. L. C. Field. 1,667,347; Apr. 24.
Saw tooth. P. L. Billingsley. 1,666,987; Apr. 24.
Scissors and shears. H. N. James. 1,666,968; Apr. 24.
Scraper and dresser, Meat-block. M. M. Menzel. 1,667,329; Apr. 24.
Scraper, Road. R. E. Stewart. 1,667,173; Apr. 24.
Screen. A. Ashkenas. Des. 74,958; Apr. 24.
Screen and forming the metal frame thereon, Metal-framed half-tone. F. H. Hausleiter. 1,667,517; Apr. 24.
Screen for separating almonds and hulls. T. J. Craig and A. L. Scofield. 1,667,194; Apr. 24.
Screw expansion and method, Drive-. H. W. Pleister. 1,667,268; Apr. 24.
Scrubbing board. R. L. Sherrod. 1,667,441; Apr. 24.
Sealing device. F. Perrin. 1,667,563; Apr. 24.
Seine, Pot. L. Hanken. 1,667,700; Apr. 24.
Selecting machine for dictating the punching of holes in jacquard cards. W. W. Hodgson. 1,666,900; Apr. 24.
Separator: *See*—
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Sewing machine. E. H. Marble. 1,667,326; Apr. 24.
Sewing machine, Bag-. F. J. Thull. Re16,944; Apr. 24.
Sewing machine, Welt-. J. R. Oliver. 1,667,046; Apr. 24.
Shade apparatus, Window-. T. S. Catlin. 1,666,990; Apr. 24.
Shade for reading lights, Lamp. A. G. Carey. 1,667,623; Apr. 24.
Sharpening block for racing skates. R. D. Corke. 1,666,993; Apr. 24.
Sharpening steels, Guard for knife-. P. D. Callum. 1,667,282; Apr. 24.
Shaving-soap cake and holder therefor. B. Ogden. 1,667,045; Apr. 24.
Sheet-rolling apparatus, Continuous-. W. M. Blecker. 1,667,412; Apr. 24.
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Shingle, Roofing. W. E. Bartels. 1,667,185; Apr. 24.
Ship guidance system. J. H. Hammond, jr. 1,666,897; Apr. 24.
Shock absorber. E. J. Kolodziej. 1,667,039; Apr. 24.
Shock absorber. E. L. Peacock. 1,667,011; Apr. 24.
Shock absorber. G. A. Peacock. 1,667,047; Apr. 24.
Shoe. G. A. Jones. 1,667,159; Apr. 24.
Shoe-stitcher attachment. A. Lutschg. 1,667,427; Apr. 24.
Shoes and analogous products, Conditioning. G. D. Harris. 1,667,315; Apr. 24.
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Shoveling board, Wagon-body. 1,667,438; Apr. 24.
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Sight feed. E. M. Scoville. 1,666,918; Apr. 24.
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Signaling device. O. Kersten. 1,667,206; Apr. 24.
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Size marker for hats. J. P. Kuhns. 1,667,162; Apr. 24.
Sled, Scooter. A. E. Rainey. 1,667,436; Apr. 24.
Sleeve holder. A. L. Black. 1,667,583; Apr. 24.
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Sludge, Apparatus for mixing. R. Beattie. 1,667,235; Apr. 24.
Smoker's stand. C. Wilmanns. Des. 75,995; Apr. 24.
Smoking pipe. H. C. Reese. 1,666,914; Apr. 24.
Snowplow. J. N. Smith. 1,667,445; Apr. 24.
Snow shovel. E. H. Eden. 1,667,591; Apr. 24.
Socket for electric lamps. F. J. Miles and D. C. Thompson. 1,666,974; Apr. 24.
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Socket wrench. J. F. Grasley. 1,667,661; Apr. 24.
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Sound device. L. V. Aronson. 1,667,094–6; Apr. 24.
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Sound-signaling apparatus, Subaqueous. W. Hahnemann and A. du Bois-Reymond. 1,667,418; Apr. 24.
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Strip-recording apparatus, Chart drive roll for. H. Koester. 1,667,479; Apr. 24.
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Theft signal switch. J. P. Bradley and O. A. Prough. 1,667,650; Apr. 24.
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Tobacco and the like, Device for curing. G. O. Cruikshank. 1,667,512; Apr. 24.
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Train-line coupler. H. E. Van Dorn. 1,667,297; Apr. 24.
Train-stopping apparatus, Automatic. D. M. Daley. 1,667,457; Apr. 24.
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Transformer. J. Desloge. 1,666,889; Apr. 24.
Transformer, Thermoelectric. J. H. Steurer. 1,666,919; Apr. 24.
Transformers, Terminal block for current. E. J. Zelt. 1,667,617; Apr. 24.
Transmission and transformation, System of electrical. P. H. Thomas. 1,667,087; Apr. 24.
Transmission clutch. E. W. Jackson. 1,667,260; Apr. 24.
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Vacuum cleaner. D. U. Remaley. 1,666,915; Apr. 24.
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Valve and thief hatch, Combination pressure-vacuum. H. H. Howell. 1,666,935; Apr. 24.
Valve for fire-extinguisher pumps, Relief. P. G. MacGregor. 1,667,262; Apr. 24.
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Wall register rack, Side-. J. M. Breitenbach. 1,667,099; Apr. 24.
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Wave motor. M. Hegge. 1,667,152; Apr. 24.
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CLASSIFICATION OF PATENTS

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